

Leaking Underground Fuel Tank Data Collection Checklist

LUSTIS
 Local Agency
 RWQCB
 Lead Agency

SITE: CHEVRON
 ADDRESS: 609 OAK ST
 CITY: OAKLAND COUNTY: ALAMEDA
 REVIEWED BY: Jennifer Eberle
 (Name) (Agency)

REG. BOARD No: 02
 DATE: 12-30-94

I. RELEASE INFORMATION (FROM TECHNICAL REPORTS OR OTHER FILE DOCUMENTS)

a) Check type of product(s) which leaked: Gasoline Diesel Waste Oil
 Other _____

b) Was source of leak identified? YES NO
 If YES, check source location(s): Tank Piping Overfill
 Other _____

c) Was rate of release estimated? YES NO
 If YES, specify rate: _____

d) Was mass/volume of release estimated? YES NO
 If YES, specify mass/volume (note unit of measurement): _____

e) Was tank removed? YES NO
 If YES, specify date removed: 10-17-94 3 USTs one 6K gasoline, two 10K gasoline

COMMENTS: _____

II. SITE INVESTIGATION INFORMATION (FROM REPORTS OR OTHER FILE DOCUMENTS)

a) Was "free product" reported? YES NO
 If YES, check location(s) where free product was noted: Excavation Soil Sample
 Monitoring Well tank backfill well
 If MONITORING WELL, specify maximum thickness reported (note unit of measurement): 1.06' in 4-91

b) Was a soil vapor survey conducted? YES NO

c) Was an aquifer test (e.g., pumping or slug test) performed? YES NO
NO + was specifically advised against it (9-23-92 w. 10-26-92 letter)

d) Number of monitoring wells installed at the site: 3 backfill wells + 8 other wells
 e) Number of soil (or "Hydropunch") borings NOT completed as wells: _____

COMMENTS: _____

III. REMEDIATION INFORMATION (FROM TECHNICAL REPORTS OR OTHER FILE DOCUMENTS)

a) Was source area "over-excavated"? YES NO
 If YES, specify volume of soil removed or dimensions of excavation: _____

b) Check [X] if any other active remediation at site: Date Started Date Stopped

| | | | |
|-------------------------------------|----------------------------------|----------------|--|
| <input type="checkbox"/> | Soil Vapor Extraction/Bioventing | | |
| <input checked="" type="checkbox"/> | Pump and Treat <u>w/carbon</u> | <u>11-8-93</u> | |
| <input type="checkbox"/> | Air sparging | | |
| <input type="checkbox"/> | Hydrogen peroxide injection | | |
| <input type="checkbox"/> | Nutrient injection | | |
| <input type="checkbox"/> | Slurry wall | | |
| <input type="checkbox"/> | Other | | |

GWE has removed
 ~ 167,000 gal of
 contam gw as of
 11-15-94

Mass/volume of free product removed (if applicable) _____

Mass/volume of dissolved product removed (if applicable) _____

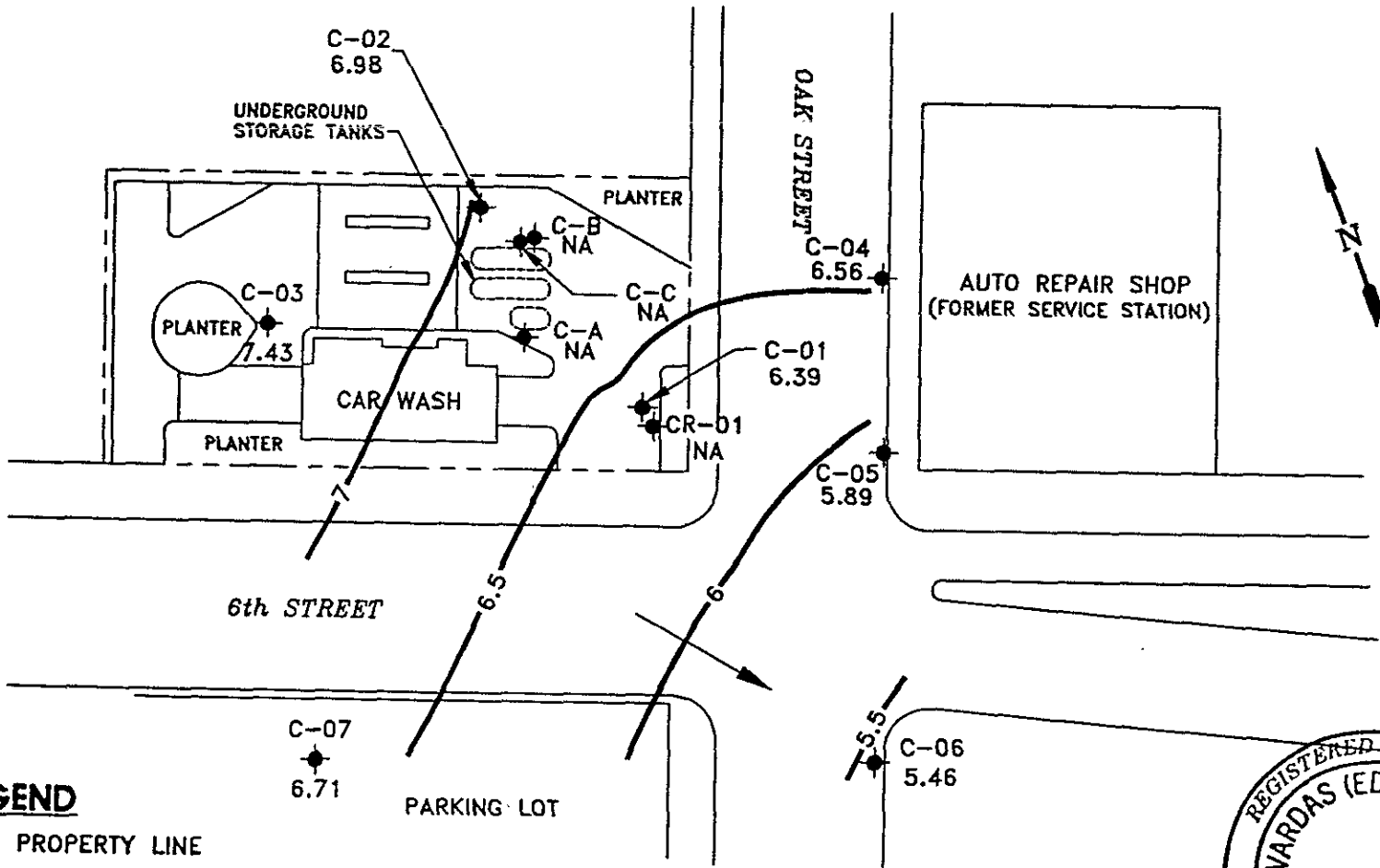
COMMENTS: hand bailing began at least as early as 1-91 + ended
approx 12-92. 600gal pumped out on 5-3-94 via vac truck.
300yd³ soil fm tank removal offhauled. More soil being
aerated currently (12-94).

IV. INFORMATION ITEMS TO COPY FROM REPORTS OR OTHER FILE DOCUMENTS, INCLUDING TABLES, FIGURES ETC. (check [X] if available)

- * Leak history narrative (including most recent summary account of remedial actions to date, if available)
- * Site map(s) showing leak "source" area(s)
- Site map(s) showing monitoring well locations
- Site map showing representative ground water elevation contours
- * Site map(s) showing pollution concentration isocontours in ground water (initial and most recent)
- Site map(s) showing soil boring locations (if not present on any of the above maps)
- * Site map(s) showing isocontours of benzene concentration in soil at representative depths
- Ground water sample analytical data from each well through time (i.e. time series)
- Ground water elevation and depth-to-groundwater measurements from wells thru time (i.e. time series)
- Soil analytical data from tank pit (including over-excavation confirmation samples)
- Soil analytical data from soil boring samples
- Soil boring logs C4 to C6, C8, C9
- Monitoring well construction logs
- * Geologic cross-sections
- * Aquifer yield test data (e.g., results from pumping or slug tests)
- * Other soil or ground water test data (e.g., porosity, soil moisture content, TOC, cone penetrometer, etc.)
- * Soil vapor analytical data (if available), including site map showing soil vapor survey locations
- * Biological indicator parameters (e.g., dissolved oxygen, etc.), if available
- * Local "background" ground water quality, if available

* none in file

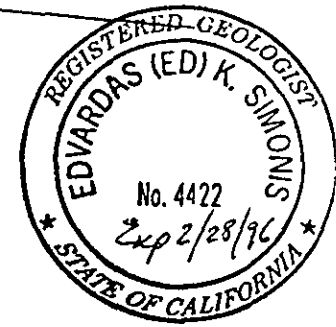
COMMENTS: _____



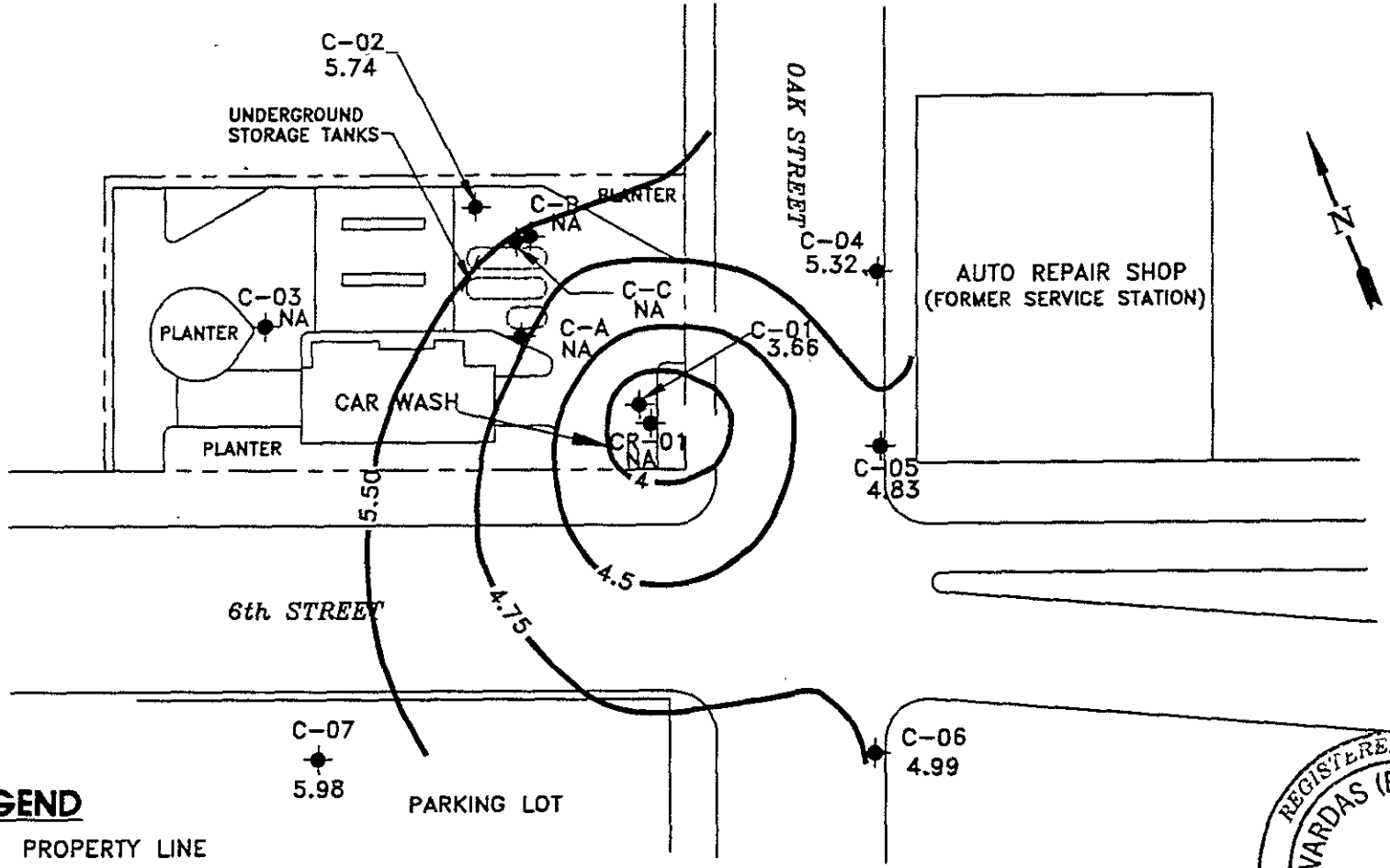
LEGEND

- PROPERTY LINE
- MONITORING WELL
- NA NOT AVAILABLE
- X.XX POTENTIOMETRIC SURFACE ELEVATION (FT)
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:
1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS ABOVE MEAN SEA LEVEL.



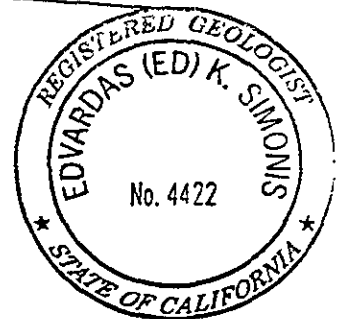
| | | | | | |
|----------------------------|----------------------------|--|-------------|--|---------------|
| | | CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-4587 | | POTENTIOMETRIC SURFACE MAP (6/17/94) | |
| PROJECT NO.: 02010-4111 | | LOCATION: 609 OAK STREET OAKLAND, CALIFORNIA | | | |
| FILE: 4111PSM, (1:40) | PROJECT NO.: 02010-4111 | DES.: SS | DET.: SS | DATE: 7/11/94 | PM: KS |
| REV.: | | | | | PE/RG: EJS |
| | | | | | FIGURE: 1 |



LEGEND

- PROPERTY LINE
- MONITORING WELL
- NOT AVAILABLE
- POTENTIOMETRIC SURFACE ELEVATION (FT)
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:
 1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS ABOVE MEAN SEA LEVEL.



| | | | | | |
|----------------------------|----------------------------|--|-------------|---|--------------|
| | | CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-4587 | | POTENTIOMETRIC SURFACE MAP (9/12/94) | |
| PROJECT NO.: 02010-4111 | | LOCATION: 609 OAK STREET OAKLAND, CALIFORNIA | | | |
| FILE: 4111PSM, (1:40) | PROJECT NO.: 02010-4111 | DES.: KM | DET.: KM | DATE: 10/21/94 | FIGURE: 1 |

amt Free Product removed - Handbailing

| gal | date | gal |
|----------------|----------|-----|
| | 4-91 | 8.5 |
| | 7-91 | 16 |
| | 9-20-91 | 2.1 |
| | 2-4-92 | .4 |
| | 4-1-92 | .8 |
| | 6-25-92 | 1.2 |
| | 12-16-92 | .2 |

29.2 gal-hand bailing

gw extraction system

| as of | gal-dissolved HC's |
|------------------|---|
| as of 6-17-94 | 81,530 |
| on 5-3-94 | 600 via pump truck (tank backfill wells) |
| as of 9-8-94 | 167,000 |

TABLE A
UST AND PRODUCT PIPING SAMPLING SUMMARY
 CHEVRON STATION 9-4587

UST REMOVAL SAMPLING RESULTS

| SAMPLE ID | DEPTH (ft.) | LAB | DATE | TPH - gasoline (ppm) | Benzene (ppm) | Toluene (ppm) | Ethyl-benzene (ppm) | Xylene (ppm) | Total Lead (ppm) |
|-----------|-------------|----------|----------|----------------------|---------------|---------------|---------------------|--------------|------------------|
| SE | 11 | Superior | 10/17/94 | 600 | 3.6 | 11 | 9.0 | 37 | 11 |
| SW | 9 | Superior | 10/17/94 | 18 | 0.093 | 0.16 | 0.36 | 1.2 | 10 |
| ES | 10 | Superior | 10/17/94 | 42 | 0.24 | 0.22 | 0.32 | 1.6 | ND<2 |
| EN | 11 | Superior | 10/17/94 | 2 | 0.27 | 0.12 | 0.023 | 0.12 | ND<2 |
| NE | 10.5 | Superior | 10/17/94 | 3700 | 27 | 200 | 69 | 400 | ND<2 |
| NW | 10.5 | Superior | 10/17/94 | 5 | 0.52 | 0.16 | 0.091 | 0.44 | 13 |
| WN | 10.5 | Superior | 10/17/94 | 40 | 0.2 | 0.12 | 0.81 | 2.4 | ND<2 |

PRODUCT PIPING REMOVAL SAMPLING RESULTS

| SAMPLE ID | DEPTH (ft.) | LAB | DATE | TPH - gasoline (ppm) | Benzene (ppm) | Toluene (ppm) | Ethyl-benzene (ppm) | Xylene (ppm) | Total Lead (ppm) |
|-----------|-------------|----------|----------|----------------------|---------------|---------------|---------------------|--------------|------------------|
| P-1 | 3 | Superior | 10/17/94 | 1400 | 5 | 82 | 30 | 220 | 14 |
| P-2 | 2.5 | Superior | 10/17/94 | 260 | 0.26 | 3 | 1.7 | 16 | ND<2 |
| P-3 | 2.5 | Superior | 10/17/94 | 380 | ND<0.1 | 15 | 5.9 | 39 | ND<2 |
| P-4 | 2.5 | Superior | 10/17/94 | 410 | 0.36 | 4.4 | 2.3 | 33 | 12 |
| P-5 | 2.5 | Superior | 10/17/94 | ND<1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<2 |
| P-6 | 3 | Superior | 10/17/94 | 29 | 0.021 | 0.042 | 0.091 | 0.16 | 6 |

TPH-Gasoline = Total petroleum hydrocarbons calculated as gasoline
 ND=Not detected at or above the laboratory detection limit

TABLE B
SOIL STOCKPILE SAMPLE RESULTS
 CHEVRON STATION 9-4587

| SAMPLE ID | LAB | DATE | TPH - gasoline (ppm) | Benzene (ppm) | Toluene (ppm) | Ethyl- benzene (ppm) | Xylene (ppm) | Organic Lead (ppm) |
|-----------|----------|-----------|----------------------------|------------------|------------------|----------------------------|-----------------|--------------------------|
| SP-1-a-d | Superior | 10/17/94 | 89 | 0.16 | 0.46 | 0.55 | 4.7 | ND<2 |
| SP-2-a-d | Superior | 10/17/94 | 210 | 0.50 | 3.8 | 2.3 | 13 | NA |
| SP-3-a-d | Superior | 10/17/94 | 120 | ND<0.025 | 0.10 | 0.50 | 2.8 | NA |
| ASP-2-a-d | Superior | 11/8/94 ✓ | ND<1 ✓ | ND<0.005 ✓ | ND<0.005 | ND<0.005 | ND<0.005 | NA |
| ASP-3-a-d | Superior | 11/8/94 | ND<1 ✓ | ND<0.005 ✓ | ND<0.005 | ND<0.005 | ND<0.005 | NA |

TPH-Gasoline = Total petroleum hydrocarbons calculated as gasoline
 ND=Not detected at or above the laboratory detection limits
 NA = Analysis not requested

TABLE 2
PRODUCT RECOVERY PROGRAM
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

| Date | Well ID | Amount Product Bailed (gallons) | Total Product Bailed (gallons) |
|----------|---------|---------------------------------|--------------------------------|
| 10/01/93 | CR1* | 0 | 0 |
| 10/01/93 | C-1 | 0.01 | 0.01 |
| 10/01/93 | C-C | 0.01 | 0.01 |
| 10/01/93 | C-B | 0.03 | 0.03 |

* Pumping well, unable to bail product.

TABLE 1

SOIL ANALYSES DATA

| BORING NO | SAMPLE DATE | ANALYZED DATE | TPH-G (PPM) | BENZENE (PPM) | TOLUENE (PPM) | ETHYLBENZENE (PPM) | XYLENES (PPM) |
|-----------|-------------|---------------|-------------|---------------|---------------|--------------------|---------------|
| C-4-10.5 | 10-Sep-90 | 19-Sep-90 | <1 | <0.05 | <0.05 | <0.05 | <0.05 |
| C-4-15.5 | 10-Sep-90 | 19-Sep-90 | <1 | <0.05 | <0.05 | <0.05 | <0.05 |
| C-5-10.5 | 10-Sep-90 | 19-Sep-90 | <1 | <0.05 | <0.05 | <0.05 | <0.05 |
| C-5-15.5 | 10-Sep-90 | 19-Sep-90 | <1 | <0.05 | <0.05 | <0.05 | <0.05 |
| C-6-9 | 10-Sep-90 | 19-Sep-90 | <1 | <0.05 | <0.05 | <0.05 | <0.05 |
| C-6-15 | 10-Sep-90 | 19-Sep-90 | <1 | <0.05 | <0.05 | <0.05 | <0.05 |
| CR-1-5 | 10-Sep-90 | 19-Sep-90 | <1 | <0.05 | <0.05 | <0.05 | <0.05 |
| CR-1-10 | 10-Sep-90 | 19-Sep-90 | <1 | <0.05 | <0.05 | <0.05 | <0.05 |
| CR-1-15 | 10-Sep-90 | 19-Sep-90 | <1 | 0.26 | <0.05 | <0.05 | <0.05 |

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline

PPM = Parts Per Million

Note: 1. All data shown as <x are reported as ND (none detected).

SOIL ANALYSIS DATA

| SAMPLE I.D. | SAMPLE DATE | ANALYZED DATE | TPH-G (PPM) | BENZENE (PPM) | TOLUENE (PPM) | ETHYLBENZENE (PPM) | XYLENES (PPM) |
|-------------|-------------|---------------|-------------|---------------|---------------|--------------------|---------------|
| C-7-9.5 | 01-Feb-91 | 06-Feb-91 | <1 | <.005 | <.005 | <.005 | <.005 |
| C-7-15.0 | 01-Feb-91 | 06-Feb-91 | <1 | <.005 | 0.010 | <.005 | 0.015 |

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline
PPM = Parts Per Million

Note: 1. All data shown as <x are reported as not detected (ND).

WELL BORING LOG

Geller - Ryan Inc.

GENERAL CONTRACTORS

COMPANY: CHEVRON U.S.A.
LOCATION: 609 OAK + 6TH ST.
CITY: OAKLAND, CA

JOB #: OR - 5055
DATE: 7-13-83
WELL #: 1

| DEPTH | SAMPLE NO. | SOIL DESCRIPTION |
|-------|------------|---------------------------------|
| 0 ft. | | CONCRETE |
| 5" | | LIGHT BROWN SILTY CLAY |
| 7' | | DARK BROWN SILTY CLAY / GRAVEL |
| 12' | | BROWN SANDY CLAY - DAMP - VAPOR |
| 14' | | BROWN SANDY CLAY - WET |
| 18' | | BROWN SAND - WET |
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FOREMAN: DAVID BYRON

SHEET: 1 OF: 1

WELL BORING LOG

Gottler - Ryan Inc.

COMPANY: CHEVRON U.S.A.
 LOCATION: 609 OAK + 6th Sts
 CITY: OAKLAND

JOB #: OR - 5055
 DATE: 7-13-83
 WELL #: 2

| DEPTH | SAMPLE NO. | SOIL DESCRIPTION |
|-------|------------|--------------------------|
| 0 ft. | | CONCRETE |
| 4" | | Big AGGREGATE |
| 2' | | Brown Silty Clay - Dry |
| 13' | | Brown SAND w/CLAY - DAMP |
| 15' | | Brown SAND w/CLAY - WET |
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FOREMAN: DAVID BYRON

SHEET: 1 OF: 1

WELL BORING LOG

Geller - Ryan Inc. GENERAL CONTRACTORS

JOB #: OR - 5055
DATE: 7-13-83
WELL #: 3

COMPANY: CHEVRON U.S.A.
LOCATION: 609 OAK + 6th Sts
CITY: OAKLAND, CA

| DEPTH | SAMPLE NO. | SOIL DESCRIPTION |
|-------|------------|--------------------------|
| 0 ft. | | |
| 4" | | CONCRETE |
| 1' | | AGGREGATE |
| | | BROWN SAND w/CLAY - Damp |
| 12' | | BROWN SAND w/CLAY - WET |
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FOREMAN: DAVID BYRON

SHEET: 1 OF 1

| MAJOR DIVISIONS | | | | | TYPICAL NAMES |
|--|---|---------------------------------------|----|--|---|
| COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN NO. 200 SIEVE | GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE | CLEAN GRAVELS WITH LITTLE OR NO FINES | GW | | WELL GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES |
| | | | GP | | POORLY GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES |
| | | GRAVELS WITH OVER 15% FINES | GM | | SILTY GRAVELS, SILTY GRAVELS WITH SAND |
| | | | GC | | CLAYEY GRAVELS, CLAYEY GRAVELS WITH SAND |
| | SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE | CLEAN SANDS WITH LITTLE OR NO FINES | SW | | WELL GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES |
| | | | SP | | POORLY GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES |
| | | SANDS WITH OVER 15% FINES | SM | | SILTY SANDS WITH OR WITHOUT GRAVEL |
| | | | SC | | CLAYEY SANDS WITH OR WITHOUT GRAVEL |
| FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN NO. 200 SIEVE | SILTS AND CLAYS LIQUID LIMIT 50% OR LESS | | ML | | INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTS WITH SANDS AND GRAVELS |
| | | | CL | | INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, CLAYS WITH SANDS AND GRAVELS, LEAN CLAYS |
| | | | OL | | ORGANIC SILTS OR CLAYS OF LOW PLASTICITY |
| | SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50% | | MH | | INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS, FINE SANDY OR SILTY SOILS, ELASTIC SILTS |
| | | | CH | | INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS |
| | | | OH | | ORGANIC SILTS OR CLAYS OF MEDIUM TO HIGH PLASTICITY |
| HIGHLY ORGANIC SOILS | | | PT | | PEAT AND OTHER HIGHLY ORGANIC SOILS |

- Perm - Permeability
- Consol - Consolidation
- LL - Liquid Limit (%)
- PI - Plastic Index (%)
- G_s - Specific Gravity
- MA - Particle Size Analysis
- 2.5 YR 6/2 - Soil Color according to Munsell Soil Color Charts (1975 Edition)
- 5 GY 5/2 - GSA Rock Color Chart

- No Soil Sample Recoverd
- "Undisturbed" Sample
- Bulk or Classification Sample
- First Encountered Ground Water Level
- Piezometric Ground Water Level
- Penetration - Sample drive hammer weight - 140 pounds falling 30 inches. Blows required to drive sampler 1 foot are indicated on the logs



GeoStrategies Inc.

Unified Soil Classification - ASTM D 2488-85
and Key to Test Data

| | | | |
|--|-----------------------------------|----------------|------------------|
| Field location of boring: (See Plate 2) | Project No.: 7191 | Date: 09/10/90 | Boring No: |
| | Client: Chevron USA S.S. No. 4587 | | C-4 |
| | Location: 609 Oak Street | | Sheet 1 |
| | City: Oakland, California | | of 2 |
| | Logged by: R.S.Y. | | Driller: Bayland |

| | | |
|------------------------------------|-----------------------------|------------|
| Drilling method: Hollow Stem Auger | Top of box Elevation: 16.53 | Datum: MSL |
| Hole diameter: 8-inches | | |

| PID (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Description |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|--|
| | | | | 0 | | | | PAVEMENT SECTION - 1.0 feet. |
| | | | | 1 | | | | |
| | | | | 2 | | | | SAND (SP) - dark yellow brown (10YR 4/6), dense, damp; 90% fine sand; 10% clay; no chemical odor. |
| | | | | 3 | | | | |
| 0 | 500 | S&H push | | 4 | | | | |
| | | | | 5 | | | | |
| | | | | 6 | | | | |
| | | | | 7 | | | | COLOR CHANGE to olive gray (5Y 4/2) at 6.5 feet. |
| | | | | 8 | | | | |
| | | | | 9 | | | | |
| | 3 | S&H | | 10 | | | | CLAYEY SAND (SC) - dark gray (7.5 YR 4/0), medium dense, damp; 65% fine sand; 35% clay; roots; slight oxidation; no chemical odor. |
| 0 | 8 | | C-4-10.5 | 11 | | | | |
| | | | | 12 | | | | |
| | | | | 13 | | | | |
| | | | | 14 | | | | |
| | 4 | S&H | | 15 | | | | SAND (SP) - yellowish brown (10YR 5/4), dense, saturated; 95% fine sand; 5% clay; no chemical odor. |
| 0 | 12 | | C-4-15.5 | 16 | | | | |
| | 24 | | | 17 | | | | |
| | | | | 18 | | | | |
| | | | | 19 | | | | |

Remarks:

| | | | |
|--|-----------------------------------|------------------|------------|
| Field location of boring. (See Plate 2) | Project No.: 7191 | Date: 09/10/90 | Boring No: |
| | Client: Chevron USA S.S. No. 4587 | | C-4 |
| | Location: 609 Oak Street | | Sheet 2 |
| | City: Oakland, California | | of 2 |
| | Logged by: R.S.Y. | Driller: Bayland | |

Drilling method: Hollow Stem Auger

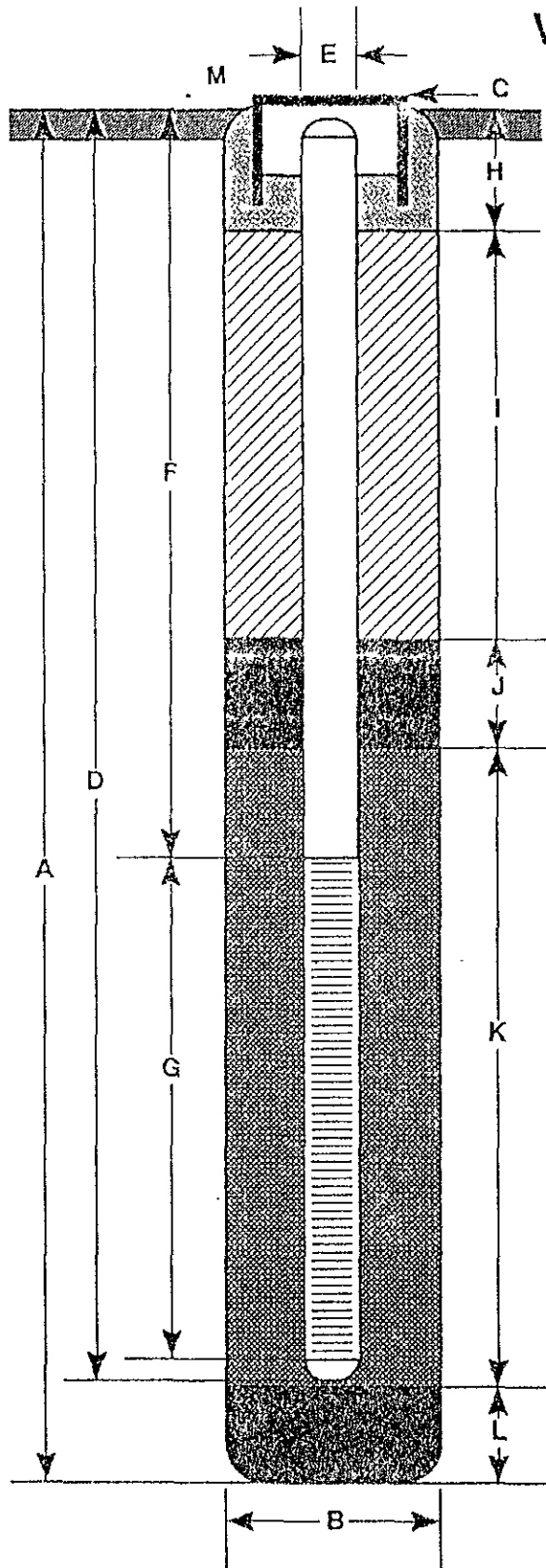
Hole diameter: 8-inches

| | |
|-----------------------|--------|
| Top of Box Elevation: | Datum: |
| Water Level | |
| Time | |
| Date | |

| PID (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Description |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|---|
| | 16 | S&H | | | | | | |
| | 28 | | C-4- | 20 | | | | |
| 0 | 24/4" | | 20.5 | 21 | | | | very dense; no chemical odor. |
| | | | | 22 | | | | |
| | | | | 23 | | | | |
| | | | | 24 | | | | no chemical odor. |
| | 11 | S&H | C-4- | | | | | |
| 0 | 40 | | 25.0 | 25 | | | | |
| | | | | 26 | | | | |
| | | | | 27 | | | | smooth drilling at 28.0 feet. |
| | | | | 28 | | | | |
| | | | | 29 | | | | CLAY (CL) - dark brown (10YR 4/3), stiff, moist; moderate plasticity; 80% clay; 20% silt; no chemical odor. |
| | 12 | S&H | C-4- | | | | | |
| 0 | 17 | | 30.0 | 30 | | | | |
| | | | | 31 | | | | Bottom of Boring at 30.0 feet. |
| | | | | 32 | | | | Bottom of Sample at 30.0 feet. |
| | | | | 33 | | | | 09/10/90 |
| | | | | 34 | | | | |
| | | | | 35 | | | | |
| | | | | 36 | | | | |
| | | | | 37 | | | | |
| | | | | 38 | | | | |
| | | | | 39 | | | | |

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 30 ft.
- B Diameter of Boring 8 in.
Drilling Method Hollow Stem Auger
- C Top of Box Elevation 16.53 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 30 ft.
Material Schedule 40 PVC
- E Casing Diameter 2 in.
- F Depth to Top Perforations 10 ft.
- G Perforated Length 20 ft.
Perforated Interval from 10 to 30 ft.
Perforation Type Factory Slotted
Perforation Size 0.020 in.
- H Surface Seal from 0.0 to 1.5 ft.
Seal Material Concrete
- I Backfill from 1.5 to 6 ft.
Backfill Material Cement Grout
- J Seal from 6 to 8 ft.
Seal Material Bentonite Pellets
- K Gravel Pack from 8 to 30 ft.
Pack Material Lonestar #2/12 Sand
- L Bottom Seal _____ ft.
Seal Material _____
- M Traffic-rated box with locking wall cap.

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

C-4

JOB NUMBER
7191

REVIEWED BY RIG/CEG
CWP CEG 1202

DATE
09/90

REVISED DATE

REVISED DATE

Field location of boring: (See Plate 2)

Project No.: 7191 Date: 09/10/90 Boring No: C-5

Client: Chevron USA S.S. No. 4587

Location: 609 Oak Street

City: Oakland, California

Logged by: R.S.Y. Driller: Bayland Sheet 1 of 2

Casing installation data:

Drilling method: Hollow Stem Auger

Hole diameter: 8-inches

Top of Box Elevation: 14.70 Datum: MSL

| PID (ppm) | Blowft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | | Time | | Date | |
|-----------|---------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|--|-------|------|------|----------|----------|
| | | | | | | | | 13' | 9.97' | 1000 | 1147 | 09/10/90 | 10/30/90 |
| | | | | 0 | | | | Description | | | | | |
| | | | | 1 | | | | PAVEMENT SECTION - 1.5 feet | | | | | |
| | | | | 2 | | | | | | | | | |
| | | | | 3 | | | | SAND (SP) - yellow brown (10YR 5/6), dense, moist; 95% fine sand; 5% clay; no chemical odor. | | | | | |
| 0 | 400 | S&H push | | 4 | | | | | | | | | |
| | | | | 5 | | | | | | | | | |
| | | | | 6 | | | | COLOR CHANGE to olive gray (5Y 4/2) at 5 feet; slight increase in clay content to 10%; no chemical odor. | | | | | |
| | | | | 7 | | | | | | | | | |
| | | | | 8 | | | | | | | | | |
| | 12 | S&H | | 9 | | | | | | | | | |
| 0 | 16 | | C-5- | 10 | | | | no chemical odor. | | | | | |
| | 20 | | 10.5 | 11 | | | | | | | | | |
| | | | | 12 | | | | | | | | | |
| | | | | 13 | | | | CLAYEY SAND (SC) - dark brown (7.5YR 4/4), medium dense, saturated; voids, 70% fine sand; 30% clay; no chemical odor | | | | | |
| | 4 | S&H | | 14 | | | | | | | | | |
| 0 | 5 | | C-5- | 15 | | | | | | | | | |
| | 6 | | 15.5 | 16 | | | | | | | | | |
| | | | | 17 | | | | | | | | | |
| | | | | 18 | | | | | | | | | |
| | | | | 19 | | | | | | | | | |

Remarks:

| | | | |
|--|-----------------------------------|------------------|-----------------------|
| Field location of boring: (See Plate 2) | Project No.: 7191 | Date: 09/10/90 | Boring No: C-5 |
| | Client: Chevron USA S.S. No. 4587 | | |
| | Location: 609 Oak Street | | Sheet 2 of 2 |
| | City: Oakland, California | | |
| | Logged by: R.S.Y. | Driller: Bayland | |

Drilling method: Hollow Stem Auger
 Hole diameter: 8-inches
 Casing installation data:

| PID (ppm) | Blows/ft. or Pressure (psi) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Top of Bor. Elevation: | | Datum: | | |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|---|------------------------|------|--------|--|--|
| | | | | | | | | Water Level | Time | Date | | |
| | 8 | S&H | | | | | | | | | | |
| | 13 | | C-5- | 20 | | | SAND (SP) - olive (5Y 5/3), dense, saturated; 100% fine sand; no chemical odor. | | | | | |
| 0 | 24 | | 20.5 | 21 | | | | | | | | |
| | | | | 22 | | | | | | | | |
| | | | | 23 | | | | | | | | |
| | | | | 24 | | | | | | | | |
| | 10 | S&H | | | | | | | | | | |
| | 13 | | C-5- | 25 | | | | no chemical odor. | | | | |
| 0 | 40 | | 25.5 | 26 | | | | | | | | |
| | | | | 27 | | | | | | | | |
| | | | | 28 | | | | | | | | |
| | | | | 29 | | | | | | | | |
| | 14 | S&H | C-5- | 30 | | | no chemical odor. Bottom of Boring at 30.0 feet. Bottom of Sample at 30.0 feet. 09/10/90 | | | | | |
| 0 | 32 | | 30.0 | 31 | | | | | | | | |
| | | | | 32 | | | | | | | | |
| | | | | 33 | | | | | | | | |
| | | | | 34 | | | | | | | | |
| | | | | 35 | | | | | | | | |
| | | | | 36 | | | | | | | | |
| | | | | 37 | | | | | | | | |
| | | | | 38 | | | | | | | | |
| | | | | 39 | | | | | | | | |

Remarks:



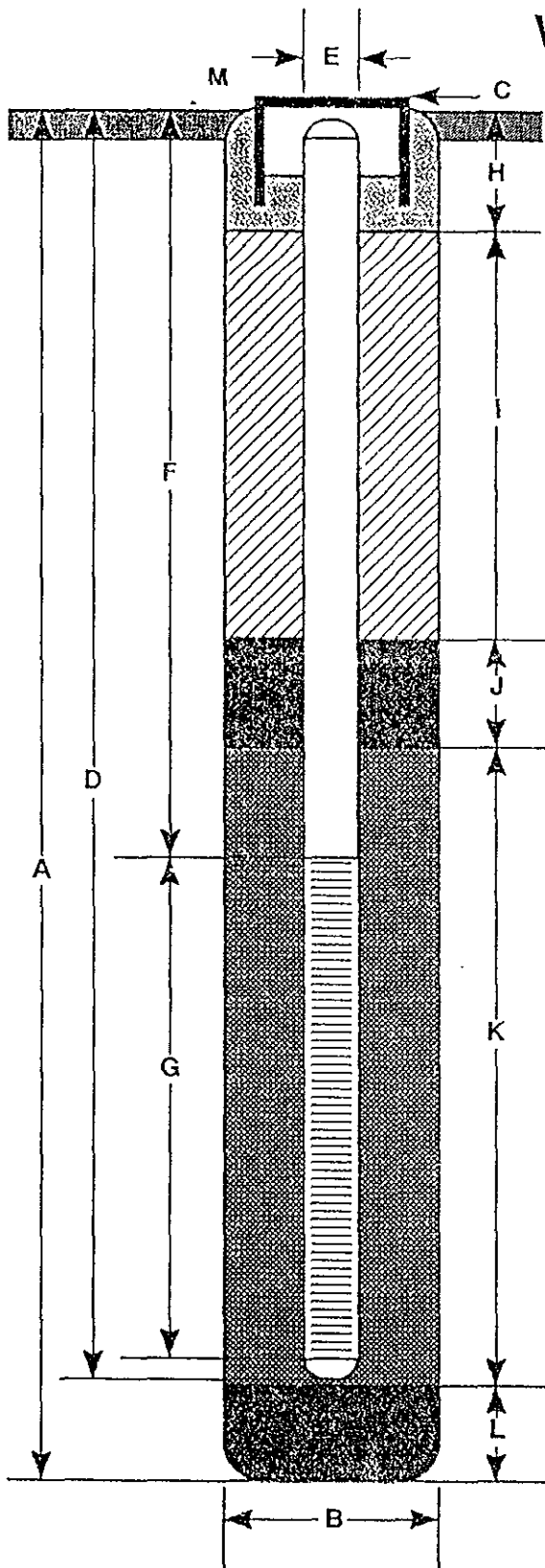
GeoStrategies Inc.

Log of Boring

BORING NO.

C-5

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 30 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method _____ Hollow Stem Auger
- C Top of Box Elevation _____ 14.70 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 30 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 2 in.
- F Depth to Top Perforations _____ 10 ft.
- G Perforated Length _____ 20 ft.
Perforated Interval from _____ 10 to _____ 30 ft.
Perforation Type _____ Factory Slotted.
Perforation Size _____ 0.020 in.
- H Surface Seal from _____ 0.0 to _____ 1.5 ft.
Seal Material _____ Concrete
- I Backfill from _____ 1.5 to _____ 6 ft.
Backfill Material _____ Cement Grout
- J Seal from _____ 6 to _____ 8 ft.
Seal Material _____ Bentonite Pellets
- K Gravel Pack from _____ 8 to _____ 30 ft.
Pack Material _____ Lonestar #2/12 Sand
- L Bottom Seal _____ ft.
Seal Material _____
- M _____ Traffic-rated box with locking well cap.

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

C-5

| | | | |
|---|-----------------------------------|------------------|------------|
| Field location of boring (See Plate 2) | Project No: 7191 | Date: 09/11/90 | Boring No: |
| | Client: Chevron USA S.S. No. 4587 | | C-6 |
| | Location: 609 Oak Street | | Sheet 1 |
| | City: Oakland, California | | of 2 |
| | Logged by: R.S.Y. | Driller: Bayland | |
| Casing installation data: | | | |

| | | |
|------------------------------------|-----------------------------|------------|
| Drilling method: Hollow Stem Auger | Top of Box Elevation: 13.87 | Datum: MSL |
| Hole diameter: 8-inches | | |

| PID (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | | Time | | Date | | Description |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|-------|------|------|----------|----------|--|
| | | | | | | | | 15.0' | 9.43' | 1030 | 1211 | 09/11/90 | 10/30/90 | |
| | | | | 1 | | | | | | | | | | PAVEMENT SECTION 1.5 feet. |
| | | | | 2 | | | | | | | | | | |
| | | | | 3 | | | | | | | | | | FILL - SAND (SP) - black (10YR 2/1), loose, dry; 95% fine sand; 5% clay; no chemical odor. |
| | | | | 4 | | | | | | | | | | |
| | 150 | S&H | | 5 | | | | | | | | | | |
| | 150 | push | C-6- | 5 | | | | | | | | | | |
| 0 | 200 | | 5.5 | 6 | | | | | | | | | | SAND (SP) - gray (7.5YR 5/0), dense, damp; 90% fine sand; 10% clay; no chemical odor. |
| | | | | 7 | | | | | | | | | | |
| | | | | 8 | | | | | | | | | | |
| | | | C-6- | 9 | | | | | | | | | | |
| 0 | 500 | S&H | 9.0 | 9 | | | | | | | | | | COLOR CHANGE to dark yellow (10YR 4/6) at 9.0 feet. |
| | | push | | 10 | | | | | | | | | | |
| | | | | 11 | | | | | | | | | | |
| | | | | 12 | | | | | | | | | | |
| | | | | 13 | | | | | | | | | | |
| | | | | 14 | | | | | | | | | | |
| | 7 | S&H | | 14 | | | | | | | | | | saturated at 15 feet; no chemical odor. |
| 0 | 16 | | C-6- | 15 | | | | | | | | | | |
| | 26 | | 15.0 | 15 | | | | | | | | | | |
| | | | | 16 | | | | | | | | | | |
| | | | | 17 | | | | | | | | | | |
| | | | | 18 | | | | | | | | | | |
| | | | | 19 | | | | | | | | | | |
| | 2 | S&H | | 19 | | | | | | | | | | CLAYEY SAND (SC) - yellowish brown (10YR 5/4), loose, saturated; rootholes; 70% fine sand; 30% clay; slight oxidation; no chemical odor. |
| | 3 | | C-6- | 20 | | | | | | | | | | |
| 0 | 5 | | 20.0 | 20 | | | | | | | | | | |

Remarks:

| | | | |
|---|-----------------------------------|------------------|------------|
| Field location of boring (See Plate 2) | Project No.: 7191 | Date: 09/11/90 | Boring No: |
| | Client: Chevron USA S.S. No. 4587 | | C-6 |
| | Location: 609 Oak Street | | |
| | City: Oakland, California | | Sheet 2 |
| | Logged by: R.S.Y. | Driller: Bayland | of 2 |
| Casing installation data: | | | |

Drilling method: Hollow Stem Auger

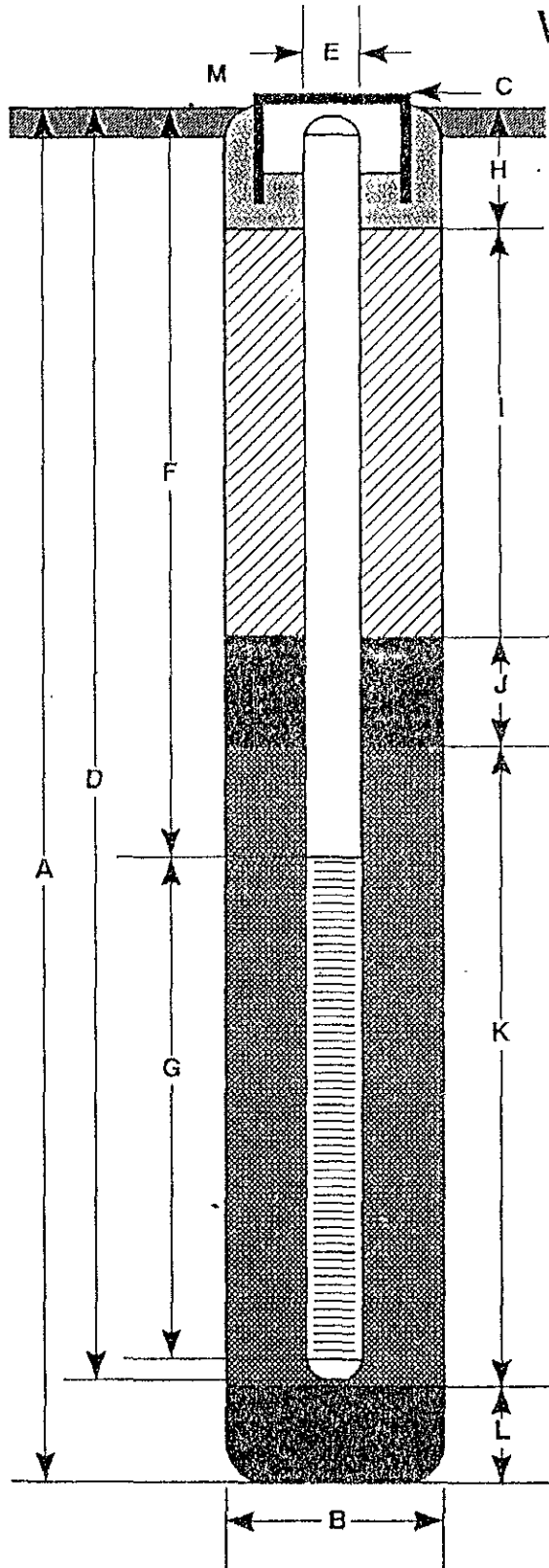
Hole diameter: 8-inches

| | | | | |
|-------------|--|--|--|--|
| Water Level | | | | |
| Time | | | | |
| Date | | | | |

| PTD (ppm) | Blows/ft. or Pressure (psi) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Description |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|--|
| | | | | 21 | | | | |
| | | | | 22 | | | | |
| | | | | 23 | | | | |
| | 8 | S&H | | 24 | | | | |
| | 12 | | C-6- | 25 | | | | SAND (SP) - dark yellowish brown (10YR 4/6), dense, saturated; 100% fine sand; no chemical odor. |
| 0 | 18 | | 25.0 | 25 | | | | |
| | | | | 26 | | | | |
| | | | | 27 | | | | |
| | | | | 28 | | | | COLOR CHANGE to brown (10YR 5/3) at 27.5 feet. |
| | 14 | S&H | | 29 | | | | |
| | 26 | | C-6- | 30 | | | | |
| 0 | 38 | | 30.0 | 30 | | | | |
| | | | | 31 | | | | Bottom of Boring at 30.0 feet. |
| | | | | 32 | | | | Bottom of Sample at 30.0 feet. |
| | | | | 33 | | | | 09/11/90 |
| | | | | 34 | | | | |
| | | | | 35 | | | | |
| | | | | 36 | | | | |
| | | | | 37 | | | | |
| | | | | 38 | | | | |
| | | | | 39 | | | | |
| | | | | 40 | | | | |

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 30 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method _____ Hollow Stem Auger
- C Top of Box Elevation _____ 13.87 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 30 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 2 in.
- F Depth to Top Perforations _____ 10 ft.
- G Perforated Length _____ 20 ft.
Perforated Interval from _____ 10 to _____ 30 ft.
Perforation Type _____ Factory Slotted
Perforation Size _____ 0.020 in.
- H Surface Seal from _____ 0.0 to _____ 1.5 ft.
Seal Material _____ Concrete
- I Backfill from _____ 1.5 to _____ 6 ft.
Backfill Material _____ Cement Grout
- J Seal from _____ 6 to _____ 8 ft.
Seal Material _____ Bentonite Pellets
- K Gravel Pack from _____ 8 to _____ 30 ft.
Pack Material _____ Lonestar #2/12 Sand
- L Bottom Seal _____ ft.
Seal Material _____
- M _____ Traffic-rated box with locking well cap.

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

C-6

JOB NUMBER
7191

REVIEWED BY PG/CEG
CWP/CEG/202

DATE
09/90

REVISED DATE

REVISED DATE

| | | | |
|--|-----------------------------------|------------------|------------|
| Field location of boring: (See Plate 2) | Project No.: 7191 | Date: 09/11/90 | Boring No: |
| | Client: Chevron USA S.S. No. 4587 | | CR-1 |
| | Location: 609 Oak Street | | Sheet 1 |
| | City: Oakland, California | | of 2 |
| | Logged by: R.S.Y. | Driller: Bayland | |
| Casing installation data: | | | |

| | | |
|------------------------------------|-----------------------|--------|
| Drilling method: Hollow Stem Auger | Top of Box Elevation: | Datum: |
| Hole diameter: 8-inches | | |

| PID (ppm) | Blows/ft or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | | Description |
|-----------|----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|----------|---|
| | | | | | | | | 13' | 10.51' | |
| | | | | | | | | Time | 1300 | 1220 |
| | | | | | | | | Date | 09/11/90 | 10/30/90 |
| | | | | 1 | | | | | | PAVEMENT SECTION - .25 feet |
| | | | | 2 | | | | | | |
| | | | | 3 | | | | | | CLAY (CL) - olive (5Y 5/3), medium stiff, damp, trace sand, medium to high plasticity; no chemical odor. |
| | 50 | S&H | | 4 | | | | | | |
| | 50 | push | CR-1- | 4 | | | | | | |
| 3 | 150 | | 5.0 | 5 | | | | | | COLOR CHANGE to gray (7.5 YR 5/0) at 4.0 feet; increase coarse sand to 20 %; weak chemical odor |
| | | | | 6 | | | | | | |
| | | | | 7 | | | | | | gravel and wood fragments at 7.0 feet. |
| | | | | 8 | | | | | | |
| | 11 | S&H | | 9 | | | | | | |
| | 8 | | CR-1- | 9 | | | | | | |
| 3 | 8 | | 10.0 | 10 | | | | | | SAND (SP) - black (10YR 2/1), medium dense, damp; 95% fine sand; 5% clay; moderate chemical odor. |
| | | | | 11 | | | | | | |
| | | | | 12 | | | | | | |
| | | | | 13 | | | | | | CLAYEY SAND (SC) - dark yellow brown (10YR 4/4), loose, saturated; 70% fine sand; 25-30% clay; voids; weak chemical odor. |
| | 2 | S&H | | 14 | | | | | | |
| | 3 | | CR-1- | 14 | | | | | | |
| 80 | 4 | | 15.0 | 15 | | | | | | |
| | | | | 16 | | | | | | |
| | | | | 17 | | | | | | |
| | | | | 18 | | | | | | SAND (SP) - dark olive (5Y 3/2), dense, saturated; 100% fine sand; no chemical odor. |
| | 10 | S&H | | 19 | | | | | | |
| | 16 | | CR-1- | 19 | | | | | | |
| 23 | 22 | | 20.0 | 20 | | | | | | |

Remarks:

Field location of boring: (See Plate 2)

Project No.: 7191 Date: 09/11/90 Boring No: CR-1

Client: Chevron USA

Location: 609 Oak Street

City: Oakland, California

Logged by: R.S.Y. Driller: Bayland

Casing installation data:

Drilling method: Hollow Stem Auger

Hole diameter: 8-inches

Top of Box Elevation:

Datum:

| PID (ppm) | Blowft/L or Pressure (psi) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | Description | | |
|-----------|----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|-------------|-------------|--|--|
| | | | | | | | | Time | | | |
| | | | | 21 | | | | | | | |
| | | | | 22 | | | | | | | |
| | | | | 23 | | | | | | | |
| | 15 | S&H | | 24 | | | | | | | |
| | 32 | | CR-1- | | | | | | | | |
| 0 | 38 | | 25.0 | 25 | | | | | | | COLOR CHANGE to dark yellow brown (10YR 4/6); no chemical odor. |
| | | | | 26 | | | | | | | |
| | | | | 27 | | | | | | | |
| | | | | 28 | | | | | | | |
| | 14 | S&H | | 29 | | | | | | | no chemical odor. |
| | 23 | | CR-1 | | | | | | | | |
| 0 | 38 | | 30.0 | 30 | | | | | | | Bottom of Boring at 30.0 feet. Bottom of Sample at 30.0 feet. 09/11/90 |
| | | | | 31 | | | | | | | |
| | | | | 32 | | | | | | | |
| | | | | 33 | | | | | | | |
| | | | | 34 | | | | | | | |
| | | | | 35 | | | | | | | |
| | | | | 36 | | | | | | | |
| | | | | 37 | | | | | | | |
| | | | | 38 | | | | | | | |
| | | | | 39 | | | | | | | |
| | | | | 40 | | | | | | | |

Remarks:



GeoStrategies Inc.

Log of Boring

BORING NO.

CR-1

JOB NUMBER
7191

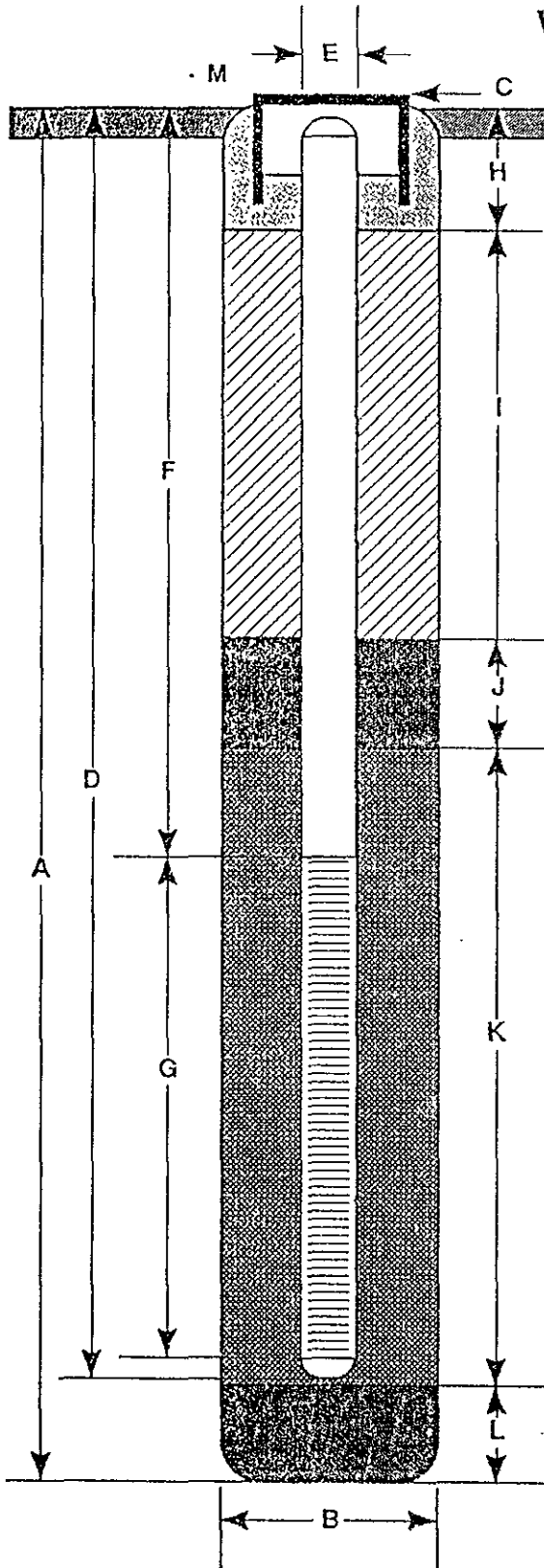
REVIEWED BY RG/CEG
UMP 09/12/92

DATE
9/90

REVISED DATE

REVISED DATE

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 30 ft.
- B Diameter of Boring _____ 12 in.
Drilling Method _____ Hollow Stem Auger
- C Top of Box Elevation _____ ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 30 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 6 in.
- F Depth to Top Perforations _____ 10 ft.
- G Perforated Length _____ 20 ft.
Perforated Interval from _____ 10 to _____ 30 ft.
Perforation Type _____ Continuous Wrap
Perforation Size _____ 0.020 in.
- H Surface Seal from _____ 0.0 to _____ 1. ft.
Seal Material _____ Cement Grout
- I Backfill from _____ 1.5 to _____ 6 ft.
Backfill Material _____ Concrete Grout
- J Seal from _____ 6 to _____ 8 ft.
Seal Material _____ Bentonite Pellets
- K Gravel Pack from _____ 8 to _____ 30 ft.
Pack Material _____ Lonestar #2/12 sand
- L Bottom Seal _____ ft.
Seal Material _____
- M _____ Traffic-rated vault box with locking well cap
and lock

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Recovery Well Detail
Chevron Service Station
609 Oak Street
Oakland, California

BORING NO.

CR-1

JOB NUMBER
7191

REVIEWED BY RG/CEG
CUPCEG1262

DATE
11/90

REVISED DATE

REVISED DATE

Field location of boring:

(See Plate 2)

| | | |
|--|------------------|----------------|
| Project No.: 719102 | Date: 02/01/91 | Boring No: C-7 |
| Client: Chevron Service Station No. 4587 | | |
| Location: 609 Oak Street/6th Street | | |
| City: Oakland, California | | |
| Logged by: RCM | Driller: Bayland | Sheet 1 of 2 |

Drilling method: Hollow Stem Auger

Hole diameter: 8-inches

Top of Box Elevation: 15.78 Datum: MSL

| | | |
|-------------|----------|----------|
| Water Level | 13.5' | 9.9' |
| Time | 10:30 | 12:15 |
| Date | 02/01/91 | 02/01/91 |

| PID (ppm) | Blows/ft. or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) |
|-----------|-----------------------------|----------------|---------------|-------------|--------|-------------|--------------------------|
| | | | | 1 | | | |
| | | | | 2 | | | |
| | | | | 3 | | | |
| | 250 | S&H | | 4 | | | |
| | 500 | | C-7-4.5 | 5 | | | |
| 0 | 500 | push | | 6 | | | |
| | | | | 7 | | | |
| | | | | 8 | | | |
| | | | | 9 | | | |
| 0 | 33 | S&H | C-7-10.0 | 10 | | | |
| | | | | 11 | | | |
| | | | | 12 | | | |
| | | | | 13 | | | |
| | | | | 14 | | | |
| 0 | 26 | S&H | C-7-15.0 | 15 | | | |
| | | | | 16 | | | |
| | | | | 17 | | | |
| | | | | 18 | | | |
| | | | | 19 | | | |
| 0 | 4 | S&H | C-7-20.0 | 20 | | | |

Description

PAVEMENT SECTION - 1 ft.

SAND (SW) - very dark brown (10YR 3/2), loose, damp; 85% fine to coarse sand; 15% gravel; brick fragments. (Fill)

SAND (SP) - yellowish brown (10YR 5/6), loose, damp; 95% fine sand; 5% silt.

SAND with CLAY (SP-SC) - yellowish brown (10YR 5/6), dense, moist; 90% fine to medium sand; 10% clay.

medium dense, saturated, minor greenish gray discoloration at 13.5 ft.

CLAYEY SAND (SC) - light olive brown (2.5Y 5/6), loose, saturated, 80% sand; 20% clay; minor greenish gray discoloration.

Remarks:
* Converted to equivalent standard penetration blows/ft.



GeoStrategies Inc.

Log of Boring

BORING NO.

C-7

JOB NUMBER
719102

REVIEWED BY RG/CEG
DHP

DATE
1/91

REVISED DATE

REVISED DATE

Field location of boring:

(See Plate 2)

| | | |
|--|-------------------------------------|--------------------------|
| Project No.: 719102 | Date: 02/01/91 | Boring No: C-7 |
| Client: Chevron Service Station No. 4587 | Location: 609 Oak Street/6th Street | |
| City: Oakland, California | Logged by: RCM | Driller: Bayland |
| Sheet 2 of 2 | | |

Drilling method: Hollow Stem Auger

Casing diameter: 8-inches

Top of Box Elevation: Datum:

| SPT Blows/ft. (ppm) | Blows/ft.* or Pressure (psf) | Type of Sample | Sample Number | Depth (ft.) | Sample | Well Detail | Soil Group Symbol (USCS) | Water Level | | | | Description | |
|---------------------------|------------------------------------|-------------------|------------------|-------------|--------|----------------|-----------------------------|-------------|------|--|--|-------------|--|
| | | | | | | | | Time | Date | | | | |
| | | | | 21 | | | | | | | | | |
| | | | | 22 | | | | | | | | | |
| | | | | 23 | | | | | | | | | |
| | | | | 24 | | | | | | | | | |
| 1.5 | 33 | S&H | C-7-25.0 | 25 | | | | | | | | | dense, Fe oxide stains at 25.0 ft. |
| | | | | 26 | | | | | | | | | |
| | | | | 27 | | | | | | | | | |
| | | | | 28 | | | | | | | | | |
| | | | | 29 | | | | | | | | | |
| 0 | 38 | S&H | C-7-30.0 | 30 | | | | | | | | | SAND (SP) - olive brown (2.5Y 4/4), dense, saturated; 100% medium sand. |
| | | | | 31 | | | | | | | | | Bottom of Boring at 30.0 ft. 02/01/91 |
| | | | | 32 | | | | | | | | | |
| | | | | 33 | | | | | | | | | |
| | | | | 34 | | | | | | | | | |
| | | | | 35 | | | | | | | | | |
| | | | | 36 | | | | | | | | | |
| | | | | 37 | | | | | | | | | |
| | | | | 38 | | | | | | | | | |
| | | | | 39 | | | | | | | | | |
| | | | | 40 | | | | | | | | | |

Remarks:



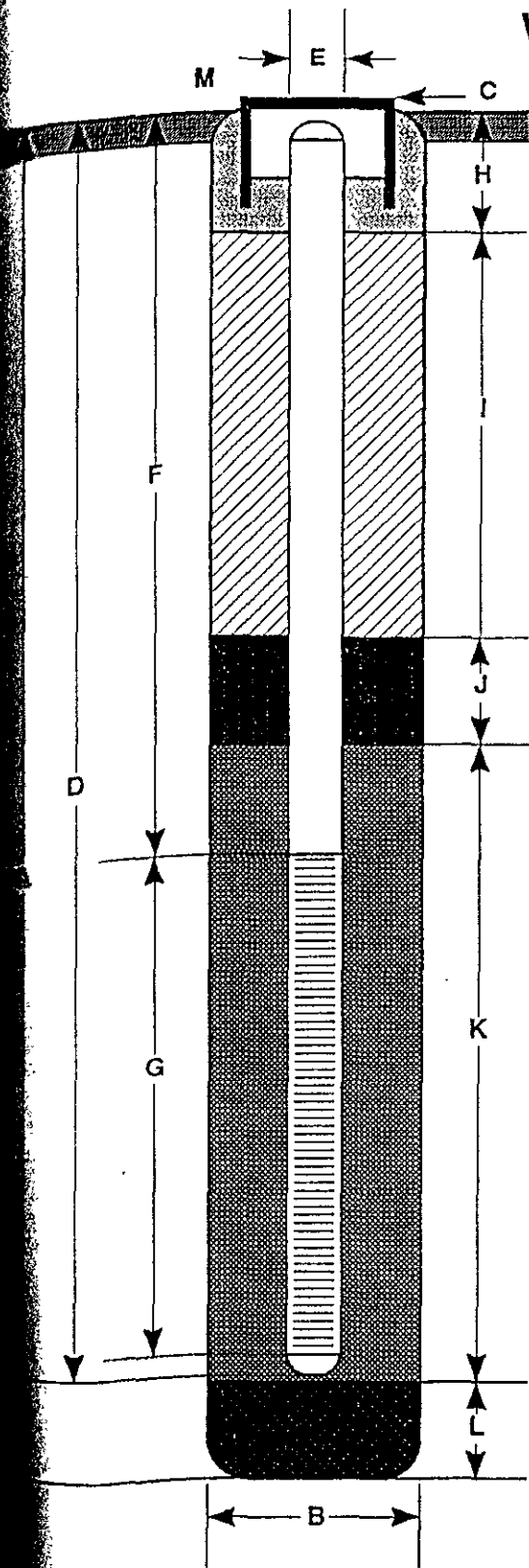
GeoStrategies Inc.

Log of Boring

BORING NO.

C-7

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 30 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method _____ Hollow Stem Auger
- C Top of Box Elevation _____ 15.78 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 30 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 2 in.
- F Depth to Top Perforations _____ 7 ft.
- G Perforated Length _____ 23 ft.
Perforated Interval from _____ 7 to _____ 30 ft.
Perforation Type _____ Factory Slotted
Perforation Size _____ 0.020 in.
- H Surface Seal from _____ 0 to _____ 1.5 ft.
Seal Material _____ Concrete
- I Backfill from _____ 1.5 to _____ 4 ft.
Backfill Material _____ Concrete
- J Seal from _____ 4 to _____ 5 ft.
Seal Material _____ Bentonite Pellets
- K Gravel Pack from _____ 5 to _____ 30 ft.
Pack Material _____ Lonestar #2/12 sand
- L Bottom Seal _____ ft.
Seal Material _____
- M _____ Vault box with locking cap, lock and cover

Note: Depths measured from initial ground surface.

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

| Well ID/ Elevation | Sample Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | DTW (ft) | SPT (ft) | WTE (ft) |
|-----------------------|----------------|--------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-A | 12/06/89 | 44,000 | 20,000 | 66 | 1,600 | 2,220 | --- | 0.00 | --- |
| | 10/30/90 | 31,000 | 23,000 | 110 | 1,100 | 160 | 11.20 | Sheen | --- |
| | 10/30/90 | 30,000 | 23,000 | 150 | 1,000 | 180 | 11.20 | Sheen | --- |
| | 01/14/91 | 12,000 | 30,000 | 540 | 1,400 | 560 | 11.25 | 0.00 | --- |
| | 04/03/91 | 59,000 | 33,000 | 2,400 | 2,200 | 3,100 | 9.82 | 0.00 | --- |
| | 07/17/91 | 52,000 | 38,000 | 380 | 1,300 | 500 | 10.93 | 0.00 | --- |
| | 10/07/91 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 06/25/92 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 09/17/92 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 12/16/92 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 03/18/93 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 06/11/93 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 09/08/93 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 09/17/93 | --- | --- | --- | --- | --- | 10.02 | 0.00 | --- |
| | 12/23/93 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 03/07/94 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 06/17/94 | 77,000 | 32,000 | 3,800 | 3,200 | 14,000 | 10.05 | 0.00 | --- |
| 09/12/94 | 270 | 170 | 1.0 | 13 | 24 | 11.75 | 0.00 | --- | |
| C-B | 12/06/89 | --- | --- | --- | --- | --- | --- | 0.01 | --- |
| | 10/30/90 | --- | --- | --- | --- | --- | 11.19 | 0.01 | --- |
| | 01/14/91 | --- | --- | --- | --- | --- | 11.40 | 0.01 | --- |
| | 04/03/91 | --- | --- | --- | --- | --- | 9.55 | 1.00 | --- |
| | 04/04/91 | --- | --- | --- | --- | --- | 10.54 | 1.06 | --- |
| | 07/17/91 | --- | --- | --- | --- | --- | 10.84 | 0.03 | --- |
| | 10/07/91 | --- | --- | --- | --- | --- | 11.10 | 0.04 | --- |
| | 02/04/92 | --- | --- | --- | --- | --- | 10.78 | 0.01 | --- |
| | 03/06/92 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 04/01/92 | --- | --- | --- | --- | --- | 10.33 | 1.02 | --- |
| | 06/25/92 | --- | --- | --- | --- | --- | 11.20 | 0.68 | --- |
| | 09/17/92 | --- | --- | --- | --- | --- | 11.07 | 0.13 | --- |
| | 12/16/92 | --- | --- | --- | --- | --- | 10.41 | 0.38 | --- |
| | 03/18/93 | --- | --- | --- | --- | --- | 9.19 | 0.05 | --- |
| | 06/11/93 | --- | --- | --- | --- | --- | 9.54 | 0.70 | --- |
| | 09/08/93 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 09/17/93 | --- | --- | --- | --- | --- | 9.85 | 0.52 | --- |
| 12/23/93 | --- | --- | --- | --- | --- | 9.37 | 0.20 | --- | |
| 03/07/94 | --- | --- | --- | --- | --- | 9.24 | 0.85 | --- | |
| 06/17/94 | --- | --- | --- | --- | --- | 9.38 | 0.02 | --- | |
| 09/12/94 | --- | --- | --- | --- | --- | 11.13 | 0.49 | --- | |

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

| Well ID/ Elevation | Sample Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | DTW (ft) | SPT (ft) | WTE (ft) |
|-----------------------|----------------|---------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-C | 12/06/89 | --- | --- | --- | --- | --- | --- | 0.15 | --- |
| | 10/30/90 | --- | --- | --- | --- | --- | 10.84 | 0.03 | --- |
| | 01/14/91 | --- | --- | --- | --- | --- | 11.01 | 0.11 | --- |
| | 04/03/91 | --- | --- | --- | --- | --- | 9.19 | 0.02 | --- |
| | 07/17/91 | --- | --- | --- | --- | --- | 10.53 | 0.03 | --- |
| | 10/07/91 | --- | --- | --- | --- | --- | 10.98 | 0.08 | --- |
| | 02/04/92 | --- | --- | --- | --- | --- | 10.45 | 0.09 | --- |
| | 03/06/92 | --- | --- | --- | --- | --- | 8.83 | 0.09 | --- |
| | 04/01/92 | --- | --- | --- | --- | --- | 9.23 | 0.16 | --- |
| | 06/25/92 | --- | --- | --- | --- | --- | 10.40 | 0.12 | --- |
| | 09/17/92 | --- | --- | --- | --- | --- | 10.84 | 0.12 | --- |
| | 12/16/92 | --- | --- | --- | --- | --- | 10.02 | 0.12 | --- |
| | 03/18/93 | --- | --- | --- | --- | --- | 8.70 | 0.15 | --- |
| | 06/11/93 | --- | --- | --- | --- | --- | 9.25 | 0.13 | --- |
| | 09/08/93 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 09/17/93 | --- | --- | --- | --- | --- | 9.83 | Sheen | --- |
| | 12/23/93 | --- | --- | --- | --- | --- | 9.66 | 0.07 | --- |
| | 03/07/94 | --- | --- | --- | --- | --- | 8.93 | 0.28 | --- |
| 06/17/94 | --- | --- | --- | --- | --- | 10.13 | 0.03 | --- | |
| 09/12/94 | --- | --- | --- | --- | --- | 11.20 | 0.13 | --- | |
| C-1 16.07 | 12/06/89 | --- | --- | --- | --- | --- | --- | 0.20 | --- |
| | 10/30/90 | --- | --- | --- | --- | --- | 10.79 | 0.02 | 5.30 |
| | 01/14/91 | --- | --- | --- | --- | --- | 11.39 | 0.02 | 4.70 |
| | 04/03/91 | --- | --- | --- | --- | --- | 9.43 | 0.02 | 6.66 |
| | 07/17/91 | --- | --- | --- | --- | --- | 10.46 | 0.04 | 5.64 |
| | 10/07/91 | --- | --- | --- | --- | --- | 10.74 | 0.04 | 5.36 |
| | 02/04/92 | --- | --- | --- | --- | --- | 10.37 | 0.01 | 5.71 |
| | 03/06/92 | --- | --- | --- | --- | --- | 9.20 | 0.00 | 6.87 |
| | 04/01/92 | --- | --- | --- | --- | --- | 9.28 | 0.00 | 6.79 |
| | 06/25/92 | 100,000 | 8,800 | 7,000 | 2,800 | 19,000 | 9.98 | 0.01 | 6.10 |
| | 09/17/92 | --- | --- | --- | --- | --- | 10.51 | Sheen | 5.56 |
| | 12/16/92 | --- | --- | --- | --- | --- | 9.81 | Sheen | 6.26 |
| | 03/18/93 | --- | --- | --- | --- | --- | 8.88 | Sheen | 7.19 |
| | 06/11/93 | --- | --- | --- | --- | --- | 9.31 | 0.02 | 6.78 |
| | 09/08/93 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 09/17/93 | --- | --- | --- | --- | --- | 9.72 | 0.02 | 6.37 |
| | 12/23/93 | 41,000 | 5,400 | 590 | 710 | 5,600 | 9.49 | 0.00 | 6.58 |
| | 03/07/94 | --- | --- | --- | --- | --- | 8.96 | 0.26 | 7.32 |
| 06/17/94 | --- | --- | --- | --- | --- | 9.70 | 0.02 | 6.39 | |
| 09/12/94 | --- | --- | --- | --- | --- | 12.42 | 0.01 | 3.66 | |

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

| Well ID/ Elevation | Sample Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | DTW (ft) | SPT (ft) | WTE (ft) |
|-----------------------|----------------|--------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-2 16.84 | 12/06/89 | 16,000 | 250 | 1,200 | 550 | 1,400 | --- | 0.00 | --- |
| | 10/30/90 | 28,000 | 3,700 | 1,900 | 1,200 | 4,300 | 11.16 | 0.00 | 5.68 |
| | 01/14/91 | 24,000 | 3,300 | 1,200 | 1,100 | 4,100 | 11.11 | 0.00 | 5.73 |
| | 01/14/91 | 30,000 | 3,900 | 1,500 | 1,500 | 5,000 | 11.11 | 0.00 | 5.73 |
| | 04/03/91 | 12,000 | 1,100 | 840 | 650 | 1,800 | 9.53 | 0.00 | 7.31 |
| | 04/03/91 | 14,000 | 1,100 | 990 | 680 | 1,800 | 9.53 | 0.00 | 7.31 |
| | 07/17/91 | 13,000 | 1,700 | 560 | 650 | 1,700 | 10.88 | 0.00 | 6.16 |
| | 07/17/91 | 14,000 | 1,700 | 640 | 720 | 1,900 | 10.88 | 0.00 | 6.16 |
| | 10/07/91 | 25,000 | 3,700 | 1,300 | 1,400 | 3,800 | 11.02 | 0.00 | 5.82 |
| | 02/04/92 | 16,000 | 2,800 | 300 | 880 | 1,900 | 10.60 | 0.00 | 6.24 |
| | 04/01/92 | 15,000 | 1,900 | 300 | 700 | 1,500 | 9.30 | 0.00 | 7.54 |
| | 06/25/92 | 23,000 | 3,400 | 740 | 1,300 | 3,400 | 10.45 | 0.00 | 6.39 |
| | 09/17/92 | 18,000 | 3,500 | 550 | 1,400 | 3,900 | 10.78 | 0.00 | 6.06 |
| | 12/16/92 | 12,000 | 1,200 | 120 | 460 | 1,100 | 9.94 | 0.00 | 6.90 |
| | 03/18/93 | 5,200 | 990 | 130 | 290 | 430 | 8.80 | 0.00 | 8.04 |
| | 06/11/93 | 34,000 | 6,200 | 910 | 2,400 | 6,600 | 9.43 | 0.00 | 7.41 |
| | 09/08/93 | 3,400 | 690 | 26 | 190 | 330 | --- | --- | --- |
| | 09/17/93 | --- | --- | --- | --- | --- | 9.91 | 0.00 | 6.93 |
| | 12/23/93 | 2,500 | 830 | 26 | 130 | 260 | 9.69 | 0.00 | 7.15 |
| | 03/07/94 | 1,100 | 420 | 6.5 | 110 | 69 | 8.97 | 0.00 | 7.87 |
| 06/17/94 | 1,400 | 290 | 8.6 | 80 | 63 | 9.86 | 0.00 | 6.98 | |
| 09/12/94 | 370 | 96 | 1.3 | 9.4 | 16 | 11.10 | 0.00 | 5.74 | |
| C-3 16.48 | 12/06/89 | <500 | <0.5 | <0.5 | <0.5 | 0.74 | --- | 0.00 | --- |
| | 10/30/90 | 410 | 4 | 4 | 2 | 9 | 10.44 | 0.00 | 6.04 |
| | 01/14/91 | 80 | <0.5 | <0.5 | <0.5 | 1 | 10.34 | 0.00 | 6.14 |
| | 04/03/91 | 53 | <0.5 | <0.5 | <0.5 | 2 | 9.01 | 0.00 | 7.47 |
| | 07/17/91 | <50 | 5.9 | <0.5 | <0.5 | <0.5 | 10.00 | 0.00 | 6.48 |
| | 10/07/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 10.38 | 0.00 | 6.10 |
| | 02/04/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 10.00 | 0.00 | 6.48 |
| | 04/01/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 8.83 | 0.00 | 7.65 |
| | 06/25/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.85 | 0.00 | 6.63 |
| | 09/17/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 10.20 | 0.00 | 6.28 |
| | 12/16/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.40 | 0.00 | 7.08 |
| | 03/18/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | 8.12 | 0.00 | 8.36 |
| | 06/11/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 8.59 | 0.00 | 7.89 |
| | 09/08/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | --- |
| | 09/17/93 | --- | --- | --- | --- | --- | 9.00 | 0.00 | 7.48 |
| | 12/23/93 | <50 | <0.5 | 0.8 | <0.5 | 2.9 | 8.63 | 0.00 | 7.65 |
| | 03/07/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 8.19 | 0.00 | 8.29 |
| 06/17/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.05 | 0.00 | 7.43 | |
| Blocked | 09/12/94 | --- | --- | --- | --- | --- | --- | --- | --- |

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

| Well ID/ Elevation | Sample Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | DTW (ft) | SPT (ft) | WTE (ft) |
|-----------------------|----------------|-------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-4 16.53 | 12/06/89 | --- | --- | --- | --- | --- | --- | 0.00 | --- |
| | 10/30/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 11.56 | 0.00 | 4.97 |
| | 01/14/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 11.44 | 0.00 | 5.09 |
| | 04/03/91 | 150 | 3 | <0.5 | 12 | 9 | 10.00 | 0.00 | 6.53 |
| | 07/17/91 | 290 | 2.3 | 0.4 | 52 | 0.4 | 11.16 | 0.00 | 5.37 |
| | 10/07/91 | <50 | <0.5 | <0.5 | 4.6 | <0.5 | 11.39 | 0.00 | 5.14 |
| | 02/04/92 | <50 | <0.5 | <0.5 | 2.8 | <0.5 | 11.02 | 0.00 | 5.51 |
| | 02/04/92 | <50 | <0.5 | <0.5 | 2.5 | 0.5 | 11.02 | 0.00 | 5.51 |
| | 04/01/92 | 480 | 4.9 | <0.5 | 64 | 4.3 | 9.83 | 0.00 | 6.70 |
| | 06/25/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 10.88 | 0.00 | 5.65 |
| | 09/17/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 11.24 | 0.00 | 5.29 |
| | 12/16/92 | 58 | <0.5 | <0.5 | 1.0 | <0.5 | 10.40 | 0.00 | 6.13 |
| | 03/18/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | 9.48 | 0.00 | 7.05 |
| | 06/11/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | 9.61 | 0.00 | 6.92 |
| | 09/08/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | --- |
| | 09/17/93 | --- | --- | --- | --- | --- | 10.07 | 0.00 | 6.46 |
| | 12/23/93 | <50 | 1.2 | 1.5 | <0.5 | <0.5 | 9.83 | 0.00 | 6.70 |
| | 03/07/94 | 60 | 0.7 | 1.1 | 6.7 | 1.8 | 9.20 | 0.00 | 7.33 |
| 06/17/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.97 | 0.00 | 6.56 | |
| 09/12/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 11.21 | 0.00 | 5.32 | |
| C-5 14.70 | 12/06/89 | --- | --- | --- | --- | --- | 9.97 | 0.00 | 4.73 |
| | 10/30/90 | <50 | 0.8 | <0.5 | <0.5 | 0.5 | --- | 0.00 | --- |
| | 01/14/91 | 54 | <0.5 | <0.5 | <0.5 | <0.5 | 9.87 | 0.00 | 4.83 |
| | 04/03/91 | 1,800 | 330 | 200 | 52 | 170 | 8.72 | 0.00 | 5.98 |
| | 07/17/91 | 170 | 120 | 5.3 | 12 | 20 | 9.63 | 0.00 | 5.07 |
| | 10/07/91 | <50 | 1.1 | <0.5 | <0.5 | <0.5 | 9.83 | 0.00 | 4.87 |
| | 02/04/92 | 91 | 16 | <0.5 | 2.4 | 2.0 | 9.53 | 0.00 | 5.17 |
| | 04/01/92 | 960 | 200 | 5.4 | 21 | 33 | 8.57 | 0.00 | 6.13 |
| | 06/25/92 | 800 | 2.5 | <0.5 | 1.3 | 7.3 | 9.44 | 0.00 | 5.26 |
| | 09/17/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.72 | 0.00 | 4.98 |
| | 12/16/92 | 81 | 5.4 | 1.2 | 1.5 | 4.3 | 9.07 | 0.00 | 5.63 |
| | 03/18/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | 8.44 | 0.00 | 6.26 |
| | 06/11/93 | <50 | 1.6 | <0.5 | <0.5 | <1.5 | 8.53 | 0.00 | 6.17 |
| | 09/08/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | --- |
| | 09/17/93 | --- | --- | --- | --- | --- | 8.89 | 0.00 | 5.81 |
| | 12/23/93 | <50 | 5.5 | 1.3 | 0.7 | 4.0 | 8.68 | 0.00 | 6.02 |
| | 03/07/94 | 460 | 180 | 21 | 27 | 70 | 8.18 | 0.00 | 6.52 |
| | 06/17/94 | <50 | 10 | 0.5 | 1.4 | 3.3 | 8.81 | 0.00 | 5.89 |
| 09/12/94 | <50 | 6.4 | <0.5 | <0.5 | <0.5 | 9.87 | 0.00 | 4.83 | |

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

| Well ID/ Elevation | Sample Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | DTW (ft) | SPT (ft) | WTE (ft) |
|-----------------------|----------------|-------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| C-6 13.87 | 12/06/89 | --- | --- | --- | --- | --- | --- | 0.00 | --- |
| | 10/30/90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.43 | 0.00 | 4.44 |
| | 01/14/91 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 9.41 | 0.00 | 4.46 |
| | 04/03/91 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 8.66 | 0.00 | 5.21 |
| | 07/17/91 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 9.25 | 0.00 | 4.62 |
| | 10/07/91 | 67 | <0.5 | 0.6 | <0.5 | 0.6 | 9.34 | 0.00 | 4.53 |
| | 02/04/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.16 | 0.00 | 4.71 |
| | 04/01/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 8.59 | 0.00 | 5.28 |
| | 06/25/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.11 | 0.00 | 4.76 |
| | 09/17/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.28 | 0.00 | 4.59 |
| | 12/16/92 | 120 | 9.3 | 1.9 | 2.7 | 7.4 | 8.88 | 0.00 | 4.99 |
| | 03/18/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | 8.35 | 0.00 | 5.52 |
| | 06/11/93 | <50 | <0.5 | 0.7 | <0.5 | <1.5 | 8.21 | 0.00 | 6.66 |
| | 09/08/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | --- |
| | 09/17/93 | --- | --- | --- | --- | --- | 8.37 | 0.00 | 5.50 |
| | 12/23/93 | <50 | 1.4 | 1.0 | <0.5 | 3.5 | 8.29 | 0.00 | 5.58 |
| | 03/07/94 | <50 | 0.8 | <0.5 | <0.5 | <0.5 | 8.00 | 0.00 | 5.87 |
| 06/17/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 8.41 | 0.00 | 5.46 | |
| 09/12/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 8.88 | 0.00 | 4.99 | |
| C-7 15.78 | 02/07/91 | <50 | <0.5 | 0.8 | <0.5 | <0.5 | 9.88 | 0.00 | 5.90 |
| | 04/03/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.04 | 0.00 | 6.74 |
| | 07/17/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.86 | 0.00 | 5.92 |
| | 10/07/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 10.10 | 0.00 | 5.68 |
| | 02/04/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.74 | 0.00 | 6.04 |
| | 04/01/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 8.96 | 0.00 | 6.82 |
| | 06/25/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.62 | 0.00 | 6.16 |
| | 09/17/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.75 | 0.00 | 6.03 |
| | 12/16/92 | --- | --- | --- | --- | --- | 9.41 | 0.00 | 6.37 |
| | 03/18/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | 8.45 | 0.00 | 7.33 |
| | 06/11/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | 8.71 | 0.00 | 7.07 |
| | 09/08/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | --- |
| | 09/17/93 | --- | --- | --- | --- | --- | 9.05 | 0.00 | 6.73 |
| | 12/23/93 | <50 | 1.9 | 1.4 | <0.5 | 3.6 | 8.85 | 0.00 | 6.93 |
| | 03/07/94 | <50 | 2.4 | 1.3 | <0.5 | 0.6 | 8.43 | 0.00 | 7.35 |
| | 06/17/94 | <50 | <0.5 | <0.5 | <0.5 | 1.2 | 9.07 | 0.00 | 6.71 |
| | 09/12/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9.80 | 0.00 | 5.98 |

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4587
609 Oak Street, Oakland, California

| Well ID/ Elevation | Sample Date | TPH-G | Benzene | Toluene | Ethyl- benzene | Xylenes | DTW (ft) | SPT (ft) | WTE (ft) |
|-----------------------|----------------|--------|---------|---------|-------------------|---------|-------------|-------------|-------------|
| CR-1 | 10/30/90 | 9,600 | 7,100 | 65 | 610 | 190 | 10.51 | 0.00 | --- |
| | 01/14/91 | 1,500 | 3,200 | 52 | 190 | 77 | 10.29 | 0.00 | --- |
| | 07/17/91 | 15,000 | 9,300 | 220 | 680 | 530 | 10.19 | 0.00 | --- |
| | 10/07/91 | 17,000 | 7,600 | 50 | 440 | 68 | 10.46 | 0.00 | --- |
| | 10/07/91 | 14,000 | 9,400 | 52 | 430 | 110 | 10.46 | 0.00 | --- |
| | 02/04/92 | 18,000 | 6,100 | 32 | 350 | 100 | 10.12 | 0.00 | --- |
| | 04/01/92 | 29,000 | 5,300 | 820 | 380 | 1,200 | 9.24 | 0.00 | --- |
| | 06/25/92 | 12,000 | 3,300 | 280 | 210 | 460 | 10.03 | 0.00 | --- |
| | 09/17/92 | --- | --- | --- | --- | --- | 10.30 | 0.00 | --- |
| | 12/16/92 | --- | --- | --- | --- | --- | 9.59 | Sheen | --- |
| | 03/18/93 | --- | --- | --- | --- | --- | 8.82 | 0.05 | --- |
| | 06/11/93 | --- | --- | --- | --- | --- | 9.58 | 0.87 | --- |
| | 09/08/93 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 09/17/93 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 12/23/93 | --- | --- | --- | --- | --- | 9.02 | 0.02 | --- |
| | 03/07/94 | --- | --- | --- | --- | --- | 8.41 | 0.04 | --- |
| | 06/17/94 | --- | --- | --- | --- | --- | --- | --- | --- |
| 09/12/94 | --- | --- | --- | --- | --- | 15.32 | 0.02 | --- | |
| TBLB | 10/30/90 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 01/14/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| | 02/07/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| | 04/03/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| | 07/17/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| | 10/07/91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| | 02/04/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| | 04/01/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| | 06/25/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| | 09/17/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| | 12/16/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| | 03/18/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | --- |
| | 06/11/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| | 09/08/93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | --- | --- | --- |
| | 09/17/93 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 12/23/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| | 03/07/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- |
| 06/17/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | |
| 09/12/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | --- | |

**TABLE 1
PRE-REMEDATION
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS**

Former Chevron Service Station No. 9-4587
609 Oak Street Oakland, California

| Sample Location | Date Collected | Depth Collected (ft) | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total Xylenes (mg/kg) | TPH as Gasoline Total (mg/kg) | Lead (mg/kg) | MTBE (mg/kg) |
|-------------------------------------|----------------|----------------------|-----------------|-----------------|-----------------------|-----------------------|-------------------------------|--------------|--------------|
| Product Line Trench | | | | | | | | | |
| 87087T3#2&3 | 03/27/87 | 7 | 150 | 430 | NA | 270 | 1300 | NA | NA |
| Extraction Well Boring | | | | | | | | | |
| CR-1 | 09/19/90 | 5.0 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | NA | NA |
| CR-1 | 09/19/90 | 10.0 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | NA | NA |
| CR-1 | 09/19/90 | 15.0 | 0.26 | <0.05 | <0.05 | <0.05 | <1 | NA | NA |
| Product Line Trenches | | | | | | | | | |
| P-1 | 10/17/94 | 3.0 | 5.0 | 82 | 30 | 220 | 1400 | 14 | NA |
| P-2 | 10/17/94 | 2.5 | 0.26 | 3.0 | 1.7 | 16 | 260 | <2 | NA |
| P-3 | 10/17/94 | 2.5 | <0.1 | 15 | 5.9 | 39 | 380 | <2 | NA |
| P-4 | 10/17/94 | 2.5 | 0.36 | 4.4 | <0.005 | 0.043 | 410 | 12 | NA |
| P-5 | 10/17/94 | 2.5 | <0.005 | <0.005 | <0.005 | <0.005 | <1 | <2 | NA |
| P-6 | 10/17/94 | 3.0 | 0.021 | 0.042 | 0.091 | 0.16 | 29 | 6.0 | NA |
| UST Excavation | | | | | | | | | |
| NE | 10/17/94 | 10.5 | 27 | 200 | 69 | 400 | 3700 | <2 | NA |
| NW | 10/17/94 | 10.5 | 0.52 | 0.16 | 0.091 | 0.44 | 5.0 | 13 | NA |
| SE | 10/17/94 | 11.0 | 3.6 | 11 | 9.0 | 37 | 600 | 11 | NA |
| SW | 10/17/94 | 9.0 | 0.093 | 0.16 | 0.36 | 1.2 | 18 | 10 | NA |
| EN | 10/17/94 | 11.0 | 0.27 | 0.12 | 0.023 | 0.12 | 2.0 | <2 | NA |
| ES | 10/17/94 | 10.0 | 0.24 | 0.22 | 0.32 | 1.6 | 42 | <2 | NA |
| WN | 10/17/94 | 10.5 | 0.2 | 0.12 | 0.81 | 2.4 | 40 | <2 | NA |
| VE Well Borings | | | | | | | | | |
| DVE-1 | 07/12/95 | 10.3 | 0.31 | 0.098 | 0.025 | 0.12 | <1 | NA | NA |
| DVE-2 | 07/11/95 | 14.0 | 1 | 0.032 | 0.43 | 1.3 | 7.6 | NA | NA |
| DVE-3 | 07/10/95 | 10.2 | 0.13 | 0.071 | 0.021 | 0.0082 | <1 | NA | NA |
| DVE-4 | 07/11/95 | 10.1 | 0.24 | <0.005 | 0.1 | 0.16 | 2.8 | NA | NA |
| DVE-5 | 07/11/95 | 18.8 | 0.045 | 0.055 | 0.26 | 1.3 | 5.6 | NA | NA |
| Dual Completion Well Borings | | | | | | | | | |
| DVSP-1 | 07/11/95 | 15.5 | 4.2 | <0.005 | 0.1 | 0.16 | 8.5 | NA | NA |
| DVSP-2 | 07/11/95 | 10.5 | 0.066 | <0.005 | 0.0096 | <0.005 | <1 | NA | NA |
| DVSP-3 | 07/10/95 | 15.5 | 0.012 | 0.0082 | 0.0074 | 0.0045 | <1 | NA | NA |
| DVSP-4 | 07/10/95 | 5.5 | <0.005 | <0.005 | <0.005 | <0.005 | <1 | NA | NA |
| DVSP-5 | 07/12/95 | 10.5 | 15 | 8.3 | 25 | 140 | 700 | NA | NA |
| Air Sparge Well Borings | | | | | | | | | |
| SP6 | 12/20/95 | 9.7 | 160 | 1,300 | 300 | 1,600 | 11,000 | NA | NA |
| SP6 | 12/20/95 | 14.7 | 0.81 | 0.22 | 0.24 | 0.56 | 4.4 | NA | NA |
| SP7 | 12/20/95 | 4.7 | <0.005 | <0.005 | <0.005 | <0.005 | <1 | NA | NA |
| SP7 | 12/20/95 | 9.3 | <0.005 | 0.038 | 0.009 | 0.032 | 1.2 | NA | NA |
| SP7 | 12/20/95 | 14.3 | 1.2 | 0.068 | 0.19 | 0.18 | 3.1 | NA | NA |
| SP7 | 12/20/95 | 19.3 | <0.005 | 0.0086 | <0.005 | 0.067 | <1 | NA | NA |
| SP7 | 12/20/95 | 24.3 | <0.005 | <0.005 | <0.005 | 0.0052 | <1 | NA | NA |

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether (analyzed by EPA Method 8260)

mg/kg = Milligrams per kilogram.

NA = Not Analyzed

**TABLE 2
POST-REMEDATION
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS**

Former Chevron Service Station No. 9-4587
609 Oak Street Oakland, California

| Sample Location | Date Collected | Depth Collected (ft) | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total Xylenes (mg/kg) | TPH as Gasoline (mg/kg) | Total Lead (mg/kg) | MTBE (mg/kg) |
|----------------------------|----------------|----------------------|-----------------|-----------------|-----------------------|-----------------------|-------------------------|--------------------|--------------|
| Hand Auger Borings | | | | | | | | | |
| HA-1 | 06/12/97 | 5.0 | <0.005 | <0.005 | <0.005 | <0.005 | <1 | NA | NA |
| HA-1 | 06/12/97 | 7.0 | <0.005 | <0.005 | <0.005 | <0.005 | <1 | NA | NA |
| HA-2 | 06/12/97 | 5.0 | 23 | 210 | 60 | 330 | 2,800 | NA | NA |
| HA-2 | 06/12/97 | 7.0 | 2.1 | 2.1 | 2.1 | 7.5 | 310 | NA | NA |
| Hand Auger Borings | | | | | | | | | |
| HA-4 | 09/13/02 | 2.5 | <0.005 | <0.005 | <0.005 | 0.056 | 36 | NA | <0.050 |
| HA-4 | 09/13/02 | 5.0 | 2.1 | 92 | 50 | 310 | 1,700 | NA | <1.0 |
| HA-4 | 09/13/02 | 7.5 | 1.9 | 100 | 76 | 550 | 2,700 | NA | <2.0 |
| HA-5 | 09/13/02 | 2.5 | <0.005 | 0.022 | 0.0087 | 0.058 | <1.0 | NA | <0.050 |
| HA-5 | 09/13/02 | 5.0 | <0.005 | <0.005 | <0.005 | 0.018 | <1.0 | NA | <0.050 |
| HA-5 | 09/13/02 | 7.5 | 0.0099 | 0.061 | 0.12 | 0.94 | 15 | NA | <0.050 |
| HA-6 | 09/13/02 | 2.5 | 0.0079 | 0.092 | 0.14 | 1.5 | 24 | NA | <0.050 |
| HA-6 | 09/13/02 | 5.0 | 0.23 | 3.5 | 2.7 | 20 | 130 | NA | <0.50 |
| HA-6 | 09/13/02 | 7.5 | 5.9 | 120 | 44 | 260 | 1,500 | NA | <1.0 |
| HA-7 | 09/13/02 | 2.5 | <0.005 | 0.020 | <0.005 | 0.027 | <1.0 | NA | <0.050 |
| HA-7 | 09/13/02 | 5.0 | <0.005 | <0.005 | <0.005 | <0.015 | <1.0 | NA | <0.050 |
| HA-7 | 09/13/02 | 7.5 | 0.061 | 0.41 | 2.0 | 25 | 400 | NA | <0.20 |
| HA-8 | 09/13/02 | 2.5 | <0.005 | <0.005 | <0.005 | 0.028 | 3.3 | NA | <0.050 |
| HA-8 | 09/13/02 | 5.0 | <0.005 | 3.7 | 4.0 | 38 | 260 | NA | <0.20 |
| HA-8 | 09/13/02 | 8.5 | 0.15 | 6.2 | 5.6 | 57 | 540 | NA | <0.50 |
| Post-Overexcavation | | | | | | | | | |
| OE-1 | 01/29/03 | 8.5 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA | <0.025 |
| OE-2 | 01/29/03 | 8.5 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA | <0.025 |
| OE-3 | 01/29/03 | 8.5 | 0.31 | <0.05 | 0.29 | 1.4 | 8.5 | NA | 0.042 |
| OE-4 | 01/29/03 | 8.5 | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | NA | <0.025 |

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether (analyzed by EPA Method 8260)

mg/kg = Milligrams per kilogram.

NA = Not Analyzed