ATT

Aqua Terra Technologies
Consulting Engineers
& Scientists

2950 Buskirk Avenue
Suite 120
Walnut Creek, CA
94596
415 934-4884

90 APR -4 AM 10:36

March 29, 1990

Mr. Gill Wister
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Workplan for Soil Remediation and Monitoring Well Reinstallation for the Property at
7400 Amador Valley Boulevard
Dublin, CA
(Job No. 9115)

Dear Mr. Wister:

The following work plan for soil excavation and remediation and monitoring well removal and reinstallation for the property at 7400 Amador Valley Boulevard in Dublin, California is hereby submitted. The work plan was prepared in accordance with the San Francisco Bay Region of the Regional Water Quality Control Board (RWQCB) Staff Recommendations for Initial Investigation of Underground Fuel Storage Tanks, the California Leaking Underground Fuel Tank (LUFT) Task Force LUFT Field Manual (October, 1989) guidelines, the California Department of Health Services (DHS) regulations as outlined in Title 22 and Title 23 of the California Code of Regulations (CCR), the requirements of the Alameda County Health Care Services Agency (ACHSA) as outlined in our March 22, 1990 meeting, and the guidelines of the Alameda County Water District (February, 1990 revision).

INTRODUCTION

Scope of Work

Aqua Terra Technologies, Inc. (ATT) will conduct an investigation to determine the areal extent of the potential impacts to soil and groundwater from underground fuel (gasoline) storage tanks removed from the subject property. This investigation will involve the removal of gasoline contaminated soil from the former tank excavation with on site treatment of the soil by aeration and the removal and reinstallation of a groundwater monitoring well.

Site Background

The subject property is in the City of Dublin at the southeast corner of the intersection of Village Parkway and Amador Valley Boulevard (Plates 1 and 2, Attachment A). The subject property is the site of the former Dutch Pride Dairy facility. The subject property is presently unoccupied and vacant. Future plans call for the removal of the present building and the construction of a new building.

The tank removal plan was approved by the ACHCSA on December 5, 1989 and the Dougherty Regional Fire Authority on January 9, 1990. A written notice for tank removal was submitted to the Bay Area Air Quality Management District (BAAQMD).

Prior to tank removal, 2,800 gallons of gasoline and water were removed from the tanks by H and H Ship Service Company. Tank removal was conducted by Tom Daniels Excavating, Inc. of Danville, California. ATT collected soil and groundwater samples from the excavation immediately after tank removal. Two, 10,000 gallon underground steel gasoline tanks were removed from the subject property on January 11, 1990; holes occurred at the bottom and near the end of both tanks. An underground storage tank unauthorized release (leak) contamination report was filed on February 2, 1990. Copies of the appropriate permits and manifests are included in Attachment B.

Approximately 100 cubic yards (cu yds) of gasoline contaminated soil was removed. This soil was stockpiled on visqueen, next to the excavation and subsequently covered (Plate 3, Attachment A). Four samples from the soil stockpile were collected and composited. Four soil samples were collected from the removed tank excavation at the former tank ends (Plate 3, Attachment A). Two water samples were collected from the excavation.

The composite soil sample, four soil samples from the excavation, and water samples were submitted to a DHS certified laboratory, with the appropriate chain of custody form. The samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline and benzene, toluene, ethylbenzene, and xylene (BTEX).

Chemical analyses of the soil samples indicate that TPH gasoline concentrations ranged to 6,000 mg/kg (Table 1,

Attachment C). The DHS certified laboratory data sheets are included in Attachment D. A summary report for tank removal was submitted by ATT to Tom Daniels Excavating, Inc. on February 14, 1990 (Attachment E).

SITE DESCRIPTION

Geologic and Hydrogeologic Setting

The subsurface soil geology has been described in a soil and groundwater investigation (June 5, 1989) report by ENSCO Environmental Services, Inc. (ENSCO) for the adjacent property: the former Shell Service Station at 7194 Amador Valley Boulevard. ENSCO determined (via five exploratory borings and monitoring well installations which extend onto the former Dutch Pride Dairy site) that, to 17 and 18 feet below grade, the soils are primarily silty clays, interbedded with sandy clays, clayey sands, and sand. The more sandy beds are confined to the upper five to ten foot zone and may represent localized lenses or stringers.

In March, 1989, the shallow, unconfined, static groundwater table was measured by ENSCO from the groundwater monitoring wells on the former Shell Service Station site and surrounding properties; the static groundwater table ranged between 6.94 to 8.95 feet below the top of the well casings. Groundwater flow direction was toward the east and southeast near Village Parkway, and to the east at the former Shell Service Station site; the groundwater gradient over both sites is 0.002 feet per foot.

The static groundwater table on the former Dutch Pride Dairy site (from groundwater monitoring well MW-10) was at 8.95 feet below the top of the well casing. Groundwater flow was also toward the east.

Regional Setting

The subject property is in Alameda County in the City of Dublin, approximately 0.7 miles northeast from the intersections of Interstate Highways 580 and 680 (Plate 1, Attachment A).

Site Setting

The site is located at the southeast corner of the intersection of Village Parkway and Amador Valley

Boulevard (Plate 2, Attachment A). The subject property contains one building, formerly occupied by Dutch Pride Dairy.

Soil Contamination History

After removal of the underground fuel tanks, soil samples were collected, from the base of the excavation, and analyzed for TPH gasoline and BTEX. Chemical analyses from six soil samples and two groundwater samples indicated the presence of TPH gasoline in soils and possibly in groundwater (Table 1, Attachment C). TPH gasoline ranged to 6,000 mg/kg in soil in the excavation.

PROPOSED WORK PLAN

Methods for Determining Soil Contamination

Soils contaminated by TPH gasoline will be excavated from the former tank excavation. Excavation will proceed until TPH gasoline concentrations are below regulatory agency guidelines or to the property boundary. A portable photoionization device or Hnu meter will be used on site to determine initial TPH concentrations. Samples will be collected and submitted to a DHS certified laboratory, on a 48 hour turnaround, to verify remaining TPH concentrations.

Soil Sampling Methods and Procedures

Soil samples will be collected from the excavation, after re-excavation, to determine if sufficient contaminated soil has been removed. Samples will be collected from the bottom of the excavation and side walls; samples will be collected in accordance with the protocols outlined in Attachment F and in accordance with the protocols outlined by the Alameda County Water District guidelines (February, 1990 revision). Soil samples will be stored in a cooler with dry ice; groundwater samples will be stored in a cooler with bagged ice. Samples analyses will conform to the LUFT manual guidelines; sample methods and analyses are listed in Table 2 (Attachment C).

Soil Excavation and Treatment Methods

Contaminated soil will then be excavated from the former tank excavation using a track excavator. Excavated soils will be placed on 6 mil visqueen to be subsequently

aerated as per Regulation 8, Rule 40 of the Bay Area Air Quality Management District's (BAAQMD) guidelines. Permission to aerate will be obtained from the BAAQMD. ATT does not anticipate exceeding the soil hydrocarbon concentrations listed in BAAQMD Regulation 8, Rule 40.

ATT will collect and analyze representative samples (one per 20 cubic yards) to confirm initial hydrocarbon concentrations. Upon completion of the aeration, additional samples will be collected to confirm that hydrocarbon concentrations are below regulatory agency requirements. The treated soils will be transported to the appropriate landfill in accordance with federal, state, and local regulations.

Site Security

A gated and secured, chain link fence presently surrounds the present excavation. The fence will adequately provide continued site security.

Monitoring Well Location

Because of further excavation to remove TPH gasoline contaminated soils in the former fuel storage tank pit, will extend past groundwater monitoring well MW-10, the monitoring well will have to be removed. A new two-inch groundwater monitoring well will be reinstalled at the monitoring well MW-10 location (Plate 2, Attachment A) after the excavation has been backfilled.

Monitoring Well Removal and Construction

Monitoring well MW-10's removal will conform with regulatory agency requirements; either the entire well casing will be removed during excavation or the well will be pressure grouted prior to removal to ensure that the perforated interval is completely sealed. Monitoring well installation will conform to the protocol outlined in Attachment G.

Groundwater Sampling

A groundwater sample will be collected from the tank excavation after completion of the excavation work, if groundwater is encountered.

SITE SAFETY PLAN

A site safety plan for this investigation is presented in Attachment H.

ATT is completing this work plan at the request of Mr. George Callahan of G&L Construction. Please contact us if you have any questions or comments.

Sincerely,

AQUA TERRA TECHNOLOGIES, INC.

Terrance E. Carter
Senior Environmental Engineer
Project Manager

William E. Motzer, Ph.D.
Senior Hydrogeologist
California Registered Geologist #4202
(expires 6/30/90)

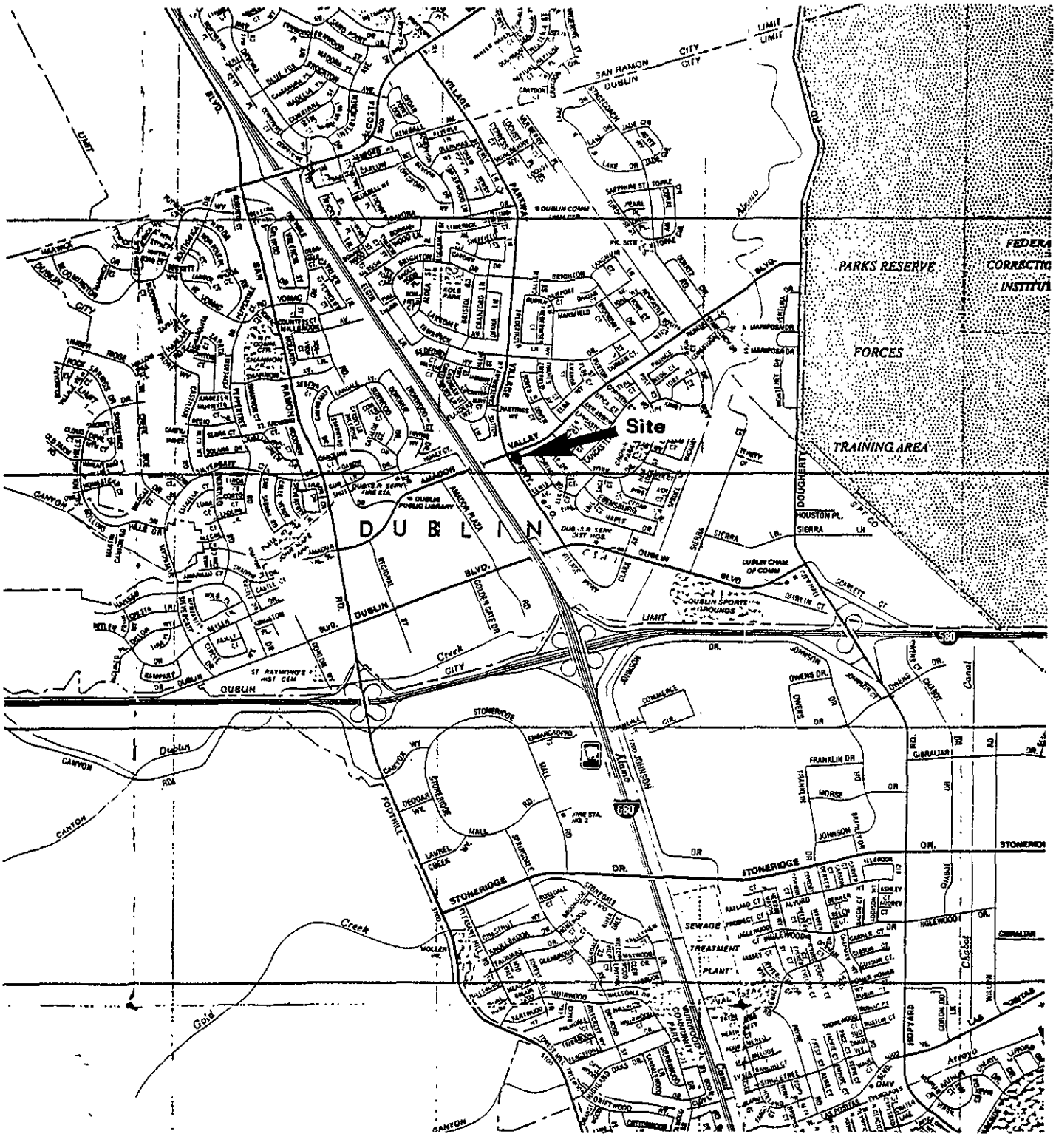
TEC/WEM:mp
Attachments

cc: Mr. Lester Feldman, RWQCB
Mr. George C. Callahan
Mr. James Harrow

9115/gw/032990/wp

ATTACHMENT A

Plates



Site Location

ATT Aqua Terra Technologies Consulting Engineers & Scientists	G&L Construction
JOB NUMBER 9115	DATE 3/90
PLATE 1	

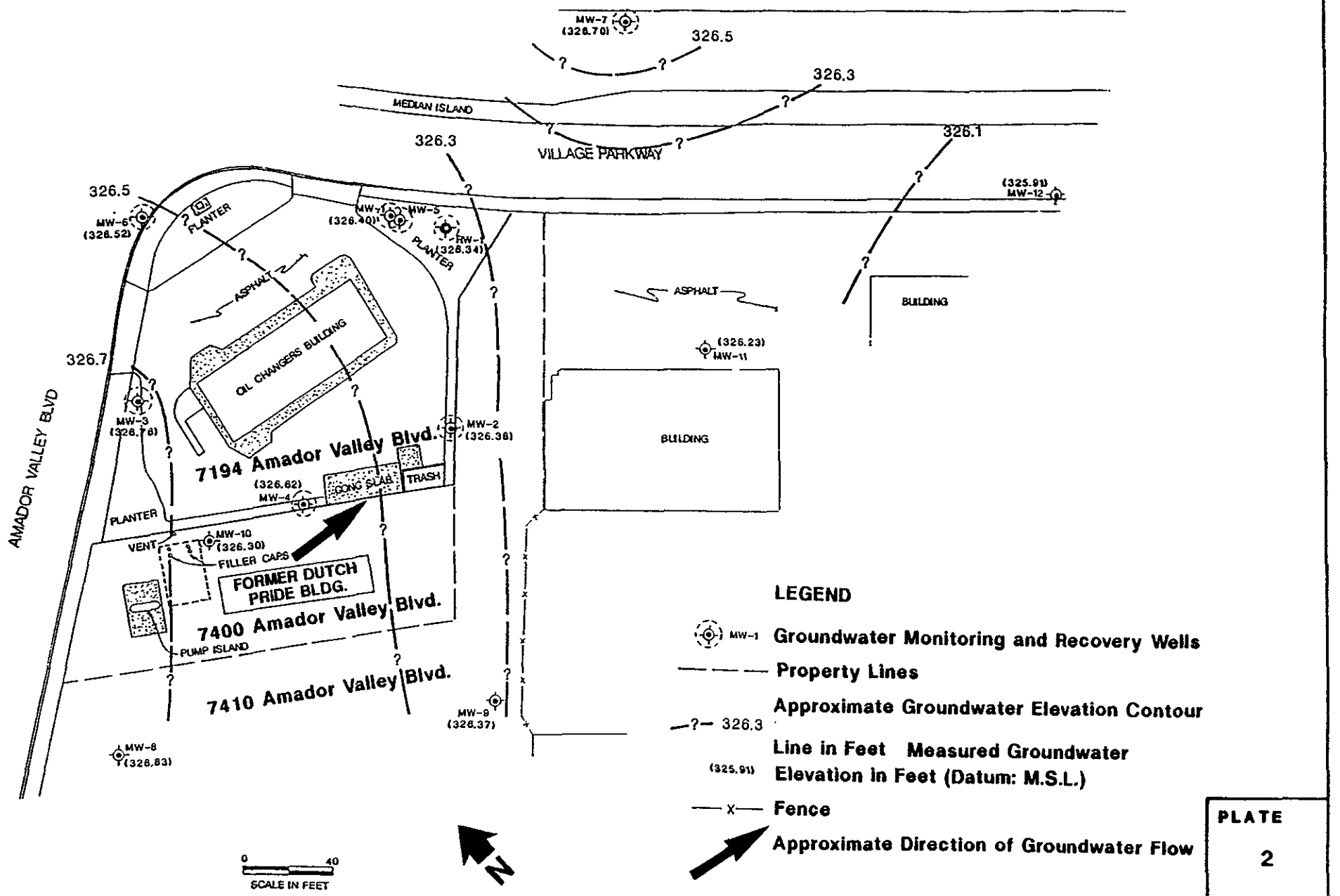


PLATE 2

ATT Aqua Terra Technologies Consulting Engineers & Scientists

Facility Location Map

G&L Construction

JOB NUMBER	DATE
9115	3/90

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 ELLIS STREET
SAN FRANCISCO CALIFORNIA 94109
(415) 771-6000

REGULATION 8, RULE 40
Aeration of Contaminanted Soil and Removal of Underground Storage Tanks

NOTIFICATION FORM

☐ Removal or Replacement of Tanks
☐ Excavation of Contaminated Soil

SITE INFORMATION

SITE ADDRESS 7400 Amador Valley Blvd.
CITY, STATE, ZIP Dublin, CA 94568
OWNER NAME Richard Dodge
SPECIFIC LOCATION OF PROJECT S. side Amador Valley Blvd. - W. of Valley

TANK REMOVAL

SCHEDULED STARTUP DATE Completed 01/12/90
VAPORS REMOVED BY:
[X] WATER WASH
[X] VAPOR FREEING (CO^2)
[ ] VENTILATION

CONTAMINATED SOIL EXCAVATION

SCHEDULED STARTUP DATE Not scheduled yet.
STOCKPILES WILL BE COVERED? YES X NO ____
ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW):
____
(MAY REQUIRE PERMIT)

CONTRACTOR INFORMATION

NAME Tom Daniels Excavating CONTACT Bob Castro
ADDRESS P.O. Box 335 PHONE (415) 820-3558
CITY, STATE, ZIP Danville, CA 94526

CONSULTANT INFORMATION
(IF APPLICABLE)

NAME Aqua Terra Technologies CONTACT Terry Carter
ADDRESS 2950 Buskirk PHONE (415) ____
CITY, STATE, ZIP Walnut Creek, CA 94596

FOR OFFICE USE ONLY

DATE RECEIVED ____ BY ____ (INIT.)
CC: INSPECTOR NO. ____ DATE ____ BY ____ (INIT.)
TELEPHONE UPDATE: CALLER ____ CHANGE MADE ____
BAAQMD N # ____

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter)*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

89493276

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAC001021176091 | Manifest Document No.: 00003

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
RICHARD & JEANNE DODGE
1120 Walker Avenue
Walnut Creek, CA 94956
4. Generator's Phone (415) 934-4884

JOB SITE: DUTCH PRIDE DAIRY
7194 Amador Valley B
Dublin, California

A. State Manifest Document Number: 89493276
B. State Generator's ID:

5. Transporter 1 Company Name: H & H Ship Service Company
6. US EPA ID Number: CAD041771168
C. State Transporter's ID: 003756
D. Transporter's Phone: (415) 543-4835

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
H & H Ship Service Company
220 China Basin Street
San Francisco, CA 94107
10. US EPA ID Number: CAD041771168
G. State Facility's ID: CAD041771168
H. Facility's Phone: (415) 543-4835

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. HAZARDOUS WASTE LIQUID, N.O.S. ORM-E NA 9189	001	TT	7800	G	State 241 / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
FUEL OIL AND WATER

K. Handling Codes for Wastes Listed Above
a. 01 b.
c. d.

15. Special Handling Instructions and Additional Information
APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.

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

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

GENERATOR

Printed/Typed Name: X RICHARD DODGE | Signature: X [signature] | Month Day Year: 10 11 19 0

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STEVE MESCUITE | Signature: [signature] | Month Day Year: 10 11 19 0

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

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: | Signature: | Month Day Year:

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

89493276

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

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

DOUGHERTY REGIONAL FIRE AUTHORITY

Date of Issue: 1/9/90 Date of Expiration: 1/11/90

TO WHOM IT MAY CONCERN

By Virtue of the Provisions of the Fire Prevention Code of the Dougherty Regional Fire Authority

Business: Aqua Terra Tech

Address: 2950 Buskirk Ave. #120
Walnut Creek, CA 94596

Having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the regulations can be observed, authority is hereby given and this permit is granted for:

Tank removal (2)
at 7400 Amador Valley Blvd.
Dublin, CA

This permit is issued and accepted on condition that all regulations now adopted, or that may hereafter be adopted, shall be complied with.

***This Permit does not take the place of any license required by Law and is not transferable. Any change in the use or occupancy of premises shall require a new Permit.**

THIS PERMIT MUST BE POSTED ON PREMISES.

HAROLD N. RITTER, FIRE CHIEF

Dougherty Regional Fire Authority
9399 Fircrest Lane
San Ramon Calif. 94583
Phone (415) 829-2333

Date 1-4-90
Invoice No. 90-102

Company Name Aqua Terra Tech
St. Address 2950 Buskirk Ave # 120
City/State Walnut Creek Ca.
Zip Code 94596

Fee for plan review/inspection
of:Tank Removal
Located at:7400 Amador Valley Blvd
In City ofDublin

Total Amount Due$ 75.00

Make Check Payable to: Dougherty Regional Fire Authority

Please include a copy of invoice with your remittance

Pd 1-11-90
ck # 350

ATTACHMENT B

Permits and Manifests

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 415/271-4320

~~89 NOV 34 PM 12:33~~ 89 DEC -5 AM 10: 4

Project # U552989
Amt Paid $498 -
Date 12/11/89

ACCEPTED 1/4/90

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 874-7237
gmw

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. [illegible] by this Department are [illegible] laws. The project [illegible] issuance of [illegible]

One copy of [illegible] be on the job and available to all contractors and craftsmen involved with the removal.

Any changes or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws.
Notify this Department at least 48 hours prior to the following required inspections:

_____ Removal of Tank and Piping
_____ Sampling
_____ Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

All piping must be removed with tanks

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. Business Name Dutch Pride Dairy
   Business Owner Richard and Jeanne Dodge
2. Site Address 7400 Amador Valley Blvd
   City Dublin, CA Zip ~~945__~~ 94568 Phone
3. Mailing Address 1120 Walker Ave
   City Walnut Ck, CA Zip 94596 Phone
4. Land Owner Richard and Jeanne Dodge
   Address 1120 Walker Ave City, State Walnut Ck CA Zip 94596
5. EPA I.D. No. CAC 000 217 609
6. Contractor Tom Daniels Excavating
   Address P.O. Box 335
   City Danville CA 94526 Phone 820-3558
   License Type A ID# 447475
7. Consultant Aqua Terra Technologies - Terry Carter
   Address 2950 Buskirk Ave, Suite 120
   City Walnut Ck, CA 94596 Phone 934-4884

8. Contact Person for Investigation

Name Kent Carter Title Prof. Manager

Phone 934-4284

9. Total No. of Tanks at facility 2

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

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Tranporter

Name [redacted] Refineries Service EPA I.D. No. CAD 093166728

Address 13331 N. Hwy 33, P.O. Box 1171

City Patterson State CA Zip 95363

b) Rinsate Transporter

Name _____ EPA I.D. No. _____

Address _____

City _____ State _____ Zip _____

c) Tank Transporter

Name [illegible] EPA I.D. No. [illegible]

Address [illegible]

City [illegible] State _____ Zip [illegible]

d) Tank Disposal Site

Name [illegible] EPA I.D. No. _____

Address _____

City _____ State _____ Zip _____

e) Contaminated Soil Transporter

Name Same as #C EPA I.D. No. _____

Address _____

City _____ State _____ Zip _____

12. Sample Collector

Name Terry Carter

Company Aqua Terra Tech.

Address 2950 Buskirk, Suite 120

City Walnut Ck State CA Zip 94596 Phone 284-[illegible]

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
10,000	GAS	SOIL	NATIVE SOIL AT EACH END
10,000	GAS	SOIL	" "

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

If yes, describe. _____

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

If yes, describe. Dry Ice - Under Fire Dept

An explosion proof combustible gas meter shall be used to verify tank inertness.

16. Laboratories

Name PACE

Address 11 DIGITAL DR

City NOVATO State CA Zip 94949

State Certification No. # 1418

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
GAS BTXE	TPH-GAS-EPA-5030 BTX&E-EPA-8020	

18. Submit Site Safety Plan

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

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

Name of Insurer [illegible]

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

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

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

a) Chain of Custody Sheets

b) Original Signed Laboratory Reports

c) TSD to Generator copies of wastes shipped and received

d) Attachment A summarizing laboratory results

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

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

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Saftey and Health Administration) requirements concerning personnel and safety.

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

Signature of Contractor

Name (please type) TOM DANIELS EXCAVATING, INC.

Signature Thomas A Daniels

Date 11/30/89

Signature of Site Owner or Operator

Name (please type) Richard and Jeanne Dodge

Signature Tony Carter for Richard and Jeanne Dodge per their approval

Date 11-29-89

AQUA TERRA TECHNOLOGIES SITE SAFETY PLAN

A. GENERAL INFORMATION

Site: Dairy

Location: 7400 Dublin Blvd., Dublin, CA

Plan Prepared By: T. C. Date: Nov 21, 89

Plan Approved By: Date:

Objectives: Collect Soil Samples - TANK Removal

Proposed Date Of Investigation:

Background Review: Complete: Preliminary: X

Documentation/Summary:

Overall Hazard: Serious: Moderate:
Low: X Unknown:

B. SITE/WASTE CHARACTERISTICS

Waste Type(s): Liquid: Solid: X Sludge: Gas:

Characteristic(s): Corrosive: Ignitable: Radioactive:
Volatile: X Toxic: Reactive: Unknown: Other(name):

Facility Description: See Site plan

Principal Disposal Method (type and location):

AQUA TERRA TECHNOLOGIES SITE SAFETY PLAN (continued)

Unusual Features (power lines, terrain, utilities, etc.:
None

Status: Active: Inactive: X Unknown:

History: (agency action, complaints, injuries, etc.)
N/A

C. HAZARD EVALUATION

Parameter:	TLV (ppm)	IDLH (ppm)	LEL (%)	HEALTH skin/eyes/inge/inha
	10	____	____	X

Special Precautions and Comments:
Gloves - NIOSH

D. SITE SAFETY WORK PLAN

Perimeter Establishment: Map/Sketch Attached: Yes
Site Secured: Yes

Perimeter Identified:

Zone(s) of Contamination Identified: No

Personal Protection:

Level of Protection: A____B_____C X D_____

Modifications: N/A

AQUA TERRA TECHNOLOGIES SITE SAFETY PLAN (continued)

Surveillance Equipment & Materials: N/A
Instrument: Action Level:

Site Entry Procedures: With Contractor

Decontamination Procedures: N/A

Personal:

Equipment:

First Aid: (type of equipment available): Level 1 kit Behind seat of Truck.

Work Limitations (time of day, weather, heat/cold stress): N/A

Investigation-Derived Material Disposal: N/A

AQUA TERRA TECHNOLOGIES SITE SAFETY PLAN (continued)

Team Composition: Terry Carter

Team Member	Responsibility
Terry Carter	Assure compliance of safety standards during sample collection. Monitor hydrocarbon levels (LEL) using LEL Meter (Gastech)

E. EMERGENCY INFORMATION

Local Resources:
Ambulance: 911
Hospital Emergency Room: 939-3000
Poison Control Center:
Police: 911
Fire Department: 911
Explosives Unit: 911
Agency Contact: National Response Center (NAC)
Toxic Chemical and Oil Spills:
(1-800-424-8802)

Site Resources:
Water Supply: N/A

Telephone:
Radio:
Other:

Emergency Contacts:

Name:	Phone:
[illegible]	[illegible]

Emergency Routes:
Hospital: [illegible]

Other:

Site Sketch: work zones, command post, etc.)
Attached.

ACORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)
11/27/89

PRODUCER

R & R INSURANCE BROKERS, INC.
313 LENNON LANE STE 100
WALNUT CREEK, CA 94598

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

CODE SUB-CODE

INSURED

TOM DANIELS EXCAVATING, INC.
P.O. BOX 335
DANVILLE, CA 94526

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A — TRANSCONTINENTAL INS.

COMPANY LETTER B — TRANSPORTATION INS.

COMPANY LETTER C — CNA CASUALTY OF CA.

COMPANY LETTER D

COMPANY LETTER E

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS IN THOUSANDS	
A	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS MADE X OCCUR. X OWNER'S & CONTRACTOR'S PROT.	#GL 9002800969	6/30/89	6/30/90	GENERAL AGGREGATE PRODUCTS-COMP/OPS AGGREGATE PERSONAL & ADVERTISING INJURY EACH OCCURRENCE FIRE DAMAGE (Any one fire) MEDICAL EXPENSE (Any one person)	$ 1,000, $ 1,000, $ 1,000, $ 1,000, $ 50, $ 5,-
B	AUTOMOBILE LIABILITY X ANY AUTO X ALL OWNED AUTOS X SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS GARAGE LIABILITY	#BUA200280671	6/30/89	6/30/90	COMBINED SINGLE LIMIT BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE	$ 1,000, $ $ $
	EXCESS LIABILITY OTHER THAN UMBRELLA FORM				EACH OCCURRENCE AGGREGATE	$ $
C	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY	#PWC 00280971	4/1/89	4/1/90	STATUTORY (EACH ACCIDENT) (DISEASE—POLICY LIMIT) (DISEASE—EACH EMPLOYEE)	$ 2,000, $ 2,000, $ 2,000,
	OTHER					

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

RE: ALL CALIFORNIA OPERATIONS OF THE NAMED INSURED.

JOBP: GNL INS. 7194 AMADOR VALLEY BLVD., DUBLIN, CA.

CERTIFICATE HOLDER

ALAMEDA CO. HEALTH DEPT
80 SWAN WAY #200
OAKLAND, CA 94612

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

ATTACHMENT C

Tables

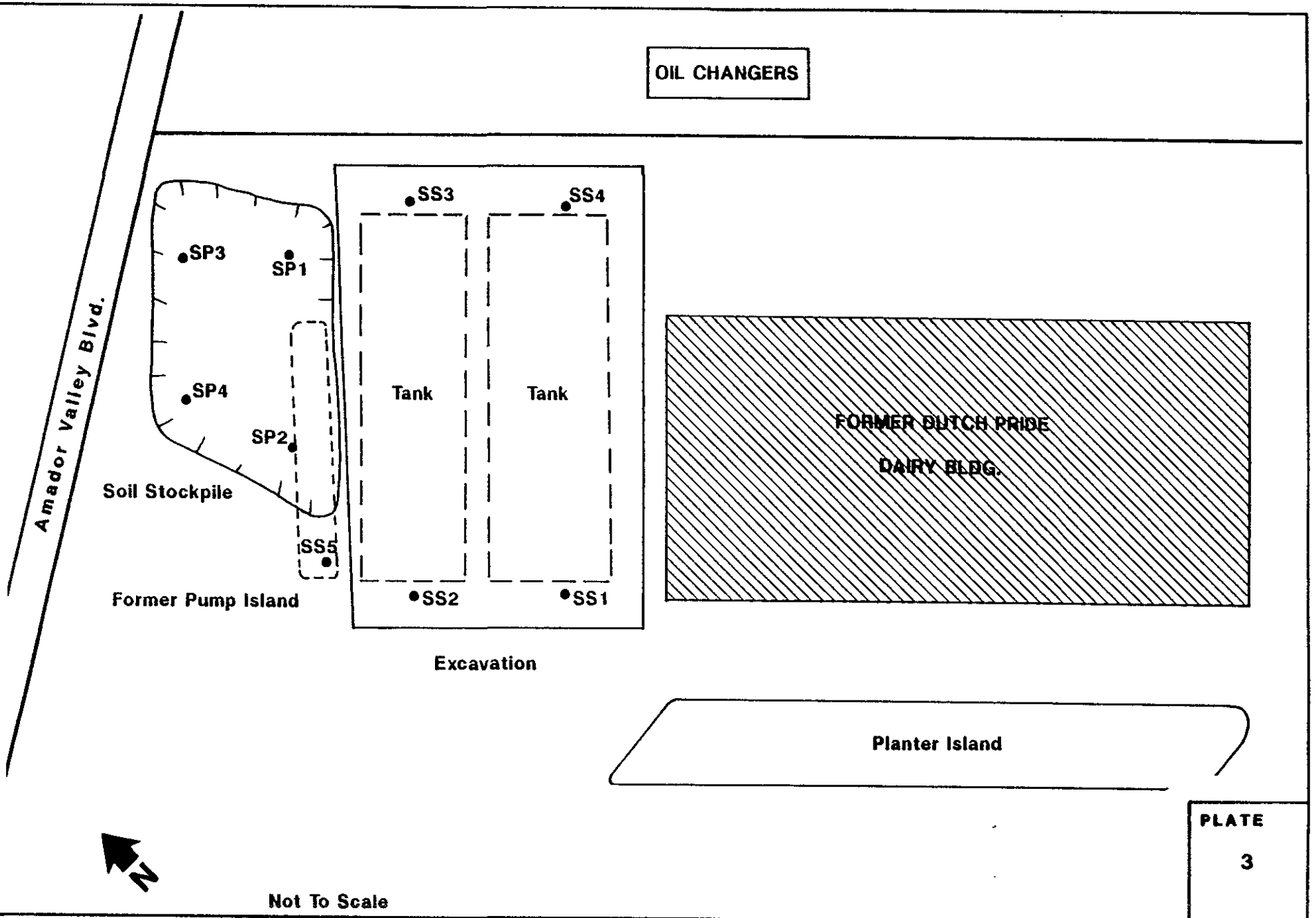


PLATE 3

ATT Aqua Terra Technologies Consulting Engineers & Scientists	Soil Excavation and Sample Locations	G&L Construction JOB NUMBER 9115 DATE 3/90

Table 1: Chemical Analyses for Gasoline Contaminated Soils and Pit Water
Dutch Pride Dairy Property
7400 Amador Valley Boulevard
Dublin, CA

Sample Number	Sample Location	TPH (mg/Kg)[a] Gasoline	B	T	E	X
SS1	Tank excavation	56.0	ND	1.2	1.0	6.6
SS2	Tank excavation	1,900.0	ND	20.0	31.0	150.0
SS3	Tank excavation	1,300.0	ND	8.2	24.0	80.0
SS4	Tank excavation	6,000.0	ND	ND	9.8	18.0
SS5	Tank excavation	ND	0.019	0.015	0.014	0.034
SP 1,2,3,4	Soil stockpile	750.0	ND	ND	ND	2.1
DPP PSI	Pit water	92.0	3.0	9.0	1.3	13.0
TB	Pit water	ND	ND	ND	ND	ND

Table 2. Laboratory[a] Analytical Methods and Detection Limits
7400 Amador Valley Boulevard
Dublin, CA

Matrix	TPH[b] Gasoline	Hydrocarbons[b] B	T	E	X
Soil	GCFID (5030)	8020	8020	8020	8020
Detection Limit (mg/Kg)	----	0.005	0.005	0.005	0.005
Water	GCFID (5030)	602	602	602	602
Detection Limit (mg/Kg)	----	0.5	0.5	0.5	0.5

a. Sample analyses to be conducted by a California Department of Health Services (DHS) Certified Laboratory
b. TPH = total petroleum hydrocarbons
B = benzene
T = tolene
E = ethylbenzene
X = xylene

ATTACHMENT D

DHS Certified Laboratory Data Sheets

ANAMETRIX INC
Environmental & Analytical Chemistry
1961 Concourse Drive, Suite E San Jose CA 95131
(408) 432-8192 • Fax (408) 432-8198

REPORT

Terry Carter
Aqua Terra Technologies
2950 Buskirk Avenue
Suite 120
Walnut Creek, CA 94596

January 17, 1990
Anametrix W.O.#: 9001103
Date Received : 01/12/90
Project Number : DPD

Dear Mr. Carter:

Your samples have been received for analysis. The REPORT SUMMARY lists your sample identifications and the analytical methods you requested. The following sections are included in this report: RESULTS.

NOTE: Amounts reported are net values, i.e. corrected for method blank contamination.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

ANAMETRIX, INC.

Terry Cooke
TPH Supervisor

TC/dmt

REPORT SUMMARY
ANAMETRIX, INC. (408) 432-8192

Client : Aqua Terra Technologies
Address : 2950 Buskirk Avenue
Suite 120
City : Walnut Creek, CA 94596
Attn. : Terry Carter

Anametrix W.O.#: 9001103
Date Received : 01/12/90
Purchase Order#: N/A
Project No. : DPD
Date Released : 01/17/90

Anametrix I.D.	Sample I.D.	Matrix	Date Sampled	Method	Date Extract	Date Analyzed	Inst I.D.
RESULTS							
9001103-01	PS1	WATER	01/12/90	TPHg		01/16/90	N/A
9001103-02	TB	WATER	01/12/90	TPHg		01/16/90	N/A
9001103-03	SS1	SOIL	01/11/90	TPHg		01/16/90	N/A
9001103-04	SS2	SOIL	01/11/90	TPHg		01/16/90	N/A
9001103-05	SS3	SOIL	01/11/90	TPHg		01/16/90	N/A
9001103-06	SS4	SOIL	01/11/90	TPHg		01/16/90	N/A
9001103-07	SP1,2,3,4	SOIL	01/11/90	TPHg		01/16/90	N/A
9001103-08	SS5	SOIL	01/11/90	TPHg		01/17/90	N/A

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: DPD PS1	Anametrix I.D.	: 9001103-01
Matrix	: WATER	Analyst	: CB
Date sampled	: 01/12/90	Supervisor	: TC
Date anl.TPHg	: 01/16/90	Date released	: 01/17/90
Date ext.TPHd	: N/A	Date ext. TOG	: N/A
Date anl.TPHd	: N/A	Date anl. TOG	: N/A

CAS #	Compound Name	Detection Limit (ug/l)	Amount Found (ug/l)
71-43-2	Benzene	250	3000
108-88-3	Toluene	250	9000
100-41-4	Ethylbenzene	250	1300
1330-20-7	Total Xylenes	500	13000
	TPH as Gasoline	125000	92000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: DPD TB	Anametrix I.D.	: 9001103-02
Matrix	: WATER	Analyst	: CB
Date sampled	: 01/12/90	Supervisor	: TC
Date anl.TPHg	: 01/16/90	Date released	: 01/17/90
Date ext.TPHd	: N/A	Date ext. TOG	: N/A
Date anl.TPHd	: N/A	Date anl. TOG	: N/A

CAS #	Compound Name	Detection Limit (ug/l)	Amount Found (ug/l)
71-43-2	Benzene	0.5	ND
108-88-3	Toluene	0.5	ND
100-41-4	Ethylbenzene	0.5	ND
1330-20-7	Total Xylenes	1	ND
	TPH as Gasoline	50	ND

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : DPD SS1
Matrix : SOIL
Date sampled : 01/11/90
Date anl.TPHg: 01/16/90
Date ext.TPHd: N/A
Date anl.TPHd: N/A

Anametrix I.D. : 9001103-03
Analyst : CB
Supervisor : TC
Date released : 01/17/90
Date ext. TOG : N/A
Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	500	ND
108-88-3	Toluene	500	1200
100-41-4	Ethylbenzene	500	1000
1330-20-7	Total Xylenes	500	6600
	TPH as Gasoline	10000	56000

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : DPD SS2
Matrix : SOIL
Date sampled : 01/11/90
Date anl.TPHg: 01/16/90
Date ext.TPHd: N/A
Date anl.TPHd: N/A

Anametrix I.D. : 9001103-04
Analyst : CB
Supervisor : TC
Date released : 01/17/90
Date ext. TOG : N/A
Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5000	ND
108-88-3	Toluene	5000	20000
100-41-4	Ethylbenzene	5000	31000
1330-20-7	Total Xylenes	5000	150000
	TPH as Gasoline	100000	1900000

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: DPD SS3	Anametrix I.D.	: 9001103-05
Matrix	: SOIL	Analyst	: CP
Date sampled	: 01/11/90	Supervisor	: TC
Date anl.TPHg	: 01/16/90	Date released	: 01/17/90
Date ext.TPHd	: N/A	Date ext. TOG	: N/A
Date anl.TPHd	: N/A	Date anl. TOG	: N/A

CAS #	Compound Name	Detection Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5000	ND
108-88-3	Toluene	5000	8200
100-41-4	Ethylbenzene	5000	24000
1330-20-7	Total Xylenes	5000	80000
	TPH as Gasoline	100000	1300000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: DPD SS4	Anametrix I.D.	: 9001103-06
Matrix	: SOIL	Analyst	: CB
Date sampled	: 01/11/90	Supervisor	: TC
Date anl.TPHg	: 01/16/90	Date released	: 01/17/90
Date ext.TPHd	: N/A	Date ext. TOG	: N/A
Date anl.TPHd	: N/A	Date anl. TOG	: N/A

CAS #	Compound Name	Detection Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5000	ND
108-88-3	Toluene	5000	ND
100-41-4	Ethylbenzene	5000	9800
1330-20-7	Total Xylenes	5000	18000
	TPH as Gasoline	100000	600000

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: DPD SP1,2,3,4	Anametrix I.D.	: 9001103-07
Matrix	: SOIL	Analyst	: CB
Date sampled	: 01/11/90	Supervisor	: TC
Date anl.TPHg	: 01/16/90	Date released	: 01/17/90
Date ext.TPHd	: N/A	Date ext. TOG	: N/A
Date anl.TPHd	: N/A	Date anl. TOG	: N/A

CAS #	Compound Name	Detection Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	500	ND
108-88-3	Toluene	500	ND
100-41-4	Ethylbenzene	500	ND
1330-20-7	Total Xylenes	500	2100
	TPH as Gasoline	10000	75000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : DPD SS5
Matrix : SOIL
Date sampled : 01/11/90
Date anl.TPHg: 01/17/90
Date ext.TPHd: N/A
Date anl.TPHd: N/A

Anametrix I.D. : 9001103-08
Analyst : CB
Supervisor : TC
Date released : 01/17/90
Date ext. TOG : N/A
Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	19
108-88-3	Toluene	5	15
100-41-4	Ethylbenzene	5	14
1330-20-7	Total Xylenes	5	34
	TPH as Gasoline	1000	ND

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ATTACHMENT E

Tank Removal Summary Report

February 14, 1990

Tom Daniels Excavating, Inc.
259 Lander Place
San Ramon, CA 94583

Attn: Betty Castro

Subject: Summary Report for Tank Removal at
7400 Amador Valley Blvd.
Dublin, California.
(Project No. 9115.1)

Dear Mrs. Castro:

Aqua Terra Technologies, Inc. (ATT) is pleased to submit the following summary regarding the results of soil samples collected from a tank removal at the above address.

Soil and groundwater sample analysis results are given in Attachment A, with an accompanying field sketch showing where the samples were taken. Soil and groundwater samples were collected according to sampling and handling protocols given in Attachment B. In response to the holes in the tanks, a Fuel Tank Release Form was filed with the appropriate agencies, (Attachment C).

Copies of the tank disposal manifests may be obtained from Tom Daniels Excavating, Inc.

Based on the sample analysis results and in accordance with the Alameda County Department of Environmental Health - Hazardous Materials Division, and the San Francisco Regional Water Quality Control Board, an Initial Investigation is required.

Please contact me regarding preparation of the Initial Investigation work plan.

Sincerely,

AQUA TERRA TECHNOLOGIES, INC.

Terrance E. Carter
Senior Environmental Engineer

TEC:pd

cc: George Callahan
Gil Wistar, Alameda County Health

Aqua Terra Technologies
Consulting Engineers
& Scientists

2950 Buskirk Avenue
Suite 120
Walnut Creek, CA
94596
415 934-4884

ATTACHMENT A

Laboratory Analysis Results

Aqua Terra Technologies
2950 Buskirk Avenue Ste. 120
Walnut Creek, CA 94596
Tel. (415) 934-4884
Fax. (415) 934-0418

ATT

CHAIN OF SAMPLE CUSTODY RECORD
(original document, please return)

Sampled By: Richard Brink
Signature: [signature]

Date Sampled: 1/11-12/98
Job Number: DPD 9115

Results To Be Sent To: Jerry Carter
Results Needed By: 1/26/98
Sampling Location:

Laboratory Name: Arametrix
Contact:
Phone #:

Sample Identification						Analysis/EPA Method No.							
Sample Collection			Number of Containers	Preserved	Containers	TPH Gas	BTEX						
Sample ID	Time (24 hr)	Matrix			40 ml Vials / 2½ x 4 brass tubes								Remarks
PS1	14:15	Water	3	*	3	X	X						
TB	14:18	"	2	*	2	X	X						
SS1	9:55	Soil	1	Ice	1	X	X						
SS2	10:00	"	1	"	1	X	X						[redacted] LW
SS3	10:14	"	1	"	1	X	X						[redacted] LW
SS4	10:17	"	1	"	1	X	X						[redacted] LW
SP1	14:00	"	1	"	1	X	X						Composite See Notes
SP2	14:02	"	1	"	1	X	X						"
SP3	14:04	"	1	"	1	X	X						"
SP4	14:06	"	1	"	1	X	X						"

Notes: * with ice and HCl. Normal Turnaround. Composite SP1-SP4 into one sample.
All soil samples taken 1/11/98. Water samples taken 1/12/98.

Relinquished By	Date	Time
[signature]	1/12/98	15:45
		:
		:

Received By	Date	Time
[signature]	1/12/98	15:45
		:
		:

Aqua Terra Technologies
2950 Buskirk Avenue Ste. 120
Walnut Creek, CA 94596
Tel. (415) 934-4884
Fax. (415) 934-0418

ATT

CHAIN OF SAMPLE CUSTODY RECORD
(original document, please return)

Sampled By: Richard Brush
Signature: [signature]
Results To Be Sent To: Terry Carter
Results Needed By: 1/26/90
Sampling Location:

Date Sampled: 1 / 11 / 90
Job Number: DRD
Laboratory Name: Anametrix
Contact:
Phone #:

Sample Identification												Analysis/EPA Method No.						
Sample Collection			Number of Containers	Preserved	Containers													
Sample ID	Time (24 hr)	Matrix			2½x4 brass tube							TPH Gas	BTEX					Remarks
555	10:40	Soil	1	ICE	1							X	X					
	:																	
	:																	
	:																	
	:																	
	:																	
	:																	
	:																	
	:																	
	:																	

Notes:

Relinquished By	Date	Time
[signature]	1/12/90	15:45
		:
		:

Received By	Date	Time
[signature]	1/12/90	15:45
		:
		:

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Inspection Form

II,III

Site ID # ____ Site Name Dutch Pride Dairy Today's Date 9/11/90

Site Address 7400 Amador Village Pkwy

City Dublin, CA Zip 94568 Phone ________

____ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

____ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
____ II. Business Plans, Acute Hazardous Materials
_✓_ III. Underground Tanks

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:
Removal of two 10,000-gal. gasoline tanks which are unprotected bare steel. Groundwater found at a depth of 8-9 feet in excavation. Obvious contamination visible in hole (floating product) and there is a strong smell of gasoline from sidewall soil samples.
[illegible] report given to [illegible]

4 soil samples collected from tank pit prior to removal of two tanks. Samples taken from [illegible] clay at tank sidewalls [illegible] 1 ft above current water level. One soil sample taken [illegible] product [illegible]. Water sample will be collected [illegible] after pumping water from pit and letting fresh groundwater come in.
Stockpile contains about 200 yards of pea gravel/soil - this will be sampled according to Water Board requirements.
Gave authorization for tanks to be removed later without my presence.

II.A BUSINESS PLANS (Title 19)

___	1. Immediate Reporting	2703
___	2. Bus. Plan Stds.	25503(b)
___	3. RR Cars > 30 days	25503.7
___	4. Inventory Information	25504(a)
___	5. Inventory Complete	2730
___	6. Emergency Response	25504(b)
___	7. Training	25504(c)
___	8. Deficiency	25505(a)
___	9. Modification	25505(b)

II.B ACUTELY HAZ. MAT'LS

___	10. Registration Form Filed	25533(a)
___	11. Form Complete	25533(b)
___	12. RMPP Contents	25534(c)
___	13. Implement Sch. Req'd? (Y/N)	___
___	14. OffSite Conseq. Assess.	25524(c)
___	15. Probable Risk Assessment	25534(d)
___	16. Persons Responsible	25534(g)
___	17. Certification	25534(f)
___	18. Exemption Request? (Y/N)	25536(b)
___	19. Trade Secret Requested?	25538

III. UNDERGROUND TANKS (Title 23)

General

___	1. Permit Application	25284 (H&S)
___	2. Pipeline Leak Detection	25292 (H&S)
___	3. Records Maintenance	2712
___	4. Release Report	2651
___	5. Closure Plans	2670

Monitoring for Existing Tanks

___ 6. Method
- 1) Monthly Test
- 2) Daily Vadose
  - Semi-annual gndwater
  - One time soils
- 3) Daily Vadose
  - One time soils
  - Annual tank test
- 4) Monthly Gndwater
  - One time soils
- 5) Daily Inventory
  - Annual tank testing
  - Cont pipe leak det
  - Vadose/gndwater mon.
- 6) Daily Inventory
  - Annual tank testing
  - Cont pipe leak det
- 7) Weekly Tank Gauge
  - Annual tank tstng
- 8) Annual Tank Testing
  - Daily Inventory
- 9) Other ________

___	7. Precis Tank Test Date: ________	2643
___	8. Inventory Rec.	2644
___	9. Soil Testing	2646
___	10. Ground Water.	2647

New Tanks

___	11. Monitor Plan	2632
___	12. Access. Secure	2634
___	13. Plans Submit Date: ________	2711
___	14. As Built Date: ________	2635

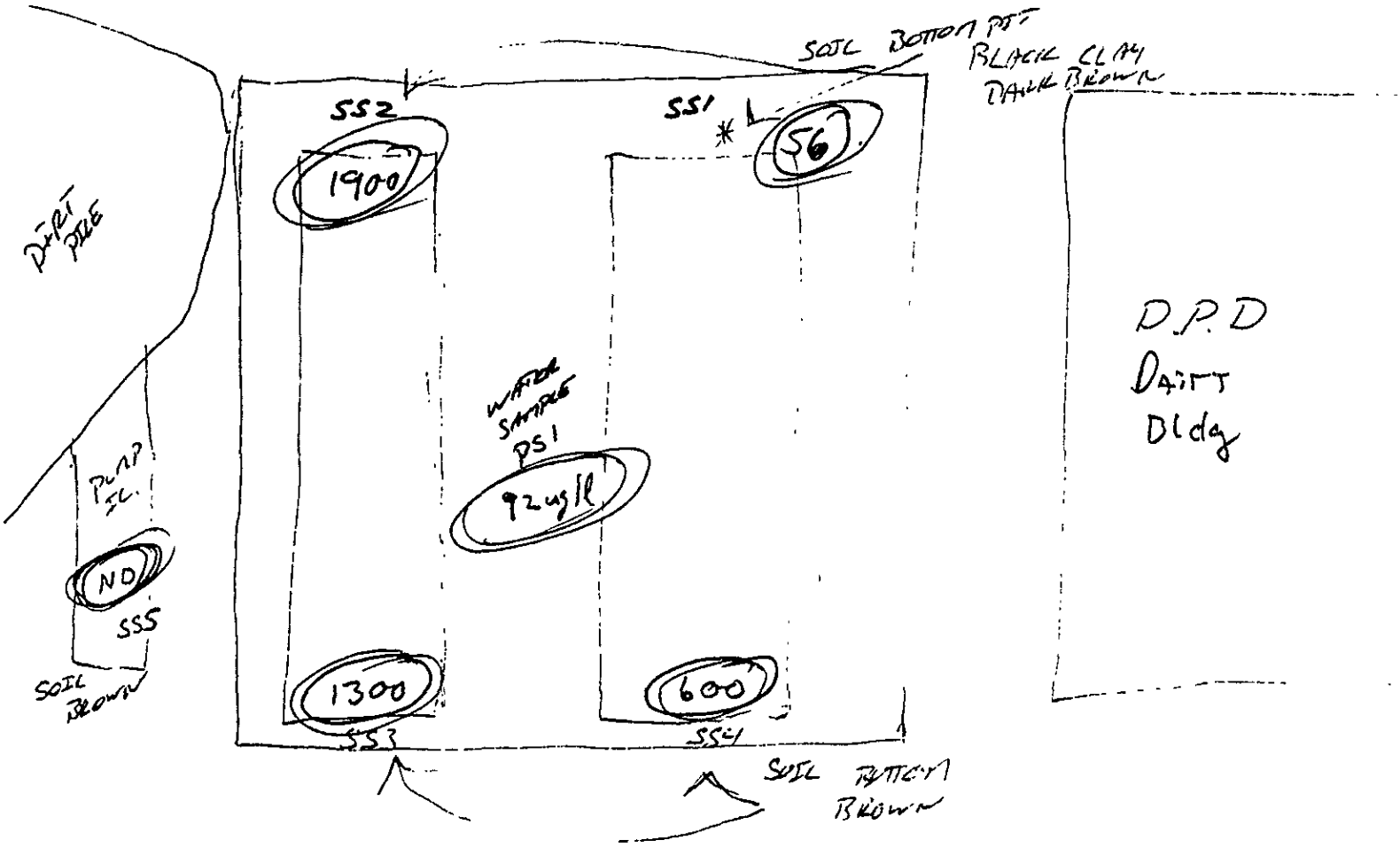
Rev 6/88

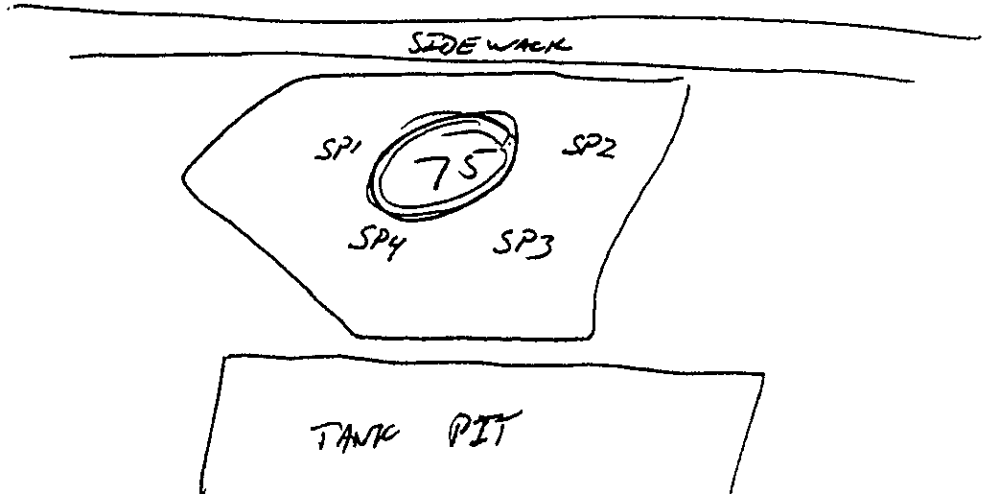
II, III

Contact: RICHARD BRUSH
Title: STAFF TECH.
Signature: [signature]

Inspector: ________
Signature: Gilbert M. Wistar

ALL SOIL SAMPLES HAVE ODOR





ATTACHMENT B

Soil & Groundwater Sample Collection & Handling

ATTACHMENT B

SOIL & GROUNDWATER SAMPLE COLLECTION & HANDLING PROTOCOL

INTRODUCTION & PURPOSE

Because reliable and representative test results must be generated from soil and groundwater samples, it is essential to establish a sampling procedure which assures that all samples are:

- Collected by approved and repeatable methods
- Representative of the materials(s) at the desired location and depth
- Uncontaminated by container and sampling equipment

The following sampling protocol was designed to be a guide to the sampling and handling procedures for soil and groundwater samples. Based on conditions which may be encountered in the field, some modifications to this protocol may be required to fit the needs of an individual site.

SAMPLING PROCEDURES

Groundwater Sampling

Prior to collecting groundwater samples, monitoring wells were purged by bailing until pH, conductivity, and temperature levels stabilize. Wells were purged and groundwater samples were obtained using a Teflon bailer and nylon rope. New nylon rope is used for each well.

The appropriate number of sample containers and type were used for each sample collected, in accordance with the analytical laboratory requirements and EPA protocol. The bottles were filled using the bailer. All sample bottles were pre-cleaned by the supplier according to EPA protocols.

To prevent cross contamination of groundwater samples by the sampling equipment, all equipment used in sampling was washed with a trisodium phosphate solution, triple rinsed with distilled water, and allowed to air dry prior to each use. A sample of the distilled water used in the final rinse was retained for analysis as part of sample quality assurance.

Soil Sampling

After the soil sampler is driven to the desired depth and the samples are retrieved, each end of the ring containing the soil sample is retained for laboratory analysis was sealed with Teflon sheeting, covered with plastic end caps, and sealed with PVC tape. All sample containers (tubes and end caps) were steamed cleaned and air dried prior to use. The soil sample recovered in the ring just above the sample retained for chemical analysis was examined in the field for visual and olfactory indications of chemical contamination and used for lithologic description.

The Unified Soil Classification System (USCS) was used to log and describe the soil by the onsite geologist. These logs also include details of the sampling process such as depth, apparent odors, discoloration, and any other factors which may be required to evaluate the presence of contamination at the site.

POST SAMPLING PROCEDURES

One field/travel blank consisting of one sample bottle filled with distilled water accompanied soil and groundwater sample containers at all times, including during transport to and from the site. Distilled water field/travel blanks were analyzed according to the appropriate EPA Methods corresponding to the soil/groundwater sample analyses.

Sample containers were labeled with sample number, project number, date, and the initials of the person collecting the sample. A separate sample collection record was maintained for each groundwater sample collected.

Soil and groundwater samples collected were analyzed by an analytical laboratory certified by the California Department of Health Services (DHS) for complete chemical analysis of hazardous waste as well as drinking water samples. Quality assurance documentation accompanied all analytical reports generated by the laboratory.

The samples were placed in an ice cooler immediately following collection, and remained in the ice cooler until refrigerated at the analytical laboratory. The samples were delivered to the laboratory direct by courier or overnight freight within 48 hours of time of collection. Appropriate chain of custody forms were used for all samples.

ATTACHMENT C

Fuel Tank Release Form

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO — HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☐ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFTY CODE.
SIGNED _____ DATE _____

REPORT DATE: 02/02/90 — CASE #:

REPORTED BY
- NAME OF INDIVIDUAL FILING REPORT: Terrance E. Carter — PHONE: (415) 934-4884 — SIGNATURE: Terrance E Carter 02/02/90
- REPRESENTING: ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER _____ — COMPANY OR AGENCY NAME: Aqua Terra Technologies, Inc.
- ADDRESS: 2950 Buskirk, Suite 120 (STREET) — Walnut Creek — CA (STATE) — 94596 (ZIP)

RESPONSIBLE PARTY
- NAME: Owner: Richard Dodge ☐ UNKNOWN — CONTACT PERSON: Richard Dodge — PHONE: ( )
- ADDRESS: 1120 Walker Avenue (STREET) — Walnut Creek (CITY) — CA (STATE) — 94596 (ZIP)

SITE LOCATION
- FACILITY NAME (IF APPLICABLE): Dutch Pride Dairy — OPERATOR: Vacant Property — PHONE: ( )
- ADDRESS: 7400 Amador Valley Blvd. (STREET) — Dublin (CITY) — Alameda (COUNTY) — CA (STATE) — 94568 (ZIP)
- CROSS STREET: Village Parkway
- TYPE OF AREA: ☒ COMMERCIAL ☐ INDUSTRIAL ☐ RURAL ☐ RESIDENTIAL ☐ OTHER _____
- TYPE OF BUSINESS: ☐ RETAIL FUEL STATION ☐ FARM ☐ OTHER Vacant

IMPLEMENTING AGENCIES
- LOCAL AGENCY / AGENCY NAME: Alameda County Health Care Services — CONTACT PERSON: Gil Wistas — PHONE: 415) 271-4320
- REGIONAL BOARD: San Francisco RWQCB — - — PHONE: (415) 464-1255

SUBSTANCES INVOLVED
- (1) NAME: Gasoline — QUANTITY LOST (GALLONS): _____ ☒ UNKNOWN
- (2) _____ ☐ UNKNOWN

DISCOVERY/ABATEMENT
- DATE DISCOVERED: 01/10/90 — HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☒ TANK REMOVAL ☐ OTHER _____
- DATE DISCHARGE BEGAN: ☒ UNKNOWN
- HAS DISCHARGE BEEN STOPPED? ☐ YES ☐ NO IF YES, DATE _____
- METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ REPLACE TANK ☒ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☐ OTHER _____

SOURCE/CAUSE
- SOURCE OF DISCHARGE: ☒ TANK LEAK ☐ UNKNOWN ☐ PIPING LEAK ☐ OTHER
- TANKS ONLY/CAPACITY: 10,000 GAL — AGE 15 YRS ☐ UNKNOWN
- MATERIAL: ☐ FIBERGLASS ☒ STEEL ☐ OTHER _____
- CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☒ CORROSION ☐ UNKNOWN ☐ SPILL ☐ OTHER _____

CASE TYPE — CHECK ONE ONLY
☒ UNDETERMINED ☐ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS — CHECK ONE ONLY
☒ SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) ☐ CLEANUP IN PROGRESS ☐ SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) ☐ NO ACTION TAKEN ☐ POST CLEANUP MONITORING IN PROGRESS ☐ NO FUNDS AVAILABLE TO PROCEED ☐ EVALUATING CLEANUP ALTERNATIVES

REMEDIAL ACTION — CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD) ☐ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT)
☐ CONTAINMENT BARRIER (CB) ☒ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS)
☐ TREATMENT AT HOOKUP (HU) ☐ NO ACTION REQUIRED (NA) ☐ OTHER (OT) _____

COMMENTS
Work plan in progress.

HSG 05 (4/87)

ATTACHMENT F

Soil and Groundwater Sample Collection & Handling Protocol

ATTACHMENT F

SOIL & GROUNDWATER SAMPLE COLLECTION & HANDLING PROTOCOL

INTRODUCTION & PURPOSE

Because reliable and representative test results must be generated from soil and groundwater samples, it is essential to establish a sampling procedure which assures that all samples are:

- Collected by approved and repeatable methods
- Representative of the materials(s) at the desired location and depth
- Uncontaminated by container and sampling equipment

The following sampling protocol is designed to be a guide to the sampling and handling procedures for soil and groundwater samples to be collected. Based on conditions which may be encountered in the field, some modifications to this protocol may be required to fit the needs of an individual site.

SAMPLING PROCEDURES

Groundwater Sampling

Prior to collecting groundwater samples, monitoring wells will be purged by bailing until pH, conductivity, and temperature levels stabilize. Wells will be purged and groundwater samples will be obtained using a Teflon bailer and nylon rope. New nylon rope is used for each well.

The appropriate number of sample containers and type will be used for each sample collected, in accordance with the analytical laboratory requirements and EPA protocol. The bottles will be filled using the bailer. All sample bottles will be pre-cleaned by the supplier according to EPA protocols.

To prevent cross contamination of groundwater samples by the sampling equipment, all equipment used in sampling will be washed with a trisodium phosphate solution, triple rinsed with distilled water, and allowed to air dry prior to each use. A sample of the distilled water

used in the final rinse will be retained for analysis as part of sample quality assurance.

Soil Sampling

After the soil sampler is driven to the desired depth and the samples are retrieved, each end of the ring containing the soil sample to be retained for laboratory analysis will be sealed with Teflon sheeting, covered with plastic end caps, and sealed with PVC tape. All sample containers (tubes and end caps) will be steamed cleaned and air dried prior to use. The soil sample recovered in the ring just above the sample retained for chemical analysis will be examined in the field for visual and olfactory indications of chemical contamination and used for lithologic description.

The Unified Soil Classification System (USCS) will be used to log and describe the soil by the on-site geologist. These logs will also include details of the sampling process such as depth, apparent odors, discoloration, and any other factors which may be required to evaluate the presence of contamination at the site.

POST SAMPLING PROCEDURES

One field/travel blank consisting of one sample bottle filled with distilled water will accompany soil and groundwater sample containers at all times, including during transport to and from the site. Distilled water field/travel blanks will be analyzed according to the appropriate EPA Methods corresponding to the soil/groundwater sample analyses.

Sample containers will be labeled with sample number, project number, date, and the initials of the person collecting the sample. A separate sample collection record will be maintained for each groundwater sample collected.

Soil and groundwater samples collected will be analyzed by an analytical laboratory certified by the California Department of Health Services (DHS) for complete chemical analysis of hazardous waste as well as drinking water samples. Quality assurance documentation will accompany all analytical reports generated by the laboratory.

The samples will be placed in an ice cooler immediately following collection, and will remain in the ice cooler until refrigerated at the analytical laboratory. The samples will be delivered to the laboratory direct by

courier or overnight freight within 48 hours of time of collection. Appropriate chain of custody forms will be used for all samples.

ATTACHMENT G

Monitoring Well Installation Procedures

ATTACHMENT G

DRILLING PROCEDURES & GROUNDWATER MONITORING WELL CONSTRUCTION/DESIGN

DRILLING AND SAMPLING PROCEDURES

All borings for well construction will be drilled using eight-inch diameter or larger hollow stem auger equipment. A California Registered Geologist will direct the collection of undisturbed samples of the soils encountered and the preparation of detailed logs of each boring.

Soil sampling will be conducted using a modified California drive sampler, a standard penetration sampler, or a five-foot continuous sampler. Representative samples of each soil type will be retained in either Ziploc bags or two-inch to three-inch diameter, six-inch long, clean, brass tubes. The samples will be retained for verification of soil classification and for chemical laboratory analytical testing, as appropriate. Teflon sheeting will be placed between the soil sample and the cap, and the cap will be sealed with PVC tape.

When access limitations do not allow drilling with truck mounted equipment, either a trailer mounted drilling rig, portable power driven, or manually operated soil sampling equipment will be utilized. If soil samples are to be retained for analysis, they will be collected in clean brass tubes fitted within a thin walled drive sampler. The soil samples will be capped and sealed as described above.

All down hole sampling, drilling, and well construction equipment and materials, including augers, casing, and screens will be steam cleaned prior to their initial use. The sampling equipment will be cleaned prior to each assembly by washing with a trisodium phosphate solution, rinsing with distilled water, and allowing to air dry. The auger flights, drill bit, and sampler will be steam cleaned at each boring location.

MONITORING WELL CONSTRUCTION

Monitoring wells will be constructed in accordance with applicable local water district or California Department of Water Resources guidelines. The specific completion details for each well will be determined in the field at the time of drilling by a California Registered Geologist experienced in groundwater monitoring system design and installation.

Monitoring wells consist of two or four-inch diameter, Schedule 40 PVC casing and screens with flush, threaded joints. No PVC glue was used. The screened sections will be machine slotted with either 0.010-inch (0.255 mm) 0.020-inch (0.51 mm) openings. The smaller slot size will be used where the wells are screened within fine-grained sandy soils, and the larger slots will be used where coarse sand or gravels are encountered. The slotted sections will be fitted with a slip-on cap and placed opposite the water-bearing strata in the boring. The blank pipe will be connected to the perforated pipe and will extend to just below the ground surface.

The annulus between the side of the borehole and the slotted section will be filled with a clean sand pack to variable depths, but not less than one or two feet above the perforated pipe. The annulus will be packed with either Lonestar No. 1/20 (where 0.010-inch slotted pipe is used) or No. 3 (where 0.020-inch slotted pipe is used) washed sand filter material. The gradation of the filter material is summarized below:

U.S. Sieve No.	Opening (mm)	Percent Passing (No. 3)	Percent Passing (No. 1/20)
6	3.35	100	
8	2.36	99 - 100	
12	1.70	62 - 78	
16	1.18	15 - 33	100
20	0.85	0 - 8	90 - 100
30	0.60	0 - 4	14 - 40
40	0.425		0 - 5

A seal of bentonite pellets approximately 24-inches thick will be placed above the sand pack to reduce the risk of grout penetration into the sand. The bentonite pellets will be hydrated with distilled water to form a tight plug. A cement/bentonite grout will be placed above the bentonite plug to a depth of approximately two feet below the ground surface. The grout will be pumped into the boreholes using a tremie pipe. Concrete will be placed from the top of the cement/bentonite mixture to the ground surface.

At most sites in sedimentary formations, it is not practical to "rationally design" a filter pack based on sieve analyses. From experience, Lonestar No. 1/20 or No. 3 washed sand as a filter material has been selected for use in the proposed wells. The 0.010-inch and 0.020-

inch slot sizes were selected to retain 100 percent of the filter material.

The completed wells will be enclosed in a traffic rated enclosure placed flush with grade or in an above-ground metal enclosure, and will be fitted with a locking cap. If a groundwater level contour map is to be prepared, well head elevations will be determined by a level survey, and well coordinates will be determined by a traverse survey. The level/traverse survey will be referenced to a bench mark of known elevation and coordinates. Once water levels have stabilized, water levels in all wells will be measured.

After the wells have been completed, they will be developed by pumping and surging to clean and stabilize the soils around the screens. A manually operated, positive displacement surge pump and Teflon bailer, surge block, and/or centrifugal pump will be used for development. A minimum of 10 well casing volumes of water will be removed during development; however, development will continue until water flows clear and pH, temperature, and conductivity have stabilized. All development equipment will be steam cleaned prior to its initial use in each well. A well development log will be maintained which will include 1) a record of development water parameters at frequent intervals, 2) the quantity of water removed during development, and 3) flow rates during development.

Soil cuttings generated during drilling will be wrapped in plastic sheeting, and water generated during well development will be retained in secured 55-gallon drums until chemical analytical data from samples are received.

ATTACHMENT H

Site Safety Plan

ATT

AQUA TERRA TECHNOLOGIES SITE SAFETY PLAN

A. GENERAL INFORMATION

Site: Former Dutch Pride Dairy Property

Location: 7400 Amador Valley Boulevard
Dublin, CA

Plan Prepared By: William E. Motzer
Senior Hydrogeologist
Date: March 28, 1990

Plan Approved By: Terrance E. Carter
Senior Environmental Engineer
Date: March 28, 1990

Objectives:

1) Excavation, treatment (via aeration) and offhaul of gasoline contaminated soil.
2) Removal of one groundwater monitoring well.
3) Reinstallation of one, two-inch groundwater monitoring well.

Proposed Date of Investigation: March, 1990 and upon approval of work plan by the Alameda County Health Care Services Agency and San Francisco Bay Region, Regional Water Quality Control Board

Background Review: Complete: X Preliminary:

Documentation/Summary: Aqua Terra Technologies, Inc.(ATT) workplan of March 29, 1990 (attached).

Overall Hazard: Serious: Moderate:
Low: X Unknown:

B. SITE/WASTE CHARACTERISTICS

Waste Type(s): Liquid: Solid: X Sludge: Gas:

Characteristic(s): Corrosive: Ignitable: Radioactive:
Volatile:X Toxic: Reactive: Unknown: Other(name):

Facility Description: Lot with unoccupied building, currently undergoing preparation for active building demolition and construction.

Principal Disposal Method (type and location): Disposal of excavated soil by truck offhaul to a Class II or Class III landfill, after soil has been adequately aerated as per regulatory agency requirements. Water in former tank excavation to be removed by a vacuum truck.

Unusual Features (power lines, terrain, utilities, etc.): none

Status: Active: Inactive: X Unknown:
Property currently waiting for completion of remedial activities before beginning building demolition and new construction.

History (agency action, complaints, injuries, etc.): None noted

C. HAZARD EVALUATION

Parameter:	TLV (ppm)	IDLH (ppm)	LEL (%)	HEALTH skin/eyes/inge./inha.
	____	____	X	X

Special Precautions and Comments: Use NIOSH approved gloves when handling soil samples. Sampling to be conducted in open air. Excavated soils, to be treated via aeration, to be covered during periods of precipitation.

D. SITE SAFETY WORK PLAN

Perimeter Establishment: Map/Sketch Attached: see work plan
Site Secured: via gated, chain link fence

Perimeter Identified: Yes; via building plans and perimeter fence.

Zone(s) of Contamination Identified: Zones of contamination will be identified during re-excavation of former underground fuel tank pit (see work plan).

Personal Protection:

Level of Protection: A____B____C____D__X__

Modifications: If necessary tyvek suits will be used with NIOSH approved face masks. All personnel collecting soil samples will wear gloves. Hard hats and steel toed shoes will be worn at all times.

Surveillance Equipment & Materials:
Instrument: LEL Meter Action Level: 20%

Site Entry Procedures: Permission of property owner and onsite building contractor. Hard hats and steel toed shoes will be worn at all times.

Decontamination Procedures:

Personal: Wash hands, face, clothes. Smoking or eating not permitted onsite during active excavation or drilling.

Equipment: Steel toed boots, gloves, hard hat, NIOSH approved respirator.

First Aid (type of equipment available): Fully stocked first aid kit and emergency eyewash with company vehicles.

Work Limitations (time of day, weather, heat/cold stress):

Work limitations: winds less than 10 mph; no work during periods of precipitation; work hours: 8:00 A.M to 5:00 P.M. Monday through Friday.

Investigation-Derived Material Disposal: Excavated soil from the former gasoline tank area to be treated onsite and offhauled to a Class II or Class III landfill as per the regualtory agency requirements.

Team Composition:

Team Member	Responsibility
Terrance E. Carter	Project Manager/Engineer
William E. Motzer	Project Hydrogeologist
Michael Deschenes	Project Geologist
Bruce L. Berman	Project Safety Manager

E. EMERGENCY INFORMATION

Local Resources:

Ambulance: 911
Hospital Emergency Room: 911
Poison Control Center: 1-800-523-2222
Police: 911
Fire Department: 911
Explosives Unit: 911
Agency Contact: National Response Center (NAC)
Toxic Chemical and Oil Spills: 1-800-424-8802

Site Resources:

Water Supply: on site
Telephone: none
Radio: unknown
Other: none

Emergency Contacts:

Name: Mr. Terry Carter, Senior Env. Eng. Phone: 415 934-4884
Aqua Terra Technologies, Inc.

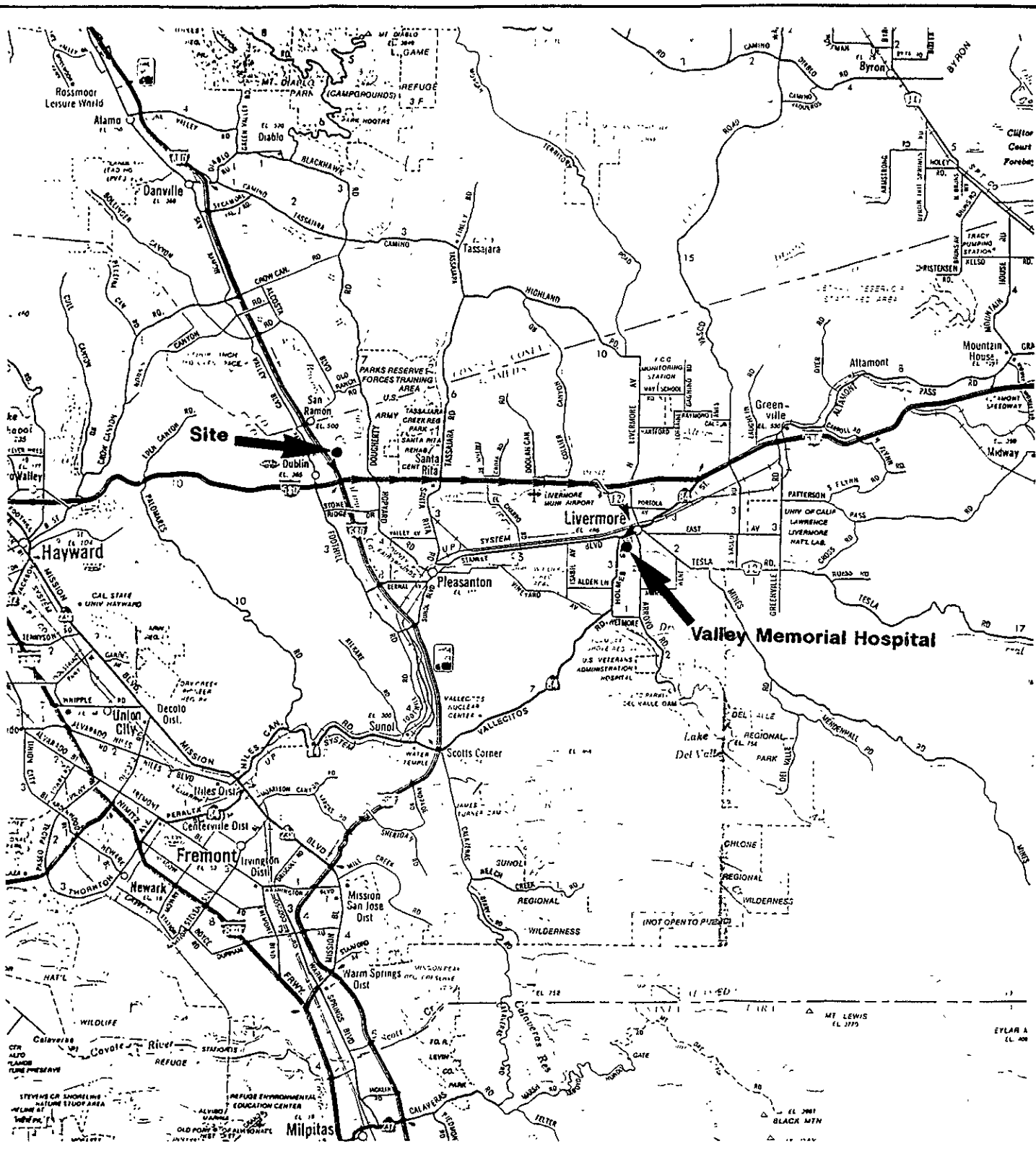
Emergency Routes:

Hospital: Valley Memorial Hospital
1111 East Stanley Road
Livermore, CA 94550
(415) 447-3424

From site south on Village Parkway, approximately 0.4 miles, to Dublin Road. Left turn (toward east) onto Dublin Boulevard, approximately 0.8 miles to Dougherty Road. Right turn (to south) on Dougherty to Interstate 580. East on I 580 (approximately 7.0 miles) to Portola Avenue exit. Right turn (to south) on Murrieta Boulevard (approximately 1.5 miles) to Stanley Boulevard. Left turn (toward the east) on Stanley to Valley Memorial Hospital (approximately 0.4 miles).

Site Sketch (work zones, command post, etc.):

See work plan (attached).



0 1/2 1 mile
SCALE

N

Hospital Route

ATT Aqua Terra Technologies Consulting Engineers & Scientists	G&L Construction
	JOB NUMBER 9115
	DATE 3/90
	PLATE H-1