

ANANIA GEOLOGIC ENGINEERING

January 18, 1989

ALAMEDA REGIONAL WATER

JAN 19 1989

UHM

QUALITY CONTROL BOARD

Ms. Lisa McCann
San Francisco Bay Regional Water
Quality Control Board
1111 Jackson Street, Room 6000
Oakland, CA 94607

RE: TRANSMITTAL OF UNAUTHORIZED RELEASE REPORT
FOR CARNATION'S DAIRY FACILITY LOCATED AT
1310 14TH STREET, OAKLAND, ALAMEDA COUNTY,
CALIFORNIA

Dear Ms. McCann:

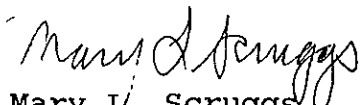
Enclosed is a copy of the Unauthorized Release Report for the
Carnation Dairy facility in Oakland. The analytical results for
the soil and groundwater samples have not been received. Results
are expected next week, however, and will be forwarded when they
are available.

I am sending a copy of this report to Alameda County Health Agency,
Division of Hazardous Materials.

If you have questions, please contact me at (916) 451-9021.

Sincerely,

ANANIA GEOLOGIC ENGINEERING


Mary I. Scruggs
Project Manager/Geologist

MLS/jc

Enclosure: Unauthorized Release Report

Copy to: Mr. Howard Shmuckler

ANANIA GEOLOGIC ENGINEERING

**UNAUTHORIZED RELEASE REPORT
FOR THE CARNATION DAIRY FACILITY
LOCATED AT 1310 14th STREET
OAKLAND, ALAMEDA COUNTY, CALIFORNIA**

**JANUARY 17, 1989
AGE PROJECT NO. 004-88-059**

In order to comply with the "Unauthorized Release Reporting Requirements" of the California Code of Regulations (CCR) Title 23, Article 5, section 2652, Mr. Karl J. Anania gave the required 24-hour notice to the Alameda County Department of Health (County) Regional Water Quality Control Board on January 5, 1989. This written report is prepared as a follow-up confirmation of the unauthorized release.

Floating product was present in the bottom of the pit during the excavation of four steel tanks on January 5, 1989. Two 12,000-gallon tanks contained diesel fuel and two 10,000-gallon tanks stored unleaded gasoline. All four of the tanks were in good condition and did not have any visible holes during the removal operation. Staining in the side walls adjacent to the product lines strongly indicate leaking pipelines as the source of the release.

TYPE, QUANTITY AND CONCENTRATION CHEMICALS

At this time the quantity of the release is not known. Eight soil samples were collected at the liquid interface of the excavation sidewall approximately 9.5 feet below ground surface. One sample was taken at each end of each tank. Sample locations are shown in Figure 1. One groundwater sample was collected from liquid in the bottom of the excavation pit. The pit was not purged prior to collecting the groundwater sample. Analytical results for these samples have not yet been received from the laboratory (Chemwest Analytical Laboratory in Sacramento). Requested analyses and methods for all samples are as follows:

<u>Test</u>	<u>Method</u>
Total Petroleum Hydrocarbons (TPH)	8015 Modified
Benzene	8020
Ethyl Benzene	8020
Toluene	8020
Xylenes	8020
Total Organic Lead (TOL)	DOHS Approved

Final results are expected on or about January 27, 1989. An addendum to this report will be sent after the laboratory reports are received.

DETERMINATION OF EXTENT OF IMPACT FROM RELEASE

The extent of the unauthorized release from the diesel and gasoline tanks is not known at this time. It is also not yet known whether groundwater has been impacted. Anania Geologic Engineering (under the direct supervision of Karl J. Anania) is under contract with Carnation to perform a site characterization. Preliminary plans are to drill up to 15 borings which can be converted to monitoring wells around the perimeter of the site to determine lateral and vertical extent of contamination and groundwater flow direction. The wells can also be used to monitor progress of the remediation system. A work plan will be submitted to the lead agency prior to beginning work on the site characterization.

METHODS OF CLEANUP TO DATE

What is underneath

All four tanks have been removed and approximately 500 cubic yards of soil have been stockpiled onsite and covered with plastic. The excavated soil was sampled the same day as the tank pit and groundwater, and has been submitted for the same analyses. Results are expected around January 27.

Absorbant boom and pads were used to recover free product from the excavation pit. The boom and pads were put into seven barrels for solidification and are currently stored onsite. The barrels will be hauled offsite by a licensed hazardous waste hauler at a later date. The approximate cost of cleanup and investigation to date is \$125,000.00.

PLANNED CLEANUP ACTIONS

A petroleum skimming system is being installed as part of the immediate measures to contain the "spill." The design and operational characteristics of the system will be submitted within the next week. The excavation pit is being filled with clean 1/2-inch to 3/4-inch aggregate to 5 feet below ground surface. A geotextile fabric will be placed on the gravel. Approximately 4-1/2 feet of sand will be placed in the pit and compacted. The surface will be paved with asphalt on a gravel subbase.

A 12-inch recovery well will be installed in the west side of the excavated area for the recovery of free product. The well will extend to approximately 14 feet and will be constructed with schedule 80 slotted PVC. Vertical slots approximately 1/8-inch wide and 10 to 12 inches in length will be cut into the pipe with a skill saw. Bentonite will not be used to seal or set the recovery well.

A recovery trench system designed as French drains will connect to the recovery well. The recovered product will be stored onsite in a 5,000 or 10,000-gallon above-ground tank equipped with overfill control.

FACILITY OPERATOR'S NAME AND PHONE NUMBER:

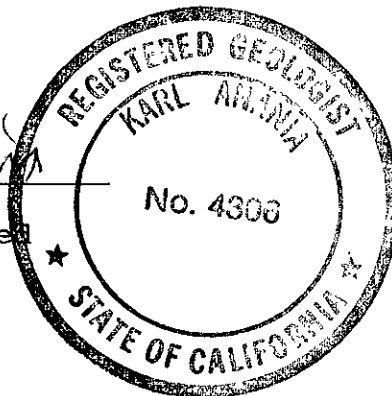
Mr. Howard R. Shmuckler
(213) 932-6464

Prepared by:

Mary L. Scruggs
Mary L. Scruggs
Project Manager/Geologist

Approved by:

Karl J. Anania
Karl J. Anania
California Registered
Geologist No. 4306



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

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. Business Name Carnation Dairies
Business Owner Same as above
2. Site Address 1310 14th Street
City Oakland Zip 94607 Phone 415/451-8161
3. Mailing Address 5045 Wilshire Boulevard
City Los Angeles Zip 90036 Phone 213/932-6000
4. Land Owner Same as above
Address _____ City, State _____ Zip _____
5. EPA I.D. No. CAC 000 1286 61
6. Contractor Erickson Incorporated
Address 255 Parr Boulevard
City Richmond, CA 94801 Phone 415/235-1393
License Type "A" ID# A168067
7. Consultant Anania Geologic Engineering (AGE)
Address 11330 Sunrise Park Drive, Suite C
City Rancho Cordova, CA 95742 Phone 916/631-0154

8. Contact Person for Investigation

Name Martha McDonnell Title Senior Project Manager
Phone 916/631-0154

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 Erickson Incorporated EPA I.D. No. CAD009466392
Address 255 Parr Boulevard
City Richmond State CA Zip 94801

b) Rinsate Transporter

Name Erickson Incorporated EPA I.D. No. CAD009466392
Address 255 Parr Boulevard
City Richmond State CA Zip 94801

c) Tank Transporter

Name N/A EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

d) Tank Disposal Site

Name N/A EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

e) Contaminated Soil Transporter

Name N/A EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

12. Sample Collector

Name Chris Neilson-Cerquone
 Company Anania Geologic Engineering
 Address 11330 Sunrise Park Dr., Suite C
 City Rancho Cordova State CA zip 95742 Phone 916/631-0154

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
12,000 gal.	Boiler Fuel Oil	See Attachment B	See Attachment B
11,400 gal.	Boiler Fuel Oil	See Attachment B	See Attachment B

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

If yes, describe. _____

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

If yes, describe. Complete Cleaning of tanks by triple rinsing. Verification of vapor levels will be monitored with Bacharach TLV Sniffer.

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

16. Laboratories

Name Precision Analytical Laboratories
 Address 4136 Lakeside Drive
 City Richmond State CA zip 94806
 State Certification No. 211

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
	See Attachment B 'Summary of Lab Results'	

18. Submit Site Safety Plan

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

 Copy of Certificate enclosed? Yes [] No []

 Name of Insurer Firemans Fund

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 Safety 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) Richard Lodge

Signature *Richard Lodge*

Date 9-18-89

Signature of Site Owner or Operator

Name (please type) Karl J. Anania

Signature *Karl J. Anania*

Date 9/15/89

NOTES:

1. Any changes in this document must be approved by this Department.
2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
4. After approval of plan, notification of at least two (2) working days (48 hours) must be given to this Department prior to removal of tank(s).
5. A copy of your approved plan must be sent to the landowner.
6. Triple rinse means that:
 - a) Final rinse must contain less than 100 ppm of Gasoline (EPA method 8020 for soil, or EPA method 602 for water) or Diesel (EPA method 418.1). Other methods for halogenated volatile organics (EPA method 8010 for soil, EPA method 601 for water) may be required. The composition of the final rinse must be demonstrated by an original or facsimile report from a laboratory certified for the above analyses.
 - b) Tank interior is shown to be free from deposits or residues upon a visual examination of tank interior.
 - c) Tank should be labelled as "tripled rinsed; laboratory certified analysis available upon request" with the name and address of the contractor.

If all the above requirements cannot be met, the tank must be transported as a hazardous waste.

7. Any cutting into tanks requires local fire department approval.

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

**ATTACHMENT A
SAMPLING RESULTS**

Tank or Area	Contaminant	Location & Depth	Results (specify units)
	See Attachment B On Fill Out		

INSTRUCTIONS

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

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

6. CONTRACTOR
Prime contractor for the project.

7. OTHER
List professional consultants here.

12. SAMPLE COLLECTOR
Persons who are collecting samples.

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

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

16. LABORATORIES
Laboratories used for chemical and geotechnical analyses.

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

Contaminant - Specify the chemical to be analyzed.

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

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

NOTE:
Method Numbers are available from certified laboratories.

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

19. ATTACH COPY OF WORKMAN'S COMPENSATION

20. PLOT PLAN

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

- a) Scale
- b) North Arrow
- c) Property Line
- d) Location of all Structures
- e) Location of all relevant existing equipment including tanks and piping to be removed
- f) Streets
- g) Underground conduits, sewers, water lines, utilities
- h) Existing wells (drinking, monitoring, etc.)
- i) Depth to ground water
- j) All existing tanks in addition to the ones being pulled

ANANIA GEOLOGIC ENGINEERING

ADDENDUM TO SITE SAFETY PLAN
FOR EXCAVATED FUEL TANK AREA
CARNATION DAIRY FACILITY
1310 14TH STREET, OAKLAND, CALIFORNIA

AGE PROJECT NO. 004-88-059

SEPTEMBER 14, 1989

UNDERGROUND TANK ABANDONMENT

All work will be conducted with complete concern given for the safety of all persons in and around the work area. Strict adherence to the following guidelines will be monitored by the AGE SSO or their designee.

The immediate work area will be inspected and made as safe as possible. Obstructions that hinder safe work practices will be removed when possible. Heat, flame and spark sources will be removed or extinguished. All residual product remaining in the tank will be pumped or drained off to the lowest possible level.

Vacuum tank trucks or other types of equipment used for pumping the sludge from a tank must be operated in a vapor-free area and located upwind from the tank and outside the path of probable vapor travel.

Where conditions permit, it is preferable that the tank be freed of flammable vapors before other steps are undertaken. Vapor freeing implies the complete replacement of the hydrocarbon vapors in the tank with fresh air. Work in the area will be kept to a minimum in the initial stage of vapor-freeing.

The atmosphere in the tank and the surrounding area will be tested frequently throughout the operation with a vapor indicator to determine the progress of vapor-freeing operations.

Prior to entering a tank to perform the cleaning activities, the tank will be tested for flammable/toxic vapors and oxygen content. The flammable vapor content must not exceed 20 percent of the lower flammable limit (LFL). Most hydrocarbon vapors are toxic. Tests will be made to ensure that vapor concentrations are within established threshold limit values (TLV) noted in the Risk Assessment Summary section of the Site Safety Plan. If the tank is free of combustible/toxic vapors and the oxygen content is

greater than 19.5 percent, measured by an oxygen content meter, personnel entering the tank will employ level C protection equipment. However, if the oxygen content is less than 19.5 percent, level B protection will be employed. Continued monitoring of the vapor and oxygen contents will be conducted while personnel are within the tank.

Each tank will be retested for vapors and oxygen content before re-entry after any extended interruption of work or after an overnight break in operations.

A harness and lifeline will be worn by all personnel entering the tank for ease of rescue in the event of an emergency. In addition, a tripod assembly will be utilized over the access manway, whenever possible, to assist in lifting out an injured person.

While workmen are inside the tank completing the cleaning process, personnel will be stationed outside the tank to assist in the event of an emergency. The outside personnel will have adequate respiratory equipment available for the work conditions above ground. Someone qualified to administer artificial respiration and simple first aid will be available.

Portable fire extinguishers will be available in the immediate work area at all times.

Flammable and toxic vapors may be present as long as oil or sludge remains within the tank. For this reason, forced ventilation will be provided, regardless of acceptable test results for flammable/toxic vapors, until oil and sludge have been removed.

Cleaning compound residuals removed, other than by vacuum tank truck, will be placed in D.O.T. approved containers for proper disposal. All containers shall be labelled as containing hazardous waste.

Surfaces which are to be heated by welding or other processes should be free of liquid hydrocarbons, ignitable scale deposits or other deposits which could release flammable/toxic vapors. Frequent tests should be made to ensure that the atmosphere in the tank is not in excess of 10 percent of the LFL and the TLV requirement is met. Continued ventilation will be required during welding/heating to minimize accumulation of flammable vapors.

Surfaces which might be heated excessively by welding, or other operations, and have been in contact with leaded gasoline, should be cleaned down to bare metal. Welders may use fresh air respiratory equipment as an alternative to cleaning down to bare metal.

Attachment B

RECEIVED MAY 22 1989

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (415) 222 3002

FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 05/12/89

Reported: 05/16/89

Job No #: 70832

Attn: Mary Scruggs
Anania Geological Engineering
11330 Sunrise Park Drive, Suite C
Rancho Cordova, CA. 95742

Project: #004-88-059

Total Petroleum Hydrocarbon Analysis: By Modified Method 8015

Oil & Grease Analysis: By Standard Method 503D

Total Hydrocarbons Analysis: By Standard Method 503E

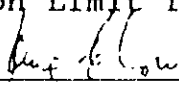
Polychlorinated BiPhenyls Analysis: By EPA 8080

mg/kg

Lab ID	Client ID	Gasoline	TPH as Diesel	Oil & Grease	PCB's	Total Hydrocarbons
70832-1	#4105 MW-17- 5'	ND<10	ND<10	<50	ND<0.5	10
70832-2	#4107 MW-17-10'	ND<10	ND<10	<50	ND<0.5	30
70832-3	#4109 MW-17-15'	ND<10	ND<10	<50	ND<0.5	40
70832-4	#4111 MW-17-20'	ND<10	ND<10	<50	ND<0.5	10
70832-5	#4113 MW-18- 5'	ND<10	ND<10	<50	ND<0.5	25
70832-6	#4115 MW-18-10'	ND<10	ND<10	<50	ND<0.5	25
70832-7	#4117 MW-18-15'	ND<10	ND<10	<50	ND<0.5	25
70832-8	#4119 MW-18-20'	ND<10	ND<10	<50	ND<0.5	10
70832-9	#4121 MW-19- 5'	ND<10	ND<10	<50	ND<0.5	30
70832-10	#3189 MW-18	ND<0.5	ND<0.5	<50	ND<0.5	1.0

QA/QC: Spike Recovery for Diesel: 114%
Spike Recovery for PCB's: 90%
Spike Recovery for Oil & Grease: 101%
Spike Recovery for Gasoline: 100%

Detection Limit for Diesel: 10
Detection Limit for Oil & Grease: 50
Detection Limit for Gasoline: 10
Detection Limit for PCB: 0.5


Jaime Chow
Laboratory Director

RECEIVED MAY 22 1989

Precision Analytical Laboratory, Inc.

4136 LAKE SIDE DRIVE, RICHMOND, CA 94806

PHONE (415) 222 3002

FAX (415) 222 1251

CC Mary

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 05/12/89

Reported: 05/16/89

Job #: 70832

Attn: Mary Scruggs
Anania Geological Engineering
11330 Sunrise Park Drive, Suite C
Rancho Cordova, CA. 95742

Project: #00488-059

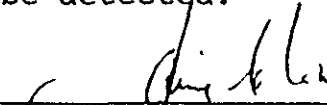
Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID	Client ID	Total Lead	MDL	% SPIKE RECOVERY
70832-1	#4105 MW-17- 5'	ND<1.1	1.1	70
70832-2	#4107 MW-17-10'	ND<1.1	1.1	70
70832-3	#4109 MW-17-15'	1.5	1.1	70
70832-4	#4111 MW-17-20'	ND<1.1	1.1	70
70832-5	#4113 MW-18- 5'	1.6	1.1	70
70832-6	#4115 MW-18-10'	ND<1.1	1.1	70
70832-7	#4117 MW-18-15'	ND<1.1	1.1	70
70832-8	#4119 MW-18-20'	ND<1.1	1.1	70
70832-9	#4121 MW-19- 5'	ND<1.1	1.1	70

Analysis Method EPA 6010
Prep Method EPA 3010
mg/l

Lab ID	Client ID	Total Lead	MDL	% SPIKE RECOVERY
70832-10	#3189 MW-18	0.13	0.044	74

MDL: Method detection limit; Compound below this level would not be detected.


Jaime Chow
Laboratory Director



August 6, 1990

Mr. Lester Feldman
Regional Water Quality Control Board
San Francisco Bay Region
1800 Harrison Street
Oakland, California 94612

RE: Termination of Anania Geologic Engineering's (AGE) Services
at the Carnation Dairy Facility Located at 1310 14th Street
in Oakland, California

AGE Project Number 004-88-059

Dear Mr. Feldman:

This letter is to notify you that the Carnation Company has terminated the contract with Anania Geologic Engineering (AGE) as environmental consultant at the Oakland Dairy Facility. Effective August 24, 1990, AGE will no longer be associated with any site investigation and remediation of the contaminated soil and groundwater at the facility located at 1310 14th Street in Oakland.

In conjunction with the termination, Carnation directed AGE to remove all of our equipment from the site. The groundwater treatment system has been dismantled and was rendered completely inoperative on August 3, 1990. The last date of discharge to the sanitary sewer under wastewater discharge permit 033-00572 issued by the East Bay Municipal Utilities District also occurred on August 3, 1990. AGE is continuing with the demobilization operations and is in the process of terminating the existing permits issued to AGE associated with the investigation and remediation at the facility.

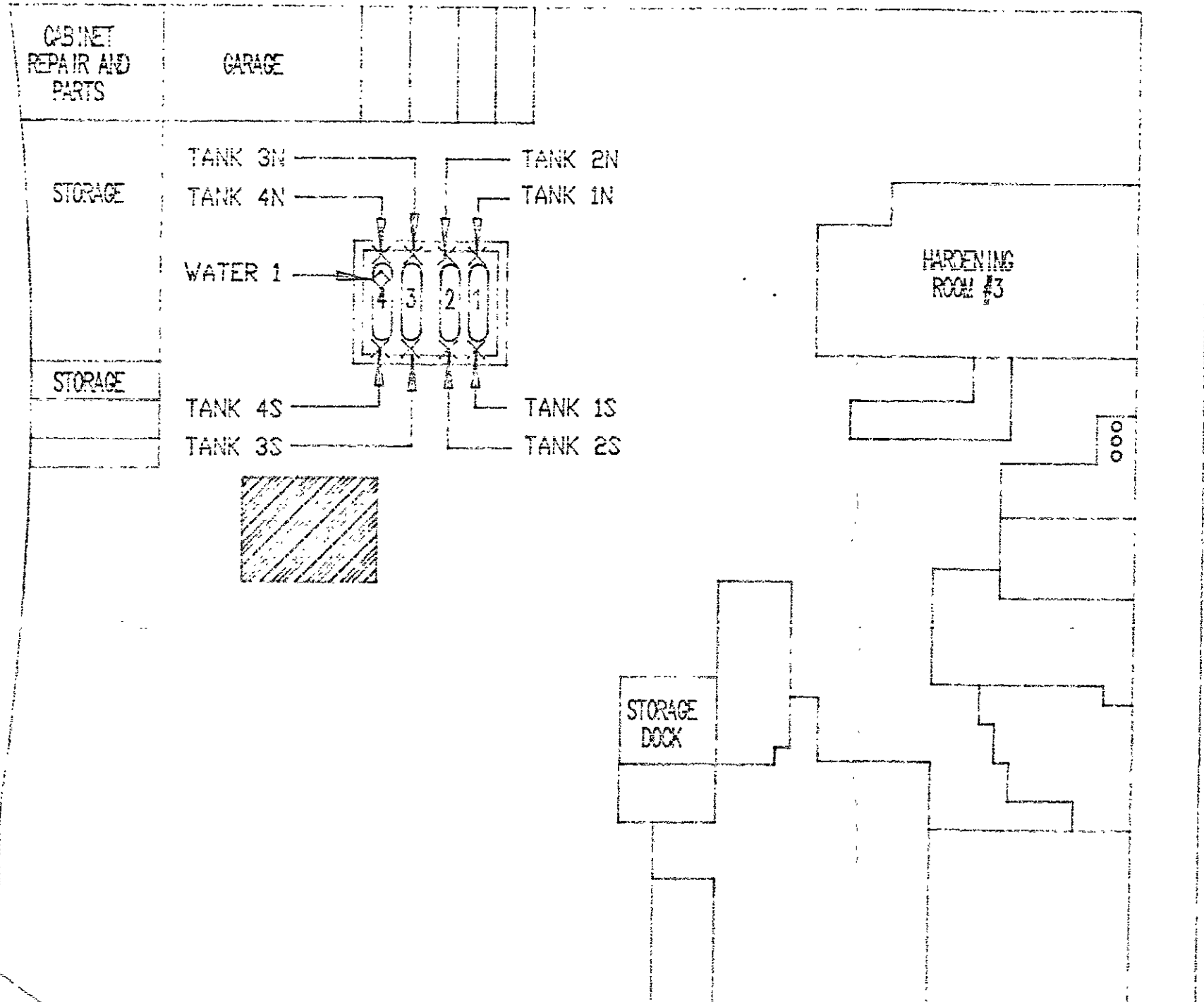
If you have any questions concerning this matter please do not hesitate to call me at (916) 631-0154.

Sincerely,

Mary L. Scruggs
General Partner

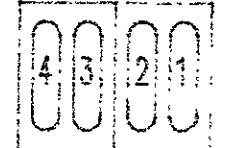
cc: Ms. Katherine Chesick, Alameda County

16th ST.



LEGEND

FORMER UNDERGROUND STORAGE LOCATIONS



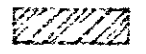
SOIL SAMPLE LOCATION

× TANK 1N

WATER SAMPLE LOCATION

◇ WATER 1

APPROX. STOCKPILE SOIL



POPLAR ST.

AGE
ANANIA GEOLOGIC ENGINEERING

TITLE: SITE MAP