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1:46 pm, Jul 16, 2009

Alameda County
Environmental Health



1000 Broadway, Suite 440
Oakland, California 94607
Tel: (510) 268-0461
Fax: (510) 268-0545

June 26, 2009
Project No. 272.179

Alameda County Health Care Services Agency
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6700

Attention: Mr. Paresh C. Khatri

Subject: Well Destruction Report, Pacific Renaissance Plaza, Oakland, California
(Fuel Leak Case No. RO0000037; Geotracker ID T0600101036)

Dear Mr. Khatri:

With this letter Fugro West Inc. (Fugro) documents the completion of well destruction activities at the subject Site. Well destruction activities were completed in general accordance with our Work Plan dated November 12, 2008. Well destruction was completed to address the Alameda County Health Care Services Agency, Environmental Protection (County) letter dated July 15, 2008 that indicted final approval of case closure conditioned upon destruction of the existing monitoring wells.

Fugro's Work Plan indicted that well destruction would comprise pressure-grouting each well and removing the upper 5 feet of casing. Based on discussions with the Alameda County Public Works Agency (PWA), Fugro was instructed to overdrill the full length of each well, if practical. Based upon the difficult overdrilling and traffic control conditions encountered at the first well (MW-6), PWA agreed to allow pressure grouting at the remaining locations as described below.

On June 16th though 18th, 2009, Fugro completed the well destruction activities with oversight and in coordination with PWA. Fugro contracted with RSI Drilling, a licensed drilling contractor (C-57# 802334), to destroy groundwater monitoring wells MW-2, MW-3, MW-6, MW-8, MW-19, MW-22 and MW-23. Note that Fugro checked the project area on several occasions but was unable to locate wells MW-7, MW-17 and MW-18. Well destruction activities consisted of the following:

- Procured drilling PWA Permits #W2008-0881 through W2008-0887 (Attached).
- Procured required encroachment, obstruction, and traffic control permits from the City of Oakland (Attached).





- Conducted field reconnaissance to locate and assess conditions of existing wells. We were unable to locate Wells MW-7, MW-17 and MW-18, which presumably were removed during various street and sidewalk improvements since well installation.
- Coordinated traffic control and access to wellhead locations to facilitate well destruction.
- Overdrilled Well MW-6 using a truck-mounted hollow stem auger rig. Grouted the resulting boring using neat cement grout tremied from 43 feet below ground surface to the 0.5 feet below ground surface. No groundwater surfaced during tremie grouting activities.
- Injected neat cement grout into wells; MW-2, MW-3, MW-8, MW-19, MW-22, and MW-23, under a pressure of at least 15 PSI. During well injection, was conducted on June 17, 2009. Fugro noted that typical grout volumes exceeded the calculated well casing volume by 50 to 100 percent. No groundwater surfaced during pressure grouting activities.
- For Wells MW-2, MW-3, MW-8, MW-19, MW-22, and MW-23, removed the well box and upper 2 to 3 feet of casing by hand, and capped former wellheads with rapid set concrete. Well box removal and capping was conducted on June 18, 2009. Fugro noted that the cement grout had not settled significantly from the prior day of grout injection.
- Investigation derived waste comprised well boxes, PVC well casing, and a minor amount of concrete.
- The soil cuttings from MW-6 were placed in labeled, DOT-approved 55-gallon drums and transported to NRC for proper disposal as non-hazardous waste.
- Well abandonment forms (DWR-188) will be submitted to the proper State and County agencies under separate cover.

With the completion of these well destruction activities, Fugro has completed the well destruction activities required by County. On behalf of the City of Oakland, Fugro respectfully requests that the County provide written confirmation that no further action is required for this case.



We trust this provides the information required at this time. Please call either of the undersigned if you have any questions or need additional information.

Sincerely,

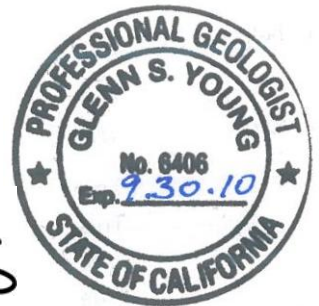
FUGRO WEST, INC.

A handwritten signature in black ink, appearing to read "Russell Carter".

Russell Carter
Staff Geologist

A handwritten signature in black ink, appearing to read "Glenn S. Young".

Glenn S. Young, P.G.
Manager, Environmental Services

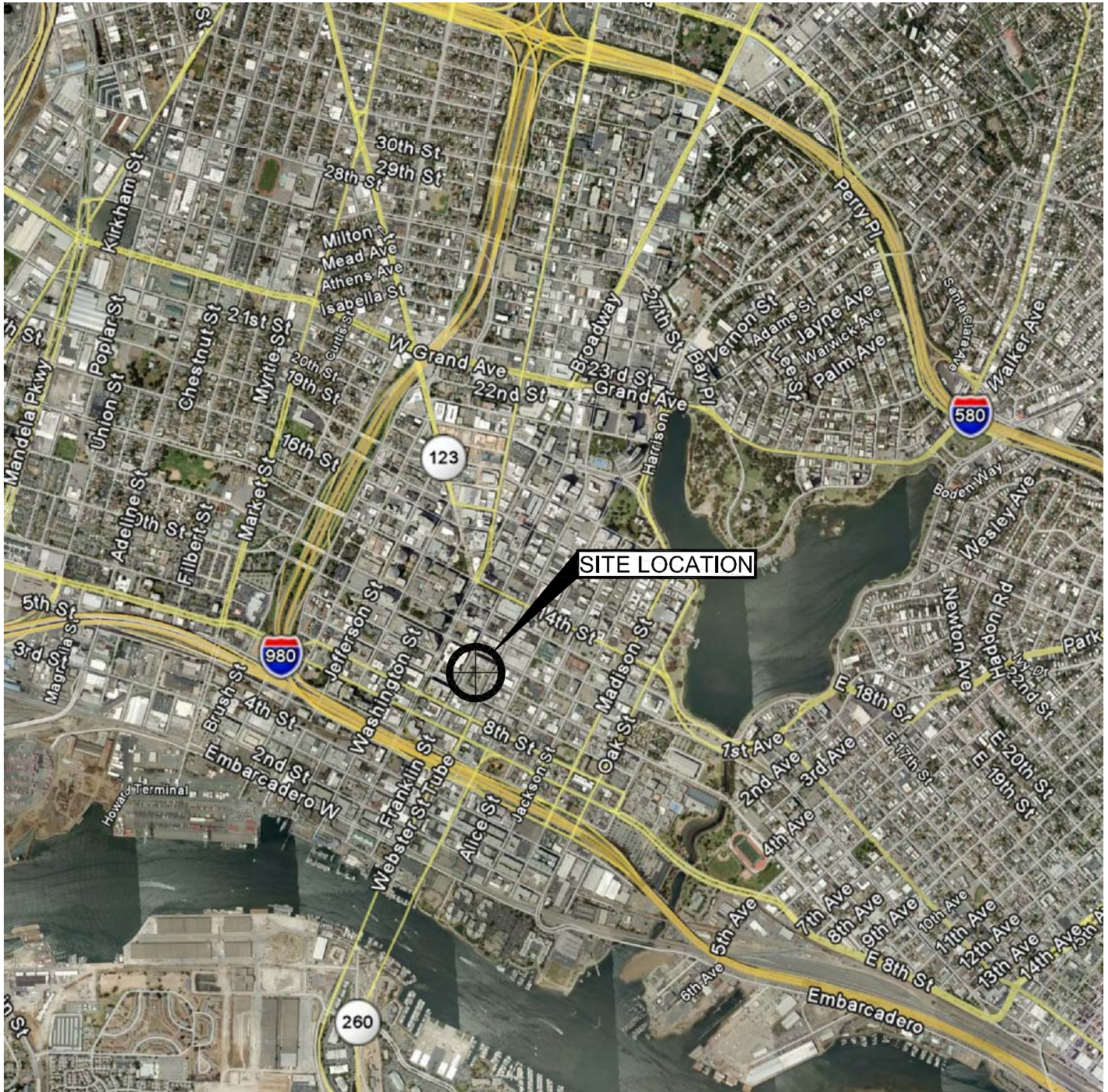


GSY/RWC:afp

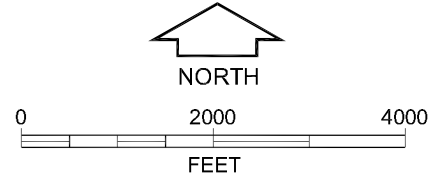
Attachments: Plate 1. - Vicinity Map
Plate 2. - Site Plan
ACPWA Permits #W2008-0881 to W2008-0887
City Permits (Various)

Copies Submitted: (1) Addressee
(1) Mr. Mark Arniola, City of Oakland, Environmental Services Division
(1) Ms. Vicky Hamlin, Alameda County Public Works Agency, Water Resources Department

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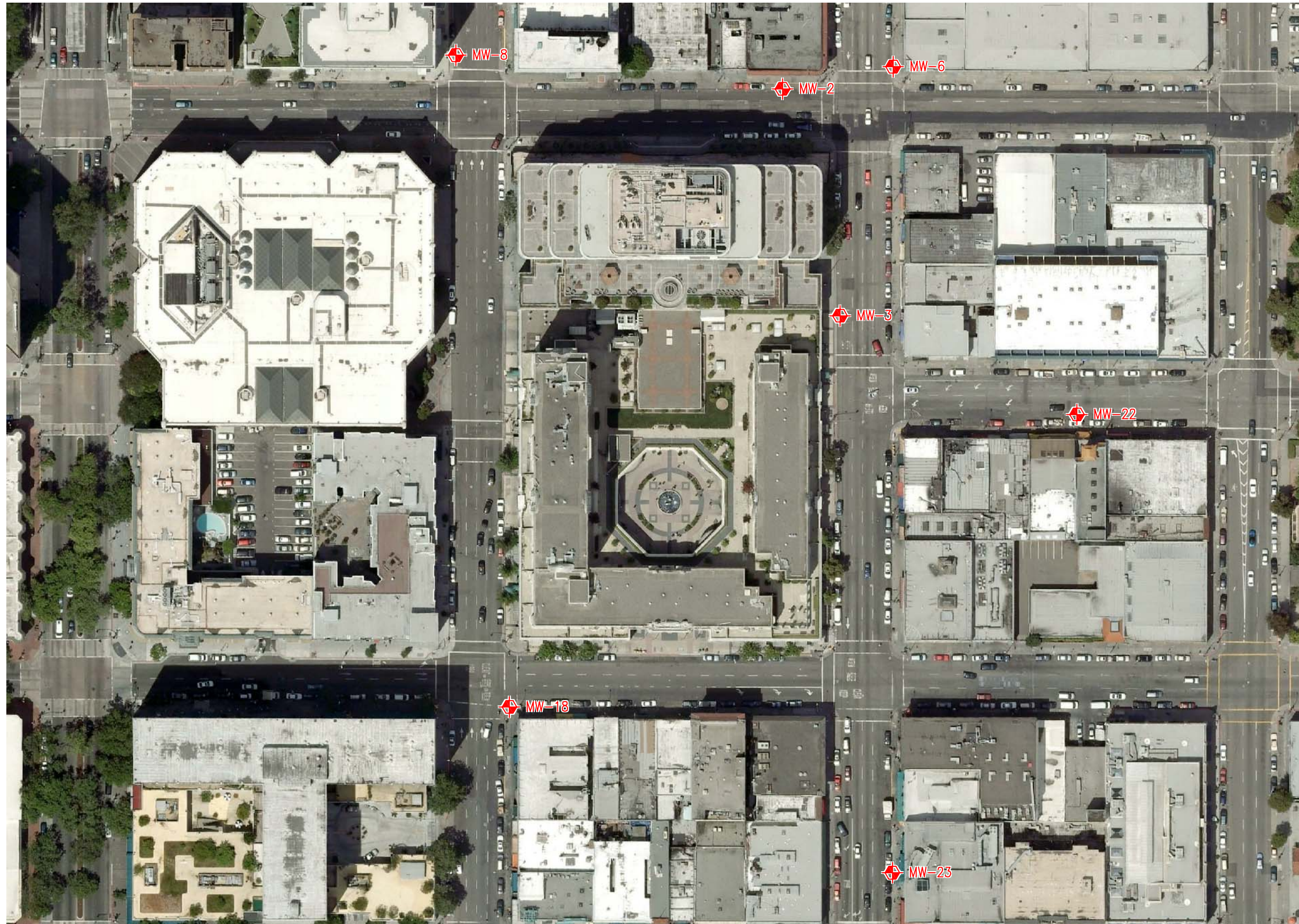


SOURCE: This aerial photo was obtained from Google Earth Pro.

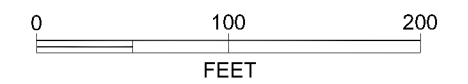


VICINITY MAP
 Renaissance Plaza Project
 Oakland, California

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LEGEND
MW-1 APPROXIMATE LOCATION OF MONITORING WELL



SITE PLAN
Renaissance Plaza Project
Oakland, California

BASE MAP SOURCE: This aerial photo was obtained from Google Earth Pro.

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 11/20/2008 By jamesy

Permit Numbers: W2008-0881 to W2008-0887
Permits Valid from 06/16/2009 to 06/18/2009

Application Id: 1227052729694	City of Project Site: Oakland
Site Location: Renaissance Plaza - Between. 9th and 11th St, Broadway and Webster, Oakland, CA 94612	Completion Date: 11/26/2008
Project Start Date: 11/24/2008	Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org	Extension End Date: 06/18/2009
Extension Start Date: 06/16/2009	Extended By: vickyh1
Extension Count: 3	

Applicant: FUGRO WEST - Glenn Young 1000 Broadway, Oakland, CA 94607	Phone: 510-267-0461
Property Owner: City of Oakland c/o Mark Arniola 250 F Ogawa Plaza, Oakland, CA 94612	Phone: 510-238-7371
Client: ** same as Property Owner **	

Receipt Number: WR2008-0422	Total Due: \$2415.00	
Payer Name : Fugro West	Total Amount Paid: \$2415.00	
	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Well Destruction-Monitoring - 7 Wells

Driller: RSI Drilling - Lic #: 802334 - Method: other

Work Total: \$2415.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2008-0881	11/20/2008	02/22/2009	MW-19	0.00 in.	4.00 in.	0.00 ft	0.00 ft			
W2008-0882	11/20/2008	02/22/2009	MW-2	0.00 in.	4.00 in.	0.00 ft	0.00 ft			
W2008-0883	11/20/2008	02/22/2009	MW-22	0.00 in.	4.00 in.	0.00 ft	0.00 ft			
W2008-0884	11/20/2008	02/22/2009	MW-23	0.00 in.	4.00 in.	0.00 ft	0.00 ft			
W2008-0885	11/20/2008	02/22/2009	MW-3	0.00 in.	4.00 in.	0.00 ft	0.00 ft			
W2008-0886	11/20/2008	02/22/2009	MW-6	0.00 in.	4.00 in.	0.00 ft	0.00 ft			
W2008-0887	11/20/2008	02/22/2009	MW-8	0.00 in.	4.00 in.	0.00 ft	0.00 ft			

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the

Alameda County Public Works Agency - Water Resources Well Permit

permits and requirements have been approved or obtained.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

7. Remove the Christy box or similar structure. Destroy well by overdrilling & Tremie Grouting with Cement. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

8. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

10. All wells located on City streets shall be drilled out and follow condition #7.

All wells not located on City streets can be destroyed following condition #8.

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days when expired.

Appl# OB090425 Job Site 343 10TH ST Parcel# 002 -0061-012-00

Block parking area at various locals at 75' per occurrence. No blocking side walk or traffic lane allowed. Permit Issued 06/17/09

Nbr of days: 1 Linear feet: 525
Effective: 06/18/09 Expiration: 06/18/09

SHORT TERM NON-METERED

	Applcmt	Phone#	Lic#	--License Classes--
Owner	REDEVELOPMENT AGENCY OF THE CI			
Contractor	RESONANTSONIC	(530) 668-2424	802334	C57 A
Arch/Engr				
Agent	FUGRO/RUSSELL CARTER	X (510) 267-4469		
Applic Addr				

\$467.60 TOTAL FEES PAID AT FILING	\$.00 TOTAL FEES PAID AT ISSUANCE
\$66.00 Applic	\$341.50 Permit
\$.00 Process	\$38.71 Rec Mgmt
\$.00 Gen Plan	\$.00 Invstg
\$.00 Other	\$21.39 Tech Enh

JOB SITE

TCP needs to be approved by Transportation Services every 30 days or whenever deviated from the previously approved plan.

ADDRESS:

Applicant: [Signature] 6/17/09

Issued by: [Signature]

DIST:

CITY OF OAKLAND

PAID
6/17/09 [Signature]

CITY OF OAKLAND • Community and Economic Development Agency

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days when expired.

Appl# OB090411

Job Site 343 10TH ST

JOB SITE

Parcel# 002 -0061-012-00

permit to block parking area at various locals at 75' per
occurrence no blocking side walk or traffic lane Permit Issued 06/09/09

SEE TRAFFIC PLAN

Nbr of days: 2
Effective: 06/16/09

Linear feet: 525
Expiration: 06/17/09

SHORT TERM NON-METERED

	Applcmt	Phone#	Lic#	--License Classes--
Owner REDEVELOPMENT AGENCY OF THE CI				
Contractor RESONANTSONIC	X	(530) 668-2424	802334	C57 A
Arch/Engr				
Agent				
Applic Addr 220 N EAST ST., WOODLAND CA, 95776				

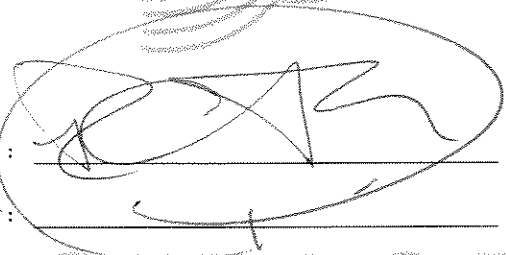
\$858.91 TOTAL FEES PAID AT FILING

\$66.00	Applic	\$682.50	Permit
\$.00	Process	\$71.11	Rec Mgmt
\$.00	Gen Plan	\$.00	Invstg
\$.00	Other	\$39.30	Tech Enh

\$.00 TOTAL FEES PAID AT ISSUANCE

TCP needs to be approved by Transportation Services every 30 days or whenever deviated from the previously approved plan.

ADDRESS

Applicant: 

6.9.09

Issued by: 

6.9.09

DIST:

CITY OF OAKLAND

Date: 06/09/09 Amt Paid: \$858.91
By: DLR Register R02 Receipt# 126559

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days when expired.

Appl# X0900489 Job Site 1000 FRANKLIN ST Parcel# 002 -0059-009-03

Descr permit to pull old monitoring wells with driller licence Permit Issued 04/29/09
no excavation without class A or C42 licence

JOB SITE

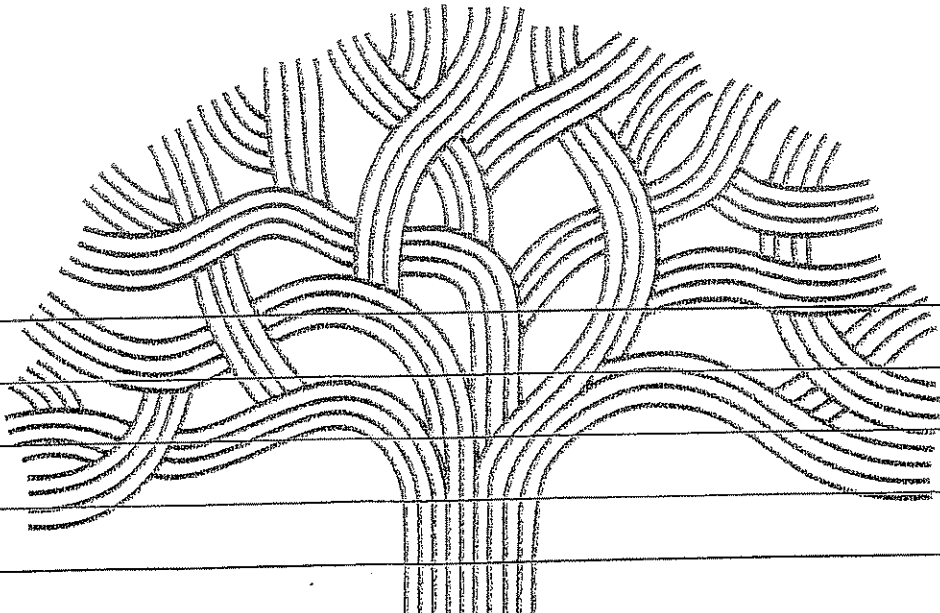
Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#:
Util Fund #:

Owner REDEVELOPMENT AGENCY OF THE CI Applcmt Phone# Lic# --License Classes--
Contractor RESONANTSONIC X (530) 668-2424 802334 C57 A
Arch/Engr
Agent
Applic Addr 220 N EAST ST., WOODLAND CA, 95776

\$419.99 TOTAL FEES PAID AT ISSUANCE
\$66.00 Applic \$300.00 Permit
\$.00 Process \$34.77 Rec Mgmt
\$.00 Gen Plan \$.00 Invstg
\$.00 Other \$19.22 Tech Enh

Permit Issued By [Signature] Date: 4/29/09
Finaled By _____ Date: _____



ADDRESS

DIST.

CITY OF OAKLAND

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days when expired.

Appl# X0900491

Job Site 375 11TH ST

Parcel# 002 -0059-003-01

Descr permit to pull old monitoring wells with driller licence
no excavation without class A or C42 licence

Permit Issued 04/29/09

Work Type EXCAVATION-PRIVATE P

USA #

Util Co. Job #
Util Fund #:

Acctg#:

Applicant Phone# Lic# --License Classes--

Owner REDEVELOPMENT AGENCY OF THE CI

Contractor RESONANTSONIC

X (530)668-2424 802334 C57 A

Arch/Engr

Agent

Applic Addr 220 N EAST ST., WOODLAND CA, 95776

\$419.99 TOTAL FEES PAID AT ISSUANCE

\$66.00 Applic	\$300.00 Permit
\$.00 Process	\$34.77 Rec Mgmt
\$.00 Gen Plan	\$.00 Invstg
\$.00 Other	\$19.22 Tech Enh

Permit Issued By

Date: 4-29-09

Finald By

Date:

ADDRESS

DIST:

CITY OF OAKLAND