clsd LOP file

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

Alameda County Environmental Health Dept.
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda CA 94502-6577
(510)567-6700 fax: (510)337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 4107 - 5965 Dougherty Rd, Dublin, CA

December 8, 1995

Mr. R. N. Stefan
La Mirada Association
18 Sunnyside Lane
Orinda, CA 94563

Dear Mr. Stefan:

This letter confirms the completion of site investigation and remedial action for the two former underground storage tanks (1-2,000 and 1-10,000 gallon tanks) removed from the above site on October 28, 1993. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations. Please contact Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

Jun Makishima

Jun Makishima, Interim Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Mike Harper, SWRCB (with attachment)
files (stefan.7)

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION **Date: April 19, 1995**

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Pkwy**
City/State/Zip: **Alameda, CA 94502** Phone: **(510) 567-6700**
Responsible staff person: **Eva Chu** Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **R. N. Stefan**
Site facility address: **5965 Dougherty Rd, Dublin 94568**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **4107**
URF filing date: **3/28/95** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
La Mirada Assoc	18 Sunnyside Lane	
R.N. Stefan	Orinda, CA 94563	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	2,000	Gasoline	Removed	10/28/93
2	10,000	Diesel	Removed	10/28/93

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**
Site characterization complete? **YES**
Date approved by oversight agency: **3/6/95**
Monitoring Wells installed? **Yes** Number: **1**
Proper screened interval? **Yes, 7 to 20.5'**
Highest GW depth below ground surface: **9.04'** Lowest depth: **10.56'**
Flow direction: **SW**
Most sensitive current use: **Commercial**
Are drinking water wells affected? **No** Aquifer name: **Dublin Subasin**
Is surface water affected? **No** Nearest affected SW name: **NA**
Off-site beneficial use impacts (addresses/locations): **None**

Report(s) on file? **YES** Where is report(s) filed? **Alameda County**
1131 Harbor Bay Pkwy
Alameda, CA 94502

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	2 USTs and piping	Erickson, Richmond	10/28/93
Free Product	85 gallon	Demenno Kerdoon, Compton	10/27/93
Soil	180 cy	Vasco Rd L.F., Livermore	11/19/93
Groundwater			
Barrels			

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil* (ppm) Before	Soil* (ppm) After	Water (ppb) Before**	Water (ppb) After
TPH (Gas)	15	15	1,700	ND
TPH (Diesel)	290	290	NA	ND
Benzene	.0089	.0089	4.8	ND
Toluene	.036	.036	11	ND
Ethylbenzene	.054	.054	15	ND
Xylenes	.073	.073	32	ND
Oil & Grease				
Heavy metals	Soluble Pb			ND
Other				

* Soil sample collected from beneath dispensers
** Grab groundwater sample

Comments (Depth of Remediation, etc.):

Soil samples collected beneath the two USTs did not exhibit elevated levels of petroleum hydrocarbons. A grab groundwater sample detected 1,700 ppb TPH-G and low levels of BTEX. Soil samples collected from beneath the dispenser exhibited up to 290 ppm TPH-D and .0089 ppm benzene. No overexcavation was performed.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **YES**
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **YES**
Does corrective action protect public health for current land use? **YES**
Site management requirements: **None**
Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommissioned: **0, pending site closure**
Number Decommissioned: 0 Number Retained: 1
List enforcement actions taken: ***None***
List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: [signature] Date: 6/22/95

Reviewed by

Name: Madhulla Logan Title: Haz Mat Specialist

Signature: [signature] Date: 6/13/95

Name: Amy Leech Title: Haz Mat Specialist

Signature: [signature] Date: 6/21/95

VI. RWQCB NOTIFICATION

Date Submitted to RB: 6/23/95 RB Response: 7/10/95 Approved

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature: [signature] Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

On October 28, 1993, two USTs were removed from the site: one 2,000 gal. gasoline, and one 10,000 gal. diesel tank. A strong hydrocarbon odor was noted from the UST pit at the time of the tank removal. However, soil samples collected from native soil beneath the USTs did not detect elevated levels of contaminants. A grab groundwater sample detected 1,700 ppb TPH-G and low levels of BTEX. A soil sample was collected from beneath each of the dispensers, which were located within 5' of one another. The south dispenser collected at 5' depth exhibited up to 290 ppm TPH-D and did not detect TPH-G or BTEX. The north dispenser sample collected at 4' depth detected 5.9 ppm TPH-D, 15 ppm TPH-G, .0089, .014, .016, and .035 ppm BTEX, respectively.

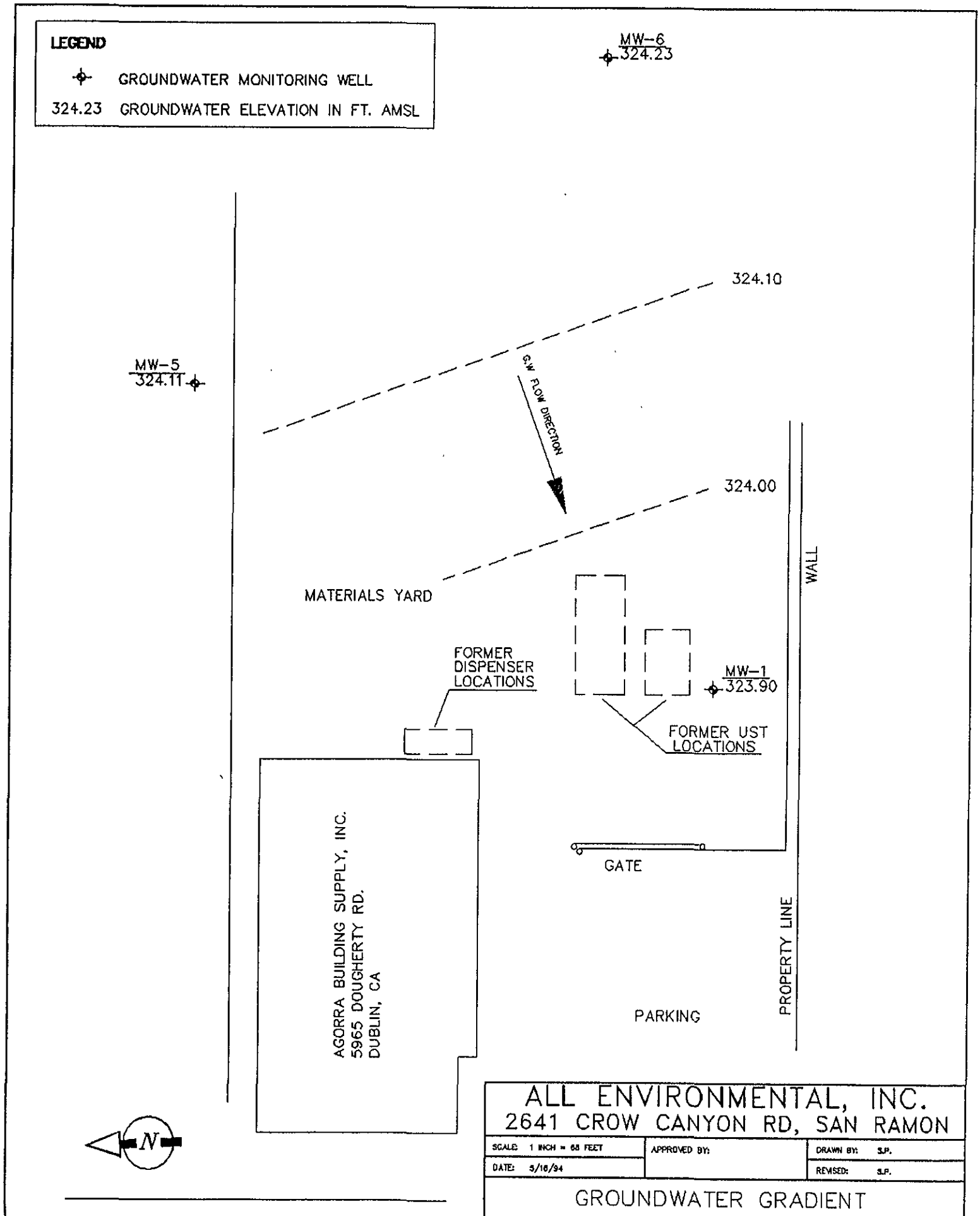
A groundwater monitoring well, MW-1, was installed south of the former UST pit to assess groundwater quality beneath the site. The boring log for MW-1 reveals the site is underlain by stiff silty clays to approximately 4' bgs, and stiff clays to approximately 20.5' bgs. Two offsite wells were surveyed along with the onsite well. Groundwater was determined to flow to the southwest. Groundwater has been sampled for four consecutive quarters, from May 1994 to February 1995, without detecting TPH-D, TPH-G, BTEX, or soluble lead.

On March 24, 1994, another boring was advanced beneath the dispenser, to 5' depth, where soil detected 64 ppm TPH-D, and ND, .036, .054, and .073 ppm BTEX, respectively. Although a well was not installed downgradient from the former dispensers, the lateral extent and concentration of TPH-D and

BTEX in this area appears to be limited. And, with the low levels of BTEX detected, and low permeable soil at the site, residual contaminants in soil should pose no significant threat to groundwater quality.

Continued monitoring is not warranted and site closure recommended.

stefan5



ALL ENVIRONMENTAL, INC.
2641 CROW CANYON RD, SAN RAMON

SCALE: 1 INCH = 68 FEET	APPROVED BY:	DRAWN BY: S.P.
DATE: 9/16/94		REVISED: S.P.

GROUNDWATER GRADIENT

5965 DOUGHERTY RD.

DRAWING NUMBER: FIGURE 3

gasoline with Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) distinction. Stockpiled soil was analyzed for Total Petroleum Hydrocarbons (TPH) as diesel, Total Petroleum Hydrocarbons (TPH) as gasoline with Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) distinction, and total lead. One water sample (GW-3C) was analyzed for Total Petroleum Hydrocarbons (TPH) as diesel and one water sample (GW-1A) was analyzed for Total Petroleum Hydrocarbon (TPH) as gasoline. All sample results can be found in Table 1 (Sample Analyses). EPA analytical methods, as shown in Table 2, were used. All sampling locations are shown on Figure 3 (Sample Location Map).

Table 1: Sample Analyses

Sample I.D.	Gasoline (mg/kg)	Diesel (mg/kg)	Total Lead (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl Benzene (ug/kg)	Xylenes (ug/kg)
DISP 1S 5'	N.D.	290	---	N.D.	N.D.	N.D.	N.D.
DISP 2N 4'	15	5.9	---	8.9	14	16	35
DBE 12'6"	N.D.	N.D.	---	N.D.	N.D.	N.D.	N.D.
DBW 12'6"	N.D.	N.D.	---	N.D.	N.D.	N.D.	N.D.
GBE 9'6"	N.D.	N.D.	---	N.D.	N.D.	N.D.	N.D.
GBW 9'6"	1.0	N.D.	---	N.D.	N.D.	5.1	13
STKP 1-4E*	13	N.D.	9.8	8.8	23	41	110
STKP5-8W*	11	26	8.8	7.3	21	34	91
GW-1A **	1700	---	---	4.8	11	15	32
GW-3C **	---	N.D.	---	---	---	---	---

South disp.

(mg/kg) = ppm or parts per million

(ug/kg) = ppb or parts per billion

N.D. = Not Detected

---- = not analyzed

* Composited soil samples

** in ug/L

Copies of the analytical results and chain of custody are located in Appendix E.

Gasoline (EPA Method 5030/8015), TPH Diesel (EPA Method 3510/8015) and BTEX (EPA Method 602). All constituents analyzed ND.

Analytical results are listed in the following table:

Table 1 - Soil and Water Sample Analyses

Sample ID	TPHG mg/Kg	TPHD mg/Kg	Benz. ug/Kg	Tol. ug/Kg	Et.Ben ug/Kg	Xylene ug/Kg	Lead mg/Kg
MW-1#1	ND	---	ND	ND	ND	ND	8.0
MW-1#3	ND	ND	ND	ND	ND	ND	3.6
Disp5'	ND	64	ND	36	54	73	12.
Water	**TPHG ug/L**	**TPHD ug/L**	**Benz. ug/L**	**Tol. ug/L**	**Et.Ben ug/L**	**Xylene ug/L**	
MW-1	ND	ND	ND	ND	ND	ND	

mg/Kg and mg/L = ppm
ug/Kg and ug/L = ppb
ND = not detected
--- = not analyzed

Laboratory results and chain of custody documents are included in Appendix C, Analytical Results.

9.0 GROUNDWATER GRADIENT

Three wells were used to determine groundwater gradient, one on an adjoining property (MW-5), one on the site installed by others (MW-6), and the new well installed by AEI (MW-1). These are shown on Figure 2: Site Map.

R. C. Miller, LS.,PE., established the top of casing elevation for the new well in relation to the existing well on site and the wells on the adjacent site. These are listed below. A copy of R. Miller's report is included in Appendix B, Boring and Well Logs.

Well ID	Well Elevation - Ft. Above Mean Sea Level
MW-1	332.938 ft. - Top of Casing
MW-5	332.448 ft. - "X" on Cover Rim

although thin lenses of perched water bearing permeable sands and gravels can be found at depths as shallow as 9' below grade. Groundwater flow is generally to the southwest, as discussed in AEI's well installation report (Ref. 3).

5.0 GROUNDWATER SAMPLE ANALYSES

Groundwater samples were collected from well number MW-1 on February 9, 1995. A log detailing the well sampling is included in Appendix A, Current Laboratory Analyses and Chain of Custody Documentation. The groundwater samples were analyzed by Priority Environmental Labs (State Certification #1708) in Milpitas, California. The samples were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G) (EPA Method 5030/8015), Total Petroleum Hydrocarbons as Diesel (TPH-D) (EPA Method 3510/8015), and benzene, toluene, ethyl benzene, and total xylenes (BTEX) (EPA Method 8020/602).

Analyses showed ND (non-detect) for all constituents. Current groundwater sample analyses with chain of custody documentation are included in Appendix A. Analytical data and chain of custody documentation for the previous sampling are included in Appendix B.

Table 1 presents the results of this sampling, along with results from the previous sampling, with the blank column representing the remaining scheduled sampling.

Table 1 - Water Sample Analysis Results, Well No. MW-1

Compound	May 1994	Aug. 1994	Nov. 1994	Feb. 1995
TPH-G (ug/L)	ND	ND	ND	ND
TPH-D (ug/L)	ND	ND	ND	ND
Benzene (ug/L)	ND	ND	ND	ND
Toluene (ug/L)	ND	ND	ND	ND
Et. Benz. (ug/L)	ND	ND	ND	ND
Xylene (ug/L)	ND	ND	ND	ND
Lead (mg/L)		ND		

ug/L = ppb; mg/L = ppm; ND = not detected