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ENVIRONMENTAL ENGINEERING, INC  
2680 Bishop Drive • Suite 203 • San Ramon, CA 94583  
TEL (925) 244-6600 • FAX (925) 244-6601

November 10, 2004

Mr. Amir Gholami  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Alameda County  
NOV 10 2004  
Environmental Health

Re: Well Decommissioning of Well MW-4  
Tony's Express Auto Service  
3609 International Boulevard, Oakland, California

Dear Mr. Gholami:

Due to a cracked casing in well MW-4, SOMA is submitting this application to decommission this well. Well MW-4 is a 2-inch diameter well with a measured depth of 26.00 feet. As shown in the enclosed map, MW-4 is located in the southern section of the site. The enclosed table shows the analytical data from the well samples collected from MW-4 since January 1996.

Following Alameda County guidelines, this well can be decommissioned by overdrilling the well and grouting to the surface with Portland I/II cement. However, before doing so, the well will be sounded to verify the exact depth. After determining the depth, the drilling crew will drill one extra foot to fully remove all sand at the bottom of the well and ensure a tight seal. The driller will also attempt to remove the full casing to ensure that the entire well is removed.

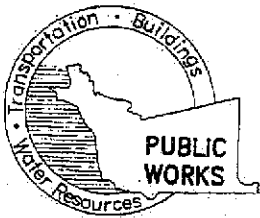
Thank you for taking the time to review this matter. Meanwhile, please do not hesitate to call me at (925) 244-6600, if you have any questions or comments.

Sincerely,

  
John Lohman  
Staff Geologist

Enclosures

cc: Abolghessem Razi



# ALAMEDA COUNTY PUBLIC WORKS AGENCY

**WATER RESOURCES SECTION**  
399 ELMHURST ST. HAYWARD CA. 94544-1395  
PHONE (510) 670-6633 James Yoo  
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS  
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 3609 International  
Blvd, Oakland, CA

PERMIT NUMBER \_\_\_\_\_  
WELL NUMBER \_\_\_\_\_  
APN \_\_\_\_\_

CLIENT  
Name Abolghassem Razi  
Address 46 Montecito Road Phone 415-457-2170  
City San Rafael Zip 94901

PERMIT CONDITIONS  
Circled Permit Requirements Apply

APPLICANT  
Name SOMA Environmental Engineering  
Address 2680 Bishop Dr Ste 203 Phone 925-244-6600  
City San Ramon Zip 94583

### A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

### TYPE OF PROJECT

Well Construction  Geotechnical Investigation   
Cathodic Protection  General   
Water Supply  Contamination   
Monitoring  Well Destruction

### B. WATER SUPPLY WELLS

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.

### PROPOSED WATER SUPPLY WELL USE

New Domestic  Replacement Domestic   
Municipal  Irrigation   
Industrial  Other \_\_\_\_\_

### C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

### DRILLING METHOD:

Mud Rotary  Air Rotary  Auger   
Cable  Other

### D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

DRILLER'S NAME Woodward Drilling Co.

### E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. C-57 Lic # 710079

### F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

### WELL PROJECTS

Drill Hole Diameter \_\_\_\_\_ in. Maximum  
Casing Diameter 2 in. Depth 26 ft.  
Surface Seal Depth \_\_\_\_\_ ft. Owner's Well Number MW-4

### G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

### GEOTECHNICAL PROJECTS

Number of Borings \_\_\_\_\_ Maximum  
Hole Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.

STARTING DATE \_\_\_\_\_

COMPLETION DATE \_\_\_\_\_

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

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

APPLICANT'S SIGNATURE [Signature] DATE 11/1/04

PLEASE PRINT NAME John Lohman

# Woodward Drilling Co.

C-57 Lic # 710079

P.O. Box 336 Rio Vista, Ca 94571 (707) 374 - 4300

**Contact;** John Lohman **Date;** 10/28/2004  
**Company;** Soma Environmental **Location;**  
**Job #** **Address;** 3609 International Blvd  
**Estimate #** International Blvd, Oakland, 10-28-04 **City;** Oakland, CA

### Conditions of Quotation:

All locations, utilities, hazards are marked by Client and cleared by U.S.A.  
All required permits are the responsibility of the client  
Quote is based on 10 hr day unless otherwise noted  
No adverse auger drilling soil conditions anticipated, unless noted  
Damaged tools due to adverse drilling conditions will be charged at cost, unless noted  
DWR Well Completion Reports to be completed and filed by client

**Payment terms are; balance in full within 30 days of invoice date.**

Hours anticipated to complete project: 2  
Days anticipated to complete project: 1  
Number of drums included: 4

### Description of work;

Overdrill 1 - 2" x 26'  
Grout to surface

\*\* Drum cuttings and decon  
\*\* Asphalt surface

**Total Cost Estimate = \$1,750.00**

<b>ACORD CERTIFICATE OF LIABILITY INSURANCE</b>		DATE (MM/DD/YYYY) 11/01/04
PRODUCER <b>Driver Alliant Insurance</b> 516 West Shaw Avenue Suite 102 Fresno, CA 93704-2515	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.	
INSURED <b>Woodward Drilling Company, Inc.</b> Po Box 336 Rio Vista, CA 94571	INSURERS AFFORDING COVERAGE	
	INSURER A: <b>Gulf Underwriter Ins. Co.</b>	NAIC #
	INSURER B: <b>Star Insurance Company</b>	
	INSURER C: <b>United National Insurance Co./SCR</b>	
	INSURER D:	
INSURER E:		

**COVERAGES**

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INBR ADD'L TR INSR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> PD Ded:5,000 GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	GU2828007	11/05/03	11/05/04	EACH OCCURRENCE \$5,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000 MED EXP (Any one person) \$5,000 PERSONAL & ADV INJURY \$5,000,000 GENERAL AGGREGATE \$5,000,000 PRODUCTS - COMP/OP AGG \$5,000,000
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS GARAGE LIABILITY <input type="checkbox"/> ANY AUTO EXCESS/UMBRELLA LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE RETENTION \$	CA0165365	11/05/03	11/05/04	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY: EA ACC \$ AGG \$ EACH OCCURRENCE \$ AGGREGATE \$ \$ \$ WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER \$ E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below				
A	OTHER EXCESS AUTO LIABILITY POLLUTION LIAB	BINDER#7534 GU2828007	11/05/03 11/05/03	11/05/04 11/05/04	LIMIT: \$4,000,000 LIMIT: \$5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS  
 Certificate Holder is added as an additional insured per contract on file with insured

**CERTIFICATE HOLDER**

City of Oakland  
 250 Franklin Ogawa, 2nd Floor  
 Oakland, CA 94612

**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

*Debra M. Dunstan*

**STATE  
COMPENSATION  
INSURANCE  
FUND**

P.O. BOX 807, SAN FRANCISCO, CA 94142-0807

**CERTIFICATE OF WORKERS' COMPENSATION INSURANCE**

ISSUE DATE: 10-01-2004

GROUP: 000044  
POLICY NUMBER: 0020238-2004  
CERTIFICATE ID: 87  
CERTIFICATE EXPIRES: 10-01-2005  
10-01-2004/10-01-2005

CITY OF OAKLAND  
ATTN: DIM LOW  
250 FRANK OGAWN BLDG SERVICE 2ND FLOOR  
OAKLAND CA 94612

NT

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon 30 days' advance written notice to the employer.

We will also give you 30 days' advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies.



AUTHORIZED REPRESENTATIVE



PRESIDENT

EMPLOYER'S LIABILITY LIMIT INCLUDING DEFENSE COSTS: \$1,000,000.00 PER OCCURRENCE.

ENDORSEMENT #2065 ENTITLED CERTIFICATE HOLDERS' NOTICE EFFECTIVE 10-01-2004 IS ATTACHED TO AND FORMS A PART OF THIS POLICY.

EMPLOYER

LEGAL NAME

WOODWARD DRILLING COMPANY, INC.  
PO BOX 336  
RIO VISTA CA 94571

WOODWARD DRILLING COMPANY, INC.  
(A CORP)

Manhole

EBMUD

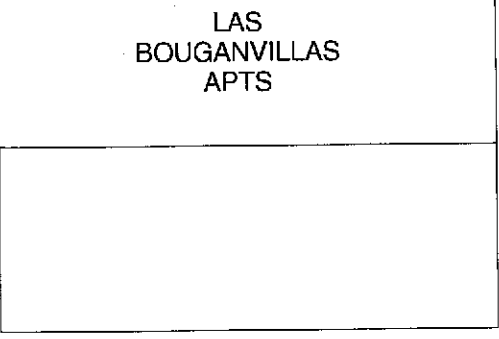
COMMERCIAL AREA

COMMERCIAL AREA

36th AVENUE

Main sewer line

Storm drain



- ▲ MONITORING WELL
- ▲ EXTRACTION WELL
- — — EXTRACTION MANIFOLD PIPING
- - - FACILITY PROPERTY LINES
- - - SEWER LINE APPROXIMATE
- - - WATER LINE TO WATER METER APPROXIMATE
- - - TREATMENT SYSTEM DISCHARGE LINE APPROXIMATE
- ⊗ RESTROOM
- SINK
- NEPTUNE WATER METER
- ① TREATMENT SYSTEM SAMPLING POINT

▲ MW-12

▲ MW-10

▲ MW-11

E 12th STREET



(Discharge permit No: 504-27421)  
 Tony's Express Auto Service

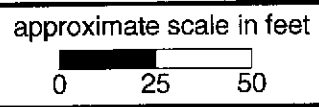


Figure 2: Site map showing location of groundwater monitoring wells, French drain, SVE system, and GAC system.



**Table 1**  
**Historical Groundwater Elevation Data & Analytical Results**  
**3609 International Boulevard, Oakland, California**

Monitoring Well	Date	Top Of Casing Elevation (feet)	Groundwater Elevations (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MIBE <sup>1</sup> EPA 8260B (µg/L)
MW-3	Oct-94	97.78	81.99	3,000,000	190,000	740,000	310,000	130,000	NA
	Dec-94	97.78	87.99	250,000	19,000	22,000	4,400	28,000	NA
	Mar-95	97.78	89.09	350,000	20,000	42,000	5,800	36,000	NA
	Jun-95	97.78	87.53	350,000	20,000	42,000	5,800	36,000	NA
	Oct-95	97.78	84.87	150,000	510	410	210	65	NA
	Jan-96	97.78	87.23	150,000	510	410	210	650	NA
	Apr-96	97.78	89.02	NA	NA	NA	NA	NA	NA
	Dec-96	97.78	85.76	NA	NA	NA	NA	NA	NA
	Apr-97	97.78	86.05	NA	NA	NA	NA	NA	NA
	Dec-97	97.78	NM	NA	NA	NA	NA	NA	NA
	Sep-98	97.78	83.10	NA	NA	NA	NA	NA	NA
	Dec-98	97.78	86.23	51,000	5,700	3,900	1,200	6,300	410
	Mar-99	97.78	89.34	45,000	4,100	6,400	1,000	6,100	470
	Jun-99	97.78	85.98	46,000	8,245	6,425	1,015	7,173	274
	Aug-99	97.78	83.93	64,000	7,484	8,052	1,744	9,749	141
	Nov-99	97.78	83.08	26,000	3,218	1,319	<5	6,697	126
	Feb-00	97.78	86.83	44,000	6,090	3,360	<5	5,780	276
	May-00	97.78	86.10	68,000	15,000	8,900	1,500	7,400	<5
	Aug-00	97.78	84.05	76,000	8,900	5,636	883	7,356	176
	Nov-00	97.78	84.38	48,000	6,789	4,816	676	7,258	83
	Mar-01	97.78	88.35	14,754	2,250	140	ND	1,284	110
	May-01	97.78	85.97	44,000	5,400	3,100	1,400	6,400	200
	Aug-01	97.78	83.68	41,750	3,485	2,670	1,255	5,420	52
	Nov-01	97.78	83.46	NA	NA	NA	NA	NA	NA
	Feb-02	97.78	87.77	62,000	6,000	7,600	1,900	9,200	12,000
	May-02	97.78	86.50	54,000	6,700	3,200	1,800	7,100	9,100
	Jul-02	40.91	27.66	45,000	8,900	1,700	1,600	5,600	2,600
Oct-02	40.91	25.93	70,000	4,900	5,100	2,100	11,900	21,000	
Jan-03	40.91	31.12	35,000	2,900	1,300	860	5,200	13,000	
May-03	40.91	30.90	48,000	5,800	1,400	1,600	7,400	5,900	
Jul-03	40.91	27.97	31,000	4,700	990	1,400	5,200	16,000	
Oct-03	40.91	26.62	30,000	4,400	930	1,600	5,400	7,400	
Jan-04	40.91	30.34	45,000	2,100	850	1,500	5,700	2,900	
Apr-04	40.91	29.07	31,000	4,200	590	1,600	4,370	900	
Aug-04	40.91	26.67	21,000	3,400	370	1,000	2,350	1,100	
MW-4	Jan-96	97.85	87.74	9,300	230	110	10	29	NA
	Apr-96	97.85	89.50	1,900	12	8	5	14	NA
	Dec-96	97.85	86.27	4,000	14	6	4	12	ND
	Apr-97	97.85	86.62	ND	ND	ND	ND	ND	ND
	Dec-97	97.85	88.42	2,300	410	270	100	1,500	NA
	Jun-98	97.85	NM	1,700	780	160	54	200	NA
	Sep-98	97.85	84.21	6,200	910	77	68	200	18
	Dec-98	97.85	86.72	1,400	590	33	28	94	24
	Mar-99	97.85	89.39	600	200	35	19	56	11
	Jun-99	97.85	86.55	1,000	298	44	19	64	13
	Aug-99	97.85	84.65	660	497	41	54	145	6
	Nov-99	97.85	83.75	<50	<5	<5	<5	<5	<5
	Feb-00	97.85	86.60	7,800	1,200	61	<5	781	<5
	May-00	97.85	86.39	552	42	19	16	67	<5
	Aug-00	97.85	84.50	370	5.08	<5	<5	<5	<5
	Nov-00	97.85	84.80	ND	5.30	ND	ND	8	ND
	Mar-01	97.85	88.61	62	ND	ND	3.2	8.7	ND
	May-01	97.85	86.35	80	12	1.9	4.1	9.8	ND
	Aug-01	97.85	84.05	133	12	2.2	3.9	9	ND
	Nov-01	97.85	84.17	670	180	5	17	53	ND
	Feb-02	97.85	87.88	450	63	4.1	22	28.7	<2
	May-02	97.85	87.04	570	72	29	27	74	<2
	Jul-02	40.01	27.39	450	20	24	19	74	<2.0
	Oct-02	40.01	25.67	320	69	0.99	9	5.49	<2.0
	Jan-03	40.01	30.22	310	49	2.5	13	26.7	<2.0
	May-03	40.01	30.23	120	27	1.8	9	14.6	<2.0
	Jul-03	40.01	27.57	<50	1	<0.5	<0.5	<0.5	<0.5
Oct-03	40.01	26.29	70	12	<0.5	4.7	3.0	<2.0	
Jan-04	40.01	29.46	230	18	2.1	8.1	17.1	<2.0	
Apr-04	40.01	28.62	<50	3.8	<0.5	1.6	1.9	<2.0	
Aug-04	40.01	26.33	<50	1.6	<0.5	0.66	0.53	<2.0	