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ENVIRONMENTAL & ENGINEERING SERVICES

[www.aeiconsultants.com](http://www.aeiconsultants.com)

December 3, 2009

Jerry Wickham  
Environmental Health Services – Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**RECEIVED**

10:08 am, Dec 04, 2009

Alameda County  
Environmental Health

**Subject: Well Decommissioning**  
796 66<sup>th</sup> Avenue  
Oakland, California  
Leak Case RO2449

Dear Mr. Wickham:

Per your letter of November 9, 2009 all monitoring wells at the above referenced site have been decommissioned. AEI obtained well destruction permits W2009-1007 through W2009-1012 from the Alameda County Public Works Agency (ACWPA).

On November 24 and 25, 2009, monitoring wells, MW-1 through MW-5 and ozone sparge wells S-1 through S-12 were decommissioned by Exploration Geoservices, California, C-57 License # 484288.

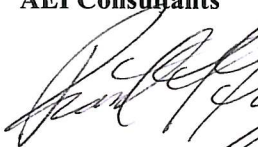
The groundwater monitoring wells were destroyed by removing the well boxes and filling them with neat cement grout using a tremie pipe. When lost circulation was encountered a bentonite chip was added to the well to form a bentonite plug across the permeable zone which was taking the fluid. The permeable zone appeared to be a rubble zone at the base of the fill. The wells were then filled to 6-inches below the surface with grout and finished to match the adjacent grade with quickset concrete.

The Ozone sparge wells were destroyed by removing the well boxes and drilling out the casing with 4" solid stem augers with a guide bit to the bottom of the seal. The 4-inch boring was then drilled out with nominal 8-inch hollowstem augers and sealed to the surface with neat cement grout. When lost circulation was encountered a bentonite chip was added to the well to form a bentonite plug across the permeable zone which was taking the fluid. The wells were then filled to 6-inches below the surface with grout and finished to match the adjacent grade with quickset concrete.

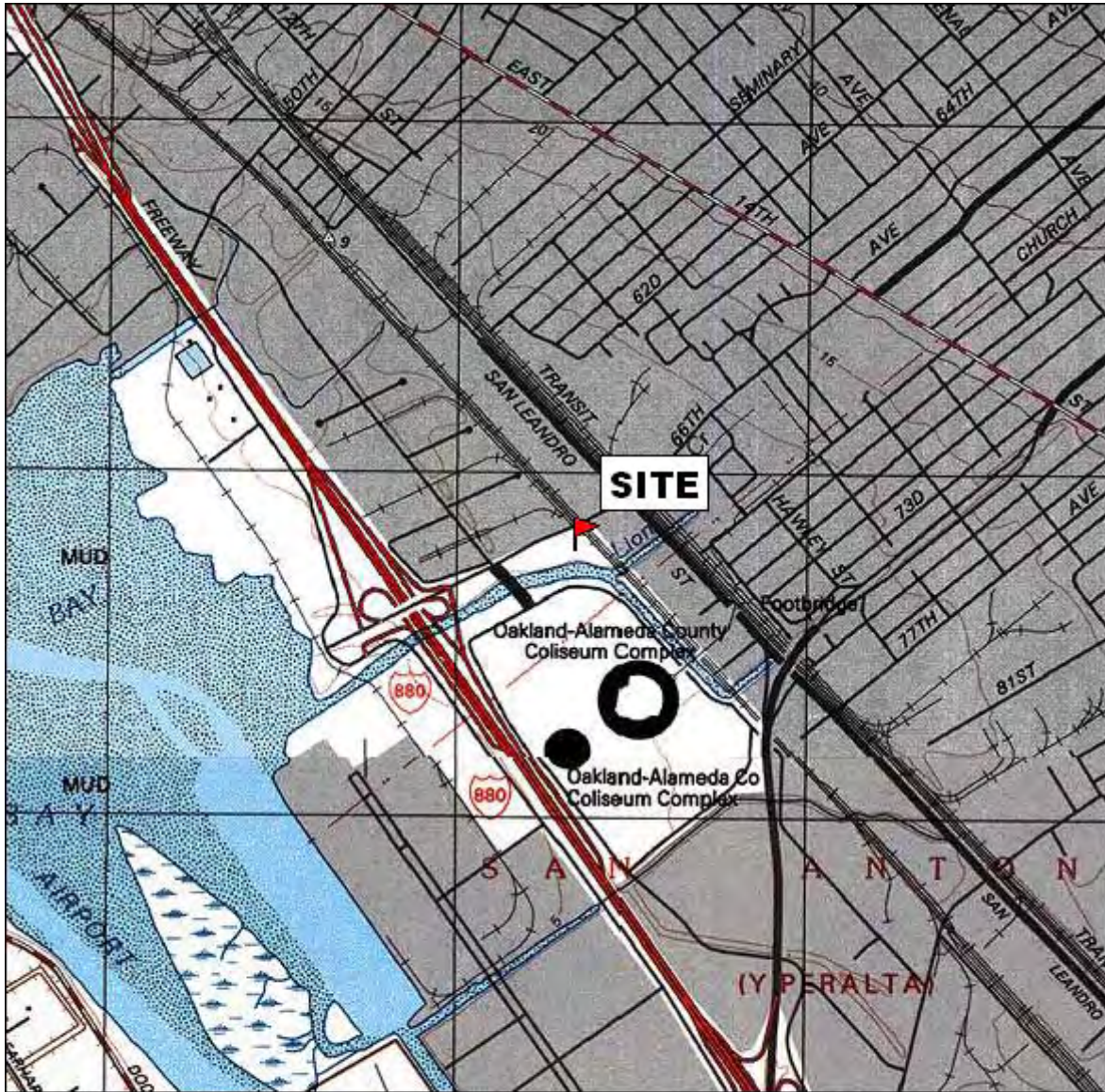
The decommissioning of the wells as carried out under the supervision of James Yoo of the ACWPA. The signed DWR-188 forms will be filed with ACWPA when received from the driller.

If you have any questions I can be reached at 925-746-6000, extension 122.

Sincerely,  
AEI Consultants

  
Robert F. Flory, P.G.



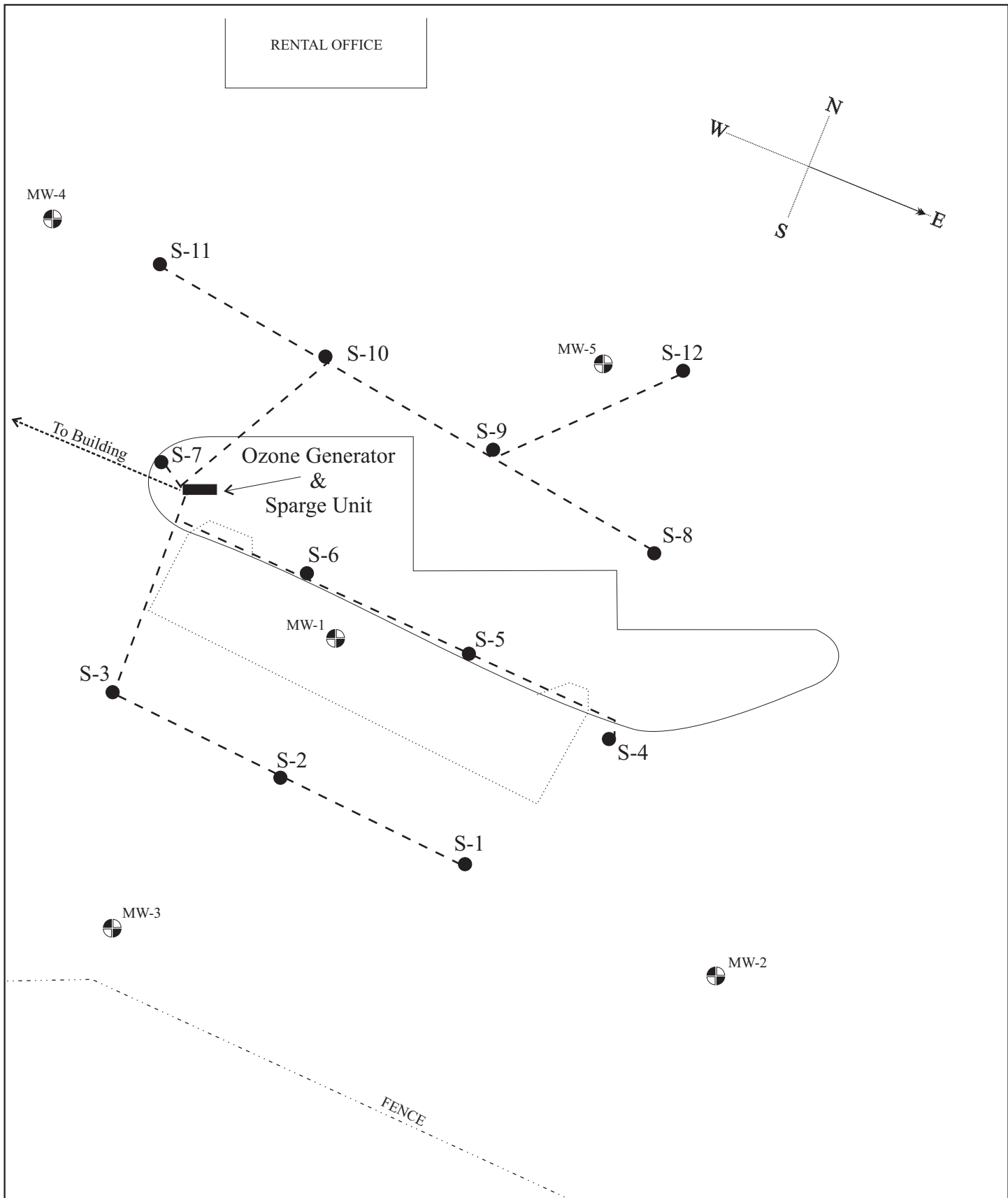


TN  $\star$  /MN  
15°





0 5 1 MILE  
0 1000 FEET 0 500 1000 METERS

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<b>AEI CONSULTANTS</b>	
<b>SITE LOCATION MAP</b>	
796 66 <sup>th</sup> AVENUE OAKLAND, CALIFORNIA	<b>FIGURE 1</b> PROJECT NO. 278361



**LEGEND**

-  Monitoring Wells
-  Sparge Well Points
-  Sparge Lines and Conduit
-  Electrical Conduit



0' 10' 20'  
SCALE: 1 in = 20 ft

**AEI Consultants**

2500 CAMINO DIABLO, WALNUT CREEK, CA

**SITE PLAN**

796 66TH AVENUE  
OAKLAND, CALIFORNIA

**FIGURE 2**  
AEI PROJECT NO 278361

# 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: 11/10/2009 By jamesy**

**Permit Numbers: W2009-1007 to W2009-1012**  
**Permits Valid from 11/24/2009 to 11/25/2009**

**Application Id:** 1257795778888  
**Site Location:** 796 66th Ave.  
**Project Start Date:** 11/24/2009  
**Assigned Inspector:** Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

**City of Project Site:**Oakland

**Completion Date:**11/25/2009

**Applicant:** AEI Consultants - Robert Flory  
2500 Camino Diablo, Walnut creek, CA 94597  
**Property Owner:** Cory Cruise America, Inc  
11 West Hampton Ave., Mesa, AZ 85210  
**Client:** Cory Cruise America, Inc  
11 West Hampton Ave., Mesa, AZ 85210  
**Contact:** Robert Flory

**Phone:** 925-746-6000

**Phone:** 480-464-7395

**Phone:** 480-464-7395

**Phone:** 925-746-6000 x122  
**Cell:** 925-457-7517

**Total Due:** \$2250.00  
**Total Amount Paid:** \$2250.00  
**Payer Name : Mr Peter J McIntyre** Paid By: VISA **PAID IN FULL**

**Works Requesting Permits:**

Well Destruction-Monitoring - 5 Wells

Driller: Exploration Geoservices - Lic #: 484288 - Method: press

**Work Total: \$1985.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2009-1007	11/10/2009	02/22/2010	MW-1	8.25 in.	2.00 in.	3.00 ft	14.00 ft			
W2009-1008	11/10/2009	02/22/2010	MW-2	8.25 in.	2.00 in.	3.00 ft	14.00 ft			
W2009-1009	11/10/2009	02/22/2010	MW-3	8.25 in.	2.00 in.	3.00 ft	14.00 ft			
W2009-1010	11/10/2009	02/22/2010	MW-4	8.25 in.	2.00 in.	3.00 ft	14.00 ft			
W2009-1011	11/10/2009	02/22/2010	MW-5	8.25 in.	2.00 in.	3.00 ft	14.00 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 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

## Alameda County Public Works Agency - Water Resources Well Permit

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. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.
6. 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.
7. 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.
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.

Remediation Well Destruction-Injection - 12 Wells

Driller: Exploration Geoservices - Lic #: 484288 - Method: over

**Work Total: \$265.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2009-1012	11/10/2009	02/22/2010	S-1	8.50 in.	0.75 in.	14.00 ft	18.00 ft			
W2009-1012	11/10/2009	02/22/2010	S-10	8.50 in.	0.75 in.	14.00 ft	18.00 ft			
W2009-1012	11/10/2009	02/22/2010	S-11	8.50 in.	0.75 in.	14.00 ft	17.00 ft			
W2009-1012	11/10/2009	02/22/2010	S-12	8.50 in.	0.75 in.	14.00 ft	15.00 ft			
W2009-1012	11/10/2009	02/22/2010	S-2	8.50 in.	0.75 in.	14.00 ft	18.00 ft			
W2009-1012	11/10/2009	02/22/2010	S-3	8.50 in.	0.75 in.	14.00 ft	18.50 ft			

## Alameda County Public Works Agency - Water Resources Well Permit

1012

W2009-1012	11/10/2009	02/22/2010	S-4	8.50 in.	0.75 in.	14.00 ft	18.00 ft
W2009-1012	11/10/2009	02/22/2010	S-5	8.50 in.	0.75 in.	14.00 ft	18.00 ft
W2009-1012	11/10/2009	02/22/2010	S-6	8.50 in.	0.75 in.	14.00 ft	18.00 ft
W2009-1012	11/10/2009	02/22/2010	S-7	8.50 in.	0.75 in.	14.00 ft	18.00 ft
W2009-1012	11/10/2009	02/22/2010	S-8	8.50 in.	0.75 in.	14.00 ft	15.00 ft
W2009-1012	11/10/2009	02/22/2010	S-9	8.50 in.	0.75 in.	14.00 ft	16.50 ft

### Specific Work Permit Conditions

1. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well 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.
  2. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
  3. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to [vickyh@acpwa.org](mailto: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.
  4. Remove the Christy box or similar structure. Overdrill or clean out to original depth. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.
  5. 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.
  6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
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