

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION
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CO0000754

August 22, 2001

Mr. Keith Gabriel
1826 18th Avenue
San Francisco, CA 94122

Re: No Further Action at 3418 Park Blvd., Oakland, CA

Dear Mr. Gabriel:

This letter confirms the completion of site investigation and remedial action for the soil and groundwater contaminated with total petroleum hydrocarbons as gasoline (TPHg) at the above referenced address. The site is currently occupied by an oil change and car wash facility. A gasoline service station previously occupied the site. It is not known when the former underground storage tanks (USTs) were removed, but it was before 1986.

In September 1986 and July 2001 soil borings were advanced in the vicinity of the former USTs. Soil and grab groundwater samples were collected for TPHg, benzene, toluene, ethyl-benzene and xylene (BTEX) and methyl-tertiary butyl ether (MTBE) analyses. Soil samples collected at 3.5 to 25 feet below ground surface did not contain remarkable levels of analytes sought. Grab groundwater collected from the boring advanced through the former tank pit contained 14,000 parts per billion TPHg, and 120, 12, 220, and 590 ppb BTEX, respectively. MTBE was not detected. Groundwater samples collected from the borings advanced immediately outside the former tank pit did not contain remarkable levels of petroleum hydrocarbon constituents.

It appears that residual soil and groundwater contamination is limited to the immediate vicinity of the former tank pit. The low percentage of BTEX versus the TPHg concentration suggests that the plume is from an old release. Its migration off-site is not likely due to the low permeable sediments at the site. Residual BTEX concentrations should not pose a risk to human health or the environment. Residual TPHg in groundwater is elevated but the plume length appears to be limited to 30 feet from the former tank pit. TPHg levels should continue to naturally bioattenuate.

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

If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

c: Chuck Headlee, SF-RWQCB
Leroy Griffin, Oakland Fire Department

oilchanger-nfa

CO0000754 - Site History

Oil Changers
3418 Park Blvd
Oakland, CA 94610

The property is currently occupied by Oil Changers, where an oil change and car wash facility operates at the site. A gasoline service station previously occupied the site. It is not known when the USTs were removed.

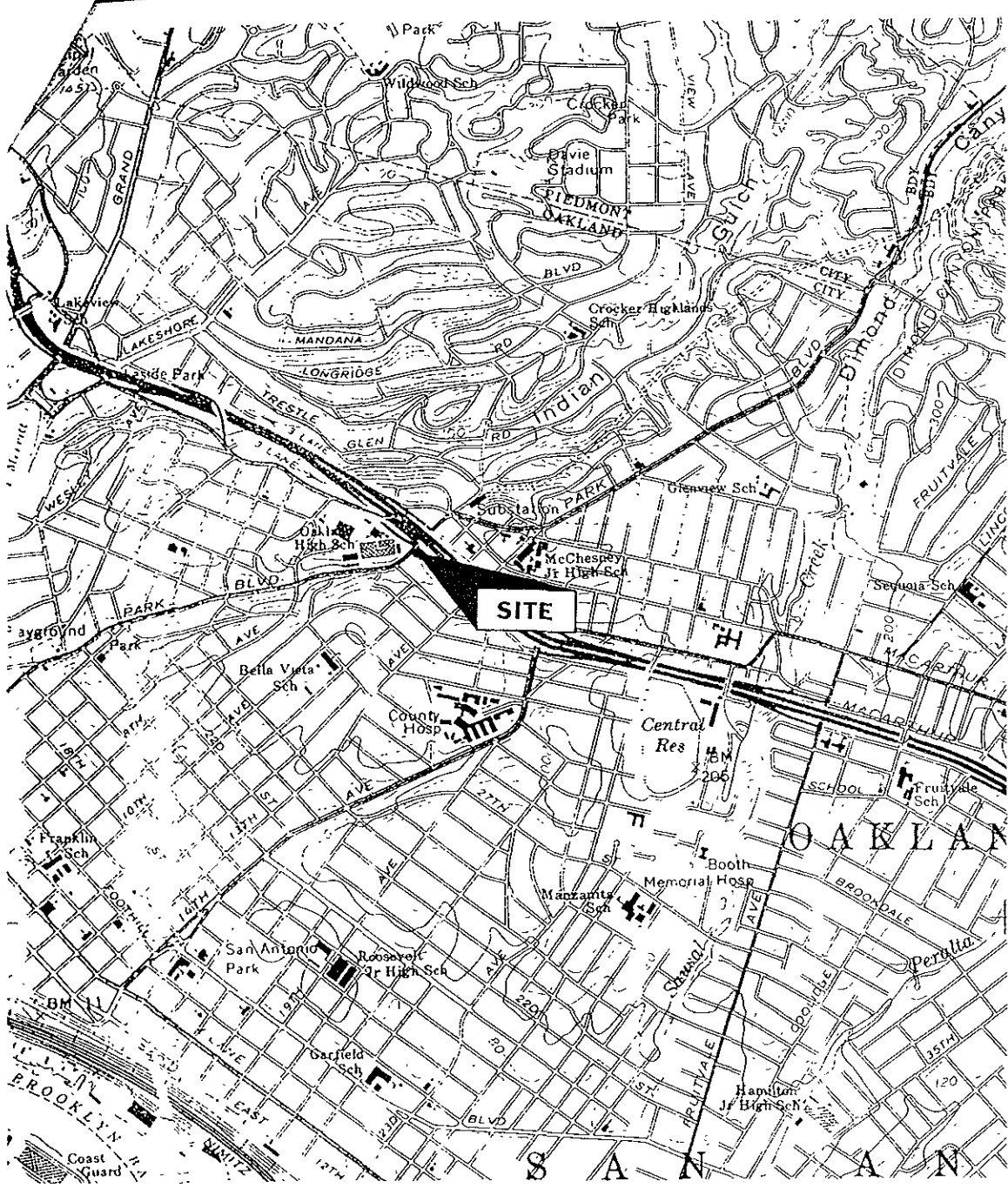
In September 1986, a limited environmental assessment was conducted at the site. Two soil borings were advanced to approximately 13 to 15 feet bgs, adjacent to the northwest and southwest corners of the former fuel UST pit. Groundwater was encountered at approximately 11 feet bgs. Soil and grab groundwater samples were collected from each boring and analyzed for TPHg, and BTX. Soil contained up to 3.5ppm TPHg, and 0.36, 0.10, and 0.048ppm BTX, respectively. The grab groundwater samples contained up to 500ppb TPHg and 31, 8, and 87ppb BTX.

In July 2001, four soil borings, BH-A through BH-D, were advanced to confirm findings from 1986. Boring BH-A was located within the former tank pit. Boring BH-B was drilled west of the former USTs, boring BH-C near the car wash clarifier, and boring BH-D was drilled near the property line along MacArthur Blvd, since a Shell Service Station is located to the northeast in this location.

Soil and groundwater samples from boring BH-A, through the former tank pit, contained the highest detected petroleum hydrocarbon constituents. Up to 1.3ppm TPHg, 310ppm TPHmo and ND BTEX and MTBE were identified in the soil sample. Groundwater contained 14,000ppb TPHg, <50,000ppb TPHd, 740ppb TPHmo, and 120, 12, 220, and 590ppb BTEX. MTBE was not detected. Groundwater from boring BH-B, west and presumed downgradient of the former tank pit, contained unremarkable levels of analytes sought. Groundwater from BH-D did not contain analytes sought.

Native sediments at the site consists primarily of low permeability sandy clay and/or silty clay. Groundwater was encountered at approximately 8 feet and 4 feet bgs in boring BH-A and BH-B, respectively. Groundwater was encountered in boring BH-B at 27.5 feet bgs. No groundwater was encountered in boring BH-C, which was advanced to 10 feet bgs. Groundwater by the tank pit appears to be perched in the sandy clay and silt horizon. First groundwater may actually be at 27 feet bgs, in sand sediments.

It appears that residual soil and groundwater contamination is limited to the immediate vicinity of the former tank pit. Its migration offsite is not likely due to the low permeable sediments at the site. Residual BTEX concentrations should not pose a risk to human health or the environment. Residual TPHg are elevated, but these concentrations should continue to naturally bioattenuate. The low percentage of BTEX versus the TPHg concentration suggests that the plumes is from an old release and that BTEX concentration have reduced, by means of natural bioattenuation. No further action is warranted.



| | |
|--|----------|
| Site Location Map | |
| Oil Changers 3418 Park Boulevard Oakland, California | |
| AQUA SCIENCE ENGINEERS, INC. | Figure 1 |

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7149987319 JACKSON FEDERAL BANK

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TABLE 1

Summary of hydrocarbon concentrations measured on Benzene, Toluene, and Xylene fractions, and total motor fuel.

| Sample I.D. | Benzene (ppm) | Toluene (ppm) | Xylene (ppm) | Total Motor Fuel (gasoline) (ppm) |
|-------------|---------------|---------------|--------------|-----------------------------------|
| #1 soil | 0.020 | 0.100 | 0.045 | 3.500 |
| #1 water | 0.031 | 0.009 | 0.087 | 0.809 |
| #2 soil | 0.002 | 0.016 | 0.004 | 0.340 |
| #2 water | 0.010 | <0.001 | <0.001 | <0.001 < 0.100 |

Analysis performed by Analytica Laboratories, San Jose.

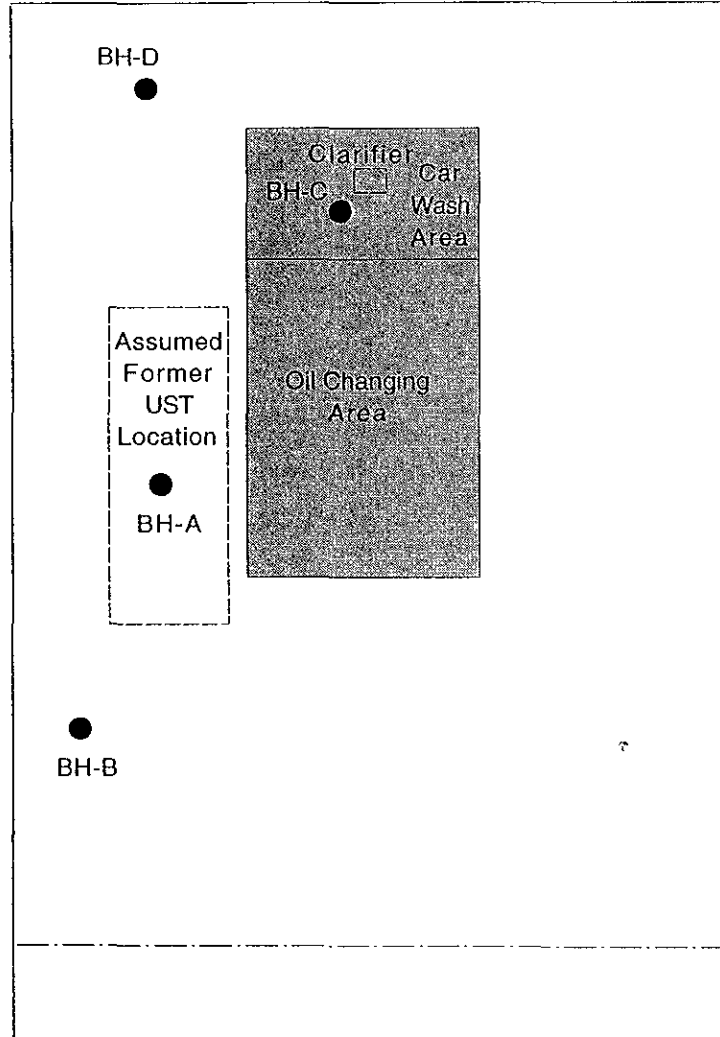


NORTH

SCALE
1" = 30'

MACARTHUR BOULEVARD

PARK BOULEVARD



LEGEND

● Boring Location

Boring Location Map

Oil Changers
3418 Park Boulevard
Oakland, California

AQUA SCIENCE ENGINEERS, INC. Figure 2

TABLE ONE
Summary of Chemical Analysis of SOIL Samples
TPH-G, TPH-D, TPH-MO, BTEX, and MTBE
All results are in parts per million

| Boring | Depth Sampled | TPH Gasoline | TPH Diesel | TPH Motor Oil | Benzene | Ethyl Toluene | Total Benzene | Xylenes | MTBE |
|--------|------------------|-----------------|---------------|------------------|----------|------------------|------------------|----------|----------|
| BH-A | 7.5' | 1.3 | 2.3 | 310 | < 0.0050 | < 0.0050 | < 0.0050 | < 0.0050 | < 0.0050 |
| BH-B | 3.5' | < 1.0 | < 1.0 | 48 | < 0.0050 | < 0.0050 | < 0.0050 | < 0.0050 | < 0.0050 |
| BH-C | 3.5' | < 1.0 | < 1.0 | 14 | < 0.0050 | < 0.0050 | < 0.0050 | < 0.0050 | < 0.0050 |
| BH-D | 25.0' | < 1.0 | < 1.0 | < 10 | < 0.0050 | < 0.0050 | < 0.0050 | < 0.0050 | < 0.0050 |
| PRG | | NE | NE | NE | 0.62 | 520 | 230 | 210 | NE |

Notes:

Detectable concentrations are in **bold**.

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

PRG is the United States Environmental Protection Agency preliminary remediation goal for residential soil.

NE = PRG is not established.

TABLE TWO
Summary of Chemical Analysis of GROUNDWATER Samples
TPH-G, TPH-D, TPH-MO, BTEX, and MTBE
All results are in parts per billion

| Boring | TPH Gasoline | TPH Diesel | TPH Motor Oil | Benzene | Toluene | Ethyl Benzene | Total Xylenes | MTBE |
|--------|-----------------|---------------|------------------|-------------|------------|------------------|------------------|--------|
| BH-A | 14,000 | < 50,000* | 740** | 1.20 | 1.2 | 2.20 | 5.90 | < 1.0 |
| BH-B | 2.30 | < 50 | < 100** | 0.53 | < 0.50 | < 0.50 | 0.78 | < 0.50 |
| BH-D | < 50 | < 50 | < 100 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| MCL | NE | NE | NE | 1.0 | 150 | 700 | 1,750 | 5 |

Notes:

Detectable concentrations are in **bold**.

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

MCL is the California Department of Health Services maximum contaminant level for drinking water.

NE = MCL is not established.

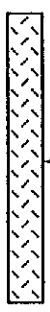


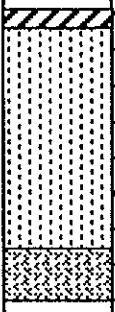
* = Detection limit raised due to interference from the gasoline range hydrocarbons.

** = These samples were centrifuged prior to analysis to avoid interference in the motor oil range due to high sediment content.

BORING LOG AND MONITORING WELL COMPLETION DETAILS Boring: BH-B

Project Name: Oil Changers Project Location: 3418 Park Blvd, Oakland, CA Page 1 of 1
 Driller: Vironex Type of Rig: Geoprobe Size of Drill: 2.0" Diameter
 Logged By: Robert E. Kitay, R.G. Date Drilled: July 6, 2001 Checked By: Robert E. Kitay, R.G.

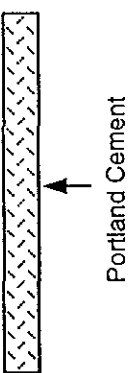






WATER AND WELL DATA
 Depth of Water First Encountered: 4' Total Depth of Well Completed: NA
 Static Depth of Water in Well: NA Well Screen Type and Diameter: NA
 Total Depth of Boring: 8' Well Screen Slot Size: NA
 Type and Size of Soil Sampler: 2.0" I.D. Macro Core Sampler

| Depth in Feet | BORING DETAIL | Description | SOIL/ROCK SAMPLE DATA | | | | | Depth in Feet | DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. |
|---------------|--|-------------|--|-------------|------------|---|--|--|--|
| | | | Interval | Blow Counts | OVM (ppmv) | Water Level | Graphic Log | | |
| 0 |  Portland Cement | |  | | 8 |  |  | 0 | Asphalt |
| 5 | | | | | | | | SAND (SP); black; loose; damp; 95% fine sand; 5% silt; non-plastic; high estimated K; slight hydrocarbon odor wet at 4' | |
| 10 | | | | | | | | 10 | Sandy SILT (MH); olive-brown; medium stiff; moist; 50% silt; 30% fine sand; 20% clay; high plasticity; low estimated K; slight hydrocarbon odor End of Boring at 8' |
| 15 | | | | | | | | 15 | |
| 20 | | | | | | | | 20 | |
| 25 | | | | | | | | 25 | |
| 30 | | | | | | | | 30 | |

BORING LOG AND MONITORING WELL COMPLETION DETAILS Boring: BH-C

Project Name: Oil Changers Project Location: 3418 Park Blvd, Oakland, CA Page 1 of 1
 Driller: Vironex Type of Rig: Geoprobe Size of Drill: 2.0" Diameter
 Logged By: Robert E. Kitay, R.G. Date Drilled: July 6, 2001 Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA
 Total Depth of Well Completed: NA
 Depth of Water First Encountered: Not Encountered Well Screen Type and Diameter: NA
 Static Depth of Water in Well: NA Well Screen Slot Size: NA
 Total Depth of Boring: 10' Type and Size of Soil Sampler: 2.0" I.D. Macro Core Sampler

| Depth in Feet | BORING DETAIL | Description | SOIL/ROCK SAMPLE DATA | | | | | Depth in Feet | DESCRIPTION OF LITHOLOGY |
|---------------|--|--|--|--|--|--|--|---|--------------------------|
| | | | Interval | Blow Counts | OVM (ppmv) | Water Level | Graphic Log | | |
| 0 |  |  |  |  |  |  |  | 0 | Concrete |
| 5 | | | | | | | | Sandy SILT (ML); dark brown; medium stiff; dry; 90% silt; 10% fine sand; trace clay; low plasticity; low estimated K; no odor | |
| 10 | | | | | | | | Sandy CLAY (CH); brown; stiff; dry; 70% clay; 15-20% fine to medium sand; 10-15% silt; high plasticity; very low estimated K; no odor | |
| 10 | | | | | | | | End of Boring at 10' | |
| 15 | | | | | | | | | |
| 20 | | | | | | | | | |
| 25 | | | | | | | | | |
| 30 | | | | | | | | | |

