

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



lop clsd

Alameda County CC4580
Environmental Health Services
1131 Harbor Bay Pkwy., #250
Alameda CA 94502-6577
(510)567-6700 FAX(510)337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 4143 - 8522 Blaine Street, Oakland, CA

May 9, 1996

Ms. Martha Ritchie
8522 Blaine Street
Oakland, CA 94621

Dear Ms. Ritchie:

This letter confirms the completion of site investigation and remedial action for the former underground storage tank (1-500 gallon gasoline tank) removed from the above site on May 13, 1992. 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,

Mee Ling Tung, Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Lori Casias, SWRCB (with attachment)
files (ritchie.3)

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: February 26, 1996

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: Martha Ritchie
Site facility address: 8522 Blaine Street, Oakland 94621
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4143
URF filing date: 6/19/92 SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

Martin Ritchie 8522 Blaine Street, Oakland, CA 94621

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	500	Gasoline	Removed	5/13/92

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown
Site characterization complete? YES
Date approved by oversight agency: 12/7/94
Monitoring Wells installed? Yes Number: 1
Proper screened interval? Yes, 7 to 20' bgs
Highest GW depth below ground surface: 6..5 Lowest depth: 6.60'
Flow direction: West-southwest, based on gradient from across the street at Longview Fibre, 8511 Blaine St.
Most sensitive current use: Residential
Are drinking water wells affected? No Aquifer name: Unknown
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

0043 RE L-15196

NON-PROFIT
WATERWORKS

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> <u>(include units)</u>	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tank	1 UST	Disposed by Erickson, in Richmond	5/13/92
Free Product	500 gallon	Romic Chemical in Palo Alto	5/18/92

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After ¹	Before ²	After
TPH (Gas)	250	380	14,000	ND
Benzene	0.72	0.43	360	ND
Toluene	2.4	1.1	260	ND
Ethylbenzene	1.9	6.8	480	ND
Xylenes	14.0	17	2,000	ND

NOTE: 1 from soil boring b1 at 8' bgs
2 "grab" groundwater from tank excavation

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **Undetermined**
 Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **Undetermined**
 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: **None, pending site closure**
 Number Decommissioned: **0** Number Retained: **1**
 List enforcement actions taken: **NOV issued 4/1/93, 6/22/93, and 9/20/93**
Pre-enforcement Review Panel 1/18/94

List enforcement actions rescinded: **Above, in compliance**

V. LOCAL AGENCY REPRESENTATIVE DATA

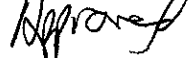
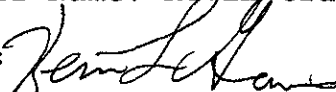
Name: Eva Chu Title: Haz Mat Specialist
Signature:  Date: 2/26/96

Reviewed by

Name: Barney Chan Title: Haz Mat Specialist
Signature:  Date: 2/26/96

Name: Thomas Peacock Title: Supervising HMS
Signature:  Date: 2-26-96

VI. RWQCB NOTIFICATION

Date Submitted to RB: 2/27/96 RB Response: 
RWQCB Staff Name: Kevin Graves Title: AWRCE
Signature:  Date: 3/5/96

VII. ADDITIONAL COMMENTS, DATA, ETC.

When a 550 gallon gasoline UST was removed on May 13, 1992, two soil samples (#1-550-E-8 and #5-N-8) from 8' bgs and one "grab" groundwater sample (#4-H20-10) from 10' bgs were collected from the excavation. Analytical results revealed elevated levels of TPH-G and BTEX in both soil and groundwater. (See Tables 1 and 2). The east wall was overexcavated laterally approximately 5' and vertically to a depth of 9'. Soil samples were collected from the east (SS-1) and north (SS-2) sidewalls at 8' depth. Soil sample SS-2 contained low levels of TPH-G and BTEX, and SS-1 did not indicate the presence of TPH-G or BTEX. (See Table 3). Aerated stockpiled soil was placed back into the excavation without proper characterization.

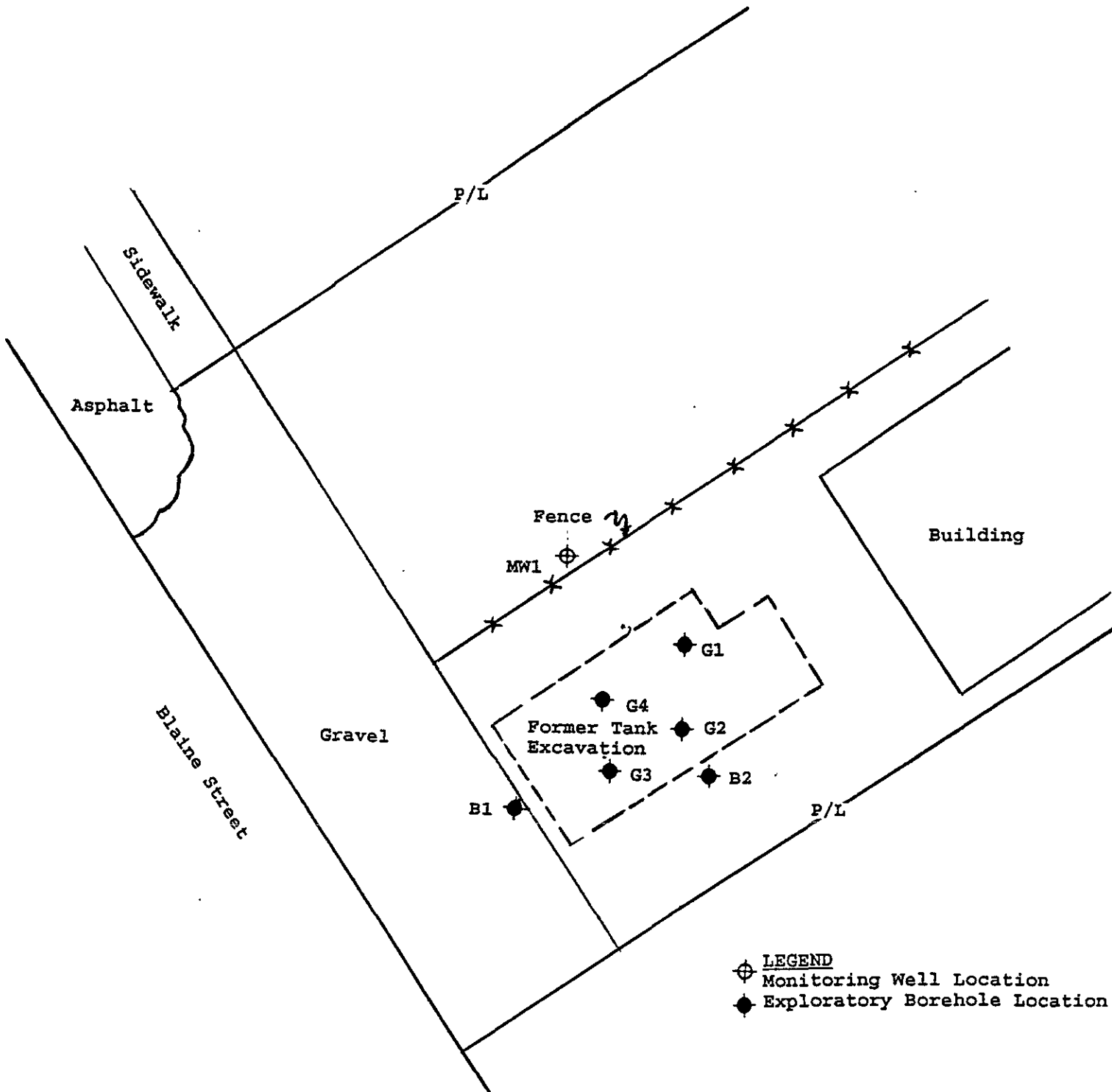
In October 1994 one monitoring well MW-1 was installed west, northwest of the former tank excavation. Two soil borings, B1 and B2, were advanced in native soil southwest and southeast, respectively, of the pit to 8' bgs. Four borings (G1 through G4) were also advanced to 4' depth within the former tank pit to collect soil samples from the stockpiled soil which was returned into the excavation. None of the soil from within the pit contained BTEX, and only G2 revealed 4.2 ppm TPH-G. Boring B1 exhibited elevated levels of TPH-G (380 ppm) and up to 0.43, 1.1, 6.8, and 17 ppm BTEX, respectively. (See Fig 1, Table 4).

Residual soil contamination does not appear to be extensive, and is limited to the immediate vicinity of the former excavation, toward the north and westerly direction. Using ASTM's Tier 1 RBSL Look-up Table, it appears benzene levels detected in borings B1 should pose no human health risk via soil volatilization to outdoor air (ie, risk does not exceed 3×10^{-6}).

Based on the measured depth to groundwater from the onsite well and from wells at the neighboring Longview Fibre and George Robinson sites, apparent groundwater flow direction is to the west-southwest with a relatively flat gradient (0.0005 to 0.001). After four consecutive quarters of sampling (from Oct 1994 to Aug 1995) TPH-G and BTEX have not been detected in well MW-1. (See Table 5). Although MW-1 appears to be located more cross-gradient than downgradient from the tank pit, any significant fuel impact to groundwater should have been detected with the relatively flat gradient of shallow groundwater beneath the site. In addition, well MW-3 which was recently installed at the Longview Fibre site (approximately 120' downgradient from the former Ritchie UST) was sampled on November 1995 and did not reveal detectable levels of TPH-G or BTEX. (See Fig 2, Table 6). Continued sampling is not warranted at the Ritchie site.

P & D ENVIRONMENTAL

4020 Panama Court
Oakland, CA 94611
Telephone (510) 658-6916



LEGEND
⊕ Monitoring Well Location
● Exploratory Borehole Location

Base Map From
P&D Environmental
November, 1994



0 5 10
Scale in Feet

Figure 1
SITE PLAN
Ritchie Site
8522 Blaine Street
Oakland, California

November 18, 1994
Report 0056.R1

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RESULTS
FUEL TANK PIT SOIL SAMPLES
(Samples Collected by SEMCO on May 14, 1992)

Sample No.	Organic Lead	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes
#1-550-E-8	ND	250	0.72	2.4	1.9	14
#5-N-8	ND	12	0.026	0.063	0.084	0.60

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

Results are in parts per million (ppm), unless otherwise indicated.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
FUEL TANK PIT GROUNDWATER SAMPLE
(Sample Collected by SEMCO on May 14, 1992)

Sample No.	Organic Lead	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes
#4-H2O-10	ND	14	0.36	0.26	0.48	2.0

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

Results are in parts per million (ppm), unless otherwise indicated.

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
FUEL TANK PIT SOIL SAMPLES
(Samples Collected by VCI on October 1, 1992)

Sample No.	Total Lead	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes
SS-1	15	ND	ND	ND	ND	ND
SS-2	31	1.6	0.0085	ND	0.083	0.48

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

Results are in parts per million (ppm), unless otherwise indicated.

TABLE 4
SOIL BORING
LABORATORY ANALYTICAL RESULTS
(Samples Collected on October 10, 1994)

Sample Location	TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes
G1-4.0	ND	ND	ND	ND	ND
G2-4.0	4.2	ND	ND	ND	ND
G3-4.0	ND	ND	ND	ND	ND
G4-4.0	ND	ND	ND	ND	ND
B1-8.0	380	0.43	1.1	6.8	17
B2-8.0	1.2	ND	0.005	ND	0.009
MW1-10.0	ND	ND	ND	ND	ND

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

Results are in parts per million (ppm), unless otherwise specified.

November 13, 1995
Report 0056.R4

TABLE # 5
SUMMARY OF LABORATORY ANALYTICAL RESULTS

Well No.	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes
Samples Collected on August 24, 1995					
MW1	ND	ND	ND	ND	ND
Samples Collected on May 26, 1995					
MW1	ND	ND	ND	ND	ND
Samples Collected on February 23, 1995					
MW1	ND	ND	ND	ND	ND
Samples Collected on October 14, 1994					
MW1	ND	ND	ND	ND	ND

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.
ND = Not Detected.

METHOD: CA LUFT/8020
TFH GASOLINE/PURGEABLE AROMATICS

TABLE 6

Client: CH2M Hill/SFO
Project: Longview Fibre
Client Sample ID: MW-3_WATER
Sample Matrix: Water
Dilution Factor: 1.0

Lab Sample ID: RA689011
Date Sampled: 11/28/95
Date Received: 11/29/95
Date Extracted: N/A
Date Analyzed: 11/30/95

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>	<u>Units</u>
tert-Butyl methyl ether	0.50	3.5	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethylbenzene	0.50	U	ug/L
Xylenes (total)	0.50	U	ug/L
TFH Gas	15	U	ug/L
Fluorobenzene-SS		99	% rec.

U = Not detected above the reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: 

FORM I

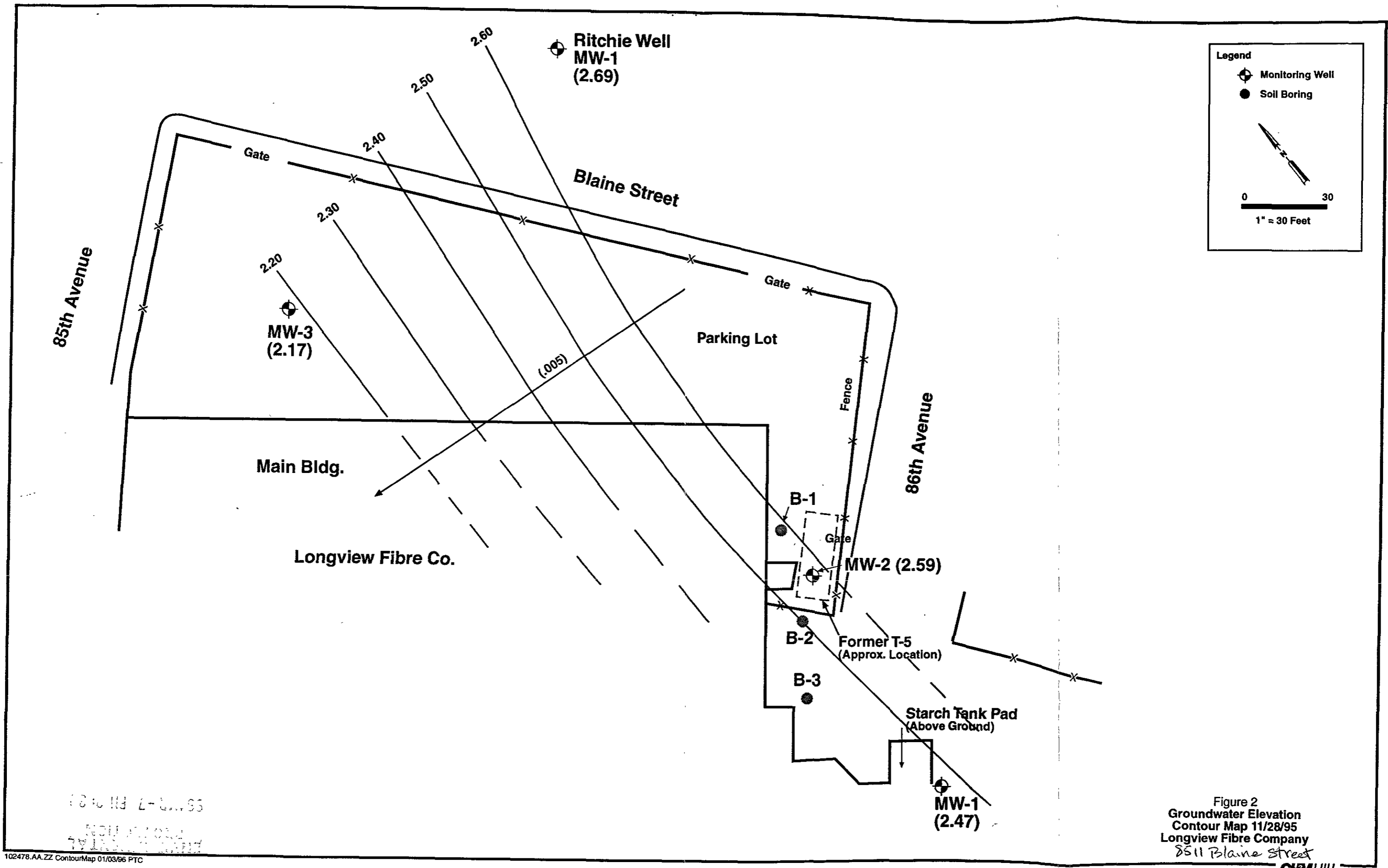
jas.060

Quality Analytical
Laboratories Inc.

5090 Caterpillar Road,
Redding, CA 96003-1412

916 244-5227
Fax No. 916 244-4109

000022



Legend

- Monitoring Well (Symbol: circle with crosshair)
- Soil Boring (Symbol: solid black circle)

Scale: 0 to 30 feet
1" = 30 Feet

North Arrow

Figure 2
Groundwater Elevation
Contour Map 11/28/95
Longview Fibre Company
8511 Blaine Street