

Clark & Witham, Increasion

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3499 Edison Way, Fremont, CA. 94538

Consulting Engineering Geologists

March 14, 1995 CHO002-C

Mr. Martin Petersen Citation Homes Central 404 Saratoga Avenue, Suite 100 Santa Clara, California 95050 what about mo-1 - was this destringed before, or is it sold in use? Destroyed

Subject: Letter Report on Destruction of Ground-Water Monitoring Wells at Former

Okada Property, 16109 Ashland Avenue, San Lorenzo, California.

Mr. Petersen:

This letter report documents the destruction of ground-water monitoring wells MW-2 and MW-3 at the former Okada Property, 16109 Ashland Avenue, San Lorenzo, California. The site is located west of Ashland Avenue near East 14th Street in San Lorenzo, as shown in Plate 1. Wells MW-2 and MW-3 were installed in the northeastern portion of the property at the locations shown on Plate 2. The wells were 2 inches in diameter; MW-2 was installed to a depth of 13 feet below grade with a perforated casing interval of 7 feet and MW-3 was installed to a depth of 16 feet below grade with a perforated casing interval of 10 feet. As-built diagrams and exploration drill hole logs for both former wells are attached. Clark and Witham, Inc. submitted a Well Destruction Application on January 10, 1995 to the Zone 7 Water Agency, and was issued a permit authorizing the well destructions. A copy of the permit is attached.

A representative of Clark & Witham, Inc. observed the destruction of MW-2 and MW-3 on February 24, 1995. Exploration Geoservices, Inc. of San Jose, California performed the well destructions by pressure grouting with a slurry of Type I/II Portland cement mixed with 3 to 5 percent by weight bentonite powder and 8 gallons of water per 94-pound bag of cement. The estimated volume of grout required to completely fill the well casing and annular space was approximately 8.6 gallons for MW-2 and 9.1 gallons for MW-3. These volumes were calculated using total well depths, the perforated screen intervals, and the borehole diameters. Filter pack void space was assumed to be 25 percent.

The grouting procedure involved placing air-tight caps on the wellheads and attaching a grout hose to the caps. A grout mixer was used to mix and pump grout into the wells. Grout was pumped from the hopper of the pumping unit in one continuous operation through the well cap/hose assembly at a pressure of 80 pounds per square inch (psi). Pumping continued at the constant 80 psi pressure until the wells were filled completely. The procedure prevented escape of water from the top of the wells and forced water out

of the wells and into the formation. Approximately 16 gallons of grout were pumped into MW-2, and 30 gallons of grout were pumped into MW-3.

The aboveground well protective casings of both wells were removed and the well casings were cut 1 foot below grade. The shallow holes above the casings were backfilled with grout to the ground surface, the grout was allowed to set, and the well locations were returned to their original conditions.

Clark and Witham, Inc. prepared and submitted State of California Well Completion Reports for the well destructions. Attached are copies of these forms. Please call if you have any questions.

Sincerely,

Clark & Witham, Inc.

After Recognith

Soly C. Withen

Robert Magginetti Staff Geologist

Rodger C. Witham Project Manager

Attachments: Plate 1, Site Vicinity Map

Plate 2, Site Plan

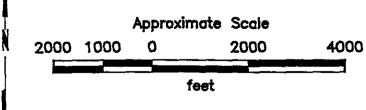
As-Built Well Diagrams
Exploration Drill Hole Logs
Drilling Permit Application

State of California Well Completion Reports

cc: Eva Chu, Alameda County Health Care Services Agency



Source: U.S. Geological Survey
7.5—Minute Quadrangle
Hayward/San Leandro, California
Photorevised 1980



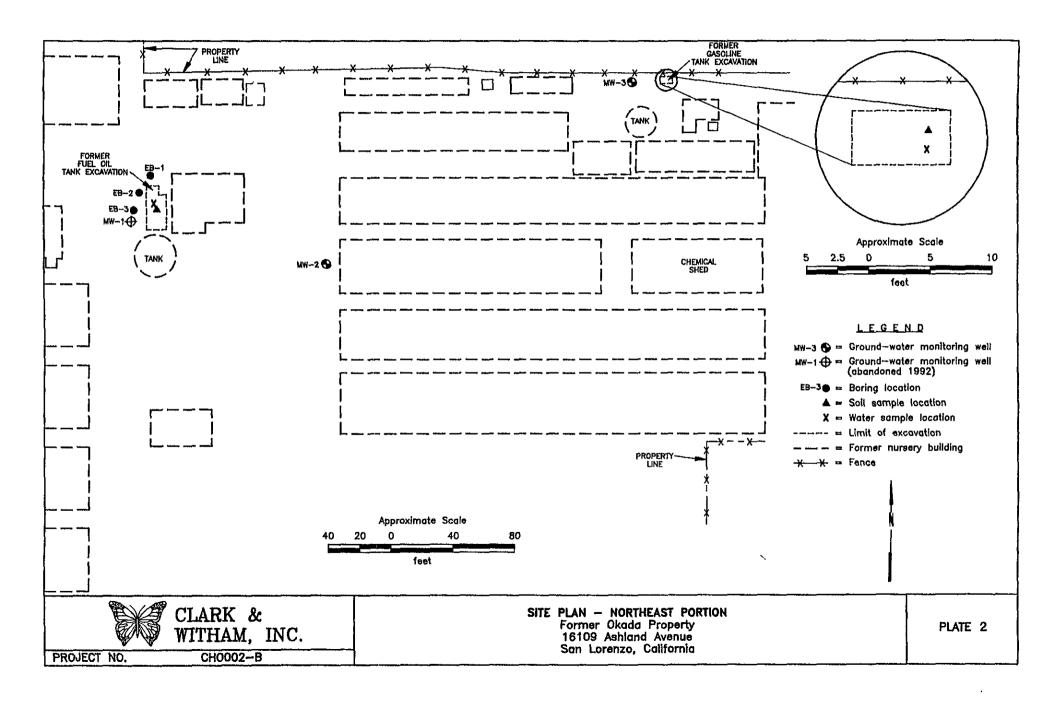


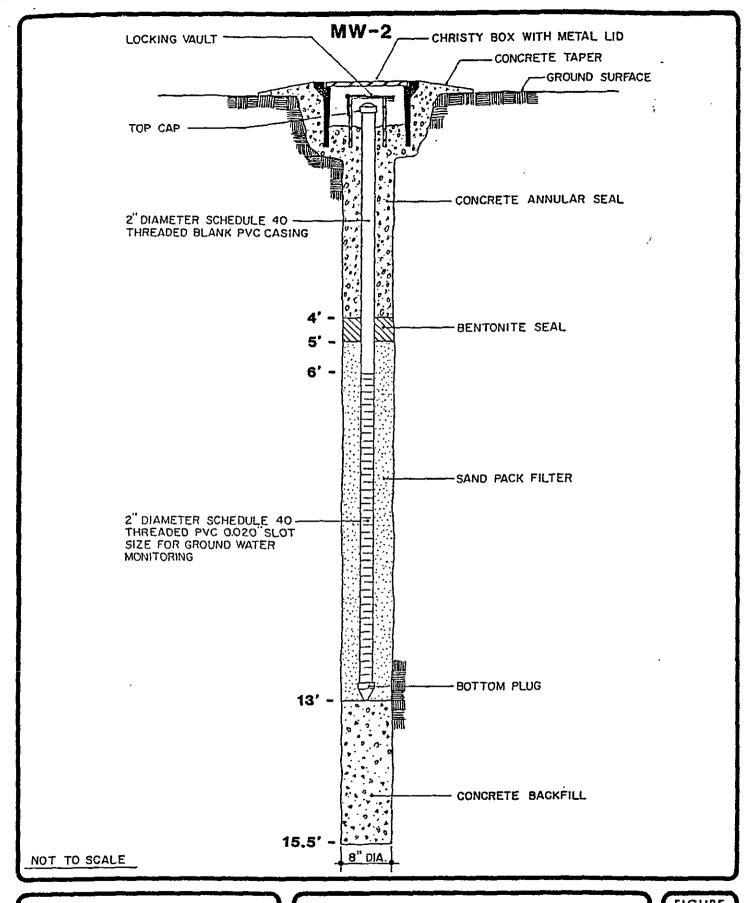
CLARK & WITHAM, INC.

PROJECT NO. CHO002-C

SITE VICINITY MAP Former Okada Property 16109 Ashland Avenue San Lorenzo, California

PLATE 1







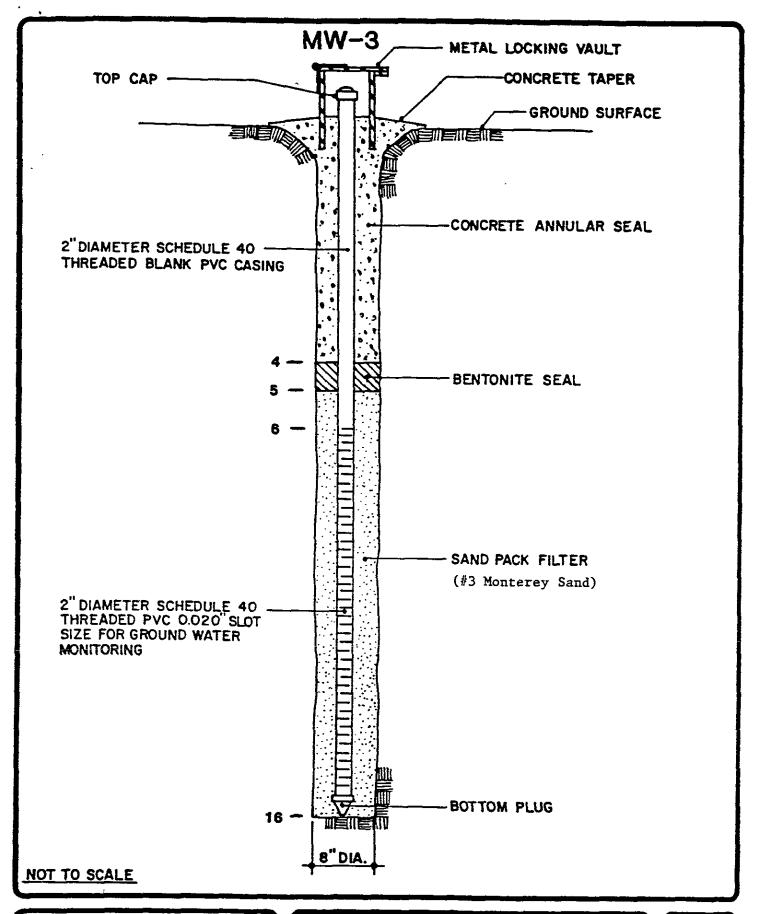
AS-BUILT WELL DIAGRAM

OKADA PROPERTY SAN LEANDRO, CALIFORNIA FIGURE

2

PROJECT

4486





AS-BUILT MONITORING WELL DIAGRAM

CITATION - OKADA SAN LEANDRO, CALIFORNIA FIGURE

2
PROJECT
4486/1

EXPLORATION DRILL HOLE LOG HOLE No. MW-2					-2								
PROJECT OKADA PROPERTY					DAT	E 3-	28-8	9	LOC	GGED	BY	BMK	
DRILL RIG Hollow Stem; CMR 75 HOLE DIA. 8" SAMPLER X = Modified Calif.													
GROUNDWATER DEPTH INITIAL 7'	FINA	5.	5'					HOLE	ELEV				
DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	POCKET PEN (ISI)	TORVANE (ISI)		LIQUID LIMIT	WATER CONTENT	PLASTIC LIMIT	DAY DENSITY (pcl)	FAILURE STRAIN (%)	UNCONFINED SHEAR STRENGTH (pst)
SANDY CLAY; black, dry, stiff; odorless.	CI	1 -			-								
		2 -] ! !						
		3 -											
		4 -											
CLAY W/SAND; brown, moist, firm;	ČI.						ļ 						!
odorless.		6.	X	6			Ī			i !			
SILTY SAND; tan, wet, soft, fine grained; odorless.	SM	7 .					立						
		_ 8 _					_						
SANDY LEAN CLAY; brown, wet, soft,	CL	9 -											
odorless.		_10 _	X										!
		11_		5									
		12_											!
		13 -			•								!
FAT CLAY; black-dark gray, moist,	СĦ	14.											
stiff; odorless.	Cfi	15 -	X	9									
BOTTOM OF HOLE @ 15.5'		16_		٦									
·		17_											
		18_											
		19_				i							
	<u></u>	20											
PROJECT 4486		TERR	ΑΤΙ	ECH						P	age	l of	1

EXPLORATION DRILL HOLE LOG HOLE No. MIN-3							-3							
PROJECT CITATION - OKADA				DATE 8/17/89				<u> </u>						
DRILL RIG HEW - Hollow Stem HOLE DIA. 8"					SAMPLER X = Modified Calif.									
GROUNDWATER DEPTH INITIAL FINAL 8 1/2'						HOLE ELEV.								
DESCRIPTION	SOIL TYPE	ОЕРТН	SAMPLE	BLOWS PER FOOT	POCKET PEN (ISI)	TORVANE (Isf)		רומחום רואונ	WATER CONTENT	PLASTIC LIMIT	DRY DENSITY (pc!)	FAILURE STRAIN (%)	UNCONFINED SHEAR STRENGTH (ps!)	
LEAN CLAY W/SAND AND GRAVEL(FILL?); brown, dry, stiff; odorless. FAT CLAY(FILL?); black, moist, firm; trace fine sand; slight odor.	СH	2 - 3 - 4 -												
becomes greenish, with glass shards; very moist; stronger odor (possible fuel oil) SILTY SAND; gray, wet, loose; fine to medium grained. (driller reports water between 6' and 9') FAT CLAY; gray - dark gray; moist,	SM CH	- 5	X	4										
stiff; slight odor.		_1011121314 _	X	12						A CONTRACTOR OF THE PROPERTY O				
becomes light gray; still slight odor BOTTOM OF HOLE @ 16 1/2 FEET Monitoring Well Constructed		_15 _ 16 _ 17 _	X	11										
		_19 . 20												
		_ 	. —	- 							_ _		_ 	

4486/1

PROJECT



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

Cody C. Withen Date 1/10/95

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600 FAX (510) 462-3914

91992

DRILLING PERMIT APPLICATION

Address 3499 Edison Way City Fremont. California 2p 94538 TYPE OF PROJECT Well Construction Cathodic Protection Water Supply Monitoring Well Destruction Cathodic Protection Well Contamination Well Destruction Cathodic Protection Well Destruction PROPOSED WATER SUPPLY WELL USE Domestic Industria Other Irrigation PRILLING METHOD: Mud Rotary Air Rotary Cable Other DRILLIER'S LICENSE NO. C - 57 484288 WELL PROJECTS Drill Hole Diameter Surface Seal Depth At t. Number 2 GEOTECHNICAL PROJECTS Number of Borings Hole Diameter In. Depth t. ESTIMATED STARTING DATE January 25, 1995 ESTIMATED COMPLETION DATE Lanuary 25, 1995 ESTIMATED COMPLETION DATE Zone 7 office five days prior to proposed starting date. Zubent to Zone 7 within 60 days after completion of permitted work the completed syntem to Water 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. 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Weater 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. 4. WATER WELLS, INCLUDING PIEZOMETERS 1. Minimum surface seal thickness is two inches of cement grou placed by tremie. 2. Minimum seal depth is 50 feet for municipal and industrial well 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 material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings. E. WELL DESTRUCTION. See attached.	FOR APPLICANT TO COMPLETE	FOR OFFICE USE
Name Citation Homes Central Address 40.4 Saratoga Ave. VSFPIte 100 (20) Santa Clara, CA Zp 95050 (40) 8) 985-6000 APPLICANT Name Clark & Witham, Inc. Fax (510) 659-6344 Address 34.99 Edison Way Voice (510)659-1805 City Fremont, California Zp 94538 TYPE OF PROJECT Well Construction General Controlled Protection General Water Supply Contamination Well Destruction Will Destruction Monitoring Well Contamination Well Destruction Will Comment of Municipal Irrigation Cabrolle Frotection General Cable Other Other Surface Seal Depth 4 t. Number 2 WELL PROJECTS WELL PROJECTS WELL PROJECTS Number of Borings	TOTOS MONTANIA MYCHAC	
Address 3499 Edison Way Voice (510) 659-6344 Address 3499 Edison Way Voice (510) 659-1805 City Fremont California Zp 94538 TYPE OF PROJECT Well Construction General Contamination Water Supply Construction Well Destruction Will Destruction W	Name <u>Citation Homes Central</u> Address4 <u>04 Saratoga Ave., Vsteite 100</u> City <u>Santa Clara, CA</u> Zip <u>95050</u> (408) 985-6000	
WELL PROJECTS Drill Hole Diameter 8 in. Maximum Casing Diameter 2 in. Depth 13/16 ft. Surface Seal Depth 4 ft. Number 2 GEOTECHNICAL PROJECTS Number of Borings Maximum Hole Diameter in. Depth ft. ESTIMATED STARTING DATE January 25, 1995 ESTIMATED COMPLETION DATE January 25, 1995 I hereby agree to comply with all requirements of this permit and Alameda	Address 3499 Edison Way Voice (510) 659-6344 City Frement, California Zip 94538 TYPE OF PROJECT Well Construction General Contamination Water Supply Contamination Monitoring Well Destruction XX PROPOSED WATER SUPPLY WELL USE Domestic Industrial Other Municipal Irrigation DRILLING METHOD: Mud Rotary Air Rotary Auger Cable Other	 A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 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. Permit is void if project not begun within 90 days of approval date. WATER WELLS, INCLUDING PIEZOMETERS Minimum surface seal thickness is two inches of cement grout placed by tremie. Minimum seal depth is 50 feet for municipal and industrial well 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. 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.
ESTIMATED COMPLETION DATE January 25, 1995 Approved Myman Hong Date 13 Jan 9 I hereby agree to comply with all requirements of this permit and Alameda	Drill Hole Diameter 8 in. Maximum Casing Diameter 2 in. Depth 13/16 ft. Surface Seal Depth 4 ft. Number 2 GEOTECHNICAL PROJECTS Number of Borings Hole Diameter in. Depth ft.	tremie.
	ESTIMATED COMPLETION DATE <u>January 25, 1</u> 995 I hereby agree to comply with all requirements of this permit and Alameda	Approved Wyman Hong Date 13 Jan 9

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED