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

December 22, 1997

STID 4345

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Jim de Vos
Alameda County GSA
Engineering & Environmental Management Dept.
1401 Lakeside Drive, 11th Floor
Oakland, CA 94612

RE: NIKE MISSILE SITE, 2892 FAIRMONT DRIVE, SAN LEANDRO

Dear Mr. de Vos:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank are greatly appreciated.

Based on information in the above-referenced file 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 Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director, Environmental Health Services

c: Richard Pantages, Chief, Env. Protection Division
Kevin Graves, RWQCB
Dave Deaner, SWRCB (w/attachment)
SOS/files

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RE: NIKE MISSILE SITE, 2892 FAIRMONT DRIVE, SAN LEANDRO

Dear Mr. de Vos:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]) of the California Health and Safety Code. The State Water Resources Control Board (SWRCB) has required since March 1, 1997 that this agency use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at this site.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- No detectable Total Petroleum Hydrocarbons as Diesel, among other constituents, remain in native soil beneath the former UST to the depth explored (50' below grade).

If you have any questions, please contact the undersigned at (510) 567-6783.

Sincerely,

Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

Enclosures:
1. Case Closure Letter
2. Case Closure Summary

cc: Richard Pantages, Chief, Environmental Protection

- SIGNED COPY -

01NC90228
change to a case

CALIFORNIA REGIONAL WATER
DEC 0 1 1997
QUALITY CONTROL BOARD

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

[redacted]

Agency name: **Alameda County-EPD** Address: **1131 Harbor Bay Pkwy #250**
City/State/Zip: **Alameda, CA 94502** Phone: **(510) 567-6700**
Responsible staff person: **Scott Seery** Title: **Haz. Materials Spec.**

II. CASE INFORMATION

Site facility name: [redacted]
Site facility address: [redacted]
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **4345**
URF filing date: **11/19/93** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Alameda County General Services Agency Attn: Rod Freitag	1401 Lakeside Dr., 11th Fl Oakland, CA 94612	(510) 208-9522

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	6000	diesel	removed	10/27/93

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: UNK

Site characterization complete? YES

Date approved by oversight agency:

Monitoring Wells installed? NO Number: NA

Proper screened interval? NA

Highest GW depth below ground surface: >50' Lowest depth: >50'

Flow direction: UNK

Most sensitive current use: radio transmission facility / open space

Are drinking water wells affected? NO Aquifer name: NA

Is surface water affected? NO Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations): NONE

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Report(s) on file? **YES** Where is report 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	6000 gal	Disposal - Erickson, Inc. Richmond, CA	10/27/93
Piping	~ 270'	Disposal - Erickson, Inc. Richmond, CA	10/27/93
Free Product	NA		
Soil	1 yd^3	Disposal - BFI L.F. Livermore, CA	08/02/94
	70 yds^3	Disposal - on-site	1993

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)[1]		Water (ppb)	
	Before	After	Before	After
TPH (Diesel)	3300	ND	NA	NA
Benzene	ND	"		
Toluene	0.007	"		
Xylene	0.016	"		
Ethylbenzene	ND	"		

Note: 1) "Before: soil results from samples collected below UST or piping during October 1993 closure. "After" soil results reflect samples collected from boring B-1 emplaced next to UST excavation during February 1994.

Comments (Depth of Remediation, etc.):

The site was formerly a Nike missile site, located atop Fairmont Ridge at an elevation of approximately 780' above MSL. It most recently served as a county communication facility.

A single 6000 gallon diesel UST was removed during October 1993. The tank previously served as a fuel supply for emergency generators at the site, and appeared intact upon removal. Soil samples collected from below the edge of the tank hold-down pad and piping trenches revealed up to 3300 ppm TPH-D and detectable toluene and total xylenes.

During the process of uncovering and removing the tank, a stockpile of ~140 yds^3 was generated. A series of SESOIL leachability simulations were run based on latent low levels of diesel components in the stockpile. Simulation results indicate after 30 years, the maximum depth of migration was 4 inches. The stockpile remains on-site.

Leaking Underground Fuel Storage Tank Program

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: NA

Should corrective action be reviewed if land use changes? NO

Monitoring wells Decommisioned: NA

Number Decommisioned: NA Number Retained: NA

List enforcement actions taken: NONE

List enforcement actions rescinded: NA

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Scott Seery Title: Haz Mat Specialist
Signature: Date: 11/24/97

Reviewed by
Name: Tom Peacock Title: Supervising Haz Mat Specialist
Signature: Date: 11-24-97

Name: Brian Oliva Title: Haz Mat Specialist
Signature: Date: 11/14/97

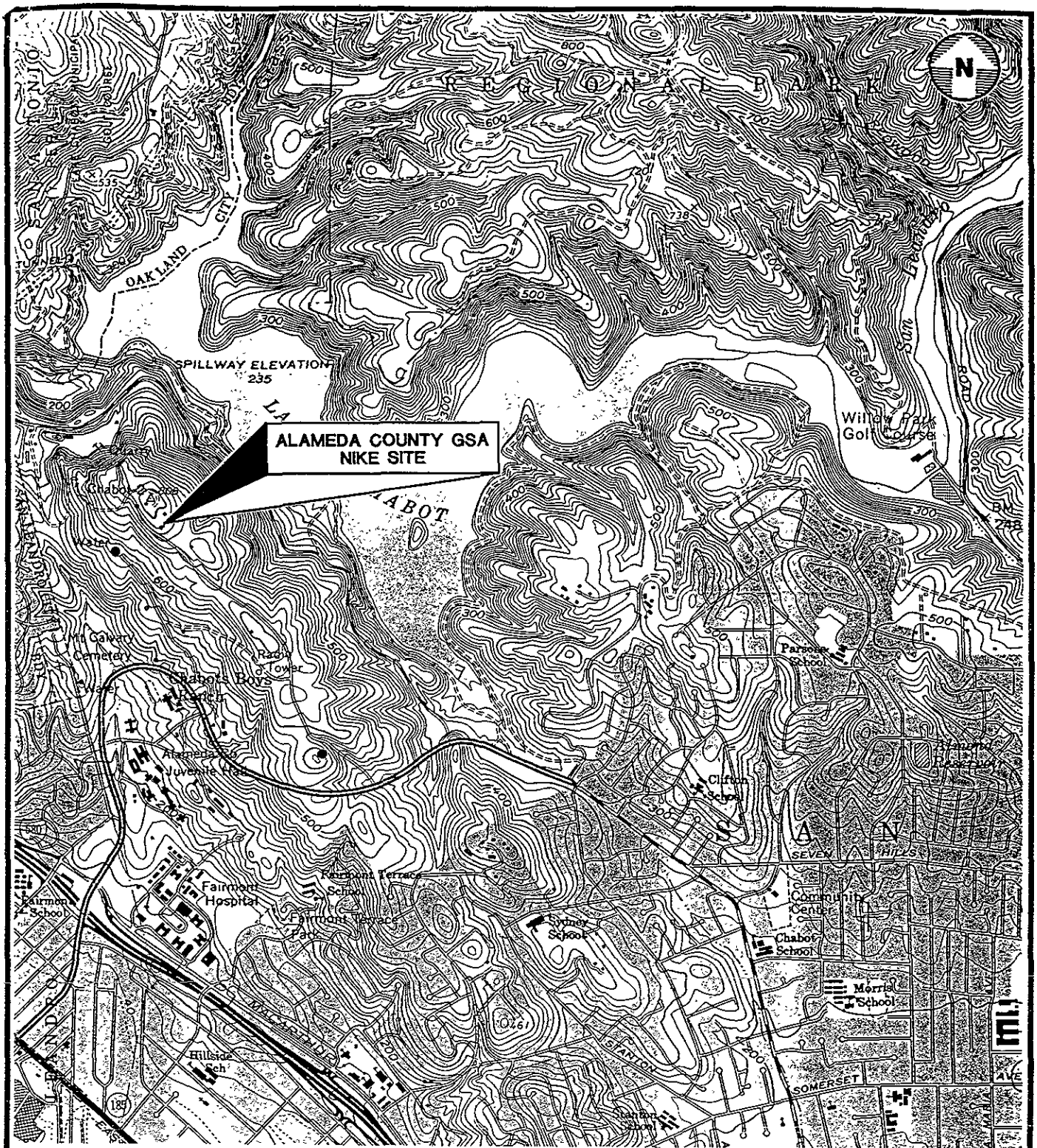
VI. RWQCB NOTIFICATION

Date Submitted to RB: 11/24/97 RB Response: Approved
RWQCB Staff Name: Kevin Graves Title: Sen. Engr. Assoc. Date:

VII. ADDITIONAL COMMENTS, DATA, ETC. 12/15/97

A single soil boring (B-1) was advanced to a depth of 50' BG in an attempt to characterize underlying geology, intercept ground water, and identify the extent of the fuel release. Encountered sediments were predominantly fined-grained materials derived from in-situ weathering of underlying layered sedimentary bedrock. Ground water was not encountered to the depth explored.

No detectable HCs, odors, or evidence of impact were identified in any soil samples collected during advancement. No further action is warranted.



SCALE 1:24,000

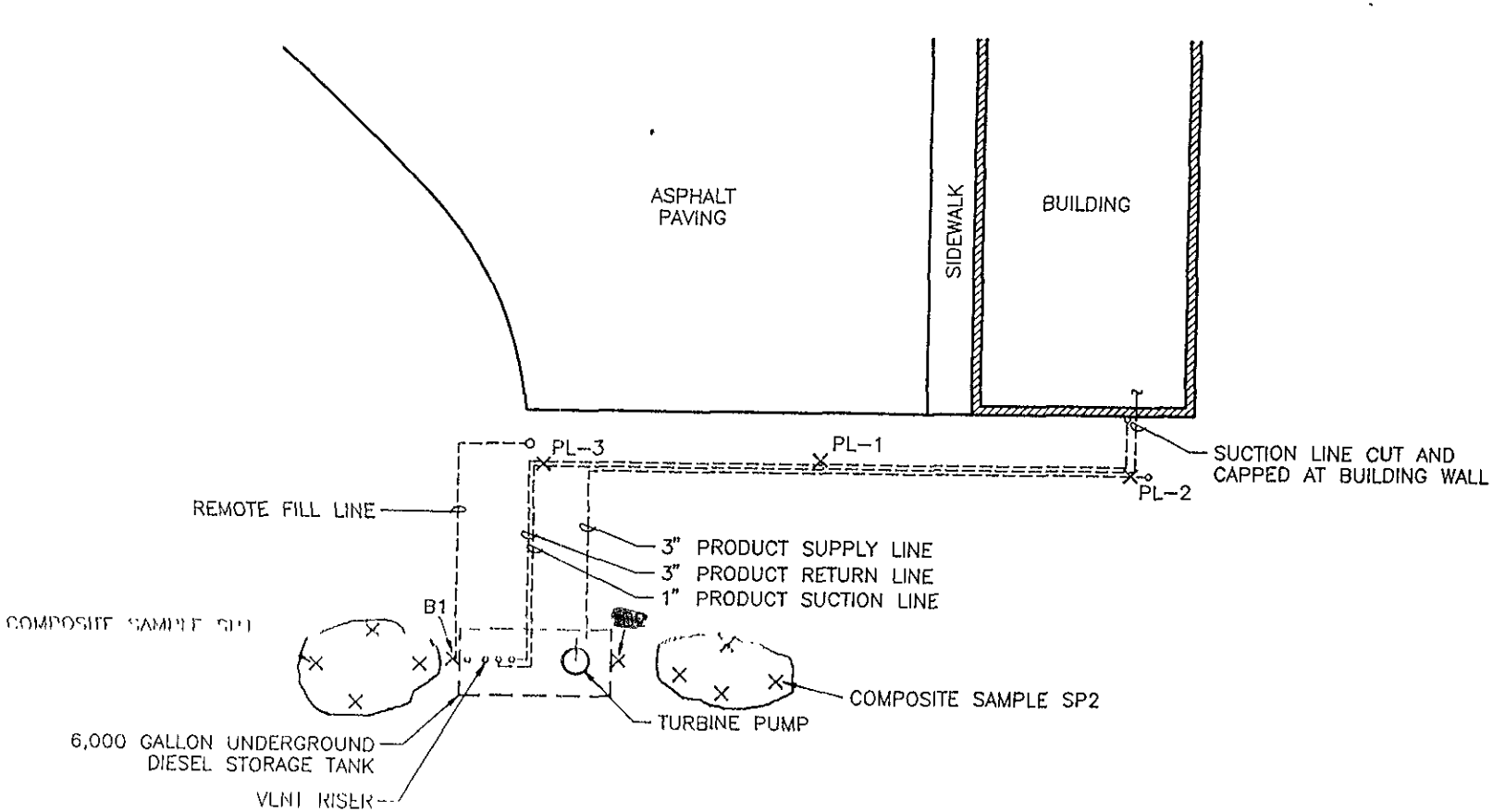
1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

ADAPTED FROM U.S.G.S. HAYWARD, CALIFORNIA 7.5 MINUTE TOPOGRAPHIC QUADRANGLE MAP, 1980.

ESE A CILCORP Company — Environmental Science & Engineering, Inc.	DATE 11/93	LOCATION MAP	FIGURE NO. 1
4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	REVISED	ALAMEDA COUNTY GSA – NIKE SITE 2892 FAIRMONT DRIVE SAN LEANDRO, CALIFORNIA	PROJ. NO. 6-93-5058
	CAD FILE 50581003		



ESE A CILCORP Company — Environmental Science & Engineering, Inc.	DATE 11/93	SOIL SAMPLING PLAN	FIGURE NO. 3
4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	REVISED	ALAMEDA COUNTY GSA – NIKE SITE 2892 FAIRMONT DRIVE SAN LEANDRO, CALIFORNIA	PROJ. NO. 6-93-5058
	CAD FILE 50581002		

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Environmental Science & Eng.	Client Project ID: # 6935058; Nike	Date Sampled: 10/27/93
4090 Nelson Avenue, Suite J		Date Received: 10/27/93
Concord, CA 94520	Client Contact: Mike Foget	Date Extracted: 10/28/93
	Client P.O: W002945	Date Analyzed: 10/28/93

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
32846	PL-1	S	ND	99
32847	PL-2	S	ND	100
32848	PL-3	S	ND	100
32849	SP-1	S	11,e	101
32850	SP-2	S	140,a	100
32851	B-1	S	ND	100
32852	[redacted]	S	3300,a,g	107
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	
		S	10 mg/kg	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(c_L) or heavy(c_H) diesel compounds are significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(pattern unrecognized; aged diesel?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Environmental Science & Eng.	Client Project ID: # 6935058; Nike	Date Sampled: 10/27/93
4090 Nelson Avenue, Suite J		Date Received: 10/27/93
Concord, CA 94520	Client Contact: Mike Foget	Date Extracted: 10/28/93
	Client P.O: W002945	Date Analyzed: 10/28/93

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	Benzene	Toluene	Ethylben-zene	Xylenes	% Rec. Surrogate
32846	PL-1	S	---	ND	ND	ND	ND	93
32847	PL-2	S	---	ND	ND	ND	ND	94
32848	PL-3	S	---	ND	0.007	ND	0.016	94
32849	SP-1	S	---	ND	ND	ND	ND	103
32850	SP-2	S	---	ND	ND	ND	ND	103
32851	B-1	S	---	ND	ND	ND	ND	102
32852	B-2	S	---	ND< 0.05	ND< 0.05	ND< 0.05	0.057	90
Detection Limit unless other-wise stated; ND means Not Detected		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

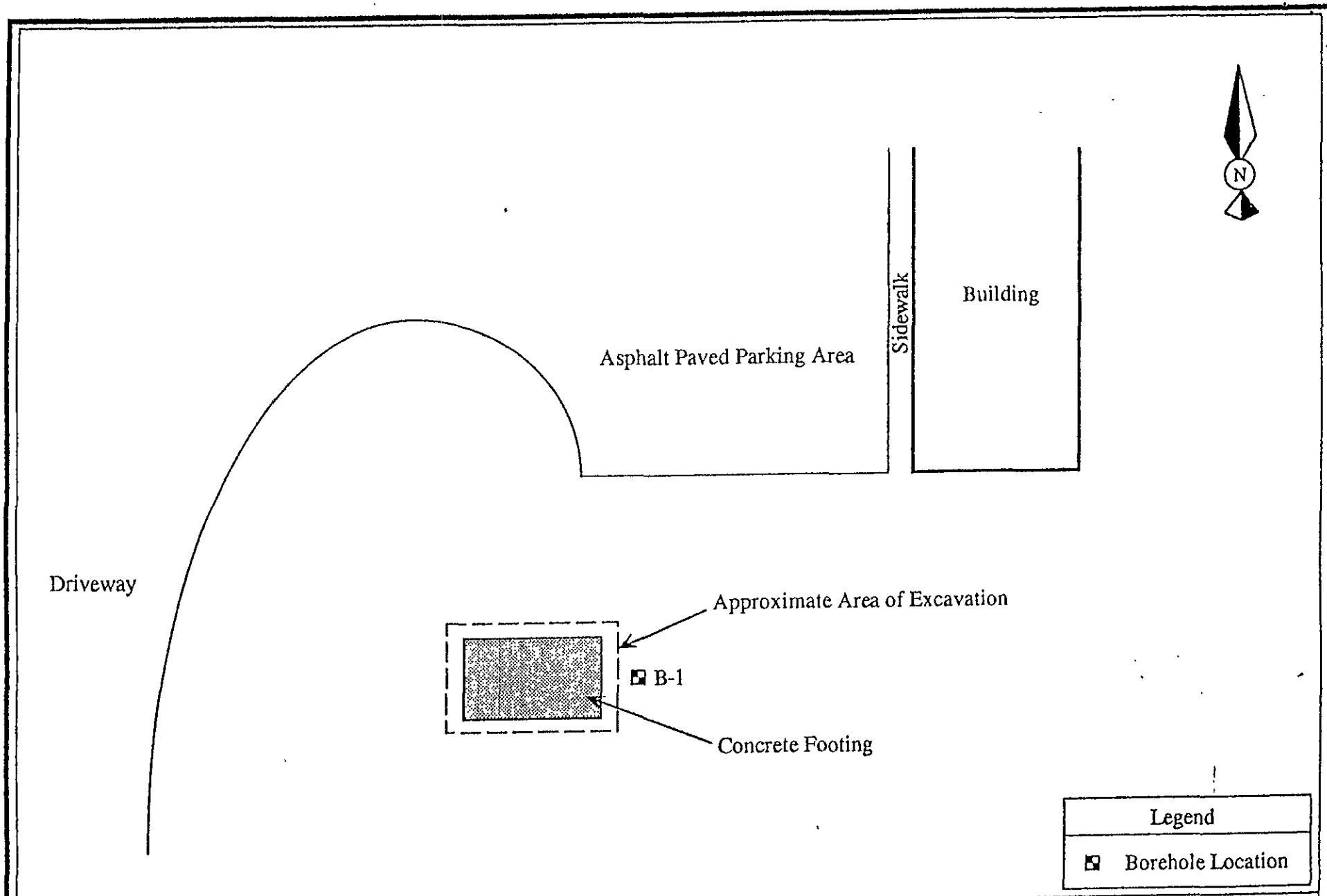
*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak co-elutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible phase is present.

DHS Certification No. 1644

Edward Hamilton, Lab Director



Scale (feet)
0 10 20

Project No. 2241-008

Site Plan

2892 Fairmont Drive
San Leandro, California

Figure 2

Versar, Inc.

TABLE 1

LABORATORY ANALYTICAL RESULTS FOR BORING B-1

Nike Military Site
San Leandro, California

Sample ID	Sample Date	Sample Depth (feet)	TPH-D[1] (mg/kg)[2]	Benzene[3] (mg/kg)	Toluene[3] (mg/kg)	Ethylbenzene[3] (mg/kg)	Total Xylenes[3] (mg/kg)
B-1-1	2/25/94	5	<10[4]	<0.05	<0.05	<0.05	<0.05
B-1-2	2/25/94	10	<10	<0.05	<0.05	<0.05	<0.05
B-1-3	2/25/94	15	<10	<0.05	<0.05	<0.05	<0.05
B-1-4	2/25/94	20	<10	<0.05	<0.05	<0.05	<0.05
B-1-5	2/25/94	25	<10	<0.05	<0.05	<0.05	<0.05
B-1-6	2/25/94	30	<10	<0.05	<0.05	<0.05	<0.05
B-1-7	2/25/94	35	<10	<0.05	<0.05	<0.05	<0.05
B-1-8	2/25/94	40	<10	<0.05	<0.05	<0.05	<0.05
B-1-9	2/25/94	45	<10	<0.05	<0.05	<0.05	<0.05
B-1-10	2/25/94	50	<10	<0.05	<0.05	<0.05	<0.05

[1] Total Petroleum Hydrocarbons as Diesel; EPA Method 8015

[2] Milligrams per kilogram

[3] EPA Method 8020

[4] Not detected at or above the relative method's reporting unit

Versar Inc.	DRILLING LOG	PROJECT NO. 2241-008
Supervising Geologist: Michael Sellens		Site Name: Nike
Log By: Mike Kitko		Boring No: B-1
Date: February 25, 1994		Boring Diameter: 8 inch
Drilling Contractor: Turner Explorations		Boring Depth: 50 feet
Contractor Lic. No. C57-602720		Boring Location: East of excavation
Rig Type: B-53		
Driller: Larry Dibble		

Depth (ft)	Advanced/ Recovered	Blow Counts	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION / SOIL CONDITION AND GEOLOGIC INTERPRETATION SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	Headspace (ppm)
2							0.0' - 4.0' Sand: well rounded, well sorted, medium to coarse grained, moderated yellowish brown, dry, visible oil staining, no hydrocarbon odor.	
4								
6	⊠	8 9 8					4.0' - 9.0' Silty clay: weathered rock, non-plastic, friable, damp, moderate yellowish color, no visible oil staining, no hydrocarbon odor.	0
8								
10	⊠ ⊠	17 20					9.0' - 14.0' Same as above, no visible oil staining, no hydrocarbon odor.	
12		25						0
14								
16	⊠	50/5"					14.0' - 19.0' Same as above, extremely weathered, no visible oil staining, no hydocarbon odor, sample collected.	0
18								
20	⊠ ⊠	9 18					19.0' - 25.0' Same as above, highly weathered rock, poorly indurated, fracture, stiff, damp, no hydrocarbon odor,	0
22	⊠	16					no visible oil staining.	

Versar Inc.	DRILLING LOG	PROJECT NO. 2241-008
Supervising Geologist: Michael Sellens		Site Name: Nike Military Site
Log By: Mike Kitko		Boring No: B-1
Date: February 25, 1994		Boring Diameter: 8 inch
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24								
26		15 18 10					25.0' - 29.0' Same as above.	0
28								
30		14 12					29.0' - 35.0' Same as above, slightly weathered rock, moderately indurated, moist, no hydrocarbon odor, no visible staining.	
32		14						0
34								
36		10 13 18						0
38								
40		12 27					39.0' - 44.5' Same as above, slightly weathered rock, fractured, moderately indurated, moist, no hydrocarbon odor, no visible staining.	
42		50/6"						0
44								

Versar Inc.	DRILLING LOG	PROJECT NO. 2241-008

Supervising Geologist: Michael Sellens	Site Name: Nike Military Site
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Driller: Larry Dibble	

Depth (ft)	Advanced/ Recovered	Blow Counts	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	Headspace (ppm)
46	⊠	31 50/3"					44.5' - 49.0' Same as above.	0
48								
50	⊠	50/6"					49.0' - 50.0' Same as above.	0