# VALLEY NISSAN

Mr. Gil Wistar Alameda County Department of Environmental Health 80 Swan Way #200 Oakland, CA, 94621 fell 22190

Dear Gil,

Per your request I am forwarding to you one copy of the report furnished to us by Clayton Environmental for the property located at 5787 Scarlett Court in Dublin.

As we have recently closed escrow on this property I have contracted with Clayton for the completion of the clean-up of this property.

If you have any other questions, please give me a call.

Christopher M. Regalia General Manager

45:11MA ES YAM 18

## Clayton Environmental Consultants, Inc.

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

Additional Soil and Groundwater Investigation at
5787 Scarlett Court
Dublin, California
for
Valley Nissan/Dodge

Clayton Project No. 27399.00 February 22, 1990

#### **Executive Summary**

Clayton Environmental Consultants, Inc., was retained by Valley Nissan/Dodge to install three monitoring wells and five boreholes for the purpose of sampling and analysis of soil and groundwater at 5787 Scarlett Court in Dublin, California (Figure 1). Previous reports prepared by Atlas Hydraulics (Atlas) indicated the possible presence of gasoline in the soil and groundwater in the area of a former underground storage tank at the site.

On January 22 and 23, 1990 Clayton installed four monitoring wells (MW-1, MW-2, MW-3, and MW-4) and five boreholes (BH-1, BH-2, BH-3, BH-4, and BH-5) at the site. The additional monitoring well MW-4 was installed with the client's permission to further define the vertical and lateral extent of soil and groundwater contamination.

Analysis of soil and groundwater samples indicated:

- The benzene concentration is above the State of California Department of Health Services (DHS) action level in groundwater sample MW-2. The other aromatics (toluene, xylene, and ethylbenzene) present in groundwater samples are below DHS action levels.
  - MW-2 was the only well to detect contaminated groundwater exceeding the state levels for constituents analyzed. Because the other monitoring wells are unaffected or have insignificant contaminant levels, we construe this to mean that the groundwater contamination in the vicinity of MW-2 is localized.
- Contaminated soils have been recognized as exceeding California State Leaking Underground Fuel Tank (LUFT) guidelines. These soils are defined by the analyses of soils from borings encircling the former excavation site.

Based on our investigation, we recommend the following:

- Additional soils should be removed from the ground and aerated onsite, or aerated in place, to reduce the levels of volatile hydrocarbons and BTEX compounds to acceptable levels. Excavation and onsite aeration can be accomplished by excavation of soils defined by boreholes as contaminated and placement of soils between sheets of plastic. Soils may be spread to an approximate thickness of 4 inches to enhance the surface area and volatilization process. The covering of the samples with plastic prevents migration of contaminated soils to adjoining clean soil. After a reasonable period of time (a few days to 1 week) soils need to be turned to expose additional areas to the aeration process. Select samples can then be collected at a later date of the soil piles for confirmation analyses. Based on soils analysis, the acceptable disposal method will be determined.
- Groundwater contamination recognized in MW-2 should be addressed. Because the estimated groundwater flow direction is south-southeast, contaminated groundwater appears confined to the MW-2 area and probably upgradient and beneath part of the former excavation site.

#### Clayton Environmental Consultants, Inc.

- As an initial step, this well should be monitored quarterly (every 3 months) to assess changes in hydrocarbons and BTEX levels. The other wells should be monitored every 6 months to assure that the contamination is not spreading laterally.
- If groundwater recovery and treatment is necessary, an additional well or wells will need to be installed in the former excavation site area to implement a groundwater recovery and treatment program.
- The site owner should inform the Regional Water Quality Control Board or the Alameda County Department of Health of these findings.

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#### 1.0 INTRODUCTION

Clayton Environmental Consultants, Inc., was retained by Valley Nissan/Dodge to install three monitoring wells and five boreholes for the purpose of investigating the extent of subsurface contamination by sampling and analysis of soil and groundwater at 5787 Scarlett Court in Dublin, California (Figure 1). Previous reports prepared by Atlas Hydraulics (Atlas) indicated the possible presence of gasoline in the soil and groundwater in the area of a former underground storage tank.

The work was authorized by Mr. Ron Imperiale on January 16, 1990, by approving Clayton's Proposal No. 90-B-010 and its accompanying Terms and Conditions. Clayton commenced field work on January 22, 1990, after obtaining the permits to install the monitoring wells from the Alameda County Flood Control and Water Conservation District, Zone 7 (Zone 7). A copy of this permit is provided in Appendix A.

#### 2.0 BACKGROUND

Clayton Environmental Consultants, Inc., was retained by Valley Nissan/Dodge to conduct a subsurface investigation on 5787 Scarlett Court in Dublin, California. The purpose of this investigation was to evaluate the previous work performed at the site, recommend further work to be performed, if necessary, and assess the need for remediation at the site. This investigation included soil and groundwater sampling at the site.

The site is located in Dublin, north of Highway 580, and north of Scarlett Court (see Figure 1). Our review of results of soil and water sampling by Atlas revealed the presence of gasoline beneath the property.

#### 2.1 PREVIOUS WORK REVIEW

A review of previous work was done as part of the Phase I assessment. The Phase I report is included as Appendix B to facilitate review of both documents by interested parties.

#### 3.0 FIELD PROCEDURES

Clayton commenced field activities related to the installation and sampling of four monitoring wells (MW-1, MW-2, MW-3, and MW-4) and five boreholes (BH-1, BH-2, BH-3, BH-4 and BH-5) at the site on January 22, 1990 (Figure 2). The field work was completed on January 26, 1990. The following subsections address the completion of each of the tasks outlined in Clayton's proposal dated January 16, 1990.

#### 3.1 SOIL BOREHOLE INSTALLATION

Clayton supervised the drilling of nine boreholes (BH), four of which were converted into monitoring wells. Datum Exploration Company, of Pittsburg, California, provided borehole and well installation services under subcontract to Clayton.

The boreholes were drilled using a Mobile B-61 drilling rig. Before work commenced, the augers and soil sampler were steam cleaned. Appendix C 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 D.

Soil boring samples were collected and analyzed using combined EPA Method 5030/8015-8020, for benzene, toluene, ethylbenzene, and xylene (BTEX) and gasoline.

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.

Soil samples were collected at the following locations:

Boring	Sampling Interval (feet)	Boring	Sampling Interval (feet)
MW-1	5.0 - 5.5	BH-1	4.0 - 4.5
	10.0 - 10.5		4.5 - 10.0
	15.0 - 15.5		
		BH-2	No sample
MW-2	3.0 - 3.5		
	9.5 - 10.0	BH-3	No sample
	14.5 - 15.0		
		BH-4	4.0 - 4.5
MW-3	4.5 - 5.0		8.5 - 9.0
	9.5 - 10.0		
	15.0 - 15.5	BH-5	5.0 - 5. <b>5</b>
			10.0 - 10.5
MW-4	5.5 - 6.0		
	9.5 - 10.0		

BH-2 and BH-3 were terminated early at depths of 3 and 2.5 feet, respectively. A slight gasoline odor was detected in both borings so the hole was progressively relocated westerly as far as possible up against the cement floor of the warehouse, which resulted in the location of BH-4.

Waste drill cuttings were placed into Department of Transportation (DOT)-approved drums for proper disposal at a later date. These drums were labeled with the name of the site, address, and well number, and left at the site and deemed to be the responsibility of our client.

#### 3.2 MONITORING WELL CONSTRUCTION AND SAMPLING

Monitoring wells MW-1, MW-2, MW-3, and MW-4 were drilled to depths of 15, 18, 15, and 19 feet, respectively. A 4-inch diameter PVC schedule 40 well casing and screen (0.020-inch) was installed into each borehole. 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 of bentonite pellets. A neat cement seal was then placed over the bentonite plug (Figures 3, 4, 5, and 6).

Monitoring wells were developed to remove silt from the sand pack on January 23, 1990. The purged water was stored onsite in a DOT-approved drum pending laboratory analysis results. These drums, as well as those containing drill cuttings, should be disposed of legally by Valley Nissan.

On January 26, 1990, groundwater was purged from the monitoring wells with a submersible electric pump and sampled with a Teflon<sup>TM</sup> bailer. Details of the purging are provided in Appendix E. Purge water was stored in drums and left onsite for legal disposal by Valley Nissan. The pumps and the bailers were precleaned with a steam cleaner, washed in TSP, triple-rinsed in tap water, and triple-rinsed in deionized water.

Water samples were placed in 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 D.

Groundwater samples collected on January 15, 1990, were analyzed using combined EPA Method 8015/8020 for gasoline and benzene, toluene, xylene, and ethylbenzene (BTXE).

#### 4.0 LABORATORY RESULTS AND DATA ANALYSES

The soil samples are identified by location and sampling depth. Soil and groundwater analyses results are summarized in the following tables and described in detail in the analytical laboratory reports in Appendix D.

#### 4.1 SOIL SAMPLE ANALYSES

The soil sample results were compared to the guidelines set forth in the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual. The LUFT guidelines are shown at the bottom of Table I for comparison to the borehole analytical results. As shown in Table 1, BH-1-4 soil exceeded the LUFT guidelines for benzene and ethylbenzene. MW-1 soil also exceeded the LUFT guidelines for ethylbenzene. MW-2 soil exceeded the LUFT guidelines for TPH as gasoline and all BTEX volatiles. MW-3 soil exceeded the LUFT guidelines for toluene.

TABLE 1

Parameters Detected in Soil Samples
Collected on January 22 and 23, 1990

Sample ID	TPH-G	Benzene	Toluene	Xylene	Ethylbenzene
BH-1-4	88	0.2	< 0.1	0.4	1.7
BH-1-9.5	3.8	0.32	0.011	0.068	0.14
BH-4-5.4	2.3	0.023	0.17	0.009	< 0.005
BH-4-8.5	8.3	0.082	0.012	0.2	0.29
BH-5-5	< 0.3	< 0.005	0.075	< 0.005	< 0.005
BH-5-10	< 0.3	< 0.005	0.064	< 0.005	< 0.005
MW-1-5.5	89	< 0.1	0.2	0.6	2.1
MW-1-10.5	< 0.3	< 0.005	0.015	< 0.005	< 0.005
MW-1-15.5	< 0.03	< 0.005	< 0.005	< 0.005	< 0.005
MW-2-3	40	0.7	2.7	4.6	1.3
MW-2-9.5	760	8	< 5	6	17
MW-2-14.5	44	0.22	0.1	0.4	0.45
MW-3-4.5	1.4	< 0.005	0.6	0.008	< 0.005
MW-3-9.5	< 0.3	< 0.005	0.016	< 0.005	< 0.005
MW-3-15	< 0.3	< 0.005	< 0.005	< 0.005	< 0.005
MW-4-5.5	< 0.3	< 0.005	0.17	< 0.005	< 0.005
MW-4-9.5	< 0.3	< 0.005	0.022	< 0.005	< 0.005
LUFT Guidelines	100	0.3	0.3	1	1

All concentrations are in milligram per kg (mg/kg) which is approximately equivalent to and commonly listed as parts per million (ppm).

#### 4.2 GROUNDWATER SAMPLE ANALYSES

The groundwater sample results were compared to the California DHS state action levels described in Marshack, 1988 and are shown at the bottom of Table 2 for comparison with the groundwater analytical results obtained. MW-3 and MW-4 are not listed in the table because the parameters analyzed were below the detection limits for these two wells.

Groundwater from MW-2 was the only groundwater sampled to exceed DHS action levels for benzene.

TABLE 2

Parameters Detected in Groundwater Samples
Collected on January 26, 1990

Sample ID	<u>TPH-G</u>	Benzene	Toluene	<u>Xylene</u>	Ethylbenzene
MW-1	80.0	< 0.0004	< 0.0003	0.001	0.001
MW-2	8.3	3.0	0.014	0.54	0.54
DHS Action Levels	N/A	0.0007	<b>0.1</b>	0.68	0.62

N/A Not Available

All concentrations are milligram per liter (mg/L) which is approximately equivalent to and commonly listed as parts per million (ppm).

#### 5.0 CONCLUSIONS

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

- North of the former excavation site, soil sample MW-1-5.5 indicates ethylbenzene in excess of the LUFT guidelines. Also, sample BH-1-4 exceeds ethylbenzene guidelines, and sample BH-1-9.5 exceeds the benzene guidelines.
- Southwest of the former excavation site, MW-2 shows soils exceed the LUFT guidelines for TPH as gasoline and all the volatiles (BTEX) listed.
- Southeast of the former excavation site, MW-3 contains shallow soil exceeding LUFT guidelines for toluene.
- West, south, and east of the former excavation site, the limits of soil contamination appear defined based on information from BH-4, MW-4, and BH-5, respectively.
- Groundwater sampled in MW-2 exceeded the DHS action levels for benzene. Groundwater samples from MW-3 and MW-4 were below the detection limits for the constituents analyzed. Groundwater sampled from MW-1 had detectable TPH as gasoline, xylene, and ethylbenzene, but well below the DHS action levels.

#### 6.0 RECOMMENDATIONS

Based on our investigations and laboratory results, we recommend the following:

Additional soils should be removed from the ground and aerated onsite, or aerated in place, to reduce the levels of volatile hydrocarbons and BTEX compounds to acceptable levels. Excavation and onsite aeration can be accomplished by excavation of soils defined by boreholes as contaminated and placement of soils between sheets of plastic. Soils may be spread to an approximate thickness of 4 inches to enhance the surface area and volatilization process. The covering of the samples with plastic prevents migration of contaminated soils

to adjoining clean soil. After a reasonable period of time (a few days to 1 week) soils need to be turned to expose additional areas to the aeration process. Select samples can then be collected at a later date of the soil piles for confirmation analyses. Based on soils analysis, the acceptable disposal method will be determined.

- Groundwater contamination recognized in MW-2 should be addressed. Because the
  estimated groundwater flow direction is south-southeast, contaminated groundwater appears
  confined to the MW-2 area and probably upgradient and beneath part of the former
  excavation site.
- As an initial step, this well should be monitored quarterly (every 3 months) to assess
  changes in hydrocarbons and BTEX levels. The other wells should be monitored every 6
  months to assure that the contamination is not spreading laterally.
- If groundwater recovery and treatment is necessary, an additional well or wells will need to be installed in the former excavation site area to implement a groundwater recovery and treatment program.
- The site owner should inform the Regional Water Quality Control Board or the Alameda County Department of Health of these findings.

#### 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.

#### 8.0 REFERENCES

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

This report prepared by:

Dariush Dastmalchi

Geologist

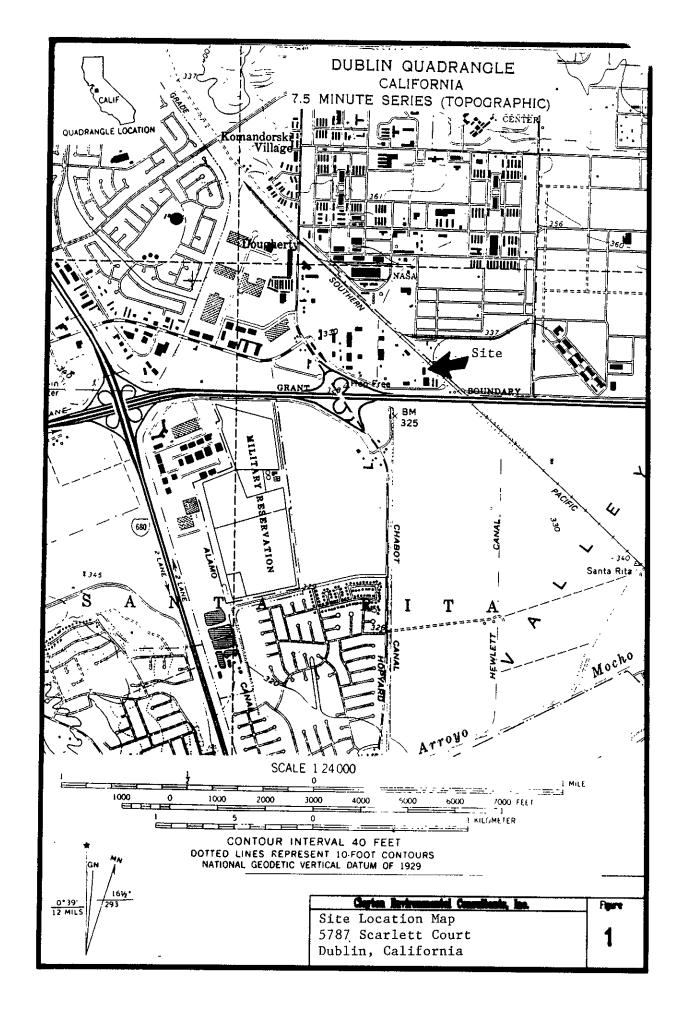
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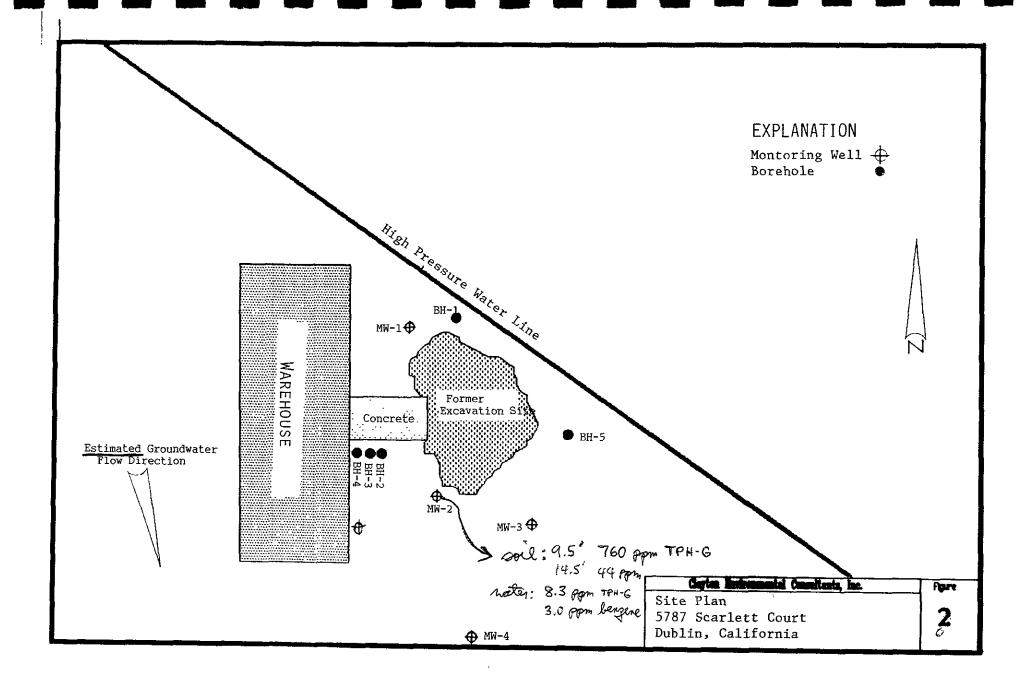
Alan D. Gibbs

Supervisor, Geology Group

Clayton Environmental Consultants, Inc.

**FIGURES** 





EXPLANATION Concrete Bentonite Sand 15 4" PVC Schedule 40 Casing with 0.01" Slot 9, 8, Cleyton Invironmental Committants, Inc. fgre Monitoring Well Diagram (MW-1) 3 5787 Scarlett Court Dublin, California

EXPLANATION



Concrete



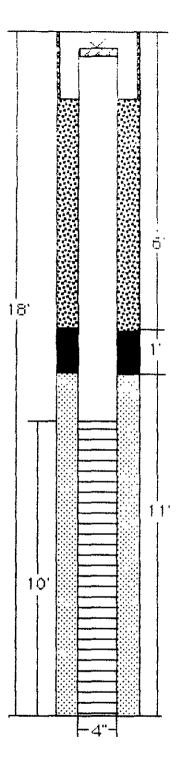
Bentonite



Sand



4" PVC Schedule 40 Casing with 0.01" Slot



L	Clayton Environmental C	ensultants, inc.
	Monitoring Well Di	lagram (MW-2)
	5787 Scarlett Cour	ct
	Dublin, California	1

figure

**EXPLANATION** Concrete Bentonite Sand 15 4" PVC Schedule 40 Casing with 0.01" Slot 8, H4"-Clertes Bretressental Consultants, Inc. Figure Monitoring Well Diagram (MW-3) 5 5787 Scarlett Court Dublin, California

**EXPLANATION** Concrete Bentonite Sand 19 4" PVC Schedule 40 Casing with 0.01" Slot 13" 12 Cleyton Reviewmental Consultants, Inc. Spire Monitoring Well Diagram (MW-4) 6 5787 Scarlett Court Dublin, California

Clayton Environmental Consultants, Inc.

APPENDIX A
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	FOR OFFICE USE
) LOCATION OF	F PROJECT 5787 Scarlett Court	PERMIT NUMBER 90025
	Dublin, CA 94568	LOCATION NUMBER
) CLIENT		
Name	Valley Nissan/Dodge	PERMIT CONDITIONS
Address	6015 Scarlett Ct. Phone	FERMIT CONDITIONS
CIty	Dublin, Zip 94568	Circled Permit Requirements Apply
) APPLICANT		_
Name	Dariush Dastmalchi	(A.) GENERAL
	Clayton Environmental Consultants Inc.	I. A permit application should be submitted so as to
Address	1252 Quarry Lane Phone 426-2609	arrive at the Zone 7 office five days prior to
CIty	Pleasanton ZIp 94566	proposed starting date.
\ DE400.15T10	AN AN ANALYSIS	2. Submit to Zone 7 within 60 days after completion
DESCRIPTION		of permitted work the original Department of
Cathodic Pa		Water Resources Water Well Drillers Report or
Well Destru		equivalent for well projects, or drilling logs
WOTT BOSTI	Configuration	and location sketch for geotechnical projects.
PROPOSED WA	ATER WELL USE	<ol> <li>Permit is void if project not begun within 90 days of approval date.</li> </ol>
Domestic	Industrial Irrigation	B.) WATER WELLS, INCLUDING PIEZOMETERS
Municipal	Monitoring x Other	I. Minimum surface seal thickness is two inches of
		cement grout placed by tremie.
PROPOSED CO		2. Minimum seal depth is 50 feet for municipal and
Drilling Me		industrial wells or 20 feet for domestic, irriga-
Cable	Air Rotary AugerX	tion, and monitoring wells unless a lesser depth
	0ther	is specially approved.
DRILLER'S L	ICENSE NO. 480802 (C-57)	C.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted metaplates.
WELL PROJEC	CTS	pacted material. In areas of known or suspected contamination, tremied cement grout shall be used in
Drill	Hole Diameter 10 in. Maximum	place of compacted cuttings.
	g Dlameter 4 In. Depth 15 ft.	D. CATHODIC. Fill hole above anode zone with concrete
Surfac	ce Seal Depth 6 ft. Number 3 x	placed by tremie.
GEOTECHNICA	AL PROJECTS	E. WELL DESTRUCTION. See attached.
	of Borings 4 Maximum	A Fourmonitoring wells up to
Hole D	Diameter 8 in. Depth 15 ft.	twenty feet in Pouth cm, 27 Jan 90
ESTIMATED S	STARTING DATE 1/22/90	cm, 27 Jan 90
ESTIMATED C	COMPLETION DATE 1/22/90	
I hereby ac	gree to comply with all requirements of this	Approved Waman Hann - Date 16 Jan 90
	Alameda County Ordinance No. 73-68.	Approved Wyman Hong Date 16 Jan 90
APPLICANT'S		U
SIGNATURE	Junios far history Date 1 196/40	

Clayton Environmental Consultants, Inc.

## APPENDIX B

PHASE I ENVIRONMENTAL ASSESSMENT REPORT

## Clayton Environmental Consultants, Inc.

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

Phase I Environmental Assessment at 5787 Scarlett Court Dublin, California for Valley Nissan/Dodge Dublin, California

Clayton Project No. 27054.00 January 8, 1990

#### **Executive Summary**

Clayton Environmental Consultants, Inc., was retained by Valley Nissan/Dodge to perform a Phase I Environmental Assessment of a property located at 5787 Scarlett Court in Dublin, California. The property, which includes a 9,480 square foot warehouse, is currently occupied by Valley Nissan/Dodge and used as a parking lot.

The investigation included a site visit and review of existing documents in local and state agencies relating to the site and its surrounding area. This investigation did not include any physical sampling of materials from the site.

Based on our limited investigation, we concluded that:

- Two 12,000-gallon gasoline tanks were removed from the site in October, 1988.
- The laboratory results from soil samples collected at the time of backfilling indicate that soil used is "clean" (TPH-G concentration of less than 100 mg/kg); however, there are still contaminated soils left in place.

There are patches of floor covering in the warehouse that are suspected to contain asbestos..

- There are oil stains inside on the concrete floor and outside of the warehouse on the asphalt.

  The extent of the contamination is not known.
- A pile of soil mixed with pieces of asphalt is stored on the northwest corner of the property.
- Nearby or adjacent properties include three sites where leaking underground storage tanks have been identified. Documentation shows that remediation is in progress.

We offer the following recommendations, based on the results of our investigations:

- · Further investigation to determine the extent of contamination in soil and groundwater
- Preparation of a comprehensive remediation plan for Regional Water Quality Control Board and Alameda County Department of Environmental Health approval
- Removal of the soil and asphalt pile located on the northwest corner of the property
- Removal of a small amount of the floor covering which may contain asbestos
- Clarifying the status on the notice of violation served in May 26, 1989 to Lew Doty by the Alameda County Department of Environmental Heath.
- Cleaning of the oil stains on the concrete and asphalt, and investigating the extent of contamination
- Sampling the water in the existing well on the property.

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Phase I Environmental Assessment at 5787 Scarlett Court Dublin, California for Valley Nissan/Dodge Dublin, California

Clayton Project No. 27054.00 January 8, 1990

## 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/Dodge to perform a Phase I environmental assessment of the site currently used by Valley Nissan/Dodge as a parking lot, at 5787 Scarlett Court in Dublin, California (Figure 1). The purpose of the study was to evaluate potential environmental problems that may be associated with the site resulting from previous or present operations at or in the vicinity of the property.

This assessment was authorized by Mr. Chris Regalia on December 12, 1989, by approving Clayton's Proposal No. 89-B-204 and its accompanying Terms and Conditions. An asbestos-containing building materials survey was not performed; however, the potential for the presence of asbestos-containing materials is discussed here.

The assessment was conducted by Mr. Dariush Dastmalchi, geologist with Clayton.

#### 1.1 SCOPE OF WORK

Our Phase I environmental assessment included:

- A search for onsite underground tanks, pits, ponds, and sumps
- A visual search for asbestos-containing materials (no sampling was performed)
- A visual search for significant sources of potential PCB release
- An evaluation of onsite hazardous substance storage practices
- An evaluation of historical site use based upon readily available aerial photos and planning and building records
- An overview of use of surrounding properties that could potentially impact the subject site
- A review of relevant regulatory agency records to gather historical information that may impact environmental issues at the site

#### 2.0 PROPERTY DESCRIPTION

The property assessed in this report is located at 5787 Scarlett Court, in Dublin, California and bordered by 84 Lumber, Valley Nissan/Dodge, City of Dublin Corporate Yard, and Federal Government Property (Figure 2). The site, currently used by Valley Nissan/Dodge as a parking lot, includes a 9,480 square foot warehouse.

#### 3.0 HISTORICAL BACKGROUND

The following information was obtained from the Alameda County Assessor's office, City of Dublin Planning office, documents provided to Clayton by Mr. Regalia (Appendix A), and an analytical report provided by Atlas Hydraulics (Appendix B).

In 1968, Demar Plastering Company (DPC) purchased the undeveloped property from John and Mary Crowell. A 9,480 square foot warehouse was constructed in 1969, and two 12,000-gallon tanks were installed in 1970. DPC continued using the property as a local office and warehouse until 1986.

In 1986, <u>Land S. Ranches</u> (Clayton understands this is a company owned by Lew Doty Cadillac) purchased the property from DPC and, according to the Alameda County Assessor's Office, they are the current owners.

In 1987, Lew Doty obtained a permit from the City of Dublin to build an interior office and a bathroom within the warehouse.

Documents provided by Mr. Regalia show that on January 1, 1988, Johnson Precision Tank Testing, under contract to Lew Doty, performed a tank tightness test on one 7,500-gallon tank and one 10,000-gallon tank on the subject property (Appendix A). It is our understanding that only two 12,000-gallon tanks were in the property, therefore we believe the results from these tests are not reliable. According to documents in Appendix A, on November 1, 1988, Atlas Hydraulic Corporation (Atlas) did a precision tank test on a 3,000-gallon underground unleaded tank located on 6301 Scarlett Court in Dublin. The test results revealed that the tank was free of leaks. It was subsequently removed, and the appropriate agencies were informed. Clayton believes that this is not related to work performed on the subject property and was included in the report by mistake.

On October 28, 1988, Atlas, under contract with Lew Doty, removed the two 12,000-gallon tanks and transported them to the H & H Ship Service (H & H) facility for disposal. Four soil and two water samples were taken and analyzed for total petroleum hydrocarbons as gasoline (TPH-G) using the Department of Health Services (DHS), and Environmental Protection Agency (EPA) Method 8020 for benzene (B), toluene (T), xylene (X), and ethylbenzene (E). Laboratory results indicated that both groundwater and soil samples had TPH-G contaminations ranging from 180 mg/l to 1,100 mg/kg (Table 1).

On November 3 and 4, 1988, H & H, under subcontract to Atlas, vacuumed approximately 5,000-gallons of water from the excavation pits and transported it to its TSD site (Appendix A). Atlas removed an additional 40 yards of contaminated soil and proceeded to aerate the soil onsite to be used for backfilling the excavation pit. On December 19, 1988, Trace Analysis Laboratory (Trace) took six soil samples from the aerated stockpiles and analyzed the samples for TPH-G and BTXE. Laboratory analysis indicated TPH-G contaminations ranging from 16

to 84 mg/kg (Table 2). Atlas continued aerating until August 14, 1989, when Trace sampled the aerated stockpiles in nine places. The laboratory results indicated that TPH-G and BTXE concentrations were all below detection limits (Appendix B)

On January 9, 1989, Mr. Louis Richardson, an engineering geologist for Atlas, in a letter to Mr. Tom Peacock of Alameda County Department of Environmental Health (ACDEH), requested to backfill the excavation pits with aerated soil containing less than 100 mg/kg TPH-G and discharge the contaminated water that had collected in the excavation pit into the storm drain (Appendix A).

On March 3, 1989, ACDEH set specific guidelines for resolving the problems onsite in a letter to Mr. Doty. ACDEH also approved backfilling the excavation site with the condition that any soil contaminated with a TPH-G concentration higher than 100 mg/kg may have to be excavated at a later date. ACDEH denied the request for discharge into the storm drain.

On February 22, 1989, Trace sampled and analyzed the water collected in the excavation pit for TPH-G and BTXE. Two water samples had TPH-G concentrations of 7.7 and 16 ug/l (Table 3). Based on these results, Mr. Richardson requested a permit for one-time discharge of contaminated water into the sewer lines. On March 23, 1989, Dublin San Ramon Services District (DSRSD) approved Mr. Richardson's request for discharging the contaminated water into the sewer lines.

On November 7, 1988 and May 10, 1989, Trace, under subcontract to Atlas, collected one water and eight soil samples from the excavation pit. Laboratory analysis results indicated TPH-G concentrations ranging from 59 to 2,200 mg/kg in soil samples and 32 mg/l in water (Tables 4 and 5).

On May 26, 1989, Lew Doty Cadillac was served with a notice of violation by ACDEH, for not responding to the agency's letter dated March 3, 1989.

On June 12, 1989, Mr. Richardson of Atlas, provided Lew Doty Cadillac with a work plan to address the issues identified by the ACDEH.

On November 27, 1989, Atlas recommended to Mr. Doty that a soil-gas survey be performed. Additionally, the installation of three monitoring wells was recommended.

#### 4.0 ONSITE FINDINGS

This section presents our findings concerning potential onsite environmental impairments.

#### 4.1 UNDERGROUND STORAGE TANKS

Two 12,000-gallon gasoline tanks were removed from the site in October, 1988, as described in previous sections.

#### 4.2 PCB-CONTAINING MATERIALS

No suspected PCB-containing materials such as transformers or fluorescent lights were observed onsite.

#### 4.3 ASBESTOS-CONTAINING MATERIALS

An asbestos survey was not undertaken as a part of this assessment; however, a visual search for materials commonly known to contain asbestos was performed during our site inspection.

Clayton identified patches of floor covering which may contain some asbestos (Figure 4).

#### 4.4 CHEMICAL SPILL

Several locations inside and outside the building are stained with oil (Figure 4). The extent of contamination is not known.

#### 4.5 WATER WELL

Lew Doty owns and operated a well located on the east side of the building (Figures 3 and 4).

#### 4.6 SOIL STOCKPILE

Clayton also observed a stockpile of soil mixed with pieces of asphalt in the northwest corner of the property (Figure 2).

#### 5.0 REGIONAL FINDINGS

Clayton reviewed nearby sources that could pose a potential threat to the subject site. This section presents our findings.

#### 5.1 ADJACENT PROPERTIES

During the walkthrough, it was noted that 84 Lumber sells treated lumber. A salesman at 84 Lumber said that the lumbers are treated with copper chromium arsenate (CCA). He also stated that there are no underground storage tanks on the property.

While conducting a visual inspection of nearby properties, we noticed three abandoned fuel dispensers (labeled as diesel and unleaded gasoline, with no identification on the third dispenser) on the property directly to the north of Scotsman Company (Figure 2). The City of Dublin planning office does not have any records relating to the tanks or a current address for the owner.

#### 5.2 REGULATORY AGENCY REVIEW

Clayton contacted the following agencies during the course of this assessment:

- Regional Water Quality Control Board (RWQCB), Oakland
- Alameda County Assessor's Office (Public Records), Oakland
- U.S. Geological Survey, Menlo Park
- City of Dublin Planning Office, Dublin

We consulted the following references that have been prepared by public agencies:

- Fuel Leaks List, California RWQCB, San Francisco Bay Region
- Hazardous Waste and Substances Site List, California (June, 1989)
- National Priorities List (NPL), Environmental Protection Agency (EPA) (March, 1989)
- List of Sites, as contained in the January, 1989 Bond Expenditure Plan

Sites with documented environmental problems that operate within a 1/2-mile radius of the subject property are listed below (for more information, see Appendix C):

Shell gas station

Fuel leak (Remediation in progress)

5251 Hopyard Road, Pleasanton

Scotsman Rental 6055 Scarlett Court Fuel leak (Remediation in progress)

Valley Nissan/Volvo 6015 Scarlett Court

Waste oil contamination (case pending)

#### 6.0 CONCLUSIONS

We provide the following conclusions:

- The tank tightness test performed in January, 1988, is not valid and, therefore, these tanks may have been leaking prior to their removal.
- The information about the 3,000-gallon tank is not related to the subject property.
- Tanks have leaked extensively and groundwater may have been impacted as shown in Tables 1, 3, and 4.
- The excavation pit was backfilled sometime after May 10, 1989, with "clean" (TPH-G and BTXE concentrations less than detection limits) aerated soil.
- More excavation may be required by ACDEH. Table 4 shows that there is still
  contaminated soil in the ground, above the limit of 100 mg/kg for TPH-G.
- Based on the estimated groundwater direction (Figure 2), we believe the negative effects to adjacent or nearby properties are not significant.

#### 7.0 <u>RECOMMENDATIONS</u>

Clayton recommends the following actions by Valley Nissan/Dodge:

• Further investigation to determine the extent of the contamination in the soil and groundwater. This may require exploratory drilling and installation of monitoring wells as well as a soil gas survey.

- Preparing a comprehensive remediation plan to be submitted to the RWQCB and ACDEH for approval.
- Removal of the remaining stockpile on the northwest corner of the property (Figure 3).
- · Removal of the floor coverings. Since the amount of floor covering is fairly small, we recommend that it be treated as hazardous material and removed from the property. This appears to be more economically feasible than performing an asbestos survey and sampling prior to removal.
- Clarify the status on notice of violation served to Lew Doty by ACDEH.
- Cleaning of the oil stained areas, in addition to investigating the extent of contamination from these spills.
- Sampling and analyzing of the existing well for TPH-G and BTXE (Figure 2).

#### 8.0 **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.

This report prepared by:

Dariush Dastmalchi

Geologist

This report reviewed by:

Frederick G. Moss, P.E.

Supervisor, Remediation Group

January 8, 1990

**Clayton Environmental Consultants** 

**TABLES** 

TABLE 1

Laboratory Results for Samples Taken on October 28, 1989

Sample ID	Matrix	TPH-G	Benzene	Toluene	Xylenes	Ethylbenzene
#1 - north end, west tank	Soil	1,100 mg/kg*				
#3 - south end, west tank	Soil	1,100 mg/kg				
#4 - north end, east tank	Soil	500 mg/kg				
#6 - south end, east tank	Soil	3,400 mg/kg	380 mg/kg	1,000 mg/kg	200 mg/kg	21 mg/kg
#2	Water	350 mg/L**	11 mg/L	8.3 mg/L	22 mg/L	7.3 mg/L
#5	Water	180 mg/L	27 mg/L	4 mg/L	16 mg/L	7.2 mg/L

TABLE 2

Laboratory Results for Samples Taken on December 19, 1989

Sample ID	Matrix	TPH-G	Xylenes
#13	Soil	16 mg/kg	< 300 mg/kg
#14	Soil	84 mg/kg	< 300 mg/kg
#15	Soil	84 mg/kg	0.67 mg/kg

TABLE 3

Laboratory Results for Samples Taken on February 22, 1989

Sample ID	Matrix	TPH-G	Benzene	Toluene	Xylenes	Ethylbenzene
#18	Water	7.7 ug/L***	0.81 ug/L	0.57 ug/L	0.92 ug/L	< 0.4 ug/L
#19	Water	16 ug/L	0.72 ug/L	0.56 ug/L	0.61 ug/L	< 0.4 ug/L

Milligrams per kilogram
 Milligrams per liter
 Micrograms per liter

TABLE 4

Laboratory Results for Samples Taken on November 7, 1989

Sample ID	Matrix	TPH-G	Benzene	Toluene	Xylenes	Ethylbenzene
<i>#</i> 7	Water	32 mg/L *	5.5 mg/L	3.1 mg/L	7.0 mg/L	0.75 mg/L
#8	Soil	740 mg/kg**	18 mg/kg	36 mg/kg	65 mg/kg	16 mg/kg
#9	Soil	1,500 mg/kg	29 mg/kg	39 mg/kg	94 mg/kg	27 mg/kg
#10	Soil	610 mg/kg	ll mg/kg	16 mg/kg	ll mg/kg	14 mg/kg
#11	Soil	2,200 mg/kg	46 mg/kg	70 mg/kg	210 mg/kg	62 mg/kg

TABLE 5

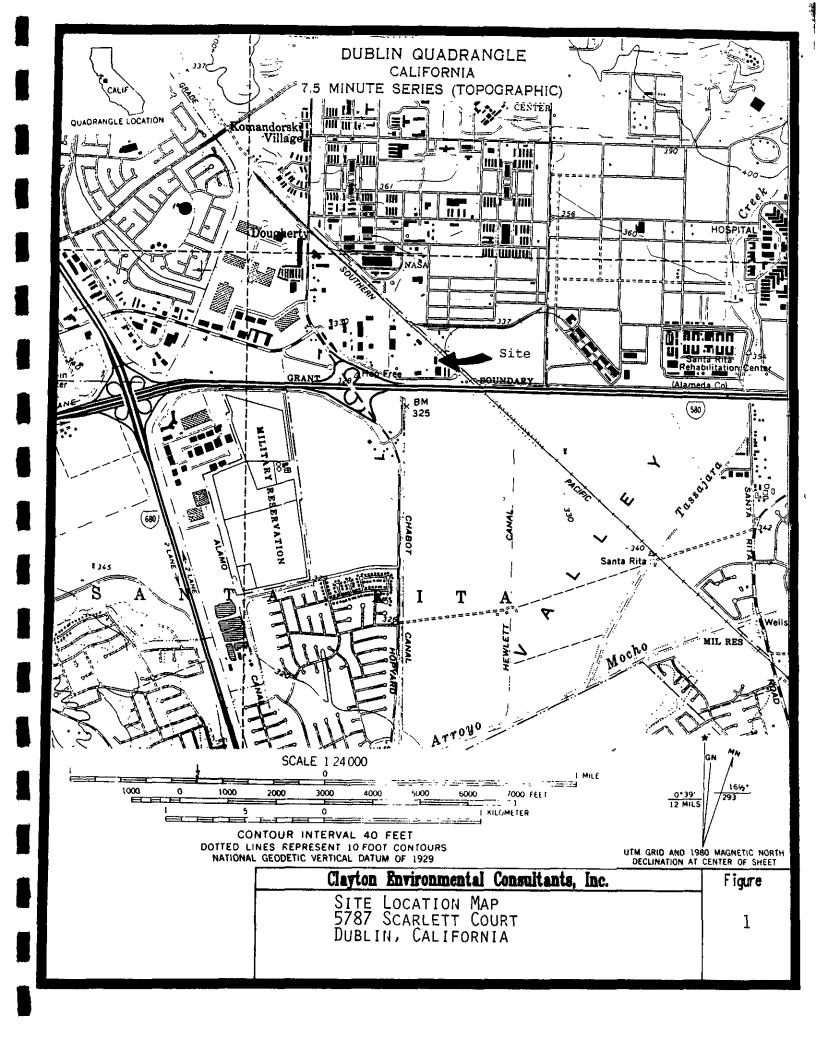
Laboratory Results for Samples Taken on May 10, 1989

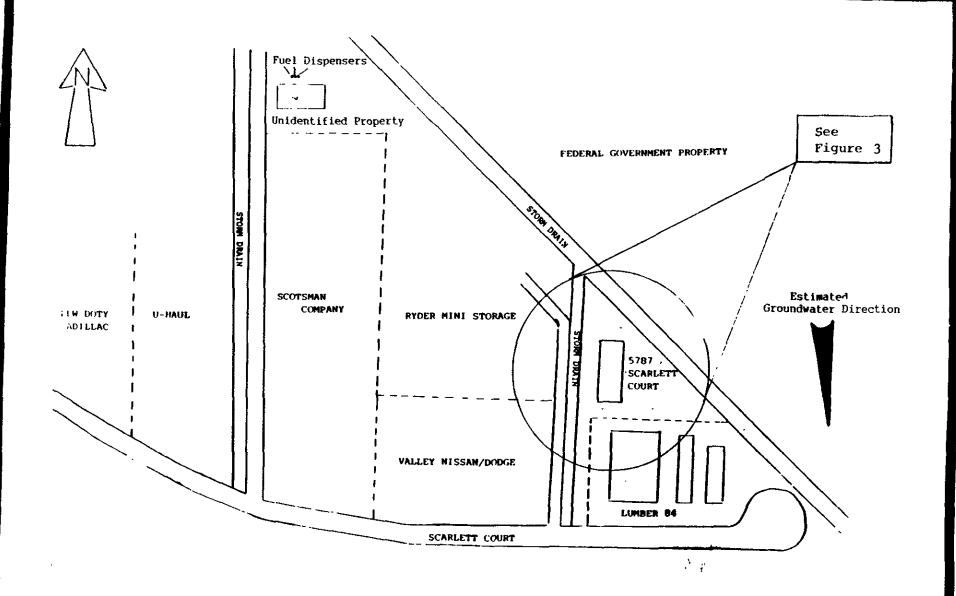
Sample ID	Matrix	ТРН-G	Benzene	Toluene	Xylenes	Ethylbenzene
#20	Soil	59 mg/kg	<0.006 mg/kg	<0.006 mg/kg	<0.03 mg/kg	<0.008 mg/kg
#21	Soil	210 mg/kg	3.6 mg/kg	7.3 mg/kg	30 mg/kg	3.4 mg/kg
#22	Soil	960 mg/kg	16 mg/kg	7.3 mg/kg	100 mg/kg	28 mg/kg
#23	Soil	210 mg/kg	5.2 mg/kg	7.6 mg/kg	45 mg/kg	5.5 mg/kg

\* Milligrams per liter\*\* Milligrams per kilogram

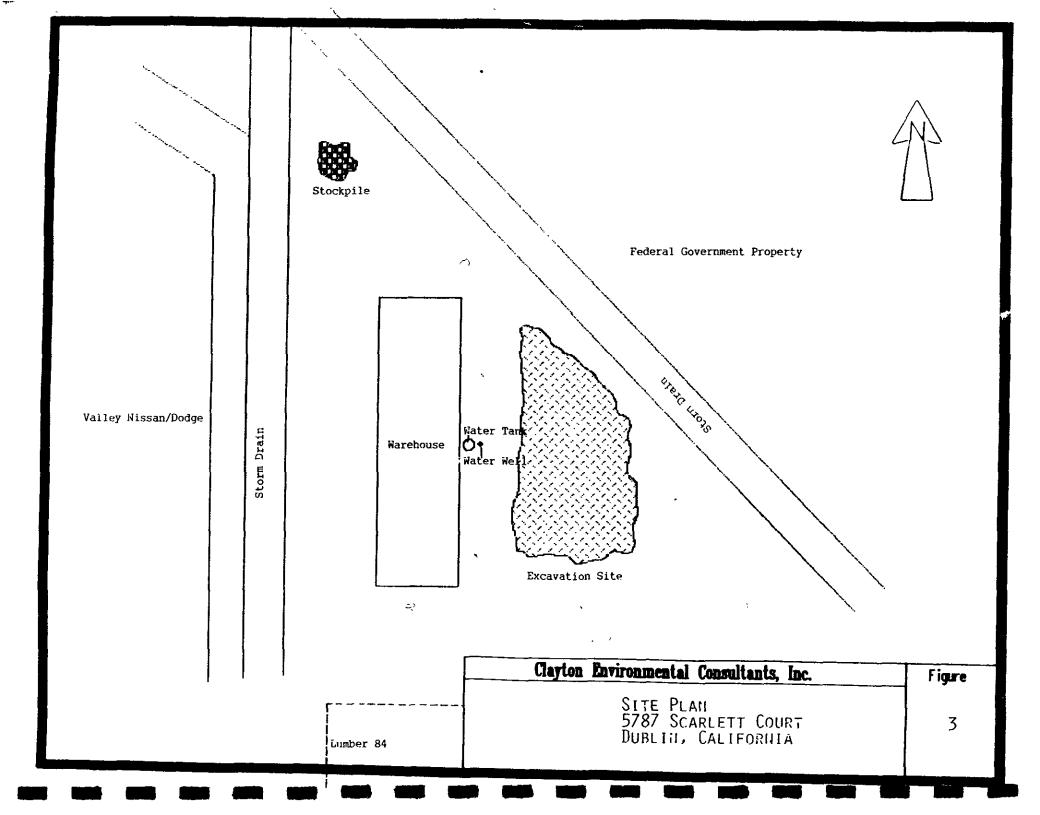
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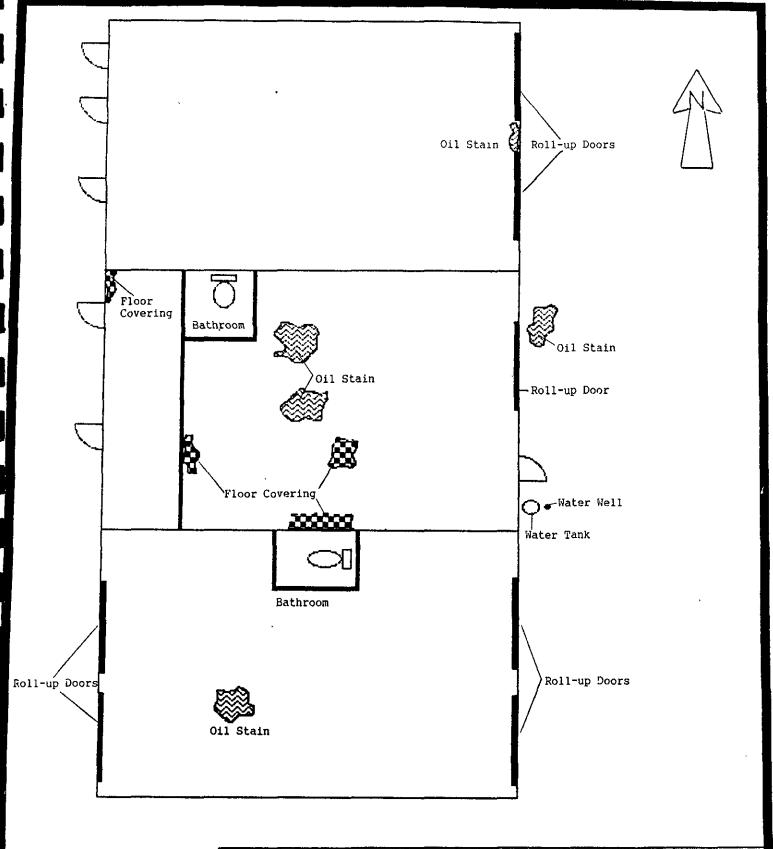
**FIGURES** 





Clayton Environmental Consultants, Inc.	Figure
SITE AND ADJACENT PROPERTY LOCATION MAP 5787 SCARLETT COURT DUBLIN, CALIFORNIA	2





Clayton Environmental Consultants, Inc.	Figure
Warehouse Plan View 5787 Scarlett Court Dublin, California	4

# APPENDIX A DOCUMENTS PROVIDED BY MR. REGALIA

Data Chart for Tank System Tightness Test

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### atlas hydraulic corporation

November 10, 1988

Mr. Lew Doty Lew Doty Cadillac 6301 Scarlett Court Dublin, CA 94568

RE: Underground Fuel Storage Tank 6301 Scarlett Court Dublin, CA

Dear Lew:

Atlas did a precision tank test on the 3000 gallon underground unleaded gasoline storage tank at subject location on November 1, 1988.

Attached are six (6) copies of the test results which state there is no leak in the tank.

Louis A. Richardson, consulting Engineer Geologist, is the consultant on the project. His qualifications have been sent to interested parties, including the bank and the attorneys, to my knowledge.

Breifly, Mr. Richardson is going to do a site assessment at the tank location, which will consist of drilling three holes around the area of the tank at locations designated by him. Soil samples will be taken in each hole. One of the holes, designated by Mr. Richardson will be used as a monitor well and the other two holes will be filled with concrete slurry or bentonite.

Presently, Mr. Richardson is in the process of getting permits to drill the test holes and it is our best estimate the drilling will start the latter part of the week of November 14, or early in the week of November 21. The exact date will depend on when the permits are issued.

The soil samples will be on a 24 hour turnaround to expedite the completion of the project.

Atlas will follow closely the progress of the job.

Sincerely,

T. Givens

28971 Hopkins Street • P.O. Box 56567 • Hayward, California 94545 • 415-786-3393



### PROGRESS REPORT

6301 SCARLETT COURT, DUBLIN, CA

The precision test performed on the 3000 gallon gasoline tank at 6301 Scarlett Court revealed that there was no underground leak.

Louis Richardson has engaged a driller to drill three borings the week of November 28, 1988. The borings will be tested every 5 feet and one of the borings will be used as a permanent monitor well.

This will be considered a site assessment of that property.

J. P. Givens



#### PROGRESS REPORT

REMOVAL OF 2 - 12,000 GALLON UNDERGROUND STORAGE TANKS
5787 SCARLETT COURT, DUBLIN, CA

Atlas removed the 2 - 12,000 gallon steel tanks on October 28, 1988 and loaded them on a truck/trucks operated by H & H Ship Service, 220 China Basin, San Francisco, CA. for transport and disposal at its TSD Facility, at the same address. The tanks were rendered inert by placing 30# of dry ice in the tanks per 1000 gallons of capacity. Tom Peacock of the Alameda County Health Services Agency and Louis Richardson Consulting Engineering Geologist for the project witnessed the removal of the tanks.

A total of 4 soil samples were taken. One each sample was taken from the dirt underneath each end of the tank. Two water samples were taken. The water samples were taken from the separate holes created by removal of the tank as dirt remained between the two tanks after the tanks were removed.

The results of the soils samples and the water samples are attached in five copies for distribution to others whom may have some need for the soil samples. Soils samples numbers 1, 3, 4, and 6 and water samples 2 and 5 were taken by Trace Analysis Laboratory on October 28, 1988.

On November 3, 1988, H & H Ship Service vacuumed approximately 5000 gallons of contaminated water out of the excavation. The water was transported to H & H's TSD site.

Also, on November 3, 1988, and November 4, 1988, Atlas removed an additional 40 yards of contaminated material from the bottom of the excavation, used approximately 50 tons of sand for berms

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around the contaminated soil and spread out and aerated approximately 200 yards of contaminated soil.

On November 7, 1988, we again aerated the soil. Also, H & H vacuumed approximately 5000 gallons of contaminated water from the excavation. Trace Analysis Laboratory took 4 soil samples and 1 water sample. The soil samples were taken from about 3 feet inside the walls of the excavation to determine if the gasoline had migrated and c staminated more area. The results of the soil samples numbers 8, 9, 10 and 11 and water sample number 7 are attached in five copies, again for you to distribute this information to whomever is interested. Please note that contamination in high levels existed in the samples taken about 3 feet inside the four walls. This proved that the gasoline had migrated beyond the walls of the excavation.

On November 11, 1988, and November 14, 1988 we again aerated the contaminated dirt.

As the tests taken on November 7, 1988, proved that a relatively high degree of contamination still existed and the removal of approximately 3 feet additional excavation to the bottom of the hole would result in about 300 cubic yards of dirt to be stored and aerated. Futhermore, we have no way of knowing how much further the gasoline had migrated into the soil and additional excavation, stockpiling and aeration is not the answer because of lack of space at the site. It is our experience that the regulatory agencies realize that you cannot keep digging forever and it is on that basis that we advised them what we wanted to do to complete the first phase of the clean-up project.

We are going to continue aeration of the approximated 200 yards of contaminated dirt stockpiled at the site and use a meter to detect the parts per million (PPM) in the soil and repeat the process until such time as we believe that the contamination is less than 100 PPM. At that point, we will use the aerated material to backfill the excavation, purchase clean peagravel and Class II aggregate to complete the filling of the hole and resurface the excavated

area.

It is expected that at some later date one of the regulatory agencies, probably Alameda County Health Care Services Agency, will require that test wells be drilled, sampled and that one or more of those test wells would be used as a permanent monitoring well. We do not know if the wells would be drilled a month from now or whenever. The various regulatory agencies have so many big cleanup projects underway they have had to establish a priority system with regard to individual projects.

### J. P. Givens

### atlas hydraulic corporation

November 18, 1988

Mr. Lew Doty Lew Doty Cadilliac 6301 Scarlett Ct. Dublin, CA 94566

RE: Tank Removal Project 5787 Scarlett Ct. Dublin, CA

Dear Lew:

Attached is a progress report and plan for future activity on the removal of the 2-12,000 gallon storage tanks at 5787 Scarlett Court. Also, attahced is a brief report on the site assessment activity at 6301 Scarlett Court.

Sincerely,

ATLAS HYDRAULIC CORPORATION

J. P. Givens

Encl.

JPG:aa



202 Juson Way Mount ain View, California 94043

(415) 967-1000

Registered Geologist 🕠 Contition Engineering Geologist 🕠 California and Onegon

January 9, 1989

Mr. Tom Peacock
Alameda County Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Suite 200
Oakland, California 94621

Re: Backfilling of Tank Removal Excavation 5787 Scarlett Ct. (Lew Doty Property) Dublin, CA

Dear Mr. Peacock:

Pursuant to our telephone conversation today, enclosed please find the most recent laboratory test results of soils that have been stockpiled and aerated at the above-referenced site. Two 12,000 gallon underground gasoline tanks were removed on October 28, 1988 by Atlas Hydraulic Corporation.

At that time it was observed that soils and shallow groundwaters adjacent to, and beneath the tanks were contaminated with petroleum product. A total of approximately 10,000 gallons of contaminated water was vacuumed from the bottom of the excavation on November 3 and 7, 1988 and transported to an approved disposal site. About 200 cubic yards of contaminated soils generated from the tank excavation were spread out and aerated on paved parking areas of the subject property.

Periodic sampling by Trace Analysis Laboratory indicates that the Total Petroleum Hydrocarbon content, calculated as gasoline, of the stockpiled soil has decreased by aeration to less than 100 parts per million (ppm) from originally measured concentrations of up to 1,100 ppm. It would be appreciated if you could advise us if the aerated soil will now be acceptable for use as backfill in the excavation.

It is understood that further work will eventually be necessary to define the extent of contamination and determine appropriate remedial actions.

Mr. Tom Peacock Alameda County Hazardous Materials Division January 9, 1989 Page 2

Thank you for your cooperation in this matter. Please contact me as to the results of your determination. If you have any questions, please feel free to call.

Very truly .yours,

Louis A. Richardson Certified Engineering Geologist No. EG 1085

LAR:ka Enclosures

cc: Mr. Bill Bender, Atlas Hydraulic Corp.



Department of Environmental Health Hazardous Materials Division 80 Swan Way, Room 200 Oakland, CA 94621

CARK XXX X.ESTXER, Agency Director

Certified mailer #: P 833 981 187

MANUCAN KOKAN IZ KIKA REX KAMMAN XKAMMA

271-4320

March 3, 1989

Mr. Lew Doty Lew Doty Cadillac 6301 Scarlett Ct. Dublin, CA 94568

Re: Unauthorized release from underground storage tanks, 5787 Scarlett Ct., Dublin

Dear Mr. Doty:

The purpose of this letter is to summarize what our office knows regarding contamination at the site referenced above and to outline requirements for site mitigation. Our office was notified of a soil contamination problem on September 28, 1988. Two 12,000-gallon underground tanks containing gasoline were removed on October 28, at which time floating product was observed in the excavation pit. On two subsequent occasions, water was pumped from the pit and taken to an approved disposal site. Currently, water is standing in the hole, which remains open, and excavation soil remains stockpiled next to the hole.

An unauthorized release report should have been received within 5 days of discovery of the leak, and therefore should be submitted to this office immediately; all sample analytical reports and chain of custody forms should also be sent to this office. In addition, you must initiate further investigation and/or cleanup activities at this site, as described below.

First, an assessment should be conducted to determine the extent of soil and groundwater contamination that has resulted from the leaking tank(s). The assessment should be designed to provide all of the information in the format shown at the end of this letter. This format is based on the Regional Water Quality Control Board (RWQCB's) guidelines. You should be prepared to install one monitoring well, if you can verify the direction of groundwater flow in the immediate vicinity of the site, and three wells or piezometers, if you cannot.

Until cleanup is complete, you will need to submit reports to this office and to the RWQCB every three months (or at a more frequent interval, if specified at any time by either agency). These reports should include information pertaining to further investigative

Mr. Lew Doty March 3, 1989 Page 2 of 6

results; the methods and costs of cleanup actions implemented to date; and the method and location of disposal of any contaminated material.

Your work plan should be submitted to this office within 20 days of the date of this letter. A report describing the results of the site assessment should be submitted within 60 days of the date of this letter. Copies of the proposal and report should also be sent to the RWQCB (attention: Lisa McCann). You may implement remedial actions before approval of the work plan, but final concurrence by this office will depend on the extent to which the work done meets the requirements described in this letter.

Your consultant, Lou Richardson, indicated over the phone that levels of gasoline in stockpiled soils have decreased from about 1,100 ppm to below 100 ppm as a result of aeration. He also said that groundwater in the pit has contaminant levels of about 88 ppb. We can permit the replacement of stockpiled soil in the pit, since lab results show that TPH levels have indeed decreased below 100 ppm; however, unless you can show that unexcavated soil in the pit is clean (<100 ppm), further excavation may be required. With regard to disposal of groundwater standing in the pit, we cannot permit it to be pumped into the storm drain.

You will need to submit an additional deposit of \$600 to cover costs that the Division of Hazardous Materials incurs during remediation oversight. Should you have any questions about this letter or about remediation requirements established by the RWQCB, please contact Gil Wistar, Hazardous Materials Specialist, at 271-4320.

Sincerely,

Rafat A. Shahid

Chief, Hazardous Materials Division

RAS:GW:gw

cc: Lou Richardson, Consulting Engineering Geologist
Howard Hatayama, DOHS
Lisa McCann, San Francisco Bay RWQCB
Gil Jensen, District Attorney, Alameda County Consumer
and Environmental Protection Agency

### LOUIS A. RICHARDSON Consulting Engineering Geologist

202 Jason Way Mountain View, California 94043

(415) 967-1000

Registered Geologist • Centified Engineering Geologist • California and Oregon

March 8, 1989

Mr. Tom DeHollander, Industrial Waste Inspector Dublin San Ramon Services District 7051 Dublin Boulevard Dublin, California 94568

Re: Wastewater Discharge Permit Application 5787 Scarlett Ct. (Lew Doty Property) Dublin, CA

Dear Mr. DeHollander:

Pursuant to our recent telephone conversation, enclosed please find the completed application to discharge groundwater at the above-referenced site. Two 12,000 gallon underground gasoline tanks were removed from the site on October 28, 1988 and it is now necessary to backfill the excavation which has partially filled with groundwater.

To achieve proper compaction in the backfill, it will be necessary to remove most of the water now present in the excavation, estimated to not exceed 10,000 gallons. It is presently proposed to pump the water to the sanitary sewer serving the vacant building at the site (see enclosed sketch). Attached to the permit application are laboratory test results for hydrocarbons from the most recent water samples from the excavation.

As we discussed, this will be a one-time only discharge into the system. Since the open excavation poses somewhat of a hazard from a liability standpoint, we would like to backfill it as soon as possible. Any efforts you could make in expediting the permit approval process would be greatly appreciated.

Thank you for your cooperation in this matter. If you have any questions, please feel free to call.

Very truly yours,

Louis A. Richardson

Certified Engineering Geologist

No. EG 1085

Enclosures

cc: Mr. Jim Givens, Atlas Hydraulic Corp.

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### **DUBLIN SAN RAMON SERVICES DISTRICT**

General Offices: 7051 Dublin Blvd. • Dublin, California 94568 • (415) 828-0515 • Fax: 829-1180

941-6850

March 23, 1989

Mr. Louis A. Richardson Consulting Engineering Geologist 202 Jason Way Mountain View, CA 94043

Re: Wastewater Discharge Permit for Lew Doty's Scarlett Ct. property in Dublin

Dear Mr. Richardson:

Enclosed you will find two copies of Wastewater Discharge Permit #5541-003. Please review these permits with Mr. Doty. If everything is in order, have him sign both copies of the permit. Keep one copy in your files. Return one signed copy of the permit to Dublin San Ramon Services District before start-up of pumping operation. Be aware that the permit was drafted using a pumping rate of 10 gallons per minute and a volume of 10,000 gallons. Changes in pumping rate or volume pumped will affect the Demand and Loading portions of the billing.

If you have any questions regarding the permit, billing, or other conditions or limitations of this permit, please contact the Industrial Waste Inspector, Tom DeHollander, at 846-4565.

Yours very truly,

Robert Whitley

District Engineer

cc: Bob Swanson, Wastewater Operations Manager Tom DeHollander, Industrial Waste Inspector



# DUBLIN SAN RAMON SERVICES DISTRICT PRETREATMENT PROGRAM WASTEWATER DISCHARGE PERMIT

# 5541-003

IN ACCORDANCE WITH ALL TERMS AND	CONDITIONS OF THE:
X D.S.R.S.D.CODE (CHAPTER 7 A	RTICLE 3)
CITY OF PLEASANTON CODE (CHA	APTER 8 ARTICLES 5 & 7)
AND ALSO WITH ANY APPLICABLE PROVI	ISION OF FEDERAL OR STATE
LAWS OR REGULATIONS;	
PERMISSION IS HEREBY GRANTED TO:	
Lew Doty Cadillac property	
Name of Co	•
6301 Scarlett Court, Dublin, Mailing Ad	California 94568
CLASSIFIED BY S.I.C. NO. 5541	
FOR THE CONTRIBUTION OF ground	waterINTO
THE D.S.R.S.D. S	EWER LINES AT:
5787 Scarlett Court, Dubl	in, California
Address of Disc	harger
	EFFECTIVE: 15 March, 1989
	EXPIRES ON: 30 April, 1989
•	Lew Doty
~ )	PRINT NAME OF PERMITTEE
Kolut Dartel	Twoth
DISTRICT ENGINEER	SIGNATURE OF PERMITTEE



March 31, 1989

Lew Doty Cadillac 6301 Scarlett Court Dublin, CA 94566

RE: 5787 Scarlett Court, Dublin, CA

Atlas Job #1091

### Gentlemen:

This will confirm the salient points of our 3/30/89 meeting where the following decisions were made and agreed by Mr. Doty, Lew Richardson and Bill Bender.

- 1. The excavation will be dewatered by Atlas discharging the liquid into the sanitary sewer system. This work will be done in accordance with the waste water discharge permit issued by the Dublin-San Ramon Service District. The pumping rate will be 10 gallons per minute and will be observed by one of Atlas' field people.
- 2. Since the stock piled material is below 100 ppm, the excavation will be backfilled up to the ground water level which is approx. at -5 feet. The material will be placed and compacted to 90% relative density.
- 3. Atlas will continue with the excavation laterally but only to a depth to the ground water level at approx. -5 feet. This excavation will be observed by Lew Richardson. The contamination levels will be measured by Lew Richardson with Atlas' PID.
- 4. When limits of approx. 100 ppm have been reached, or when excavation must stop because of proximity of property lines and/or buildings, Trace Analysis will do the final sampling and testing of the sidewall material of the excavation.
- 5. Lew Richardson will prepare a work plan and will submit it to the regulators. He will also install the monitoring well

Lew Doty Cadillac March 31, 1989 Page 2

and will remain the Certified Engineering Geologist of Record for any future remediation work that may be required.

Yours very truly,

ATLAS HYDRAULIC CORPORATION

William H. Bender, C.E., S.E.

WHB:be

cc: Lew Richardson

### DUBLIN SAN RAMON SERVICES DISTRICT

7051 Dublin Boulevard

Dublin, California 94568

TO:MR. LOUIS A. RICHARDSON
CONSULTING ENGINEERING GEOLOGIST
202 JASON WAY
MOUNTAIN VIEW, CA 94043

INVOICE DATE May 17,1989

PERIOD COVERED: March 1 to April 30, 1989

INVOICE #IWO51789-LDC

### BILLING RECAP

DEMAND CHARGE....\$ 253.01

LOADING CHARGE....\$ 3.04

FRETREATMENT CHARGE...\$ 11.94

TOTAL....\$ 267.99

Questions regarding demand charges, loading charges, sampling charges and permits, should be directed to the Industrial Waste Department at 846-4565.

Questions regarding remittance, payments, or penalties should be directed to the Finance Department at 828-0515.

### \*\*\* PLEASE NOTE \*\*\*

A 10% penalty will be assessed if bill is not paid within 30 days of invoice date. An additional 1/2% penalty per month will be assessed if not paid within 60 days after invoice date.

# DUBLIN SAN RAMON SERVICES DISTRICT INDUSTRIAL SEWER SERVICE BILLING SUPPLEMENT

DISCHARGER: LEW DOTY CADILLAC PROPERTY

PERIOD COVERED: March 1 to April 30, 1989

### REGIONAL USER CHARGE

Demand Parameters	Units		Unit Cost		Charge
Flow (M.G.D.)	0.005	X	24285.62	=	\$ 121.43
BOD (lb/day)	0.2085	X	4.20	==	\$ 0.88
S.S. (1b/day)	0.2085	X	2,68	=	\$ 0.56
Connections	1	X	1.10	=	\$ 1.10
Loading Parameters					
Flow (M.G.)	0.01	X	102.09	==	\$ 1.02
BOD (1000 1b)	0.0004	X	38.78	=	\$ 0.02
S.S. (1000 1b)	0.0004	X	20.79	=	\$ 0.01
	TOTAL REGIO	NAL U	SER CHARGE	=	\$ 125.01

### LOCAL USER CHARGE

Demand Farameters	Unit	5	Unit Cost			Charge
Flow (M.G.D.) Connections Loading Parameters	0.005	X X	25537.27 1.36	=	\$ \$	127.69 1.36
Flow (M.G.)	0.01	x	199.55	=	\$	2.00
	TOTAL	LOCAL	USER CHARGE	=	•	131.04

### TOTAL CHARGES FOR PERIOD

REGIONAL USER CHARGE	\$	125.01
LOCAL USER CHARGE	\$	131.04
PRETREATMENT CHARGE	\$	11.94
	-	
		247.99

## ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Certified mailer #:P 833 981 433

DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Program 80 Swan Way, Rm. 200 Oakland, CA 94621 (415)

May 26, 1989

Mr. Lew Doty Lew Doty Cadillac 6301 Scarlett Ct. Dublin, CA 94568

### NOTICE OF VIOLATION

Dear Mr. Doty:

In a letter dated March 3, 1989, the Alameda County Department of Environmental Health, Hazardous Materials Division, requested that you perform certain actions to characterize and clean up the contamination resulting from a leaking underground storage tank at 5787 Scarlett Ct. in Dublin. In that letter, we requested that you submit a work plan to this office by March 23, 1989, and a report on the extent of contamination by May 2. So far, we have received nothing to this effect from you or your consultant. Therefore, we are making a second request for a work plan, as well as a deposit of \$600, to be sent to this office by June 16, 1989. The work plan should follow the guidelines included with the March 3 letter from this office.

According to Sec. 25298 of the California Health and Safety Code, underground storage tank closure is incomplete until the responsible party characterizes and remediates the contamination resulting from product discharge. Therefore, Lew Doty Cadillac is in violation of this section of the Code, for which Sec. 25299 specifies civil penalties of up to \$5,000, for each day of violation. In addition, failure to furnish technical reports regarding documented groundwater contamination violates Section 13268 of the California Water Code, for which the Regional Water Quality Control Board can impose Civil liabilities of up to \$1,000 for each day in which the violation occurs.

For any work at the site to date that has resulted in the disposal of hazardous liquid or waste, manifests should be sent to this office. All sample analytical reports and chain of custody forms should also be sent to this office.

THE 13:46 ATLAS HYDRAULIC CORP

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MAY-30-189 12:45 ID:LEW DOTY CADILLAC-DU TEL NO:GMAC610642

#450 P03

Mr. Lew Doty May 26, 1989 Page 2 of 2

Should you have any questions about this letter or about remediation requirements established by the RWQCB, please contact Gil Wistar, Hazardous Materials Specialist, at 271-4320.

Sincerely,

Rafat A. Shahid, Chief

Hazardous Materials Division

RAS: GW: gw

CC: Lou Richardson, Consulting Engineering Geologist
Doug Krause, DOHS
Dyan Whyte, San Francisco Bay RWQCB
Gil Jensen, District Attorney, Alameda County Consumer
and Environmental Protection Agency



### LOUIS A. RICHARDSON Consulting Engineering Geologist

202 Jason Way Mountain View, California 94043

(415) 967-1000

Registered Geologist • Centified Engineering Geologist • California and Oregon

June 12, 1989

Proj. No. 336.48

Lew Doty Cadillac 6301 Scarlett Court Dublin, California 94568

Attention: Mr. Lew Doty

Re: Progress Report and Work Plan for Site of Unauthorized Release from

Underground Fuel Tanks at

5787 Scarlett Court Dublin, California

Gentlemen:

#### INTRODUCTION

Pursuant to your request, this report presents a summary of work performed to date at the above-referenced site of two underground fuel tanks on property owned by your firm. Included is a description of the site and hydrogeologic setting, an outline of the known site history and a proposed plan for characterizing the extent of soil and groundwater contamination. Also included are results of laboratory tests performed to date on soil and water at the site, and various correspondence, permit and related material regarding work that has been performed at the site. This report is intended to provide information requested of you by the Alameda County Health Care Services Agency, Hazardoùs Materials Division.

#### SITE CONDITIONS

### Site Description

As shown on the Site Location Map, Drawing No. 1 in the Appendix to this report, the subject site is located about 1800 feet east of the intersection of Interstate Highway 580 and Dougherty Road on the east edge of the City of Dublin, California. The property is a "flag" lot at 1587 Scarlett Court, north of the 84 Lumber Co. building, with access from Scarlett Court by a driveway on the west side of the lumber company.

The only structure on the site is a one-story, metal warehouse building that is located at the end of the driveway, near the center of the property. The site of the subject fuel tanks is in a paved area west of the metal building and the location of the adjacent dispenser island is near the eastern property line. The described site features are shown on the Site Plan, Drawing No. 2.

The flat-lying, triangular-shaped parcel is bounded on the east side by an unlined drainage ditch adjacent to an old Southern Pacific Railroad grade, which separates the site from vacant land at the inactive Camp Parks military facility. The west side of the property is bounded by a concrete box channel that carries surface runoff from surrounding areas. The 84 Lumber Company property is on the south side of the parcel. With the exception of narrow planter areas for landscaping, the property is entirely paved with asphalt.

A water well exists immediately adjacent to the east side of the existing building. The well is labeled 3S/1E-6G5 and is listed with the Alameda County Flood Control and Water Management District. Communications with that district indicate that the well was installed on June 30, 1969 and has a total depth of 200 feet. Perforations are at 103 to 106 feet and 173 to 178 feet. Depth and type of seal is not known. The last recorded depth to water was 17.8 feet, on March 28, 1988. The declared use at the time of installation was landscape irrigation.

### Topographic Setting

The site is situated on a broad, flat alluvial plain in the east portion of the San Ramon Valley. Regionally, the ground surface slopes gently to the southwest, toward the central portion of the valley from the flanking hills about one mile northeast.

### Geologic Conditions

The site location is at the southern end of the San Ramon Valley near its confluence with the Livermore Valley, a broad, east-west trending structural basin. These intermontane valleys within the Diablo Range are filled with considerable thicknesses of alluvial deposits of recent age. The sediments generally consist of gravel, sand, silt and clay that were laid down in lakes, swamps and streams emerging from the surrounding highlands. Basement rock formations that are exposed on the flanking hills and mountains are mantled in the central portion of the valley by a several hundred feet of the alluvial materials.

Soil Survey Maps by the U.S. Department of Agriculture indicate that surficial soil in the site area is known as Clear Lake Clay, which has slow permeability and high available water holding capacity.

336.48 Page 2

### Hydrogeologic Conditions

The Dublin area is within the San Ramon subbasin of the Livermore Valley groundwater basin, which has two principal water-bearing formations. Some water pumped from wells in the basin is derived from the Livermore gravel formation, but most comes from a more permeable, overlying alluvial formation. The San Ramon groundwater subbasin, where the site is located, is completely overlain by a thick, relatively impermeable clay barrier, or aquiclude, restricting vertical movement of surface water and shallow groundwater into the underlying, water-bearing aquifers.

Shallow groundwater in the area is sometimes tapped by domestic wells, but is not generally utilized for municipal purposes. The shallow groundwater in the site vicinity is estimated to flow to the southwest, following local topographic trends. Groundwater flow in the underlying alluvial formation is also to the southwest.

#### BACKGROUND

### Site History

Based on information that has been provided regarding the site history, the subject property was acquired by Lew Doty Cadillac about three years ago. The previous tenant on the land was the Demar Plastering Company. The two 12,000 gallon, steel underground gasoline tanks were utilized by that company for fueling vehicles, but the tanks and the property have not been used since transfer of ownership to Lew Doty Cadillac.

### Release Discovery

A subsurface investigation was performed at the site in June, 1988 by Certified Engineering and Testing Co., who were retained by the Law Firm of Broad, Schultz, Larson and Wineberg for the purposes of a site assessment. That investigation detected the presence of petroleum hydrocarbons and purgeable aromatic compounds in the soil and groundwater in the immediate vicinity of the gasoline tanks. The physical extent of the contamination was not determined at that time.

### Immediate Source Removal (Tanks and Soils)

The two underground storage tanks were removed from the site on October 28, 1988 by Atlas Hydraulic Corporation. At that time it was observed that the tanks had been holed by corrosion and that soils and shallow groundwaters adjacent to, and beneath the tanks were contaminated with petroleum product. The total quantity of lost product is not known. A total of approximately 10,000 gallons of contaminated water was vacuumed from the bottom of the excavation on November 3 and 7, 1988 and transported to an approved disposal site. About 200 cubic yards of contaminated soils generated from the tank excavation were

spread out and aerated on paved parking areas of the subject property. That work is summarized in a letter from Atlas Hydraulic Corporation to Mr. Lew Doty, dated November 18, 1989, a copy of which is included in the appendix to this report.

Sampling by Trace Analysis Laboratory, Inc., indicated that, by mid-December 1989, the total petroleum hydrocarbon content, calculated as gasoline, of the stockpiled soil was decreased by aeration to less than 100 parts per million (ppm) from originally measured concentrations of up to 1,100 ppm. Permission was requested, by letter to the County Department of Environmental Health on January 9, 1989, to use the aerated soil as backfill in the excavation. Authorization was received from the Alameda County Hazardous Materials officer, in a letter dated March 3, 1989, to use the aerated soil for that purpose. As requested by the County at that time, an unauthorized release form was obtained and submitted on March 16, 1989.

Groundwater had infiltrated the initial excavation, after vacuum removal of the original contaminated water, to a standing level of about 7.5 feet. It was necessary to again dewater the excavation, which was up to 14 feet deep, prior to backfilling. Chemical analyses performed on that groundwater indicated only trace amounts of contamination and it was discharged into the sanitary sewer after a permit was received from the Dublin-San Ramon Sanitary Services District. Backfilling of the original excavation was completed on about April 10, 1989.

During the period of April 15 through April 20, 1989, Atlas Hydraulic Corporation enlarged the perimeter of the excavation by excavating an additional 300 cubic yards of contaminated soils to the depth of groundwater. Because of space constraints on site for aerating soil, the contractor indicates that this is the maximum amount that can be excavated at one time. Those soils were spread on the paved areas of the site for treatment by aeration and were sampled by Trace Analysis Laboratory on May 31, 1989 to determine if hydrocarbon levels are now below 100 ppm. We are presently awaiting the test results of those samples. If the levels are acceptable County Agency, the soils will be used as backfill in the excavation, as before.

Tests of the present excavation sidewalls show existing contamination levels to be about 960 ppm on the eastern side, which is constrained from further excavation by a high pressure water line in an easement along the east property line. Contamination levels elsewhere on the excavation sidewalls are between 59 and 210 ppm, indicating that some further excavation may be necessary if it is required to remove all assessable soils containing above 100 ppm total hydrocarbons.

336.48 Page 4

### WORK PLAN

### Immediate Source Removal

To date, the objective of work performed at this site has been to remove the immediate source of contamination (i.e. tanks and lines) and any accessible, contaminated soils that may have a potential for leaching the petroleum product into ground or surface water. As the soils have been excavated, they have been spread on site and aerated to very low levels of contamination (<100 ppm as specified by Alameda County), then replaced in the excavation. Due to space constraints on the site for aeration, this work has been done in phases.

Sampling of the walls of the latest extent of the excavated pit indicates that contamination levels are falling as the excavated area expands, but some areas are still above 100 ppm. The present aerated stockpile has been sampled, but test results are not yet available. When the stockpile is determined to have aerated to acceptable levels (<100 ppm), probably within the next two weeks and with authorization with the County, it will be replaced in the pit. Where feasible, it is planned to continue to remove the unexcavated soils until clean. It should be noted that the east side of the pit can not be extended further, due to a high pressure water line and the limits of the property.

### Preliminary Site Assessment

When further excavation is no longer necessary or feasible, it is proposed to perform a preliminary site assessment to determine whether or not groundwater has been impacted, beginning with testing of the existing well and the installation of one monitoring well in the probable downgradient direction. The shallow groundwater gradient in the area, based on topography and observations of groundwater in the excavated pit, is estimated to be in a southwesterly direction, as shown on Drawing No. 2.

A total of three monitoring wells are usually required to verify the hydraulic gradient. If this is necessary, a decision will be made, based on the amount of contamination indicated by the first well, whether to perform a soil gas survey by the PETREX method before installing further wells. Such a survey will facilitate plume definition for locating wells efficiently.

### Sampling

Sampling of the walls of the excavation and stockpiles, and testing for petroleum hydrocarbons, has been performed by Trace Analysis Laboratory, a State of California Certified Laboratory. The samples were collected in thin-walled, brass cylinders, the ends sealed with aluminum foil and capped with

336.48

polyethylene lids, then taped, labeled and refrigerated for delivery to the laboratory. Chain of custody forms were used throughout. This procedure will continue to be followed during any necessary soil sampling.

#### CLOSURE

A copy of this report should be submitted to the Alameda County Health Care Services Agency, Hazardous Materials Division. After the excavation of contaminated soil is completed, a detailed proposal outlining proposed monitoring well locations and construction methods, soil gas survey procedures, sampling methods and procedures, and subcontractors can be prepared for submission to the County.

Thank you for the opportunity to be of assistance in this matter. Please feel free to call when you require further services on the project, or if you have any questions. ERED GEO,

LOUIS A. RICHARDSON No. EG 1085

CERTIFIED ENGINEERING GEOLOGIST

TE OF CALLS

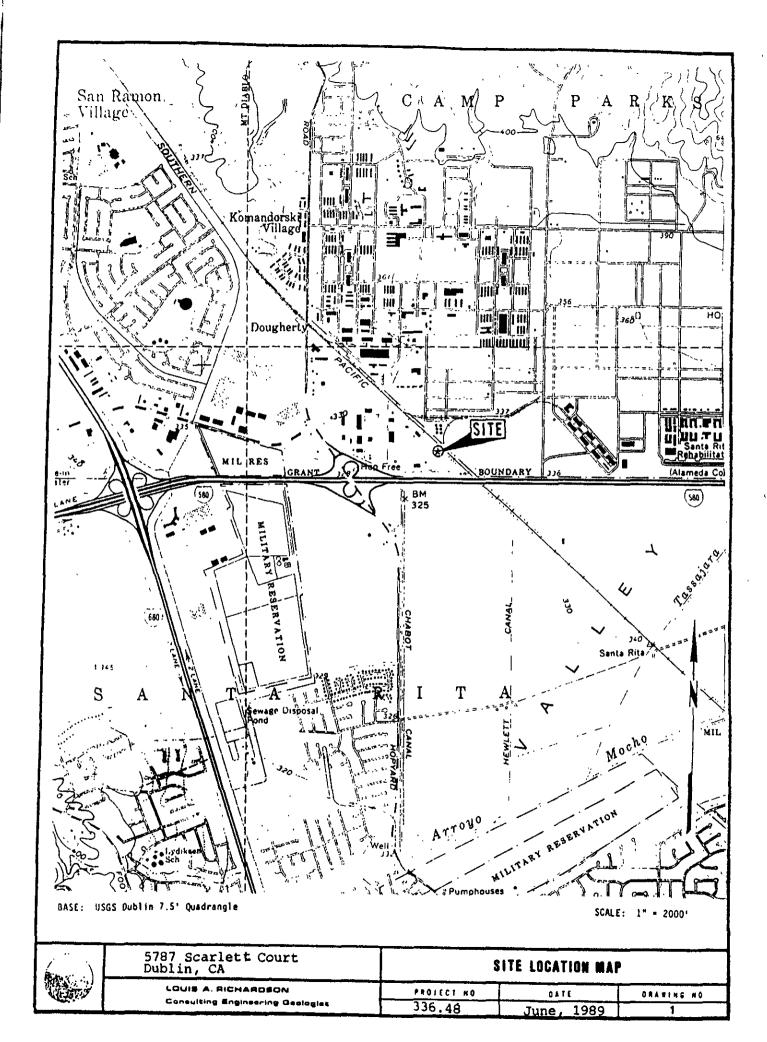
Louis A. Richardson

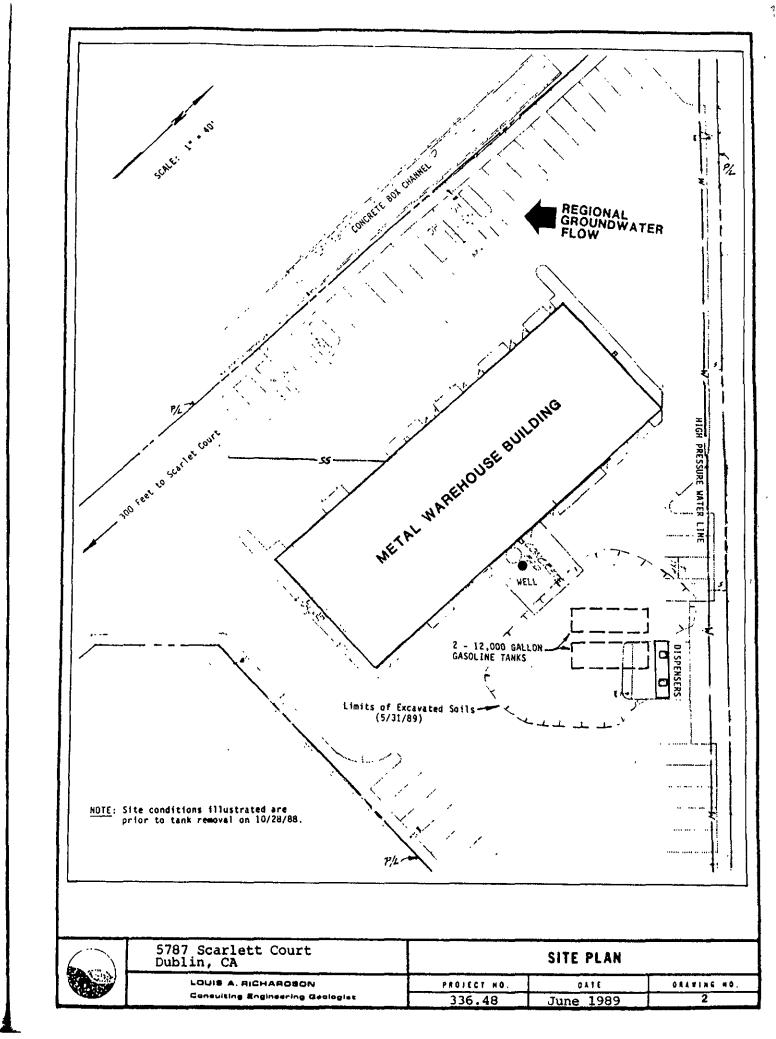
Certified Engineering Geologist

No. EG 1085

LAR:ka

Appendix





### atlas hydraulic corporation

November 27, 1989

Mr. Lew Doty Lew Doty Cadillac 6301 Scarlett Court Dublin, CA 94566

FAX #829-5714

RE: 5787 Scarlett Court

Dear Lew:

Subject to your approval Lou Richardson and I recommend the following plan to bring to a conclusion the cleanup at subject location. We must have more information as to whether the groundwater is contaminated.

- 1. Lou is getting prices to install a soils-gas survey system which will define the extent and concentration of contamination and give us information as to where to best locate the monitor wells.
- 2. Depending on the results of the soils-gas survey, we will have to dig one to three monitor wells. It will be at least a month before approval to dig the wells is received.
- 3. Richardson believes the gradient is low and the ground water is shallow and that little migration has occurred. The water which came into the tank hole was clean after we pumped out the contaminated water.
- 4. The samples taken from the drilling for the monitor well/s and the soils-gas survey will give everyone the information needed to determine the future course of action.

Soils-gas surveys are used extensively in sales or transfer of property.

Sincerely,

ATLAS HYDRAULIC CORPORATION

J.-P. Givens

## **APPENDIX**

- LABORATORY TEST RESULTS
- CORRESPONDENCE

### SUMMARY OF LABORATORY TEST RESULTS

## Initial Excavation for Tank Removal

(Date sampled, 10/28/88)

Soil			· /
	Sample N	lo.	Concentration (ppm)
	# 1 # 3 # 4 # 6	(North End - west tank) (South End - west tank) (North End - east tank) (South End - east tank)	1100 1100 500 3400
<u>Water</u>	# 2	(Groundwater at west tank) Total Petroleum - gasoline Benzene Toluene Xylenes Ethyl Benzene	350 11 8.3 22.0 7.3
	<b>#</b> 5	(Groundwater at east tank) Total Petroleum - gasoline Benzene Toluene Xylenes Ethyl Benzene	180 27 4.0 16.0 7.2
Water		(Date sampled, 11/07/88	)
	Sample N	<u>0.</u>	Concentration (ppm)
	<b>#</b> 7	(Standing water in tank) Total Petroleum - gasoline Benzene Toluene Xylenes Ethyl Benzene	32 5.5 3.1 7.0 0.8
<u>Soil</u>	* 8 * 9 * 10 * 11	(North End - west tank) (South End - west tank) (North End - east tank) (South End - east tank)	740 1500 610 2200

## SUMMARY OF LABORATORY TEST RESULTS (cont'd)

## Aerated Stockpile from Initial Tank Excavation

(Date sampled, 12/19/88

<u>Soil</u>	12/15/0	•
<del></del>	Sample No.  Total Petroleum - gasoline	Concentration (ppm)
	# 12 (East End - east pile) # 13 (East Center - east pile) # 14 (West Center - east pile) # 15 (West End - east pile) # 16 (North End - west pile)	ND 16 84 84 ND
	# 17 (South End - west pile)	ND

## Groundwater that infiltrated excavation after removal of original standing water.

(Date sampled, 2/22/89)

	Sample N	No.	Concentration (ppm)
Water	# 18	Total Petroleum - gasoline	.0077
		Benzene Toluene Xylenes Ethyl Benzene	.00081 .00057 .00092 <.0004
	# 19	Total Petroleum - gasoline Benzene Toluene Xylenes Ethyl Benzene	.016 .00072 .00056 .00061 <.0004

### Walls of Second Phase Excavation

(Date sampled, 4/19/89)

Soil

 Sample	No.	Concentration (ppm)
	Total Petroleum - gasoline	Concentration (ppm)
# 20	(Southwest Corner)	59
# 21	(Northwest Corner)	210
# 22	(Northeast Corner)	960
<b>#</b> 23	(Southeast Corner)	210

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6585 10/28/88 10/28/88 Two

11/1/88

PAGE:

Sample Type: Soil

			· · · · · · · · · · · · · · · · · · ·
Method and			0.6
Constituent	Hadda	Concen-	Detection
Constituent	<u>Units</u>	tration	Limit
DHS Method:			
Total Petroleum Hydro-			
carbons as Gasoline	ug/kg	3,400,000	60,000
			11,550
Modified EPA Method 80	20:		
Benzene	ug/kg	380,000	7,000
Toluene	ug/kg	100,000	900
Xylenes	ug/kg	200,000	4,000
Ethyl Benzene	ug/kg	21,000	
	23/ 73	41,000	1,000

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Three

Samp	le	Type:	Water

Method and Constituent	<u>Units</u>	Concen- tration	No. 2 Detection Limit	Concen- tration	No. 5 Detection Limit
DHS Method:				<del></del>	
Total Petroleum Hydro- carbons as Gasoline	ug/1	350,000	10,000	180,000	20,000
Modified EPA Method 8020:			•		
Benzene	ug/1	11,000	700	27,000	1,000
Toluene	ug/l	8,300	600	4,000	1,000
Xylenes	ug/l	22,000	1,000	16,000	2,000
Ethyl Benzene	ug/1	7,300	800	7,200	2,000

ugh R. MaJean Hugh R. McLean

Supervisory Chemist

HRM:mln

DATE:

11/10/88

LOG NO.:

6618

DATE SAMPLED:

11/7/88

DATE RECEIVED: 11/7/88

1

CUSTOMER:

Atlas Hydraulic Corporation

REQUESTER:

Bill Bender

PROJECT:

5787 Scarlet Court, Dublin, CA

	<del></del>		ample Type:	Soil	
Method and Constituent	<u>Units</u>	Concen- tration	No. 8  Detection Limit	Concen- tration	Detection Limit
DHS Method:			1		
Total Petroleum Hydro- carbons as Gasoline  Modified EPA Method 8020:	ug/kg	740,000	- 30,000	1,500,000	30,000
Benzene	ug/kg	18,000	1,000	29,000	1,000
Toluene	ug/kg	36,000	800	39,000	800
Xylenes	ug/kg	65,000	4,000	94,000	4,000
Ethyl Benzene	ug/kg	16,000	1,000	27,000	1,000

DATE: 11/10/88 LOG NO: 6618 DATE SAMPLED: 11/7/88 DATE RECEIVED: 11/7/88 PAGE: Two

Sample Type: Soil

Method and Constituent  DHS Method:	<u>Units</u>	Concen- tration	o. 10  Detection  Limit	No Concen- tration	. 11 Detection Limit			
Total Petroleum Hydro- carbons as Gasoline	ug/kg	610,000	30,000	2,200,000	30,000			
Modified EPA Method 8020 Benzene								
	ug/kg	11,000	1,000	46,000	1,000			
Toluene	ug/kg	16,000	800	70,000	800			
Xylenes	ug/kg	11,000	4,000	210,000	4,000			
Ethyl Benzene	ug/kg	14,000	1,000	62,000	1,000			

LOG NO.: 0018

DATE SAMPLED: 11/7/88

DATE RECEIVED: 11/7/88

PAGE: Three

Sampi	e	Type:	Water
<u> </u>	_	·γρε.	water

Method and Constituent  DHS Method:	<u>Units</u>	Concen- tration	Detection Limit
ons mechod:			
Total Petroleum Hydro- carbons as Gasoline	ug/l	32,000	10,000
Modified EPA Method 802	0:	•	
Benzene		5 500	
Taluana	ug/l	5,500	200
Toluene	ug/l	3,100	100
Xylenes	ug/l	7,000	
Ethyl Benzene	•	7,000	200
Ethyl Benzene	ug/l	750	200

Hugh R. McLean

Supervisory Chemist

HRM:mln

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12/29/88

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6817

DATE SAMPLED:

12/19/88

DATE RECEIVED:

12/19/88

CUSTOMER:

Atlas Hydraulic Corporation

REQUESTER:

Bill Bender

PROJECT:

Lew Doty, 5787 Scarlet Court, Dublin, CA

Sample Type: Soil Method and No. 12 No. 13 Concen-No. 14 Constituent Detection Concen-Detection <u>Units</u> Concentration Limit Detection tration Limit tration DHS Method: Limit Total Petroleum Hydrocarbons as Gasoline ug/kg < 500 500 16,000 500 84,000 500 Modified EPA Method 8020: Benzene ug/kg < 70 70 < 70 Toluene 70 < 70 70 ug/kg < 70 70 < 70 Xylenes 70 < 70 70 ug/kg < 300 300 Ethyl Benzene < 300 300 < 300 300 ug/kg < 100 100 < 100 100 < 100 100

DATE: 12/29/88 LOG NO.: 6817 12/19/88 DATE SAMPLED: DATE RECEIVED: 12/19/88 PAGE: Two

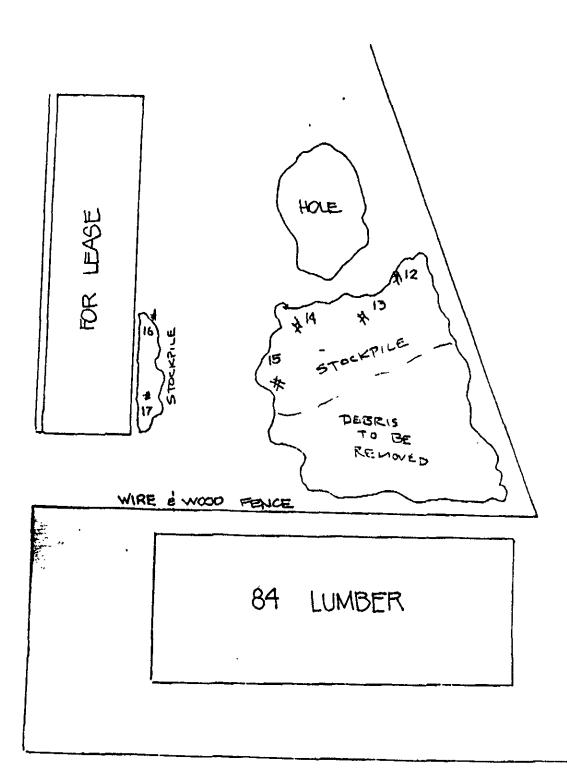
Sample Type: Soil

Method and			. 15		. 16	No	. 17
Constituent	<u>Units</u>	Concen- tration	Detection Limit	Concen- tration	Detection Limit	Concen- tration	Detection Limit
DHS Method:				<del>-</del>	-		
Total Petroleum Hydro- carbons as Gasoline	ug/kg	84,000	500	< 500	500	< 500	500
Modified EPA Method 8020	:						
Benzene	ug/kg	< 70	70	< 70	70	< 70	70
Toluene	ug/kg	< 70	70	< 70	70	< 70	70
Xylenes	ug/kg	67.0	300	< 300	300	< 300	300
Ethyl Benzene	ug/kg	< 100	100	< 300	100	< 100	100

Hugh R. McLean Supervisory Chemist

HRM: v1s

LEW DOTY CADILLAC 5787 SCARLET COURT DUBLIN, CA.



SCARLET COURT

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2/22/89

DATE RECEIVED:

2/22/89

CUSTOMER:

Atlas Hydraulic Corporation

REQUESTER:

Bill Bender

PROJECT:

Lew Doty, 5787 Scarlett Court, Dublin, CA

		Sa	mple Type:	Water	
Method and Constituent	<u>Units</u>	No Concen- tration	. 18 Detection Limit	Concen- tration	Detection Limit
DHS Method:					
Total Petroleum Hydro- carbons as Gasoline	ug/1	7.7	2	16	2
Modified EPA Method 8020:					
Benzene	ug/1	0.81	0.3	0.72	0.3
Toluene	ug/l	0.57	0.2	0.56	0.2
Xylenes	ug/1	0.92	0.5	0.61	0.5
Ethyl Benzene	ug/1	< 0.4	0.4	< 0.4	0.4

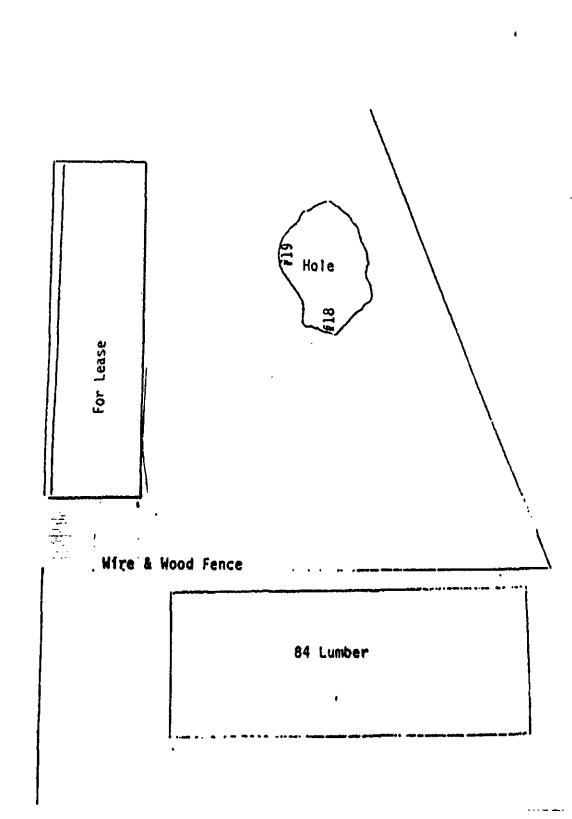
Dan Faraly

Dan Farah, Ph.D. Supervisory Chemist

DF:mln

2002

LEW DOTY CADILLAC 5787 Scarlett Court Dublin, CA



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13:55 ATLAS HYDRAULIC CORP MED

05/10/89 13:38 T415 783 1512

TRACE ANALYSIS

P. 0 i **2**002

Trace Analysis Laboratory. Inc.

3423 Investment Boulevard, #8 . Hayward, California 94545

(415) 783-6960



DATE:

5/10/89

LOG NO.:

7287

DATE SAMPLED:

4/19/89

DATE RECEIVED: 4/19/89

CUSTOMER:

Atlas Hydraulic Corporation

REQUESTER: Bill Bender

PROJECT:

Lew Doty Cadillac, 5787 Scarlett Court, Dublin

	~~~~~		Samp]	le Type:	Soil .		
Method and		Concen-	No. 20		0. 21	N	0. 22
Constituent	Units	tration	Detection Limit	Concen- tration	Detection Limit	Concen- tration	Detection Limit
DHS Method:							,
Total Petroleum Hy carbons as Gasolin	rdro- se ug/kg	59,000	500	210,000	2,000	960,000	2,000
Modified EPA Metho	d 8020:						
Benzene	ug/kg	< 6	6	3,600	40	16,000	40
loluene	ug/kg	< 6	6	7,300	30	7,300	30
Xylenas	🐃 ug/kg	< 30	30	30,000	200	100,000	200
ithyl Benzene	ug/kg	< 8	8	3,400	50	28,000	50

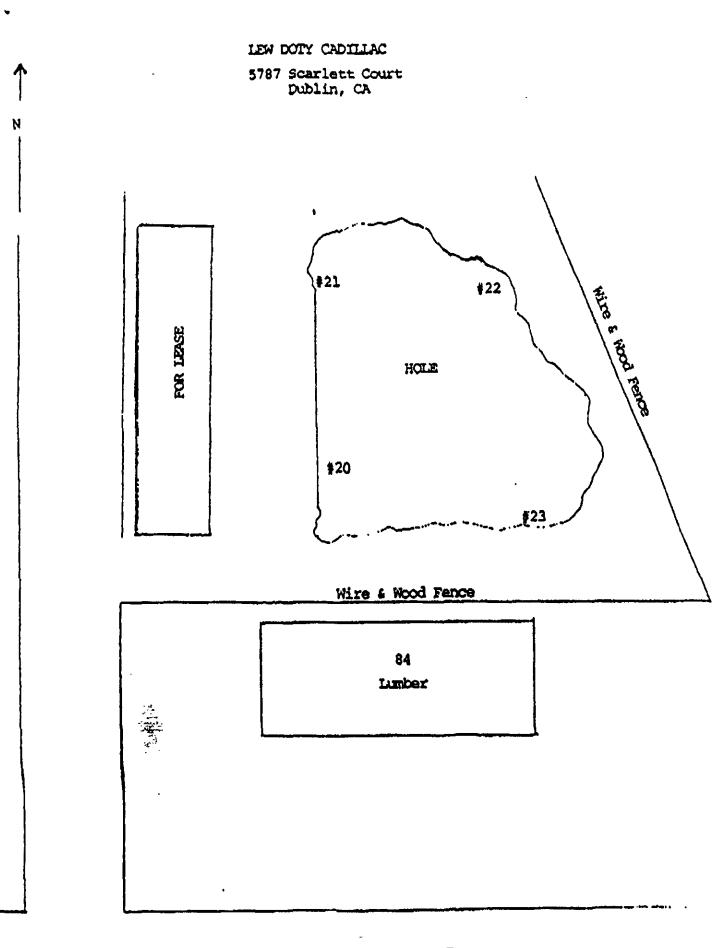
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		ample Type: S	6011
		No.	. 23
Method and Constituent	<u>Units</u>	Concen- tration	Detection Limit
DHS Method:			
Total Petroleum Hydro- carbons as Gasoline	ug/kg	210,000	2,000
Modified EPA Method 802	0:	,	
Benzane	ug/kg	5,200	40
Toluene	ug/kg	7,600	30
Xylanes	ug/kg	45,000	200
Ethyl Benzene	ug/kg	5,500	50

Dan Faral

Dan Farah, Ph.D. Supervisory Chemist

DF:k1



ADVIDAGA 12:3A D.412 100 1215

SCARLETT COURT



LOUIS A. RICHARDSON

Consulting Engineering Geologist

202 Jason Way Mountain View, California 94043 (415) **967-1000** 

## LETTER OF TRANSMITTAI

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	-				Rafat A. Shahid
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	Alameda ( Hazardous 80 Swan W Oakland,	: Materi lay, Roo	als Division m 200 21		Unauthorized Leak Release Underground Tank 5787 Scarlet Court Dublin, CA
	·				(Lew Doty Property)
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# APPENDIX B ANALYTICAL REPORT PROVIDED BY ATLAS HYDRAULICS

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312)# 1 P. 01

corporation

2439 INDUSTRIAL PKWY, WEST-P.C. BOX 36567-HAYWARD, CA 9 FAX# 415-786-4263 PH# 415-786-3393

### FAX COVER SHEET

TO:	Darius Dastmachi	
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HYDRAULIC CORP

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Trace Analysis Laboratory, Inc.

3423 Investment Boulevard, #8 - Hayward, California 94545

(415) 783-6

DATE:

11/1/88

LOG NO.:

6585

DATE SAMPLED:

10/28/88

DATE RECEIVED:

10/28/88

CUSTOMER

Atlas Hydraulic Corporation

REQUESTER:

Bill Bender

PROJECT:

5787 Scarlet Court, Dublin, CA

			Sai	mple Type:	Soil		
Method and Constituent	Units	No Concen- tration	). 1 Detection Limit	Concen- tration	o. 3 Detection Limit	Concen- tration	lo. 4 Detect Lim
DHS Method:							
Total Petroleum Hydro- carbons as Gasoline	ug/kg	1,100,000	6,000	1,100,000	5,000	500,000	6,000
Modified IPA Method 8020:				•	•		
Benzene	ug/kg	23,000	700	9,500	700	67,000	700
Toluene	ug/kg	8,200	90	15,000	90	370	90
Xylenes	ug/kg	26,000	400	54,000	400	1,900	400
Ethyl Benzene	ug/kg	13,000	100	19,000	100	12,000	100

QATE: 11/1/88 LOG NO.: 6585 DATE SAMPLED: 10/28/88 DATE RECEIVED: 10/28/88 Two

PAGE:

	·	Sample Type:	Soil
Mark I		N	o. 6
Method and Constituent	<u>Units</u>	Concen- tration	Detection Limit
DHS Method:			
Total Petroleum Hydro- carbons as Gasoline	ug/kg	3,400,000	60,000
Modified EPA Method 802	20:	•	
8enzene	ug/kg	380,000	7,000
Toluen <b>e</b>	ug/kg	100,000	900
Xylenes	ug/kg	200,000	4,000
Ethyl Benzene	ug/kg	21,000	1.000



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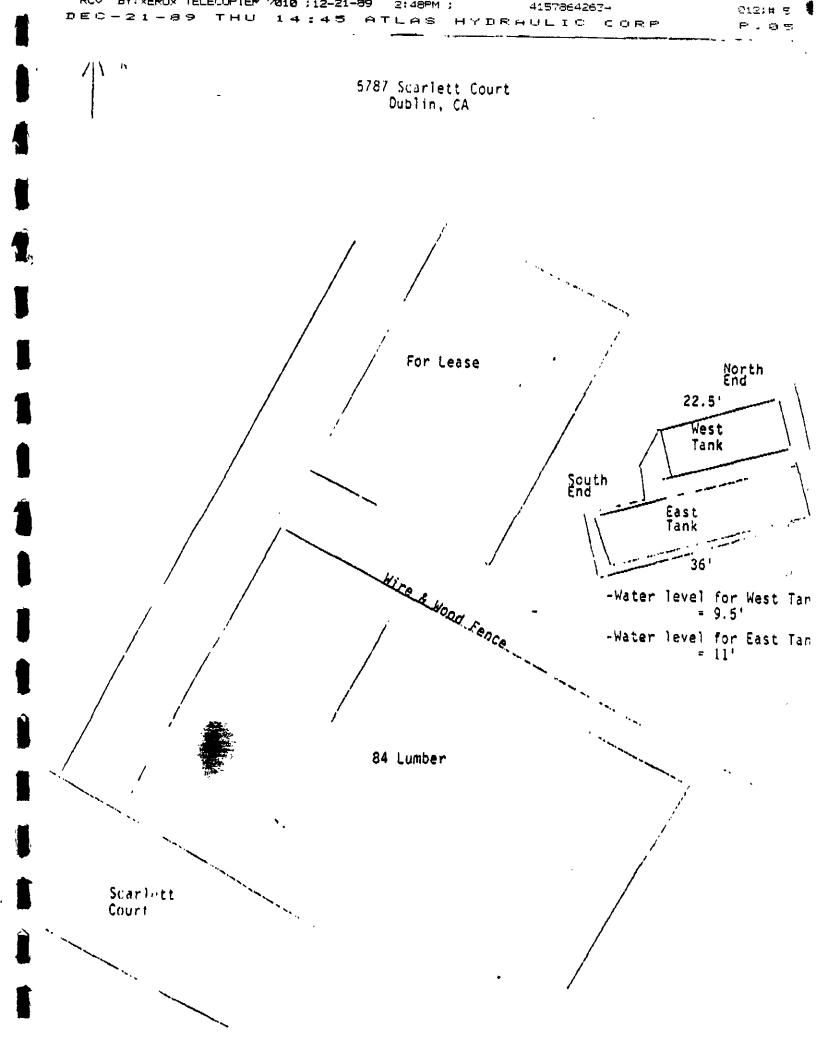
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Sample Type: Water

		1	No. 2		No. 5
Method and Constituent	<u>Units</u>	Concen- tratijn	Detection Limit	Concen- tration	No. 5 Detection Limit
DKS Method:			,		
Total Petroleum Hydro- carbons as Gasoline	ug/ì	350,000	10,000	180,000	20,000
Modified EPA Method 8020	;		•		
Benzene	ug/l	11,000	760	27,000	1,000
Toluene	ug/l	8,300	600	4,000	1,000
Xylenes	ug/l	22,000	1,000	16,000	2,000
Ethyl Benzene	ug/l	7,300	800	7,200	2,000

Kugh N. McJean Hugh R. McLean

Supervisory Chemist



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6 !!!!	South End Staticals	)	V Soil
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TRACE ANALYSIS

P. Ø 1 Q 00

Trace Analysis Laboratory. Inc.

3423 Investment Boulevard, #8 . Hayward, California 94545

(415) 783-690



DATE:

5/10/89

LOG NO .:

7287

DATE SAMPLED:

4/19/89

DATE RECEIVED:

4/19/89

CUSTOMER:

Atlas Hydraulic Corporation

REQUESTER:

Bill Bender

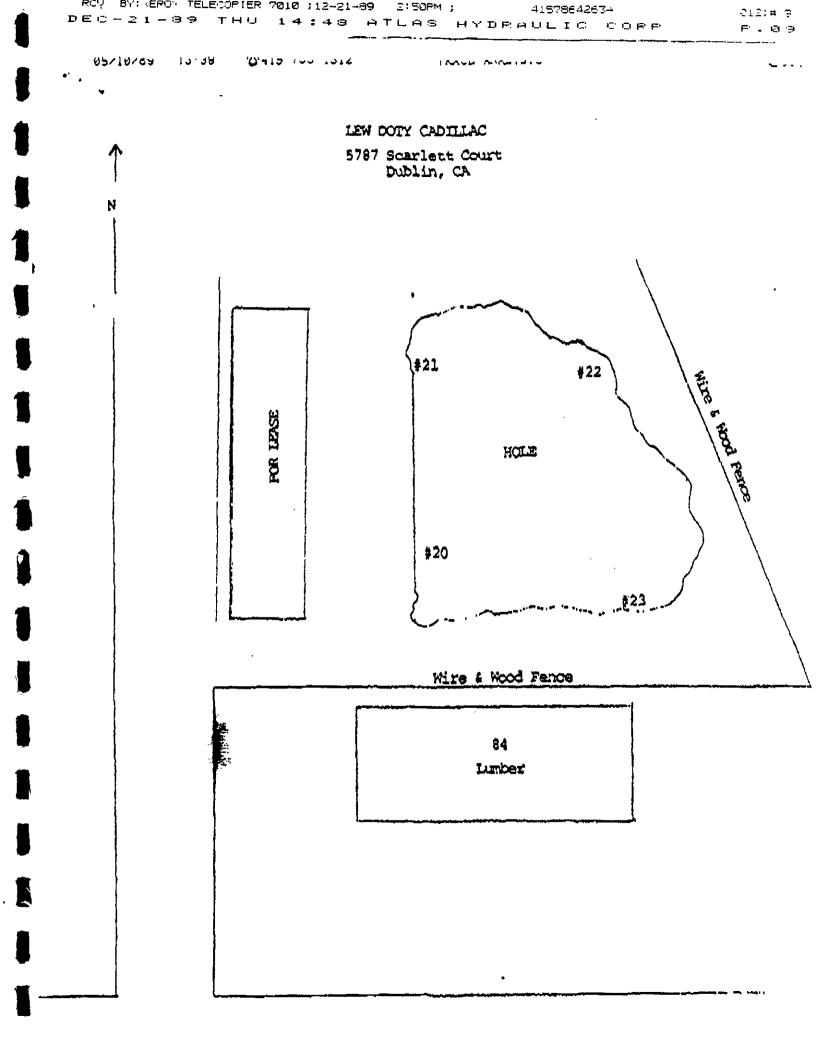
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Benzene Toluene Xylenes Ethyl Benzene	ug/kg ug/kg ug/kg ug/kg	< 6 < 6 < 30 < 8	<b>6</b> 6 30 8	3,600 7,300 30,000 3,400	40 30 200 50	16,000 7,300 100,000 28,000	40 30 200 50

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DATE SAMPLED: 4/19/89
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PAGE: Two

	Sample Type: Soil			
		No	. 23	
Metnod and <u>Constituent</u>	<u>Units</u>	Concen- tration	Detection Limit	
DHS Method:				
Total Petroleum Hydro- carbons as Gasoline	ug/kg	210,000	2,000	
Modified EPA Method 8020	o:			
Senzene	ug/kg	5,200	40	
Toluene	ug/kg	7,600	30	
Xylenes	ug/kg	45,000	200	
Etnyl Benzene	ug/kg	5,500	50	

Dan Faral

Dan Farah, Ph.D. Supervisory Chemist



DEC-21-89 THU 14:48 ATLAS HYDRAULIC CORP

012;#10 P. 10

Trace Analysis I aboratory, Inc.

3423 Investment Boulevard. #8 . Hayward. California 94545

(415) 783-6960

DATE:

8/31/89

LOG NO.:

7724

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DATE SAMPLED:

8/14/89

DATE RECEIVED:

8/14/89

CUSTOMER:

Atlas Hydraulic Corporation

REQUESTER:

Jim Givens

PROJECT:

Lew Doty, 5787 Scarlett Court, Dublin, CA

	** <del>****</del>	Sample Type: Soil						
Method and Constituen:	Units	No Concen- tration	Detection Limit	No Concen- tration	Detection Limit	Concen-	.31 Detect	
DHS Method.						tration	<u>Limi:</u>	
Total Petroleum Hydro- carbons as Hasoline	ug/kg	< 500	500	< 500	500	< 500	, 50(	
Modified EPA Method 80	20:							
Benzene	ug/kg	< 40	40	< 40	40	< 40	40	
Toluene	ug/kg	< 40	40	< 60	60	< 60	60	
Xylenes	ug/kg	< 100	100	< 100	100	< 100	100	
Ethyl Benzene	u <b>g</b> /kg	< 50	50	< 50	50	< 50	50	

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DATE: 8/31/89 LOG NO.: 7724 DATE SAMPLED: 8/14/89 DATE RECEIVED: 8/14/89 PAGE: Two

Sample Type:	Soil
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Method and			. 32		، 33	No	. 34
Constituent	<u>Units</u>	Concen- tration	Detection <u>Limit</u>	Concen- tration	Detection Limit	Concen- tration	Detect Limi
DHS Method							
Total Patroleum Hydro- carbons as lasoline	ug/kg	< 500	500	< 500	500	< 500	50
Modified EPA Method 8020:							
Benzene	ug/kg	< 40	40	< 40	40	< 40	4
Toluene	ug/kg	< 40	40	< 40	40	< 40	4
Xylenes	ug/kg	< 100	100	< 100	100	< 100	, 10
Ethyl Benze e	ug/kg	< 50	50	< 50	50	< 50	5
		No	. 35	. No	. 36		ì
DHS Method:							
Total Petro eum Hydro- carbons as :asoline	ug/kg	< 500	500	< 500	500		
Modified EPA Method 8020:							
Benzene	u <b>g</b> /kg	< 40	40	< 40	40		
Toluene	ug/kg	< 80	80	< 40	40		
Kylenes	ug/kg	< 200	200	< 100	100		

ug/kg

< 50

Dan Faral

< 50

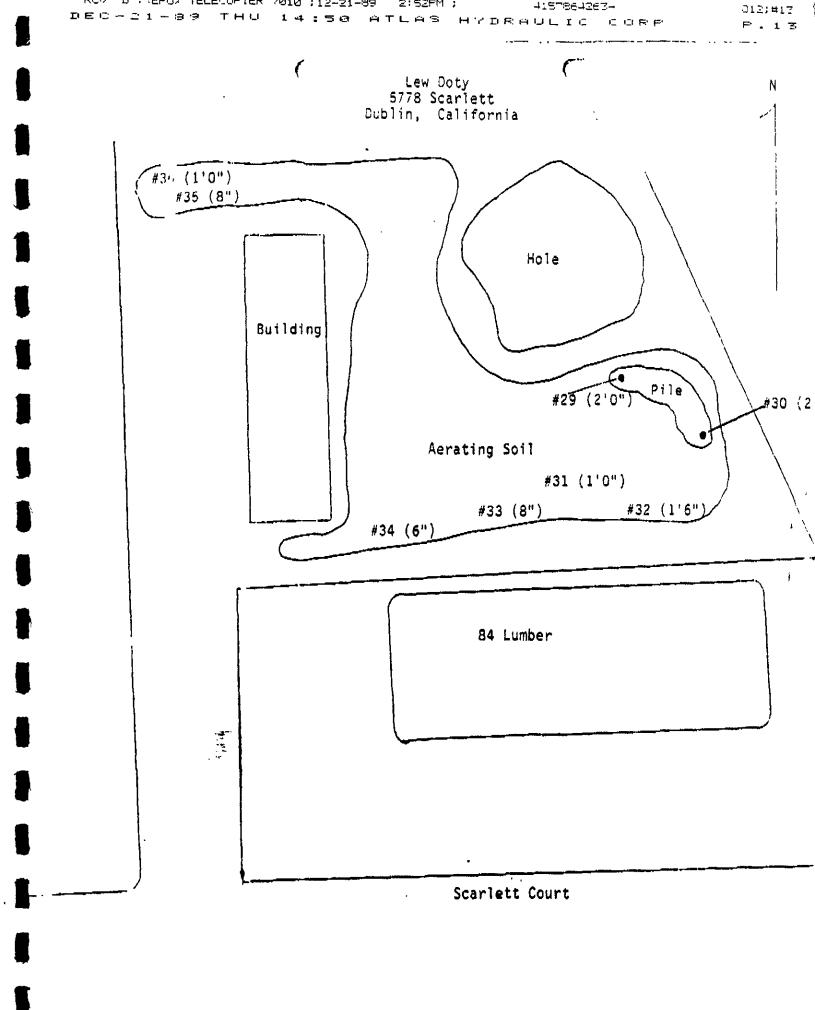
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Dan Farah, Ph.D. Supervisory Chemist

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Ethyl Benzere

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### APPENDIX C

DOCUMENTS OBTAINED FROM RWQCB ABOUT NEARBY SITES WITH REPORTED LEAKING UNDERGROUND STORAGE TANKS

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groundwater resources inc.

5400 ALDRIN CT. BAKERSFIELD, CALIFORNIA 93313

General Engineering Contractor Class A/Haz License No. 520768

September 26, 1989

Gil Wistar Alameda County Department of Environmental Health 80 Swan Way, Rm. 200 Oakland, CA 94621

Re: Scotsman Corp., Dublin CA

Dear Mr. Wistar,

Pursuant to your letter dated March 28, 1989 requesting a monthly update on gradient determinations and water level data and bi-monthly groundwater sampling for the monitoring wells installed at the Scotsman Corp. facility, the following information has been submitted to your office for review.

Depth to groundwater measurements were recorded on August 30, 1989 and calculated to Mean Sea Level as follows:

MW-1	322.85 ft ms!
MW-2	323.65 ft ms)
MW-3	323.54 ft ms
MW-4	322.64 ft ms)
MW-5	322.6 ft msl *
MW-6	322.65 ft msl
MW-7	323.0 ft msl *

<sup>\*</sup> Wells not surveyed, depths are approximations.

Calculations indicate the direction of the groundwater gradient to be 33 degrees west of south with a slope of approximately 3.4 feet per 1000 feet (see Plate 1).

Enclosed are the analysis results for the water sampled from the groundwater monitoring wells present at the site. The samples were analyzed for BTX&E, TPH, TDS and pH. The wells were bailed dry and allowed to recover to the static water level before sampling. The samples were sealed, labeled and chilled at 4 degrees Celsius then transferred under a Chain of Custody to a State Certified Laboratory for analysis.

Groundwater gradient measurements will continue to be recorded on a monthly basis as per your request.

If you have further questions please give me a call at (805) 835-7700.

Sincerely,

Timothy C. Reed Project Geologist

Timet C. Lead

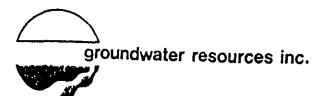
Encl.

cc: Mr. Chris Ingram, Scotman Corporation

groundwater resources inc.

SCOTSMAN CORPORATION 6055 Scarlett Ct. Dublin, California

SITE CHARACTERIZATION REPORT June 30, 1989



#### SCOTSMAN CORPORATION 6055 Scarlett Ct. Dublin, California

# SITE CHARACTERIZATION REPORT June 30, 1989

#### TABLE OF CONTENTS

1.0	INTRODUCTION
2.0	BACKGROUND
3.0	BORING AND MONITORING WELL COMPLETIONS
4.0	SAMPLING PROCEDURES
5.0	FINDINGS
6.0	CONCLUSIONS 6.1 Discussion of Vadose 6.2 Discussion of Groundwater
7.0	RECOMMENDATIONS
8.0	LIMITATIONS

#### ILLUSTRATIONS

PLATE 1	Location Map
PLATE 2	Plot Plan
PLATE 3	Detail of Tank Location
PLATE 4-9	Logs of Borings
PLATE 10	Gradient Map

#### APPENDIX

Α.	Laboratory	Analytical	Penanta
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B. Chain of Custody Forms

C. Sampling Protocol

SCOTSMAN CORPORATION

#### 1.0 INTRODUCTION

This report provides the results of an investigation to further determine the extent of a hydrocarbon plume in the groundwater at the Scotsman Corporation facility at 6055 Scarlett Ct., Dublin, California. Groundwater Resources, Inc. (GRI) recommends that further drilling and sampling be done before a final remediation plan is submitted.

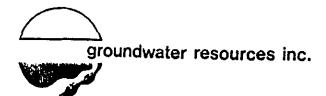
#### 2.0 BACKGROUND

Two 500 gallon underground gasoline storage tanks were removed from the Scotsman facility on October 23, 1987. During the removal, corrosion was noted on the tanks and one of the tanks was described as having a hole by the fill point. The water table was observed near the tank bottoms at six and one-half feet. Laboratory analysis of the samples reported substantial hydrocarbon levels in the soil. Based on this preliminary assessment, the County Department of Environmental Health ordered a site investigation. In response to GRI's Site investigation report, dated 1-19-89, the Department requested further work to completely define the extent of the hydrocarbon plume. In addition, mapping of the groundwater gradient and information on the soil characteristics were requested.

# 3.0 BORINGS AND MONITORING WELL COMPLETIONS

Six groundwater monitoring wells were drilled on the days of May 24-25, 1989, bringing the total number of monitoring wells at the site to seven. Three monitoring wells, designated MW-2, MW-3 and MW-4 were placed 335 feet north, 285 feet northeast and 70 feet south of MW-1, respectively, in order to provide information on the local groundwater gradient (Plate 2). Well MW-6 was drilled at the south edge of the tank excavation to characterize the extent of soil contamination in this area and to aid in remediation. Well MW-7 was drilled through the concrete slab ten feet north of MW-1 to investigate possible migration of hydrocarbons under the slab. MW-5 was drilled 20 feet to the southwest of the source to find the extent of hydrocarbon migration downgradient of the suspected source (Plate 3).

All borings were completed as groundwater monitoring wells. The wells ranged in depth from 16.5 feet to 21.5 feet and were constructed with four-inch PVC casing and a 10 foot slotted interval (see Boring Logs, Plates 4-9). A grayish brown silty clay was generally encountered in all of the borings with the exception of MW-3 in which a fine grained, medium brown, silty sand was observed from 13-16.5 feet.



#### 4.0 SAMPLING PROCEDURES

Soil samples were collected using a two and one-half inch diameter California Split Spoon Sampler containing three six-inch brass sleeves. The cores selected for analysis were sealed in the sleeve with teflon lined plastic end-caps and integrity tape. The core-sampler was washed and rinsed after each use to avoid cross contamination.

After the wells were constructed, approximately three to four well volumes were pumped from each well to insure that the water present in the well was representative of the groundwater in the formation. A groundwater sample was drawn from each well and analyzed for BTX&E and TPH (gasoline). All samples were labeled, chilled and transported to a State Certified Laboratory under a Chain of Custody (Appendix B).

#### 5.0 FINDINGS

All soil samples analyzed during the latest drilling phase were reported as having no detectable Hydrocarbons present. Hydrocarbons were found in the groundwater in MW's 1, 2, 3, 5, 6 and 7. The highest readings for TPH (gasoline) were found in MW-6 at 76000 ppb with 6200 ppb Benzene (see Laboratory Results, Appendix A). TPH and Benzene levels for MW-7, 10 feet north of MW-1, were 1100 ppb and 67 ppb respectively. The downgradient location of MW-5 was chosen to help determine the degree of migration in that direction. A TPH concentration of 1400 ppb and 270 ppb Benzene was found there. In MW-4, no Hydrocarbon concentrations were detected. Both MW-2 and MW-3 showed positive results for Benzene at 15 ppb and 4.6 ppb respectively with NW-2 also reported as having 52 ppb TPH. Elevations of the wells were measured by a licensed surveyor and the local groundwater gradient was determined. The local gradient (as of 5-25-89) was calculated to be 3.7 feet per 1000 feet with a bearing of 15 degrees west of south (Plate 10). Additional soil samples were collected for permeability analysis. This data is not yet available.

#### 6.0 CONCLUSIONS

6.1 Discussion of Vadose
Samples collected in the vadose zone from each monitoring well and boring have shown little or no significant contamination present in the soil above the watertable. The soil sample collected from boring B-3 at a depth of six feet (see Site Investigation Report, 1-19-89) was below the watertable or at the capillary fringe and may have contained contaminated groundwater. It should not therefore be considered part of the vadose zone.



It can be inferred from the analysis results obtained from the borings that vadose zone contamination is not a factor and does not require remedial action.

Discussion of Groundwater The high readings for TPH in the groundwater at MW-6 (76000 ppb) and hydrocarbon concentrations reported in MW-5 indicates a southerly or downgradient migration of the plume. There may also have been some upgradient migration under the concrete slab, as shown by the positive readings in MW-7. This phase of plume delineation has shown that migration has occurred down the gradient more than 20 feet from the source and upgradient at least ten feet under the concrete pad. It is noteworthy that MW-2 and MW-3, which are more than 200 feet upgradient from the tank excavation, indicate that Benzene and TPH concentrations are present in the groundwater. GRI considers it very unlikely that these wells were affected by the suspected source at the tank location. It appears that there is either a second source of hydrocarbons to the north of the tank excavation or there is a high background level of hydrocarbons due to previous land use.

#### 7.0 RECOMMENDATIONS

In view of the high levels of hydrocarbons in wells 1, 5, 6 and 7, and the apparent mobility of the plume, GRI recommends that a pump and treat program be started as soon as it is practical in order to prevent the further spread of the contaminants. addition, further delineation of the plume should be continued. We propose to auger a series of holes around the known plume using a DeepRock Hydra-Drill with two-inch, continuous-flight augers, and take groundwater samples as needed until the plume is fully defined (Plate 3). These samples would be for screening purposes only, so that the approximate boundary of the plume could be defined. Upon completion of the analysis, monitoring wells would be constructed on the plume edges to verify the extent of hydrocarbon migration. In addition, a series of monitoring wells with discreet screened intervals would be placed in the plume to determine the vertical extent of groundwater contamination. Pump tests to determine the hydrologic conductivity of the soil would also be performed. samples taken upgradient from the known plume are also Additional recommended and a study of present and past land use should be done so that the source of the positive readings at MW-2 and MW-3 may be identified. When sufficient data was accumulated, GRI would develop and submit a plan for full remediation.

Pursuant to Alameda County Department of Environmental Health requirements, monthly water levels will be recorded in all monitoring wells and bi-monthly water samples will be collected



SCOTSMAN CORPORATION

Water level data, contour maps and gradient and analyzed. determinations will be submitted along with sampling results and hydrological characteristics.

#### 8.0 LIMITATIONS

This report was prepared for the exclusive use of Scotsman Manufacturing Corporation as it relates to the property described. The discussion and conclusions presented in this report are based on:

- The test borings performed at this site.
- The observations of field personnel.
- The results of laboratory tests performed by SMC Laboratory, Bakersfield, California.
- Our understanding of the regulations of Alameda County and the California Regional Water Quality Control Board.

Possible variations in the soil or groundwater conditions which may exist beyond the points explored in this investigation might effect the validity of this report unless those variations or conditions come to our attention and are reviewed and assimilated into the conclusions and recommendations of this report. changes in the hydrologic conditions found could occur with time due to variations in rainfall, temperature, regional water usage, or other factors, any of which could effect this report.

The services performed by GRI have been conducted in a manner consistent with the levels of care and skill ordinarily exercised by professionals currently practicing under similar conditions in The absence of contamination on or beneath the California. property cannot be guaranteed by this report. responsible for any contamination or hazardous material found on GRI is not the property. No other warranty expressed or implied, is made.

Respectfully submitted,

GROUNDWATER RESOURCE

Timothy C. Red

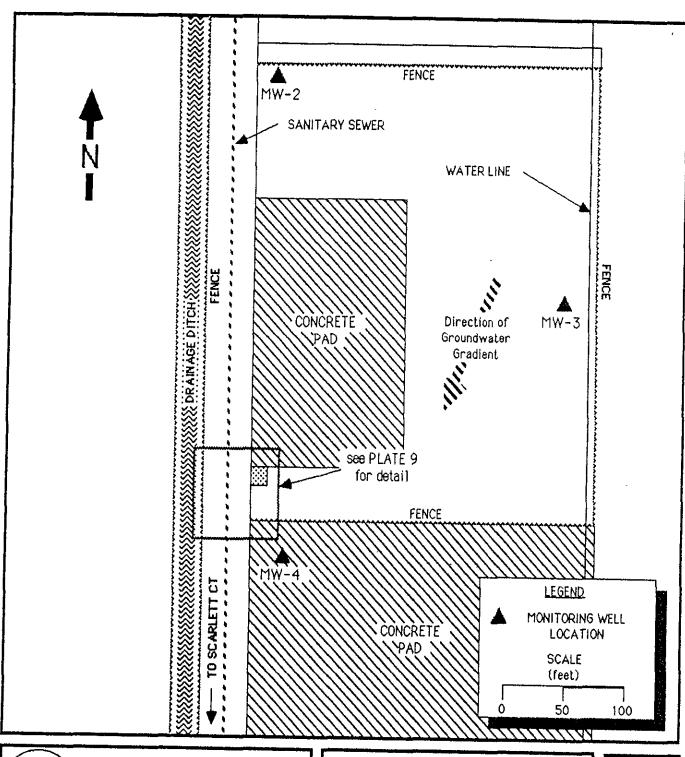
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groundwater resources inc.

environmental/geotechnical services

Project Number: 55018

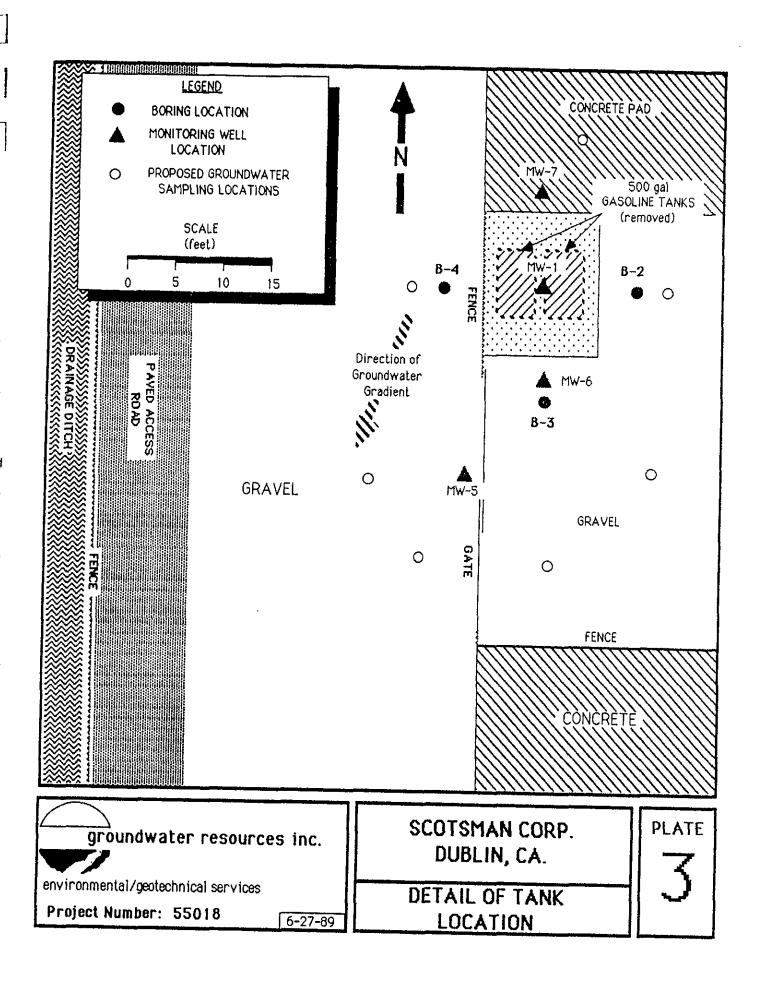
SCOTSMAN CORPORATION

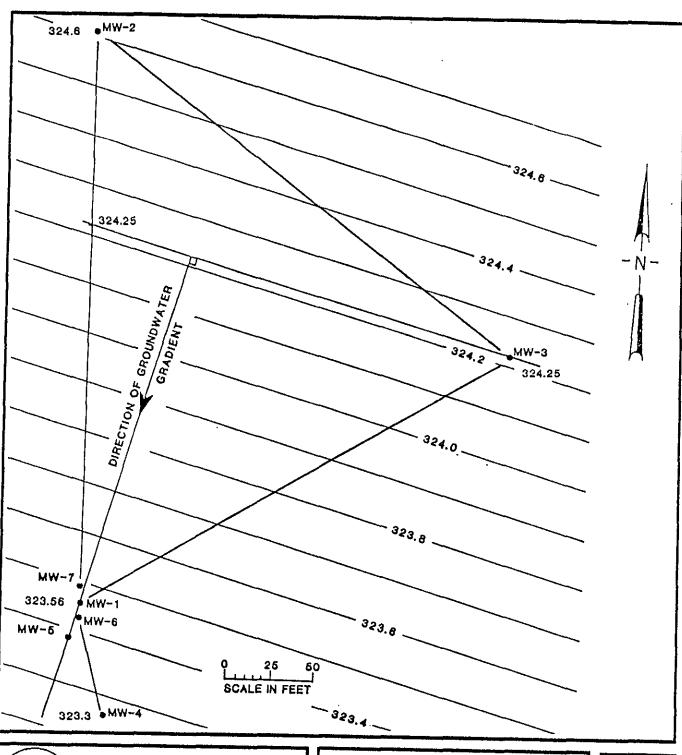
6055 SCARLETT COURT DUBLIN, CA

**PLOT PLAN** 

**PLATE** 

2





groundwater resources inc.

environmental/geotechnical services

Project Number: 55018

SCOTSMAN CORPORATION

6055 SCARLETT COURT DUBLIN, CA

**GRADIENT MAP** 

PLATE

10

STATE OF CALIFORNIA

GEORGE DEUKMEJIAN, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Phone: Area Code 415 464-1255



SAN FRANCISCO BAY REGION 1111 JACKSON STREET, ROOM 6040 OAKLAND 94607

October 3, 1989

Mr. Kevin Hunter Exxon Company, U.S.A P.O. Box 4415 Houston, Texas 77210-4415

Subject: Exxon Station # 7-3399, 2991 Hopyard Road, Pleasanton,

California

Dear Mr. Hunter:

Following our telephone conversation on September 14 concerning proposed well locations, representatives of the City of Pleasanton, Zone 7, and the Board met to discuss the status of soil and groundwater remediation at the referenced station. During the meeting on September 20th, I reviewed the proposed shallow well locations. While replacement of mw-6 with an equivalent well (upgradient from the spill) was deemed reasonable, concern was expressed that a single shallow well in the prevailing downgradient direction would not adequately define the vertical and lateral extent of soil and groundwater pollution to the Southeast. Consequently, we believe the following is appropriate:

- 1. Installation of an A-B well cluster screened in the first and second water-bearing zones to be located directly to the Southeast of mw-7 and mw-2 (where we had previously sited the single downgradient well).
- 2. Three additional shallow wells forming a 180 degree ring in the prevailing downgradient direction around the spill site (see attached sketch map), to define the extent of soil and groundwater pollution.
- 3. If significant contamination is found at any of these wells, additional wells will be required to be in compliance with the November 3 deadline for complete site characterization required by Cleanup and Abatement Order 89-132.

As I indicated to you earlier, it is the responsibility of Exxon and its' consultant(s) to determine actual well locations and obtain any appropriate drilling permits. Accordingly, the sketch map is provided to you as a suggestion only.

While I will continue to be available to answer any questions you might have with regard to remediation at the site, matters concerning Exxon's compliance with the Cleanup and Abatement Order should be discussed first with Lester Feldman, Section Leader.

Charles Noyes

Mr. S. S. Cusenza - City of Pleasanton

Mr. J. Killingstad - Alameda County Flood Control, Zone 7

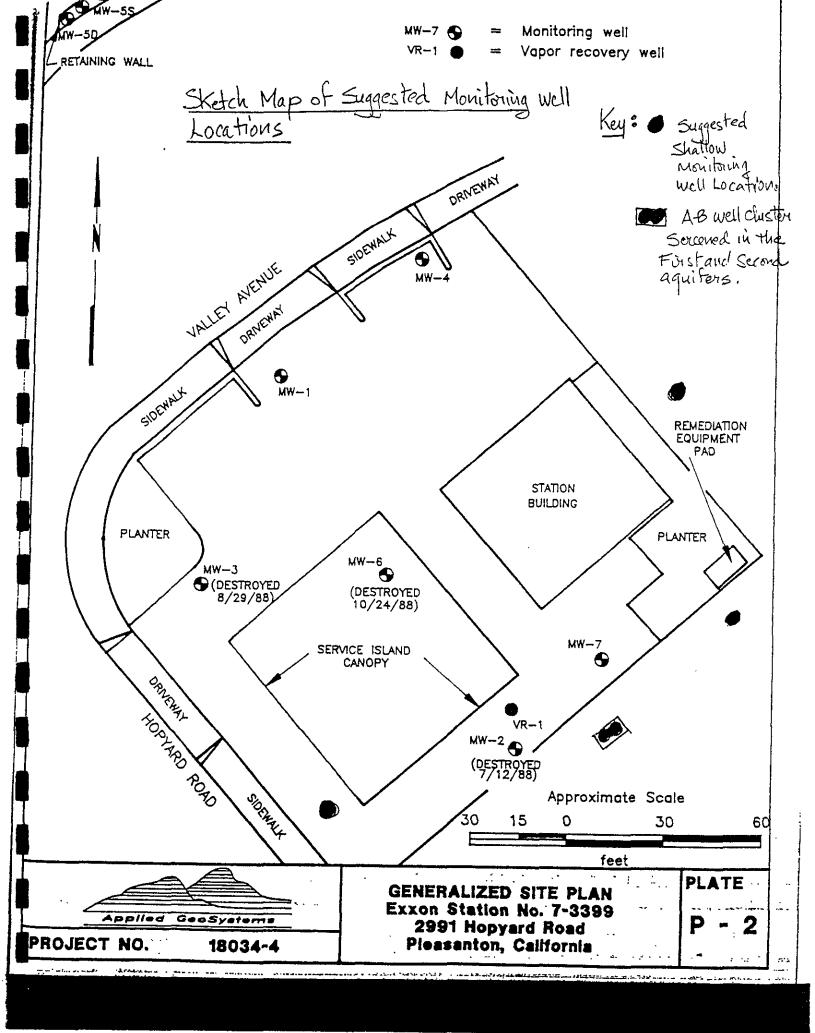
Mr. R. Mueller - Pleasanton Fire Department

Mr. R. Shahid - Alameda County HMMP

Mr. M. Thompson - Alameda County Office of the District

Attorney

Mr. R. C. Witham - Applied Geosystems



#### FUELLEAK CASE FORM

	Review Date 2 / 14/89 Rev Status C
	Site Name SHELL Streetnumber_5251 Street_HofyARD RD City_fleasanToN County Number_01
•	Rant
	Division LPC Lead Agency ()
	Primary Substance 8006619
	Secondary Substance
	Case Type U G D Status N
	Well Status /W
	Soil Affected Y U  Max. Soil Conc. (ppm)  Max. Residual Soil (ppm)  Soil Status
	Groundwater Affected (Y) U  Max. Groundwater Impact (200)  Groundwater Status N  Depth to Groundwater 8
•	Drinking Water Affected Y U Drinking Water Status
1	Remedial Action <u>NT</u> N Proof Action Needed <del>DT</del>
	Date of Last Corr 9,28,88  Date Case Recieved 9,28,88
	Case Evaluated By MCC Consultant A GTRLab PEG

HELL OIL CORPORATION QUARTERLY REPORT TO THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD ounty of ALAMEDA Date of Report: 01/11/89

<u>S</u>ite ID: 204550849 500 40TH STREET

City of OAKLAND

ctions in past three months: NONE. ALL WELLS DESTROYED IN APRIL 1986 DURING CONSTRUCTION AT SITE.

ctions planned for next three months: A CONSULTANT TO BE SELECTED BY SHELL IL COMPANY WILL REVIEW ALL DATA PERTAINING TO THIS SITE AND AN APPROPRIATE WORK PLAN WILL BE PREPARED.

bil contamination defined? No Soil clean-up in progress? No Free product plume defined? No Dis'ld const'nt clean-up in progress? No Dis'ld const'nt clean-up in progress? No ntractor: TO BE ASSIGNED

te ID: 204613809 5251 HOPYARD ROAD

City of PLEASANTON

Actions in past three months: GROUNDWATER SAMPLES WERE COLLECTED FROM THE INITORING WELLS ON DECEMBER 14, 1988. A COPY OF THE GROUNDWATER SAMPLING PORT AND ANALYTICAL RESULTS IS ATTACHED TO THE JAN. 9, 1989 EXECUTIVE SUMMARY.

tions planned for next three months: PREPARE A WORK PLAN TO DEFINE THE EXTENT OF SOIL AND GROUNDWATER CONTAMINATION AT THE SITE. THE WORK PLAN WILL BE PREPARED UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL.

Contractor: GETTLER-RYAN INC.

Soil contamination defined? No Soil clean-up in progress? No lee product plume defined? Yes Free product clean-up in progress? No Dis'ld const'nt clean-up in progress? No

Site ID: UNKNOWN 7TH/BROADWAY City of OAKLAND

tions in past three months: GROUNDWATER SAMPLES WERE COLLECTED ON OCTOBER 5, 1988. A COPY OF THE GROUNDWATER SAMPLING REPORT AND ANALYTICAL RESULTS IS ATTACHED TO THE JAN. 9, 1989 EXECUTIVE SUMMARY.

Actions planned for next three months: PREPARE A WORK PLAN TO DEFINE THE EXTENT OF SOIL AND GROUNDWATER CONTAMINATION AT THE SITE. THE WORK PLAN WILL PREPARED UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL.

il contamination defined? No Soil clean-up in progress? No Pree product plume defined? No Dis'ld const'nt plume defined? No Dis'ld const'nt clean-up in progress? No Intractor: GETTLER-RYAN INC.

SHELL OIL CORPORATION OUARTERLY REPORT TO THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD County of ALAMEDA Date of Report: 04/14/89

Site ID: 204613809 5251 HOPYARD ROAD

City of PLEASANTON

Actions in past three months: A WORK PLAN TO EVALUATE THE EXTENT OF CONTAMINATION WAS ISSUED BY WOODWARD-CLYDE CONSULTANTS ON APRIL 7, 1989.

Actions planned for next three months: UPON RECEIPT OF ALL NECESSARY PERMITS AND APPROVALS PROCEED WITH WORK DESCRIBED IN WOODWARD-CLYDE CONSULTANT'S WORK PLAN.

oil contamination defined? No Soil clean-up in progress? N ree product plume defined? Yes Free product clean-up in progress? Dis'ld const'nt plume defined? No Dis'ld const'nt clean-up in progress? No ontractor: GETTLER-RYAN INC.

461 8TH STREET/BROADWAY ite ID: UNKNOWN City of OAKLAND

Actions in past three months: GROUNDWATER SAMPLES WERE COLLECTED ON FEBRUARY  $\underline{1}$ 4, 1989. THE RESULTS OF THE QUARTERLY SAMPLING ARE PRESENTED IN A REPORT SUED BY GEOSTRATEGIES INC. ON APRIL 14, 1989.

ctions planned for next three months: CONTINUE QUARTERLY GROUNDWATER AMPLING. FUTURE SCOPES OF WORK WILL BE DEFINED IN A SITE WORK PLAN ISSUED BY GEOSTRATEGIES INC.

Soil contamination defined? No Soil clean-up in progress? ontractor: GETTLER-RYAN INC.

No Free product plume defined? No Free product clean-up in progress? No is'ld const'nt plume defined? No Dis'ld const'nt clean-up in progress? No

ELL OIL CORPORATION DARTERLY REPORT TO THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD Date of Report: 07/14/89 ounty of ALAMEDA

te ID: 204613809 5251 HOPYARD ROAD

City of PLEASANTON

tions in past th<del>ree months: FOUR GROUNDWATER MONITORING WELLS WERE</del> ISTALLED ON MAY 4, 1989. A REPORT PRESENTING THE RESULTS OF THIS AVESTIGATION IS PENDING. GROUNDWATER SAMPLES WERE COLLECTED ON MAY 11,

ctions planned for next three months: CONTINUE QUARTERLY GROUNDWATER MPLING. FUTURE SITE WORK WILL BE DEPENDENT ON THE FINDINGS OF THE RECENT ASE OF INVESTIGATION.

l contamination defined? No Soil clean-up in progress? No ree product plume defined? Yes Free product clean-up in progress? No is'ld const'nt plume defined? No Dis'ld const'nt clean-up in progress? No htractor: GETTLER-RYAN INC.

ID: UNKNOWN 461 8TH STREET/BROADWAY City of OAKLAND

ctions in past three months: GROUNDWATER SAMPLES WERE COLLECTED ON MAY 1, 289. THE RESULTS OF THE QUARTERLY SAMPLING ARE PRESENTED IN A REPORT ISSUED GEOSTRATEGIES INC. ON JULY 13, 1989.

tions planned for next three months: CONTINUE QUARTERLY GROUNDWATER MPLING. PREPARE A WORK PLAN TO FURTHER EVALUATE THE EXTENT OF CONTAMINATION.

oil contamination defined? No Soil clean-up in progress? Νo ree product plume defined? No Free product clean-up in progress? No 'ld const'nt plume defined? No Dis'ld const'nt clean-up in progress? No htractor: GETTLER-RYAN INC.

TELL OIL CORPORATION JUARTERLY REPORT TO THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD unty of ALAMEDA Date of Report: 09/29/88

te ID: 204802610 32187 ALVARADO-NILES

City of UNION CITY

ctions in past three months: SAMPLED MONITORING WELLS IN JUNE 1988. AMPLING REPORT FORWARDED TO ACVD ON JULY 14, 1988.

rions planned for next three months: CONTINUE QUARTERLY WELL SAMPLING.

ree product plume defined? Yes Free product clean-up in progress? No s'ld const'nt plume defined? Yes Dis'ld const'nt clean-up in progress? No ntractor: GETTLER/RYAN INC.

te ID: 204550849 500 40TH STREET City of OAKLAND

<u>c</u>tions in past three months: NONE. ALL WELLS DESTROYED IN AFRIL 1986 RING CONSTRUCTION AT SITE.

tions planned for next three months: PROCEED WITH WORK FLAN GENERATED BY ACIFIC ENVIRONMENTAL GROUP INVOLVING THE INSTALLATION OF GROUNDWATER WITORING WELLS.

ontractor: GETTLER-RYAN INC.

sil contamination defined? No Soil clean-up in progress? No e product plume defined? No Free product clean-up in progress? No bis'ld const'nt plume defined? No Dis'ld const'nt clean-up in progress? No

Tte ID: 2046/13809 5251 HOPYARD ROAD

City of PLEASANTON

ions in past three months: MUNITURED VELLS MONTHLY.

ctions planned for next three months: SAMPLE WELL S-1 QUARTERLY.

In I contamination defined? Yes Soil clean-up in progress? No ree product plume defined? Yes Free product clean-up in progress? No is'ld const'nt plume defined? Yes Dis'ld const'nt clean-up in progress? No tractor: GETTLER-RYAN INC.

Clayton Environmental Consultants, Inc.

APPENDIX C
BORING LOGS

SULTANTS		OG OF	C	OCATION 5	l'ey Nissan/1 787 Scartett	Dodge Court, Dublin, o /L Compton DRILL	ATE 1-22-90 California ER Datum	BORING No MW-1 Sheet 1
ield Lo	cation of	Boring: _		<del></del>				
	lev	<del></del>					Casing Instal	od 8" Hollow Stem Auger Hole Dia 8"  lation Data See Figure 3
<u>.</u>		D E	S	Soil	Litho.	Water Level		
Blow Counts	P10 OVA	p T	A M P	Group Symbol	Graphic Symbol	Time		
001113	047	н	E F	(uscs)		Date		
	 						DESCRIPTION	
						8" asphalt and	packing materi	als
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		8 '-						
		9'-						
		10'						
		_						
_	:	11'-				Light brown cla	ıy, plastıc, mo	ist, no odar
		12'-						
	<u>.</u> .				///			
		13'-						
<u> </u>		13				Light brown cla	y, silt, free w	vater, no odor
				}		· · · · · · · · · · · · · · · · · · ·		
		14'			///			

SULTANTS		G OF	CL	.iENT Va CATION 5	27399 00 lley Nissan/C 787 Scarlett D.Dastmalchi/	D/ Dodge Court, Dublin, ( 'L Compton DRILLE	TE <u>1-22-</u> California R Datu			+NG No <u>N</u> et <u>2</u> 2	W - 1	
ield Lo										Stem Aug Hole Dia.	er	
round E	Tev.:	. Datum,					Casing 1	nstallat	ion Data	Hole Dia. See Figu	8" re 3	
		0	s	Soil	Litho-	Water Level						
Blow	PID	E   P   T	A M P	Group Symbol (uscs)	Graphic Symbol	Time						
ounts	J VIA	н	L E	(4303)		Date						
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VSULTANTS	EXPLORATO.	OG OF RY BORING	G L	OGGED 8Y	D Dastmalchi/	Dodge Court, Dublin L Compton DRILL	ATE <u>1 · 2</u> Californ ER <u>D</u> a	2-90 [a tum	<sub>Sh</sub>	RING No		
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Blow Counts	OVA OVA	P	M P	Symbol (uscs)	Symbo!	Time						
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YTON ENV SULTANTS		OG OF	CL	.:ENT Val CATION 57	27399.00 ley Nissan/5 87 Scarlett .Dastmalchi/	Dodge Court, Dublin, C 'I Compton DRILL	aliforn	а		BORING No Sheet 2 of 2		
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							Casing	lostalla	tion Dat	ow Stem A Hole Di a See F	a. 8"	
Ground E	lev:	. Datum:									8010 4	
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		15'			1	Gasoline odor,	free wa	ter	•			
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SULTAVTS	L	OG OF	C	OCATION 5	liey Nissan/: 787 Scarlett	Court Dublin	Californ			BORING		W - 3	
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reld La	cation of	Baring:			<u> </u>		Drilli	ng method	8" Hol	low Sta	m Aug	er	
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		1	- 1	ŀ	///	Light brown sil	ty clay,	wet					

SULTANTS	LC	G OF	Ct	.IENT Val CATION 57	27399 00 ley Nissan/D 787 Scarlett	Oodge Court, Dublin, (	ATE <u>1-22</u> Californi	a	She	RING No	MW - 3	
	EXPLORATOR	RY BORING	LC	GGED BY [	) Dastmalchi/	L. Compton DRILL	R <u>Dat</u>	um	of	2		
ield Lo	cation of B	toring					Drilfin	g method	8" Holloy	Y Stem A	uger 2 8"	
iraund E	l'ev.	. Datum:		-			Hole Dia 8º Casing Installation Duta See Figure 5					
		0 E	S A	Soil Group	titho. Graphic	Water Level						
Blow Counts	019 AVO	P T	M P	Symbol (uscs)	Symbol	Time						
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SULTANTS	EXPLORATOR	OG OF RY BORING	LO	GGED BY 0	. Dastmalch:/	D. Dodge Court, Dublin, L Compton DRILL	ER <u>Da</u>	tum	Sheet 1 of 2	
<del></del>	lev .						Casing	ng method 8"	Hollow Stem Auger Hole Dia 8" Data See Figure 6	
8 low Counts	P+D OVA	D E P T H	S A M P L	Sull Group Symbol (uscs)	Litho- Graphic Symboi	Water Level Time Date		CRIPTION		
		2'-				8" asphalt and Brown clay mix		···	no odor	·
		3 '								
		6'	,							
		8'-		CL		No odor			, , , , , , , , , , , , , , , , , , ,	
		9'				Light brown cl	ay with	a trace of fi	ne gravel, damp, stiff	
		11'-								
		13'-		,						

LAYTON ENVIRONMENTAL  DNSULTANTS, INC.  PROJECT NO. 27399.00  CLIENT Valley Nissan/Dodge LOCATION 5787 Scarlett Court, Dublin, EXPLORATORY BORING LOGGED BY D. Dastmalchi/L. Compton DRILL							DATE 1-23-90 BORING No MW-4							
							ER Dat	a um	She	et 2 2				
Field Lo	cation of B	· · · · · · · · · · · · · · · · · · ·							0.5					
						-	8 mc ( no c	8" Hollow	Hole Dia.	8"				
Ground E	lev.:	. Datum:		•		<del></del>	Casing	installai	ion Data	See Figu	re 6			
					******									
		D E	S A	Soil Group	Litho- Graphic	Water Lavel								
Blow Counts	- PID OVA	P T H	M P L	Symbol (uscs)	Symbol	Time								
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Blow Counts	PID	D E P	S A M	Soit Group Symbol	Litho- Graphic Symbol	Water Level						
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		2'-						V) 110 1100 11				
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		5.		CL								
						Dark gray clay	, low pl	asticity, dar	np, gas	aline ode	D.t.	
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		8,							<u> </u>			
		9'-									·	
	<u> </u>					No gasoline ode	ır at 9'					
	· ·	10'				Medium brown s	ilty cla	y, soft, damp	o, mode	rate plas	sticity	
		-				Boring termina	ed at 1	)', no ground	lwater	encounter	ed	
		11'-						, , , , , , , , , , , , , , , , , , ,				·
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CLAYTON ENVIRONMENTAL-PROJECT NO 27399 00 COVSULTANTS, NC. DATE 1-23-90 BORING No BH-2 CLIENT Valley Nissan/Dodge

COCATION 5787 Scarlett Court, Dublin, California

LOGGED BY D Dastmalchi/L Compton DRILLER Datum LOG OF Sheet 1 EXPLORATORY BORING Datum Field Location of Boring: Drilling method 6" Hollow Stem Auger Hole Dia 6" Casing Installation Data N/A Ground E'ev. . Datum: Soil Litho-Water Level E Α Group Graphic Blow 910 p M Symbol Symbol Time Counts 07A T (uscs) Date DESCRIPTION 8" asphalt and packing materials 1'-Dark gray to black clay with sand and gravel, moist CL2'-Slight gasoline odor 3'-Drilling terminated at 3' 5 -10'-11 '-121-13'-14 '-

PROJECT NO 27399 00  CLIENT Valley Nissan/Dodge LOG OF EXPLORATORY BORING LOGGED BY D Dastmalchi/L Compton DRil							R <u>Da</u>	ia tum	BORING No BH-3  Sheet 1 of 1			
Ground E		Boring					Orillir Casing	ng method <u>6"</u> !nstaliatro	Hollow In Data	Stem Au Hole Dia N/A	ger . 6"	
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~~~~	7				Casing Installat	ion Data N/A	<del></del>		
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Clayton Environmental Consultants, Inc.

# APPENDIX D LABORATORY RESULTS AND CHAIN-OF-CUSTODY

## Clayton Environmental Consultants, Inc.

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

February 6, 1990

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

> Client Ref. No. 27399.00 Work Order No. 9001199 Lab Client Code INT\_EEP

Dear Mr. Dastmalchi:

Attached is our analytical laboratory report for the samples received on January 23, 1990. 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

Attachments

Page 2 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: BH-1-4 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-01A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene	71-43-2	200	100
Toluene	108-88-3	ND	100
Ethylbenzene	100-41-4	1,700	100
Xylenes	1330-20-7	400	100
Gasoline		88,000	6000

ND = Not detected at or above limit of detection

Page 3 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: BH-1-9.5 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEF

Sample Matrix: SOIL Lab No.: 9001199-02A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene	71-43-2 108-88-3	320 11	5 5
Ethylbenzene Xylenes Gasoline	100-41-4 1330-20-7	140 68 3,800	5 5 300

Page 4 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-1-5.5 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-03A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene	71-43-2 108-88-3	ND 200	100 100
Ethylbenzene Xylenes Gasoline	100-41-4 1330-20-7	2,100 600 89,000	100 100 100 6000

Page 5 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-1-10.5 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-04A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene Ethylbenzene Xylenes Gasoline	71-43-2 108-88-3 100-41-4 1330-20-7	ND 15 ND ND ND	5 5 5 5 300

Page 6 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-1-15.5 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-05A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes	1330-20-7	ND	5
Gasoline		ND	300

Page 7 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-2-3 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-06A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene	71-43-2 108-88-3	700 2,700	500 500
Ethylbenzene Xylenes Gasoline	100-41-4 1330-20-7	1,300 4,600 40,000	500 500 30000

Page 8 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-2-9.5 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-07A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
	71 42 2	9 000	5000
Benzene	71-43-2	8,000	5000
Toluene	108-88-3	ND	5000
Ethylbenzene	100-41-4	17,000	5000
Xylenes	1330-20-7	6,000	5000
Gasoline		760,000	300000

Page 9 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-2-14.5 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-08A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene Ethylbenzene Xylenes	71-43-2 108-88-3 100-41-4 1330-20-7	220 100 450 400	50 50 50 50
Gasoline		44,000	3000

Page 10 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-3-4.5 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-09A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene	71-43-2 108-88-3	ND 600	5 5
Ethylbenzene Xylenes Gasoline	100-41-4 1330-20-7	ND 8 1,400	5 5 300

Page 11 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-3-9.5 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-10A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene Ethylbenzene Xylenes	71-43-2 108-88-3 100-41-4 1330-20-7	ND 16 ND ND	5 5 5 5
Gasoline		ND	300

Page 12 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-3-15 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-11A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene	71-43-2 108-88-3	ND 25	5 5
Ethylbenzene Xylenes Gasoline	100-41-4 1330-20-7	ND ND ND	5 5 300

Page 13 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-4-5.5 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-12A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene Ethylbenzene Xylenes Gasoline	71-43-2 108-88-3 100-41-4 1330-20-7	ND 170 ND ND ND	5 5 5 5 300

Page 14 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-4-9.5 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-13A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene Ethylbenzene Xylenes Gasoline	71-43-2 108-88-3 100-41-4 1330-20-7	ND 22 ND ND ND	5 5 5 300

Page 15 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: BH-4-4 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-14A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene Ethylbenzene Xylenes Gasoline	71-43-2 108-88-3 100-41-4 1330-20-7	23 170 ND 9 2,300	5 5 5 5 300

Page 16 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: BH-4-8.5 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-15A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene	71-43-2	82	5
Toluene	108-88-3	12	5
Ethylbenzene	100-41-4	290	5
Xylenes	1330-20-7	200	5
Gasoline		8,300	300

Page 17 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: BH-5-5 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-16A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene	71-43-2 108-88-3	ND 75	5 5
Ethylbenzene Xylenes Gasoline	100-41-4 1330-20-7 	ND ND	5 5 300

Page 18 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: BH-5-10 Client: VALLEY NISSAN

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-17A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene Toluene	71-43-2 108-88-3	ND 64	5 5
Ethylbenzene Xylenes Gasoline	100-41-4 1330-20-7	ND ND ND	5 5 300

Page 19 of 19

#### EPA METHOD 8015/8020 GASOLINE/BTEX

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

Sample Received: 01/23/90 Client Ref. No.: 27399.00

Sample Analyzed: 02/04/90 Lab Client Code: INT\_EEP

Sample Matrix: SOIL Lab No.: 9001199-18A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes	1330-20-7	ND	5
Gasoline		ND	300

# ENVIRONMENTAL

(201) 225-6040

(404) 499-7500

## REQUEST FOR LABORATORY

CONSULTANTS	<b>ANALYTICAL SERVICES</b>
A Marsh & McLennan Company	

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For Clayton Use	Only Page		.a <u>.2</u>	
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Client No.				
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	ourt:	s riequired.		Rush Char	ges Autho	orized	? ☐ Yes	D No						ANA	LYSIS	REQUE	STED				
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(415) 426-2600

- Client Retains

PINK

### Clayton ENVIRONMENTAL CONSULTANTS

## REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Clayton Use O	nly Page
Project No.	
Batch No.	9001439
Client No.	
Date Received	123/90 By TB
Date Logged In	124/90 By TS

A Marsh & McLennan Company

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	City, State, Zip	T					Telepi	hone N	o					Telefa	x No.			
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Special Instructions: (method, limit of detection, phone results, rush results, etc.)  Saylar flow I al Ked End.  * Explanation of Preservative:					Number of Containers		18,	(V)./							/,			
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CUSTO				Date/Time		Recei	ved at I	lab by:			4		full		- 1 -	/Time	1/23	90
(ii require	ed) Method of Shipment:					Sampi 	e cond	ition up	o <del>n re</del> ce	i <u>p</u> t:	/ "		-		<del></del> -	/		5:10 pm
Authorize				Date	_													
<del></del>	(Client Signature <u>Must</u>																	
Please r	eturn completed form and samples to	one of the C	Slayton Enviror	imental Con	sultants, inc. lab	s listed	below:	;					DISTE	RIBUTI	ON:			<del></del>

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

#### Clayton Environmental Consultants, Inc.

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

January 31, 1990

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

> Client Ref. No. 26389.00 Work Order No. 9001223 Lab Client Code INT\_EEP

Dear Mr. Dastmalchi:

Attached is our analytical laboratory report for the samples received on January 26, 1990. 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,

May A. Buck for Ronald H. Peters, CIH

Manager, Laboratory Services

Western Operations

RHP/tb

Attachments

Page 2 of 6

#### EPA METHOD 8015/8020 GASOLINE/BTEX

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

Sample Received: 01/26/90 Client Ref. No.: 26389.00

Sample Analyzed: 01/30/90 Lab Client Code: INT\_EEP

Sample Matrix: WATER Lab No.: 9001223-01A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene Toluene Ethylbenzene Xylenes Gasoline	71-43-2 108-88-3 100-41-4 1330-20-7	ND ND 1.0 1.0	0.4 0.3 0.3 0.4 50

Page 3 of 6

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-2 Client: VALLEY NISSAN

Sample Received: 01/26/90 Client Ref. No.: 26389.00

Sample Analyzed: 01/30/90 Lab Client Code: INT\_EEP

Sample Matrix: WATER Lab No.: 9001223-02A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene	71-43-2	3,900	4
Toluene	108-88-3	14	3
Ethylbenzene	100-41-4	540	3
Xylenes	1330-20-7	540	4
Gasoline		8,300	500

Page 4 of 6

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-3 Client: VALLEY NISSAN

Sample Received: 01/26/90 Client Ref. No.: 26389.00

Sample Analyzed: 01/30/90 Lab Client Code: INT\_EEP

Sample Matrix: WATER Lab No.: 9001223-03A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene	71-43-2	ND	0.4
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes	1330-20-7	ND	0.4
Gasoline		ND	50

Page 5 of 6

#### EPA METHOD 8015/8020 GASOLINE/BTEX

Sample I.D.: MW-4 Client: VALLEY NISSAN

Sample Received: 01/26/90 Client Ref. No.: 26389.00

Sample Analyzed: 01/30/90 Lab Client Code: INT\_EEP

Sample Matrix: WATER Lab No.: 9001223-04A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene Toluene Ethylbenzene Xylenes Gasoline	71-43-2 108-88-3 100-41-4 1330-20-7	ND ND ND ND ND	0.4 0.3 0.3 0.4 50

Page 6 of 6

#### EPA METHOD 8015/8020 GASOLINE/BTEX

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

Sample Received: 01/26/90 Client Ref. No.: 26389.00

Sample Analyzed: 01/30/90 Lab Client Code: INT\_EEP

Sample Matrix: WATER Lab No.: 9001223-06A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene Toluene Ethylbenzene Xylenes	71-43-2 108-88-3 100-41-4 1330-20-7	ND ND ND ND	0.4 0.3 0.3 0.4
Gasoline		ND	50

Clayton
ENVIRONMENTAL
CONSULTANTS

# REQUEST FOR LABORATORY ANALYTICAL SERVICES

	•
For Clayton Use Only Page _	of
Project No. 900/22	3
Batch No.	<del></del>
Client No.	
Date Received 1/26/90	By 🕳
Date Logged in	By V

A Marsh & McLennan Company

	A Marsii & McCennan Company		\/ <b>x</b>	11 -V 11.		. 1				1-			7//		-+=		
Purchas	e Order No.	Client Job No. 🧳	12356	LLEYNI		1 11			_,_			din C			Ву	<u> </u>	
	Name Darl'ush Dastmale	hi.	12-207	00	REPORT RESULTS TO	Nam	e /_/	arru	14/	asi	ma	LCM	Title	<u>e</u>		<del></del>	
950	Company Clayfon			Dept.	18.5	Com	pany					<del></del>	<del></del>			Dept	EE
SEND INVOICE TO	Address	<del></del>		Pept. 20	ᅥᄛᆢ	Mail	ing Add										
=	City, State, Zip				┦ ᄠ ᄣ	City,	State, 7										
Date Re		Charges Authorize			<del> </del>	Tele	phone N	lo.					Telefa	ıx No.			
			∐ Yes	🕱 No		/Ent	ar an W	i- 4h- b		ANA	LYSIS	REQUE	STED				
Special	instructions: (method, limit of detection, phor	ne results, rush res	uits, etc.)	<del></del>	1	1	CI AII A	In the E	ox beid	W to in	cicate i	request	; Enter a	a 'P' if P	reserv	ative add	led*)
	ation of Preservative: Results b Ps Hil MW-2 Could	J 2/5/90 I le high	2/9/9		Number of Containers		0/6						/,	/,	/,	//	
1 (1)	CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	<u> </u>	10	K 77									F	OR LAB
NW	-1 -2 -3 4 Blank (05/889)	1/26/90	water	940ml	2	ρX									<u> </u>		1 17
MW.	-2	1		1	2	ρX	<del>                                     </del>	<b> </b>	<u> </u>		<del> </del>	<del> </del>	<del>  </del>	<b> </b>	<del> </del>	011	A,B
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Trop	Blank (05/889)	V	V		1	委	X				<u> </u>				<b> </b> -	04	<u> </u>
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CHAIN			i 														
CHAIN OF	Relinquished by: Marish Oash	valetor	Date/Time	1/26/90 2:30	Becei	ved hv	 ·	<del></del>			, — J	111					
CUSTOD	Y Relinquished by:		Date/Time				lab by:	- L		4 K	h			Date/	/Time_	11 .	<del></del>
(if require	d) Method of Shipment:				Sampl	e cond	lition up	on rece	ace, 1					Date/	/Time	126/9	o 2:30 FM.
Authorize	(Client Signature Must Accompa	iny Request)	Date	<del></del>	954	УLA ·	ege h	LUMB	SPAC	E		(	) <i>[</i>	2			F~7.
Please re	turn completed form and samples to one of t	he Clayton Enviror	mental Con-	Sultante Inc. Inc.	lietad	hala						<del></del>					
2234	5 Roethel Drive Raritan Center	400 Chastain C	onter Blud	N.W. 1050 C		Delow:	•				1 1	JISTR	BUTIC	ON:			

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

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# APPENDIX E WATER SAMPLING SURVEY FORMS

#### WATER SAMPLING FIELD SURVEY FORM

Job # <u>27399.00</u>	Site: _Val	lley Nissan	/Dodge	Date:	1-26-90
Well # <u>MW-1</u>	Sampling Te	eam: D.	Dastmalchi		
Sampling Method:	Purge with	n electric	pump sample with	h teflon bailer	
Field Conditions:	Sunny and	i mild			
	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
Describe Equipment	t D-Con Befo	ore Samplin	ng This Well:	TSP wash and r	inse with dionized_
water					
Watal Danth				Depth to Water	
Total Depth of Well: 15-25	feet	: Time:	10:00	Before Pumping	
		Dia	nmeter	F	urge
Volume Height of		2-inch			actor To Purge
Water	feet *	. 16		.76 gal * 4	
Depth Purging From		eet	Time Surging		
Doğum tangıng tisi					
Notes on Initial	Discharge:				
				_	
	ume Purged	рН	Conductivity		Notes
12:05 10		7.0	7,800	19	Clear
12:15 15	<del> </del>	7.0	7,800	_19	Clear, pumped dry
12:30 20	·	7.0	7,800		Clear
1:05 25	<del></del>	7.0	7,800	19	Clear
1:15 30		7.0	7,800_	_19	Clear

### WATER SAMPLING FIELD SURVEY FORM (CONTINUED)

Time Field Parameter Measuren	ent Begins: <u>1</u>	: 17	,	
	Rep #1	Rep #2	Rep #3	Rep #4
На	6.8	7.0	7.0	7.0
Conductivity	7800	7800	7800	7800
т°с	19	19	19	19
Pre-Sample Collection Gallons Time Sample Collection Begins Time Sample Collection Ends: Total Gallons Purged: 31 Comments:	1:17	,		
Commerces,				
	· · · · · · · · · · · · · · · · · · ·			

# CLAYTON ENVIRONMENTAL CONSULTANTS, INC. WATER SAMPLING FIELD SURVEY FORM

Job # 27399.00 Site:	Valley Nissa	n/Dodge	Date:	1-26-90
Well # MW-2 Sampl	ing Team: <u>I</u>	). Dastmalchi	·····	
Sampling Method: Purg	e with electric	pump sample wi	th teflon baile	er
Field Conditions: Sun	ny and mild	aran me		
<u> </u>				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				······
Describe Equipment D-Co	n Bafara Campli	ino Thic Well:	TCD wash and	ringe with dianized
	n berore sampri	ing inis well:	15F Wash and	IIIISE WICH WIGHIZER
water				,
Total Depth	·		Depth to Wate	er
of Well: 16.55	_ feet Time:	9.43	Before Pumpin	
	Di	iameter		Purge
Volume Height of	2-inch	<del> </del>	lume	Factor To Purge
Water Column: 11.96 feet			7.74 gal *	
Depth Purging From:	feet	Time Surgin	g Begins: 10:	20
	. <u>.                                   </u>		-	
Notes on Initial Discha	rge: Slight g	gasoline odor, m	uddy, turbid	
Time Volume Pu		Conductivit		Notes
10:20 10	6.8	11,200		Clear
10:25 20	6.8	11,500		Clear
10:40 25	6.8	4,300	19	Clear, pumped dry
11:05 30	6.8	4,300	19	Clear, pumped dry
	<del></del>			

### WATER SAMPLING FIELD SURVEY FORM (CONTINUED)

Time Field Parameter Measu	rement Begins:	12:45		
	Rep #1	Rep #2	Rep #3	Rep #4
рН	6.8	6.8	6.8	6.8
Conductivity	4,200	4,200	4,200	4,200
T°C	19	19	19	19
Pre-Sample Collection Gal: Time Sample Collection Beg Time Sample Collection End Total Gallons Purged: 31 Comments:	gins: 12:45	<del></del>	•	, , ,
				,

# CLAYTON ENVIRONMENTAL CONSULTANTS, INC. WATER SAMPLING FIELD SURVEY FORM

Job # 27399.00 Site: Val1	ey Nissan/I	odge	Date: 1	-26-90
Well # <u>MW-3</u> Sampling Tea	m: <u>D. I</u>	Dastmalchi		<del></del>
Sampling Method: Purge with	electric pu	mp sample with tef	lon bailer	
Field Conditions: Sunny and	mild			
			· · · · · · · · · · · · · · · · · · ·	,
Describe Equipment D-Con Befor	e Sampling	This Well: TSP	wash and rin	se with dionized
water			, <u></u>	
	<del></del>			
Total Depth of Well: 14.10 feet	Time: 9		h to Water re Pumping:	<u>4.55</u> feet
	Diame	eter	Pur	ge
Volume Height of	2-inch	4-inch Volume	Fac	tor To Purge
Water Column: 9.55 feet *	.16	.65 = <u>6.21</u>	gal * 5	= 31.03
Depth Purging From: fee	t	Time Surging Begin	ns: <u>10:35</u>	
Notes on Initial Discharge:	Turbid	· · · · · · · · · · · · · · · · · · ·		
Time Volume Purged	рН	Conductivity	т	Notes
Time Volume Purged 10:40 10	р <b>Н</b> 7.0	Conductivity 3,800	T	Notes Turbid, pumped dry
			<del></del>	
10:40 10	7.0	3,800	19	Turbid, pumped dry
10:40 10 10:55 15	7.0	3,800	19	Turbid, pumped dry
10:40     10       10:55     15       10:57     20	7.0	3,800 3,200 3,200	19 19 19	Turbid, pumped dry Clear Clear

### WATER SAMPLING FIELD SURVEY FORM (CONTINUED)

Time Field Parameter Measur	rement Begins:	12:25		
	Rep #1	Rep #2	Rep #3	Rep #4
рН	7.2	7.2	7.2	7.2
Conductivity	3,200	3,200	3,200	3,200
T°C		19		_19
Pre-Sample Collection Galle Time Sample Collection Beg: Time Sample Collection End: Total Gallons Purged: 36  Comments:	ins: 12:25 s: 12:30			
			,	
			-	

#### WATER SAMPLING FIELD SURVEY FORM

Job # 27399	9.00 Site:	Valley Nis	san/Dodge	Date:	1-26-90
Well # MW-	<u>-4</u> Sampling	g Team:	D. Dastmalchi		. , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Sampling Me	thod: Purge	with electr	ic pump sample wi	th teflon baile	r
Field Condi	tions: Sunny	and mild			
		· · · · · · · · · · · · · · · · · · ·			
				mon and and	
•	uipment D-Con i	serore Samp.	ling This Well:	TSP wash and	rinse with dionized
water					
Total Depth of Well:		feet Time	: 9:40	Depth to Wate Before Pumpin	
			_ •	•	_
Volume		<del></del>	Diameter		Purge
Height of Water		<u>2-in</u>			Factor To Pur
Column: 1			_	9.75 gal *	5 = 48.75
Depth Purgi	ng From:	_ feet	Time Surgin	ng Begins:	
Notes on In	itial Discharg	e:			
Time	Volume Purge	ed pH	Conductivit	тт	Notes
11:35	10	7.2	4,400		Clear
11:37	20	6.4	4,600	19	Clear
11:40	30	7.2	4,400		Clear
11:45	40	7,2	4,400		Clear
11:50	50	7.2	4,400	19	Clear

### WATER SAMPLING FIELD SURVEY FORM (CONTINUED)

Time Field Parameter Measurement Begins: 11:52				
	Rep #1	Rep #2	Rep #3	Rep #4
рн	7.0	7.0	7.0	7.0
Conductivity	4,600	4,400	4,400	4,400
т°С	19	19	19	19
Pre-Sample Collection Gallo Time Sample Collection Begi Time Sample Collection Ends Total Gallons Purged: 51 Comments:	ns: 1:52 : 12:00	ı		-
-				