EnviroNet
CONSULTING
98 JUL 31 PM 2:44

July 29, 1998
Project Number 6142.2

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Report on the July 1998 Groundwater Monitoring Event, Abandonment of Well MW-1R, Construction Details of the Planned Building Slab and Request for Closure, 6085 Scarlett Court, Dublin, California.

Dear Ms. Chu:

This report presents the July 1998 groundwater monitoring report, abandonment of groundwater monitoring well MW-1R, construction details of the planned building slab and request for closure for the 6085 Scarlett Court site, in Dublin, California (Plate 1). The groundwater monitoring event was requested by the Alameda County Environmental Health Department (ACEHD) prior to abandoning onsite groundwater monitoring well MW-1R.

**Background**

The following background section is based on information presented in Results of Soil and Ground-Water Investigations and Remedial Activities, 6085 Scarlett Court, Dublin, California, by Levine Fricke, of Pleasanton, California, dated July 18, 1995.

The site was formerly owned by Aggregate Systems, Inc. and was used for rock, sand and concrete storage and distribution. Three 500 to 1,000 gallon underground storage tanks (USTs), one dispenser island and the concrete slab for an abandoned single story building were located onsite. The three USTs were removed from the site in June 1990 by Clayton Environmental Consultants of Pleasanton, California, under the supervision of the ACDEH. Numerous small holes were reported in the USTs and soil staining was observed in the excavation during the UST removal. Soil samples collected following the UST removals

indicated concentrations of up to 290 parts per million (ppm) of total petroleum hydrocarbons as gasoline (TPH-g) and up to 23 ppm of xylenes in the soil, as reported by Levine-Fricke.

A single groundwater monitoring well (MW-1) was installed southwest of the UST excavation in November 1993 by $H_2$OGEOL, Inc., of Livermore, California. Groundwater samples collected from well MW-1 in April 1994 contained 91 ppm TPH-g and BTEX components (benzene, toluene, ethylbenzene, and total xylenes) of up to 23 ppm benzene.

In 1994 Levine Fricke of Roseville, California, conducted a Phase II limited investigation onsite, which consisted of hand auger soil sampling and groundwater sampling. Following these investigations, Levine Fricke supervised the excavation of approximately 1,000 cubic yards of soil. Approximately 148 cubic yards of the 1,000 cubic yards of soil were contaminated and segregated from the clean soil. Well MW-1 was removed during the excavation. Replacement well MW-1R was installed on January 30, 1995. The location of MW-1R was approved by the ACDEH.

The approximately 148 cubic yards of contaminated soil were aerated onsite. On October 31, 1996 EnviroNet sampled the aerated soil. The samples were analyzed and found to be non-detect (ND) for TPH-g, and BTEX, and to contain from 12 to 15 mg/kg of TPH-d. The UST excavation was filled to within four feet of the surface with pea gravel, then the remainder of the excavation was filled with the aerated soil.

Well MW-1R was monitored by EnviroNet Consulting in September and December 1996. Low concentrations of TPH-g and benzene were detected in September; low concentrations of TPH-g and methyl tertiary butyl ether (MTBE) were detected in December (Table 2). The quarterly groundwater monitoring was discontinued with the concurrence of the ACDEH.

Levine-Fricke's March 6, 1996, Results of a Limited Health Risk-Assessment and Ground Water Modeling, 6085 Scarlett Court, Dublin, California, indicted that the risk associated with petroleum affected soil beneath the site was not significant.

Well MW-1R and a domestic well are located within the footprint of a planned motorcycle dealership building (enclosed folded plate). The general contractor, CSI of San Francisco, California, wished to abandon well MW-1R prior to constructing the building pad. Ms. Eva Chu of the ACEHD requested that well MW-1R and the domestic well be sampled for BTEX and MTBE by EPA Method 8260 prior to abandonment of well MW-1R.

According to CSI, the domestic well will be used for onsite irrigation and toilet flushing. The building will also be provided with a public water supply.

## July 1998 GROUNDWATER MONITORING EVENT

### Depth to Groundwater Measurement

The depth to groundwater was measured in monitoring well MW-1R on July 6, 1998. The groundwater elevation for well MW-1R is presented in Table 1. The casing elevation and groundwater elevation are reported in feet relative to Mean Sea Level.

### Sampling of Groundwater Monitoring Well MW-1R

Before sampling, well MW-1R was purged in excess of three well volummes of groundwater until the pH, temperature, and conductivity of the purged water had stabilized. A groundwater sample was collected using a disposable bailer and transferred into 40 milliliter volatile organic analysis (VOA) vials. The sample was labeled, stored under refrigerated conditions, and transported to Alpha Analytical Laboratories Inc. (Alpha), in Ukiah, California, under Chain-of-Custody documentation. Information collected in the field during the sampling was recorded on a Groundwater Field Sampling Form, a copy of which is enclosed.

### Sampling of the Domestic Well

The domestic well was not purged prior to sampling, due to the well's size. According to Mr. Wyman Hong of the Zone 7 Water Agency, this well is approximately 300 feet deep. The steel casing exposed at the ground surface is 10 inches in diameter. The construction crew placing the engineered fill for site's new building pad had been using water from the well to moisture condition the imported fill. However, they had no estimate of how much water they had removed from the well in the days immediately prior to collecting the sample. A groundwater sample was collected using a disposable bailer and transferred into 40 milliliter VOA vials. The water sample was labeled, stored under refrigerated conditions, and transported to Alpha under Chain-of-Custody documentation.

### Groundwater Sample Analyses

Alpha subcontracted the analyses to Kiff Analytical LLC, in Davis, California. Kiff analyzed the samples for BTEX and MTBE using EPA Method 8260. Both Alpha and Kiff are California-certified analytical laboratories.

### Analytical Results

The groundwater sample from well MW-1R contained 0.035 milligrams per liter (mg/L) of benzene and 0.00074 mg/L of ethylbenzene, but was non detect (ND) for the remaining BTEX components and MTBE. The sample from the domestic well contained 0.0011 mg/L of benzene, but was ND for the other BTEX components and MTBE. Table 2 presents the groundwater sample analytical results. A copy of Kiff's analytical report is enclosed.

### Discussion

The groundwater flow direction and gradient cannot be determined with the groundwater elevation data from only one monitoring well. The July 18, 1995, Levine Fricke report indicates that the historic groundwater flow at the adjacent site to the south was toward the south to southwest. Based on the groundwater flow direction at the nearby site, monitoring well MW-1R is generally down-gradient of the former UST location.

The analytical results indicate the detection of 0.035 mg/L of benzene and 0.00074 mg/l of ethylbenzene in the sample from well MW-1R and 0.0011 mg/L benzene in the sample from the domestic well. Neither well contained a detectable concentration of MTBE.

## ABANDONMENT OF GROUNDWATER MONITORING WELL MW-1R

A well abandonment permit for well MW-1R was received from the Zone 7 Water Agency on July 7, 1998. Verbal permission to abandon well MW-1R was received from Ms. Eva Chu of the ACDEH on July 9, 1998. Kvilhuag Drilling of Concord, California, abandoned well MW-1R by pressure grouting on July 14, 1998. A copy of the well abandonment permit is enclosed.

## CONSTRUCTION DETAILS OF THE PLANNED BUILDING SLAB

Discussion with Ms. Chu indicated that the construction details of the planned building slab would be needed by the ACDEH in order to consider site closure. A copy of the cross section of the planned building slab was provided by Carlenzoli and Associates, of Santa Rosa, California. The cross section was signed and stamped by Douglas J. Ferrarelli, a California registered professional engineer.

Former monitoring well MW-1R and the domestic well are located within the planned warehouse area of the planed building. For the warehouse space, the cross section shows

a ten-inch thick layer of class 2 aggregate baserock overlying approximately two feet of engineered fill. On top of the baserock is a six-mil thick vapor barrier, then a two-inch thick sand layer followed by a seven inch thick concrete slab.

For office space area, the cross section shows four inches of gravel overlying approximately two feet of engineered fill. On top of the gravel is a six-mil thick vapor barrier, then a two-inch thick layer of sand followed by a five-inch thick concrete slab. A copy of the cross section is enclosed.

## CLOSURE

Very low concentrations of benzene and ethylbenzene were detected in well MW-1R, this well has since been abandoned.

A very low concentration of benzene was detected in the sample from the domestic well, this well remains onsite. The detection of 0.0011 mg/L of benzene exceeds the Maximum Contaminant Level of 0.001 mg/L for benzene, as established by the California Department of Health Services, Standards and Technology Unit, Division of Drinking Water. However, this well will not be used as a drinking water source. At the time of sampling the well was not sealed and has been used by the construction crew to provide water to moisture-condition the engineered fill. The potential exists that the detection of a low concentration of benzene could be the result of contamination accidentally introduced into the well.

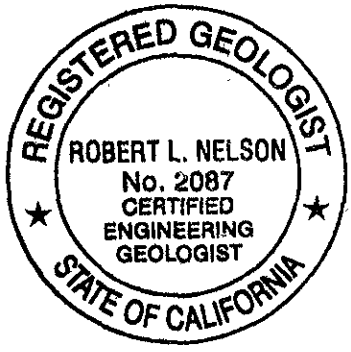
The contaminant source (USTs) and associated contaminated soil have been removed and documented by other consultants. Very low concentrations of BTEX components remain in the site's groundwater. Levine Fricke's March 6, 1996 report indicated that the risk associated with petroleum affected soil beneath the site is not significant.

The enclosed structural sections indicate that the building will have either a five or seven inch thick concrete slab overlying approximately two feet of engineered fill, a two-inch sand layer and a six-mil thick vapor barrier to prevent the migration of soil vapors into the building.

Further expenditure of funds does not appear justified and the remaining groundwater contamination should degrade by natural processes. Therefore, EnviroNet Consulting requests that the Alameda County Environmental Health Department grant site closure.

We trust this report provides the information you require. Please call (707) 546-9461 if you have any questions or comments.

Sincerely,
EnviroNet Consulting



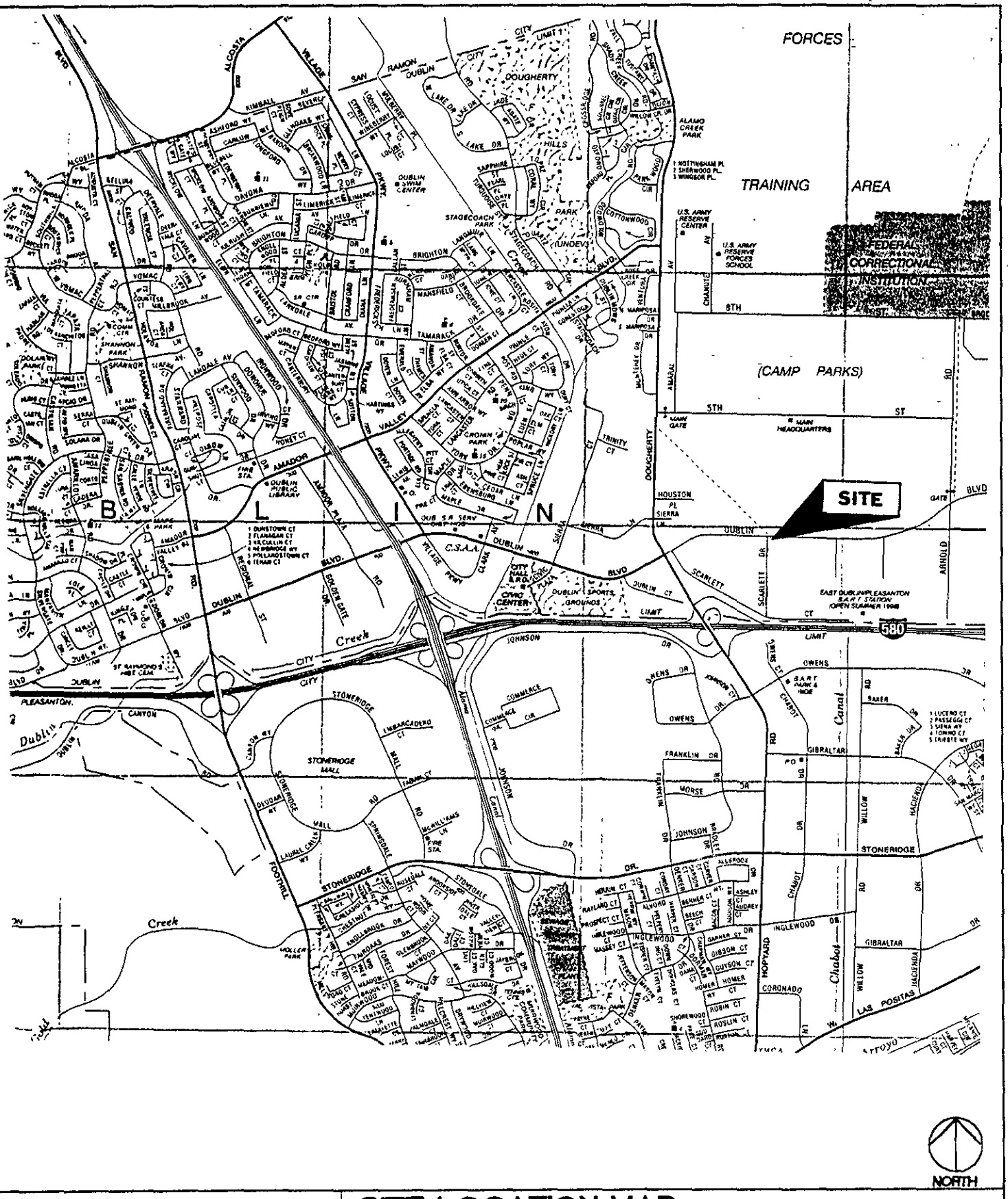

Robert L. Nelson

Robert L. Nelson
Certified Engineering Geologist No. 2087 Expires January 31, 2000

Enclosures:
- Plate 1: Site Location Map
- Plate 2: Site Plan
- Folded Plan: Site Plan (by Herbert Samonsky, Architects, with modifications by EnviroNet Consulting)
  Structural Sections for Arlen Ness Motorcycles (by Carlenzoli and Associates)
- Table 1: Groundwater Elevations, Well MW-1R
- Table 2: 1996 Groundwater Sample Analytical Results
- Table 3: 1998 Groundwater Sample Analytical Results
- Kiff Analytical LLC Analytical Report, July 8, 1998
- Groundwater Field Sampling Form for Well MW-1R
- Well Abandonment Permit for Well MW-1R

**DISTRIBUTION**
Project Number 6142.2

Mr. Burt Hamrol
President
CSI/Customer Service
General Contracting, Inc.
525 York Street
San Francisco, California 94110



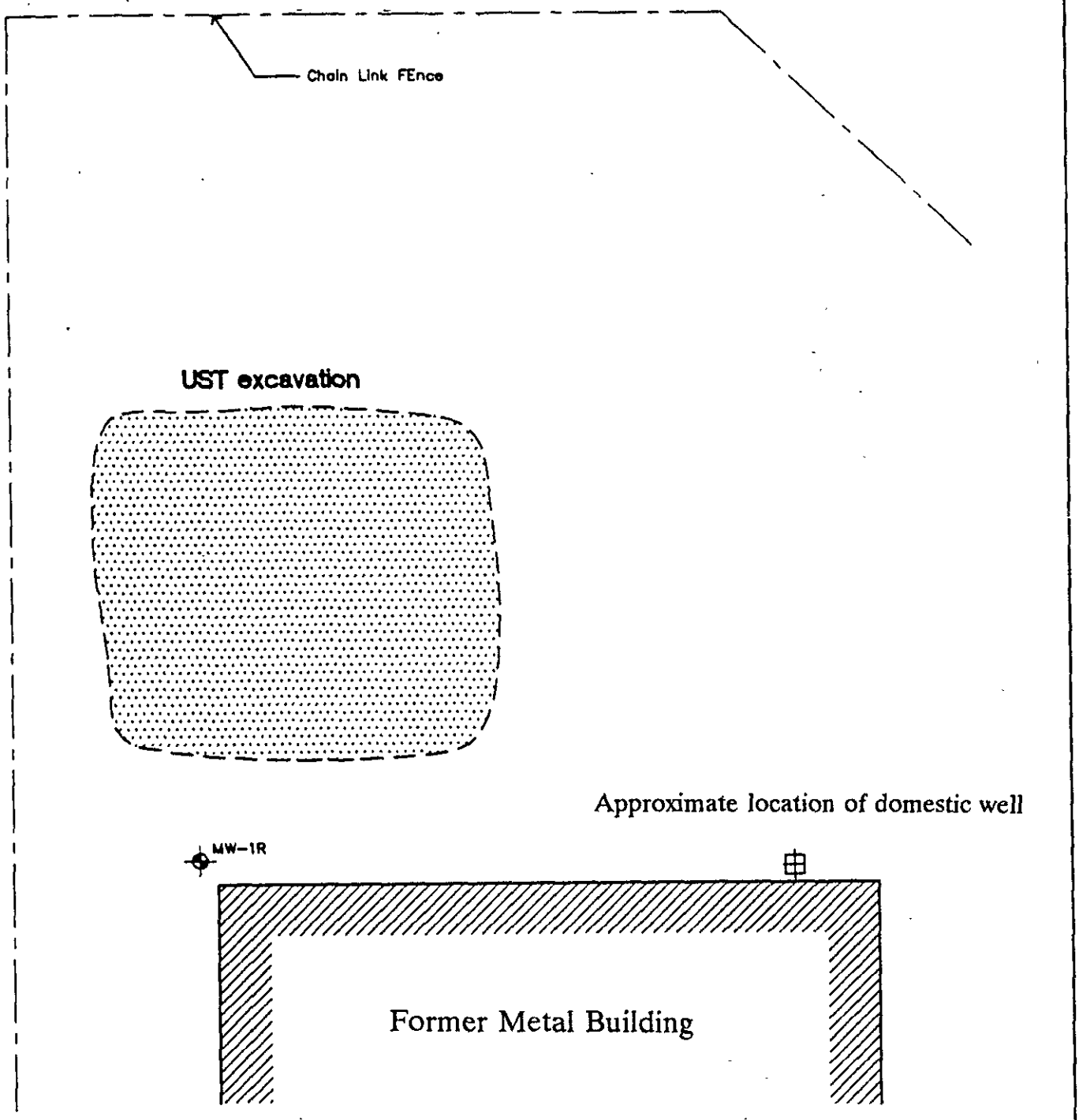

# SITE LOCATION MAP

**EnviroNet** CONSULTING

**6085 Scarlet Court**
**Dublin, California**

PLATE 1

| DRAWN BY: | DWG NAME: | APPROVED BY: | JOB NUMBER: | REVISIONS: | DATE: |
|---|---|---|---|---|---|
| WA | 61422-1 | GSJ | 6142.2 | | 10/8/96 |



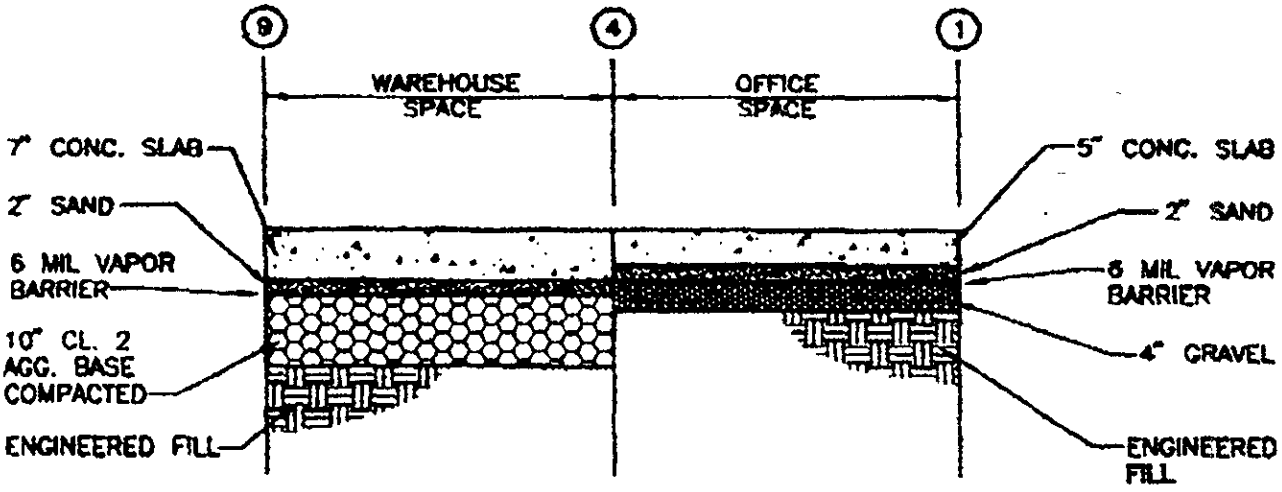

EnviroNet CONSULTING

# SITE PLAN

**6085 Scarlet Court**
**Dublin, California**

PLATE 2

| DRAWN BY: | DWG NAME: | APPROVED BY: | JOB NUMBER: | REVISIONS: | DATE: |
|---|---|---|---|---|---|
| WA | 61422-2A | GSJ | 6142.2 | | 10/8/96 |




# STRUCTURAL SECTIONS
## FOR ARLEN NESS MOTORCYCLES

REGISTERED PROFESSIONAL ENGINEER
DOUGLAS J. FERRARELLI
No 3533
Exp 3-31-01
STRUCTURAL
STATE OF CALIFORNIA

DOUGLAS J. FERRARELLI SE 3533

7-22-98

CARLENZOLI AND ASSOCIATES
Engineers-Surveyors-Planners

3451A TERCONI CIRCLE, SANTA ROSA, CA 95401
(707) 542-6465 FAX (707) 542-1645

**Table 1: Groundwater Elevations, Well MW-1R**

| Well Number | Date of Water Level Measurement | Top of Casing Elevation* | Depth to Water in Feet | Ground Water Elevation* |
|---|---|---|---|---|
| MW-1R | 9/10/96<br>12/19/96<br>7/6/98 | 330.01 | 6.61<br>4.30<br>4.80 | 323.40<br>325.71<br>325.21 |

* In feet above mean sea level.

**Table 2: 1996 Groundwater Sample Analytical Results (EPA Method 8020)**

| Well | Date | TPH-g | TPH-d | TPH-mo | B | T | E | X | MTBE |
|---|---|---|---|---|---|---|---|---|---|
| | | mg/L | | | | | | | |
| MW-1R | 09/10/96<br>12/19/96 | 0.081<br>0.340 | ND<br>ND | ND<br>ND | 0.0012<br>ND | ND<br>ND | ND<br>ND | ND<br>ND | ----<br>0.110 |

ND = Not Detected.
---- = Not Analyzed.
TPH-d = TPH as diesel
TPH-mo = TPH as motor oil

**Table 3: July 1998 Groundwater Sample Analytical Results (EPA Method 8260)**

| Well | Date | B | T | E | X | MTBE |
|---|---|---|---|---|---|---|
| | | mg/L | | | | |
| MW-1R | 7/6/98 | 0.035 | ND | 0.00074 | ND | ND |
| Domestic Well | | 0.0011 | ND | ND | ND | ND |

ND = Not Detected

KIFF ANALYTICAL LLC

Report Number : 11882
Date : 07/08/98

Robert Nelson
Environet Consulting
3601 Regional Parkway, Suite A
Santa Rosa, CA 95403

Subject : 2 Water Samples
Project Name : 6085 Scarlett Court, Dublin
Project Number : 6142.2

Dear Mr. Nelson,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 11882
Date : 07/08/98

Project Name : **6085 Scarlett Court, Dublin**
Project Number : **6142.2**

Sample : **Domestic Well** Matrix : Water
Sample Date :07/06/98

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **1.1** | 0.50 | ug/L | EPA 8260B | 07/08/98 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/08/98 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/08/98 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/08/98 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/08/98 |
| Toluene - d8 (Surr) | 96.5 | | % Recovery | EPA 8260B | 07/08/98 |
| 4-Bromofluorobenzene (Surr) | 98.8 | | % Recovery | EPA 8260B | 07/08/98 |

Sample : **MW-1R** Matrix : Water
Sample Date :07/06/98

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **35** | 0.50 | ug/L | EPA 8260B | 07/08/98 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/08/98 |
| **Ethylbenzene** | **0.74** | 0.50 | ug/L | EPA 8260B | 07/08/98 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/08/98 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/08/98 |
| Toluene - d8 (Surr) | 95.7 | | % Recovery | EPA 8260B | 07/08/98 |
| 4-Bromofluorobenzene (Surr) | 101 | | % Recovery | EPA 8260B | 07/08/98 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 11882

Date : 07/08/98

Project Name : **6085 Scarlett Court, Dublin**

Project Number : **6142.2**

Water Quality Control Data - Method Blank

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/07/98 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/07/98 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/07/98 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/07/98 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/07/98 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/07/98 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/07/98 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 07/07/98 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 07/07/98 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 07/07/98 |
| Toluene - d8 (Surr) | 98.4 | | % Recovery | EPA 8260B | 07/07/98 |
| 4-Bromofluorobenzene (Surr) | 100 | | % Recovery | EPA 8260B | 07/07/98 |

Approved By: Joel Kiff

Report Number : 11882

Date : 07/08/98

**QC Report : Method Spikes/ Method Spike Duplicates**

Project Name : **6085 Scarlett Court, Dublin**

Project Number : **6142.2**

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Water Spike Recovery Data | | | | | | | | | | | | | | |
| Benzene | Blank | <0.50 | 50.0 | 50.0 | 50.1 | 48.6 | ug/L | EPA 8260B | 07/07/98 | 100 | 97.1 | 3.08 | 70-130 | 25 |
| Toluene | Blank | <0.50 | 50.0 | 50.0 | 49.8 | 48.2 | ug/L | EPA 8260B | 07/07/98 | 99.7 | 96.4 | 3.39 | 70-130 | 25 |

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D, Davis, CA 95616 530-297-4800

11882

# WORK ORDER
# CHAIN OF CUSTODY RECORD

Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, CA 95482 • (707) 468-0401 • FAX (707) 468-5267

DATE 7-6-98 PAGE 1 OF 1

| | |
|---|---|
| CLIENT'S NAME: Burt Hamel / CSI | PROJECT MANAGER: Robert L. Nelson |
| STREET ADDRESS: 525 York Street, CITY: San Francisco, STATE: CA, ZIP: 94110 | PHONE NUMBER: (707) 546-9461 |
| PROJECT NAME: 6085 Scarlett Court Dublin | FAX NUMBER: (707) 544-5769 |
| CONTRACT/PURCHASE ORDER/QUOTE NUMBER: 6142.2 | SITE CONTACT: |
| SIGNATURE OF PERSON AUTHORIZING WORK UNDER TERMS STATED ON REVERSE SIDE OF THIS FORM: Robert L. Nelson | SAMPLED BY: Robert L. Nelson |

ANALYSES: TPH by 8260 and BTEX

SAMPLE CONDITION ON RECEIPT:

COLD/ICED? _____

BUBBLES OR AIR SPACE? _____

WERE SAMPLES PRESERVED? _____

| SAMPLE NUMBER IDENTIFICATION | DATE | TIME | LAB SAMPLE NUMBER | SAMPLE TYPE: LIQ | AIR | SOLID | COMP | GRAB | NO. OF CONTS. | |
|---|---|---|---|---|---|---|---|---|---|---|
| Domestic Well | 7-6-98 | 1600 | -01 | X | | | | | 3 | X |
| MW-1R | 7-6-98 | 1700 | -02 | X | | | | | 3 | X |

EXPLAIN IRREGULARITIES BELOW

| | | | |
|---|---|---|---|
| RELINQUISHED BY: (SIGNATURE) Robert L. Nelson | RECEIVED BY: (SIGNATURE) | DATE | TIME |
| RELINQUISHED BY: (SIGNATURE) | RECEIVED BY: (SIGNATURE) | DATE | TIME |
| RELINQUISHED BY: (SIGNATURE) | RECEIVED FOR LABORATORY BY: Justin Dusch 7/6/98 1230 | SAMPLE CONTROL OFFICER | |
| METHOD OF SHIPMENT | AUTHORIZED BY: | | |

TURN AROUND TIME REQUESTED: 48 Hour T.A.T.

SPECIAL INSTRUCTIONS

| DRIVING TIME | SITE TIME | TOTAL TIME |
|---|---|---|
| | | |

SAMPLE DESPOSITION:

1. STORAGE TIME REQUESTED _____ DAYS (SAMPLES WILL BE STORED FOR 30 DAYS WITHOUT ADDITIONAL CHARGES: THEREAFTER STORAGE CHARGES WILL BE BILLED AT THE PUBLISHED RATES.)
2. SAMPLE TO BE RETURNED TO CLIENT? ☐ YES ☐ NO

HAZARDOUS MATERIALS ARE THE PROPERTY OF THE CLIENT. THE CLIENT IS RESPONSIBLE FOR PROPER DISPOSAL OF HAZARDOUS WASTES. CLIENTS NOT PICKING UP HAZARDOUS WASTES MAY BE ASSESSED AN APPROPRIATE FEE.

# ENVIRONET CONSULTING
# GROUNDWATER FIELD SAMPLING FORM

**WELL INFORMATION**

| | |
|---|---|
| Project Number/Name: 6422 | Well Number: MW-1R |
| Project Location: 6065 Eastex Dublin | Well Depth from TOC: 18.7 |
| Date: 7-6-1998 | Casing Diameter: 2" |
| Start Time: 1630 Finish Time: | Product Thickness in Inches: |
| Recorded by: RLN | Water Level from TOC: 4.80 Time: 1432 |
| Sampled by: RLN | Screened Interval: Initial Well Depth: |
| Purge Time Start: 1650 Purge Time Stop: | Well Elevation (TOC): |
| Pump Intake Setting: ☒ Near Bottom ☐ Near Top ☐ Other: | Well Type: ☒ Monitor ☐ Extraction ☐ Other: |
| Notes: | Well Material: ☒ PVC ☐ St. Steel ☐ Other: |

**WEATHER**

| | |
|---|---|
| Wind: Yes/No Sun: Yes/No Clouds: Yes/No<br>Rain: Yes/No Fog: Yes/No | Precipitation in Last 5 Days: |

**VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING**

( 13.7 - 4.80 ) ( 2 )² × 0.0408 = 2.27 gallons in one well volume
TD - WL Dia. inches

6.8 gallons in 3 well volumes | 8 total gallons removed

**FIELD MEASUREMENTS**

| Time | pH | EC 1 10 100 (1000) | Temp ° F | Gallons | Appearance |
|---|---|---|---|---|---|
| 1635 | 7.09 | 1.76 | 71.2 | 1 | SL. |
| | 7.26 | 1.73 | 68.9 | 2 | TURBID |
| | 7.20 | 1.71 | 67.9 | 3 | |
| | 7.17 | 1.71 | 68.0 | 4 | |
| | 7.20 | 1.70 | 67.5 | 5 | |
| | 7.21 | 1.72 | 67.3 | 6 | |
| 1650 | 7.21 | 1.71 | 67.3 | 7 | |
| | | | | | |
| | | | | | |

Water Level After Purging: | 80% of Original Water Level:

Water Level Before Sampling:

APPEARANCE OF SAMPLE: SL. TURBID Time: 1700

| | | |
|---|---|---|
| Bailer: Yes/No | Type: Disposable | GPM: |
| Pump: Yes/No | Type: Submersible | GPM: |
| Dedicated: Yes/No | Type | GPM: |

DECONTAMINATION METHOD: Purge Pump; TSP Wash, Double Rinse, Disposable Bailers

SAMPLE ANALYSIS: SEE CHAIN-OF-CUSTODY

SIGNATURE: Robert L. Nelson

# ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600
FAX (510) 462-3914


## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 6085 Scarlett Court
Dublin

CLIENT
Name CSI General Contracting Inc.
Address 525 York St. Voice (415) 626-1983
City San Francisco, CA Zip 94110

APPLICANT
Name EnviroNet Consulting Fax (707) 544-5769
Address 3601 Regional Parkway Suite A Voice (707) 546-9461
City Santa Rosa, CA Zip 95403

TYPE OF PROJECT

| Well Construction | | Geotechnical Investigation | |
|---|---|---|---|
| Cathodic Protection | ___ | General | ___ |
| Water Supply | ___ | Contamination | ___ |
| Monitoring | ___ | Well Destruction | X |

Well # MW-1R

PROPOSED WATER SUPPLY WELL USE
Domestic ___ Industrial ___ Other ___
Municipal ___ Irrigation ___

DRILLING METHOD:
Mud Rotary ___ Air Rotary ___ Auger X
Cable ___ Other ___

DRILLER'S LICENSE NO. C57 482370

WELL PROJECTS
Drill Hole Diameter 2 in. Maximum
Casing Diameter ___ in. Depth 20 ft.
Surface Seal Depth ___ ft. Number 1

GEOTECHNICAL PROJECTS
Number of Borings ___ Maximum
Hole Diameter ___ in. Depth ___ ft.

ESTIMATED STARTING DATE 7/13/98
ESTIMATED COMPLETION DATE ___

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Robert L. Nelson, R.G. C.E.G. Date 7-7-1998

FOR OFFICE USE

PERMIT NUMBER 98112
LOCATION NUMBER 3S/1E 6G26

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

(E.) WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 7 Jul 98
Wyman Hong

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