



Subsurface Consultants, Inc.

ENVIRONMENTAL
PROTECTION

98 APR 28 AM 8:37

R. William Rudolph, P.E.
President

April 24, 1998
SCI 1039.002

Ms. Pamela Evans
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Well Abandonment
718 San Pablo Avenue
ACHCSA Site #1352
Albany, California 94706

Dear Ms. Evans:

This letter describes the environmental services performed by Subsurface Consultants, Inc. (SCI) during the abandonment of three groundwater monitoring wells at 718 San Pablo Avenue in Albany. In a letter dated January 20, 1998, the Alameda County Health Care Services Agency (ACHCSA) requested that the wells be properly abandoned prior to their issuing a Remedial Action Completion Certificate for the site. The location of the site is shown on the Site Plan, Plate 1. Boring logs for the three monitoring wells MW-1, MW-2, and MW-3 are attached.

WELL ABANDONMENT

Prior to proceeding with well abandonment, SCI obtained a permit from the Alameda County Public Works Department (ACPWD). A copy of the approved permit is attached. The wells were abandoned on March 26, 1998, per State of California Department of Water Resources and ACPWD guidelines.

Monitoring wells MW-1, MW-2, and MW-3 were abandoned in-place by pressure grouting. For wells MW-1 and MW-3, a neat cement grout mixture was tremied into the well casing. Because MW-2 was located within an interior showroom, the cement grout was hand poured into the well to maintain a tidy appearance. Following grout placement, pressure was applied to the casing to force the grout into the surrounding sand pack. After pressure grouting well MW-1, the upper 5 feet of well materials were removed by overdrilling. Due to access restrictions, wells MW-2 and MW-3 were not overdrilled; however, the upper 2 feet of materials were removed and the resulting hole capped with neat cement grout.

Ms. Pamela Evans
Alameda County Health Care Services Agency
April 24, 1998
SCI 1039.002
Page 2

SCI has completed the well abandonment activities described. We request that the ACHCSA issue a "Remedial Action Completion Certificate" indicating that the case files for this site will be closed and that no further action is necessary. If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.



Meg Mendoza
Project Engineer



Samuel C. Won
Civil Engineer #57023 (expires 6/30/01)





MM:JLR:TJM:ly 1039.002\wellabn.doc

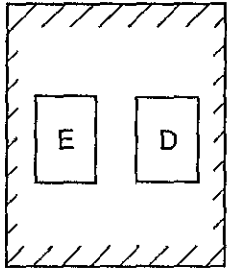
Attachments: Site Plan, Plate 1
Boring Logs for MW-1, MW-2 and MW-3
Well Abandonment Permit #98WR115

cc: Mr. Don Strough
Concord/Honda Pontiac
1300 Concord Avenue
Concord, California 94520

Mr. Jonathan Redding
Fitzgerald, Abbott & Beardsley LLP
1221 Broadway, 21st Floor
Oakland, California 94612

Mr. Alvin Kan
Alameda County Public Works Agency
Water Resources Section
951 Turner Court, Suite 300
Hayward, California 94545-2651

-  MONITORING WELL BY OTHERS
-  APPROXIMATE LIMITS OF TANK EXCAVATION
-  FORMER UNDERGROUND STORAGE TANK LOCATION
-  STRUCTURE

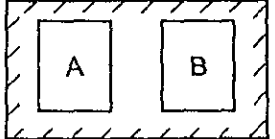


MW-2

ALBANY FORD DEALERSHIP



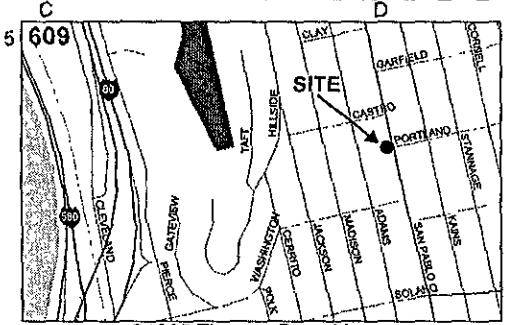
MW-1



MW-3



VICINITY MAP

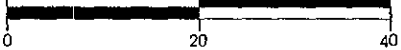


©1995 Thomas Bros. Maps

SIDEWALK

SAN PABLO AVENUE

APPROXIMATE SCALE (feet)



SITE PLAN

718 SAN PABLO AVENUE
ALBANY, CALIFORNIA

PLATE

1



Subsurface Consultants, Inc.
Geotechnical & Environmental Engineers

JOB NUMBER
1039.002

DATE
4/21/98

APPROVED

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Well Construction Graphics	Depth Feet	Well Construction Details
0	Ground Surface		Asphalt driveway and base rock				0	T.O.C. Elev. 99.12
5	7 12 22	X	Gravelly Clayey SILT Dark brown; hard; damp; 20% clay, 50% silt, 10% fine sand, 20% gravel; medium to high plasticity; low estimated hydraulic conductivity. No hydrocarbon odor.	< 7			5	Locking well-plug beneath traffic-rated vault
10	8 17 22	X					10	
15	6 9 16	X	Sandy SILT Rust brown; very stiff; moist to wet; 10% clay, 65% silt, 20% sand, 5% gravel; low to medium plasticity; low estimated hydraulic conductivity. No hydrocarbon odor.				15	
20		X	SILT Brown with grey mottling; wet; 5% clay, 85% silt, 10% sand; low to medium plasticity; low to moderate estimated hydraulic conductivity. No hydrocarbon odor.				20	Well bottom
25							25	
30							30	

Driller <u>Soils Exploration</u>	Development Yield <u>N/A</u>	Bentonite Seal <u>3.5 to 4.5 ft</u>
Logged By <u>N. Scott MacLeod</u>	Well Casing <u>2</u> Dia. <u>0</u> to <u>5</u>	Sand Pack <u>Monterey sand</u>
Drilling Started <u>5/6/94</u>	Casing Type <u>Schedule 40 PVC</u>	Sand Pack Type <u>#2/16</u>
Drilling Completed <u>5/6/94</u>	Well Screen <u>2</u> Dia. <u>5</u> to <u>20</u>	Static Water Level <u>9.50</u> ft Depth
Construction Completed <u>5/6/94</u>	Screen Type <u>Schedule 40 PVC</u>	Date <u>5/6/94</u>
Development Completed <u>5/27/94</u>	Slot Size <u>0.010-inch</u>	Notes: _____
Water Bearing Zones <u>N/A</u>	Drilling Mud <u>N/A</u>	
	Grout Type <u>Portland cement</u>	

DRILLING LOG

Albany Ford and Subaru

No: 10-102

Phase 4

Task 4

Boring ID 507A

Location 718 San Pablo Avenue, Albany

Surface Elev. --- ft.

Page 1 of 1

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Well Construction Graphics	Depth Feet	Well Construction Details
0			Concrete floor and base rock				0	T.O.C. Elev. 99.23
0			SILT Brown; hard; damp; <5% clay, 95% silt, 5% fine sand; low plasticity; low to moderate estimated hydraulic conductivity.				0	Locking well-plug beneath traffic-rated vault
5	15 33 42						5	
10	14 27 28						10	
15	8 11 19		Clayey SILT Tan with orange mottling; hard; wet; 15% clay, 80% silt, 5% sand; medium plasticity; low estimated hydraulic conductivity. No hydrocarbon odor.				15	No sample recovery at 15 ft depth
20	7 15 23						20	
25	17 29 36		Sandy SILT Brown; hard; wet; 50% silt, 30% sand, 20% gravel; no to low plasticity, moderate estimated hydraulic conductivity. No hydrocarbon odor.				25	Well bottom
30							30	

Driller Soils Exploration
 Logged By N. Scott MacLeod
 Drilling Started 5/3/94
 Drilling Completed 5/3/94
 Construction Completed 5/3/94
 Development Completed 5/27/94
 Water Bearing Zones N/A

Development Yield N/A
 Well Casing 2 Dia. 0 to 10
 Casing Type Schedule 40 PVC
 Well Screen 2 Dia. 10 to 25
 Screen Type Schedule 40 PVC
 Slot Size 0.010-inch
 Drilling Mud N/A
 Grout Type Portland cement

Bentonite Seal 7.5 to 9.5 ft
 Sand Pack Monterey sand
 Sand Pack Type #2/16
 Static Water Level 9.40 ft Depth
 Date 5/4/94
 Notes: _____

WELL 10102 7/12/94

Client: Albany Ford and Subaru

Location 718 Sa. ablo Avenue, Albany

Project No: 10-102

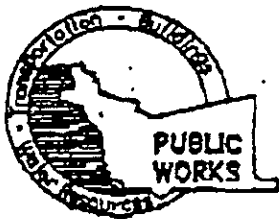
Phase 4

Task 4

Surface Elev. --- ft,

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Well Construction Graphics	Depth Feet	Well Construction Details
0	Ground Surface		Concrete floor and base rock				0	T.O.C. Elev. 98.46
5	Hand driven	✕	SILT Brown; moist; 5% clay, 90% silt, 5% fine sand, <5% gravel; no to low plasticity; moderate estimated hydraulic conductivity. No hydrocarbon odor.	<1			5	Locking well-plug beneath traffic-rated vault
10	Hand driven	✕		<1		10		
15	Hand driven	✕	Clayey SILT Brown; wet; 30% clay, 70% silt; medium to high plasticity; low estimated hydraulic conductivity. No hydrocarbon odor.				15	
20	Hand driven	✕	Gravelly to Sandy SILT Brown; wet; 5% clay, 60% silt, 20% sand, 15% gravel; no plasticity; moderate estimated hydraulic conductivity. No hydrocarbon odor.				20	
25							25	Well bottom
30							30	

Driller <u>Soils Exploration</u>	Development Yield <u>N/A</u>	Bentonite Seal <u>3.5 to 4.5 ft</u>
Logged By <u>N. Scott MacLeod</u>	Well Casing <u>2</u> Dia. <u>0</u> to <u>5</u>	Sand Pack <u>Monterey sand</u>
Drilling Started <u>5/4/94</u>	Casing Type <u>Schedule 40 PVC</u>	Sand Pack Type <u>#2/16</u>
Drilling Completed <u>5/4/94</u>	Well Screen <u>2</u> Dia. <u>5</u> to <u>20</u>	Static Water Level <u>9.50</u> ft Depth
Construction Completed <u>5/4/94</u>	Screen Type <u>Schedule 40 PVC</u>	Date <u>5/4/94</u>
Development Completed <u>5/27/94</u>	Slot Size <u>0.010-inch</u>	Notes: _____
Water Bearing Zones <u>N/A</u>	Drilling Mud <u>N/A</u>	
	Grout Type <u>Portland cement</u>	



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
 351 TURNER COURT, SUITE 300, RAYWARD, CA 94545-2651
 PHONE (510) 678-5575 ANDREAS GODFREY FAX (510) 678-5262
 (510) 678-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 718 San Pablo Ave
Albany, Calif.

California Coordinates Source _____ ft. Accuracy ± _____ ft.
 CEN _____ N. CEN _____
 SPN _____

CLIENT
 Name Albany Food
 Address 718 San Pablo Ave. Phone _____
 City Albany, Calif. Zip _____

APPLICANT
 Name Subsurface Consultants
 Address 5736 McDieter Blvd. Suite 400 Phone (510) 297-7960
 City La Sawaythe, Calif. Zip 94547

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

Pressure Grouting

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other _____	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	AUGER	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

DRILLER'S LICENSE NO. _____

WELL PROJECTS

Drill Hole Diameter	_____ in.	Maximum Depth	<u>25</u> ft.
Casing Diameter	<u>2</u> in.	Number	<u>5</u>
Surface Seal Depth	_____ ft.		

GEOTECHNICAL PROJECTS

Number of Borings	_____	Maximum Depth	_____ ft.
Hole Diameter	_____ in.		

ESTIMATED STARTING DATE 3/20/98
 ESTIMATED COMPLETION DATE 3/27/98

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

APPLICANT'S SIGNATURE Dein Oleyenda DATE 3/13/98

FOR OFFICE USE

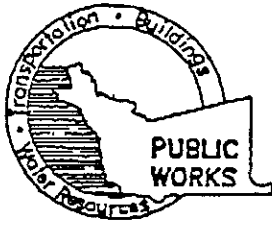
PERMIT NUMBER 98WR115
 WELL NUMBER _____
 APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

- (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 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 SUPPLY WELLS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 30 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
- 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.
- D. GEOTECHNICAL**
 Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremie cement grout shall be used in place of compacted cuttings.
- E. CATHODIC**
 Fill hole above anode zone with concrete placed by tremie.
- (F) WELL DESTRUCTION**
 See attached.
- G. SPECIAL CONDITIONS**

APPROVED [Signature] DATE 3/13/98



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651

PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262

(510) 670-5248 ALVIN KAN

WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE
For Pressure Grouting of Monitoring Well

718 SAN PABLO AVE

ALBANY.

PERMIT NO. 98WR115

Destruction Requirements:

1. Clean out all bridged or poorly compacted materials to the bottom of the well.
2. Pressure grout the casing to 2 feet below finished grade or original ground, whichever is the lower elevation.
3. Remove casing, seal and gravel pack to 2 feet below finished grade or original ground, whichever is the lower elevation.
4. After the seal has set, backfill the remaining hole with compacted material.