

Vec 1913/95

Ms. Eva Chu

October 5, 1995

Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, #250 Alameda, California 94502-6577

Subject:

Well Abandonment at Shamrock Ford Site, 7499 Dublin Boulevard,

Dublin, California.

Ms. Chu

This letter is written to notify you that wells A-1 through A-3 at the above referenced site were abandoned on September 1, 1995. A report documenting well abandonment activities is enclosed for your review. A copy of this report has been forwarded to Mr. Craig Caldwell of Shamrock Ford. Please issue a closure letter for the subject site.

If you have any questions, please call us at (510) 551-8777.

Sincerely,

GeoStrategies

Barbara Sieminski Project Geologist



No. 5577

LETTER REPORT WELL ABANDONMENT

at

Shamrock Ford 7499 Dublin Boulevard Dublin, California

813001-7

Prepared for

Shamrock Ford 7499 Dublin Boulevard Dublin, California 94568

Prepared by

GeoStrategies 6747 Sierra Court, Suite G Dublin, California 94568

> Barbara Sieminski Project Geologist

Stephen'J. Carter Senior Project Geologist R.G. #5577

September 27, 1995

September 27, 1995

Mr. Craig Caldwell Shamrock Ford 7499 Dublin Boulevard Dublin, California 94568

Subject:

Well Abandonment at Shamrock Ford Site, 7499 Dublin

Boulevard, Dublin, California.

Mr. Caldwell:

As requested by Shamrock Ford, GeoStrategies (GSI) has prepared this letter report documenting field activities performed during abandonment of groundwater monitoring wells A-1 through A-3 at the above referenced site. Mrs. Eva Chu of the Alameda County Health Care Services Agency (ACHCSA) requested decommissioning of these wells in her letter dated August 14, 1995, because the environmental investigation at the subject site was completed and the wells would no longer be monitored. Field work was performed to comply with current State of California Water Resources Control Board (SCWRCB) and Alameda County Flood Control and Water Conservation District, Zone 7 (ACFCWCD) guidelines.

SITE BACKGROUND

The subject site is located at the intersections of Dublin Boulevard and Amador Plaza Road in Dublin, California, as shown on the Vicinity Map, Figure 1. In June 1993, Gettler-Ryan Inc. (G-R) removed one 1000-gallon waste-oil underground storage tank (UST) and one 2000-gallon gasoline UST from the site. The location of the former USTs are shown on the Site Plan, Figure 2.

The laboratory analytical results of soil samples collected from the tank pits indicated that the soil in the vicinity of the UST pits had not been impacted by waste-oil related hydrocarbons, but had been slightly impacted by gasoline related hydrocarbons. Laboratory analytical results of groundwater "grab" samples collected from the tank pits indicated that groundwater in the vicinity of the UST pits have been impacted by gasoline and waste-oil related hydrocarbons. The results of the environmental investigation related to UST removal were described in GSI Report No. 610001-01 Underground Tank Removal Report, dated August 16, 1993.

In December 1993, three groundwater monitoring wells (A-1 through A-3) were installed at the site by GSI to evaluate the extent of petroleum hydrocarbons in soil and groundwater in the vicinity of the former USTs, and to evaluate the gradient of the shallow groundwater beneath the site. The locations of the groundwater monitoring wells are shown on Figure 2 and boring logs are included in Appendix A. Laboratory analytical results of the soil and groundwater samples collected during this investigation indicated that the soils and groundwater in the vicinity of the former USTs have not been impacted by waste-oil or gasoline hydrocarbons. Concentrations of metals in soil and groundwater beneath the site appeared to be within the natural background levels. The results of this subsurface investigation were described in GSI Report No. 613001-3 *Initial Subsurface Investigation*, dated January 26, 1994.

Quarterly groundwater monitoring and sampling of the site wells began in December 1993. All wells contained nondetectable levels of gasoline and waste-oil related hydrocarbons for four consecutive quarters. Concentrations of metals cadmium, chromium, lead nickel and zinc were within natural background levels. The results of quarterly groundwater monitoring and sampling performed during the first, second and third quarter of 1994, are summarized in GSI Report No. 613001-6 Quarterly Groundwater Monitoring dated October 24, 1994.

A request to assign closure status to the subject site was submitted by GSI to the ACHCSA and the Regional Water Quality Control Board San Francisco Bay Region (RWQCB) on October 24, 1994. In the letter dated August 14, 1995, the ACHCSA and RWQCB concurred that no further action related to the underground tank release is required at the subject site

and requested decommissioning of wells A-1 through A-3 as they would no longer be monitored.

WELL ABANDONMENT ACTIVITIES

A well destruction permit (#95535) was acquired from the ACFCWCD prior to performing well abandonment at the site. A copy of the permit is attached in Appendix B. Groundwater monitoring wells A-1 through A-3 were abandoned by pressure grouting on September 1, 1995, in accordance with ACFCWCD requirements. The well abandonment work was performed by Exploration Geoservices, Inc. of San Jose, California (Drilling Contractor Lic. C-57 484288). A GSI geologist supervised the well abandonment activities. Prior to pressure grouting, the GSI geologist checked total depths of wells A-1 through A-3 to assure that there was no bridged material inside well casings. Then, the well casings were pressure grouted with neat cement (type I/II portland cement mixed with water in a ratio of 4 gallons of water per 47 pounds of cement) to approximately 2 feet below ground surface. The well boxes and the upper portions of the well casings and seals were removed. The remaining holes (approximately 2 feet deep) were backfilled with concrete and 4 inches asphalt on top.

If you have any questions regarding this report, please call us at (510) 551-8777.

Figure 1. Vicinity Map Figure 2. Site Plan

Appendix A: Boring Logs and Well Construction Details

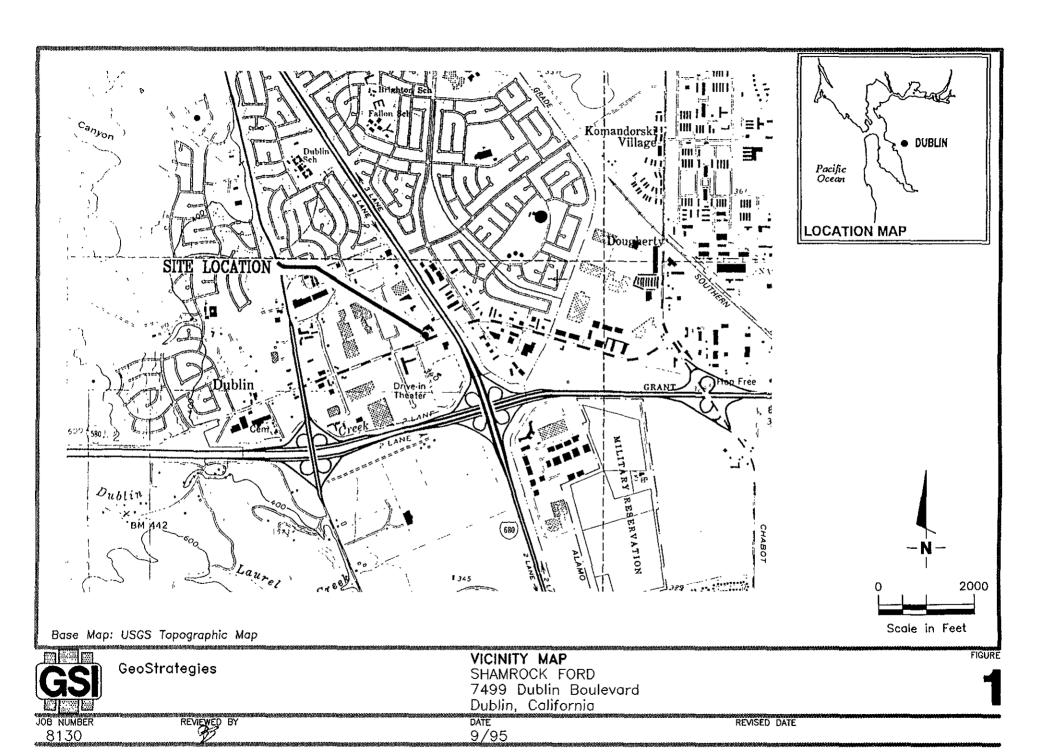
Appendix B: Well Destruction Permit

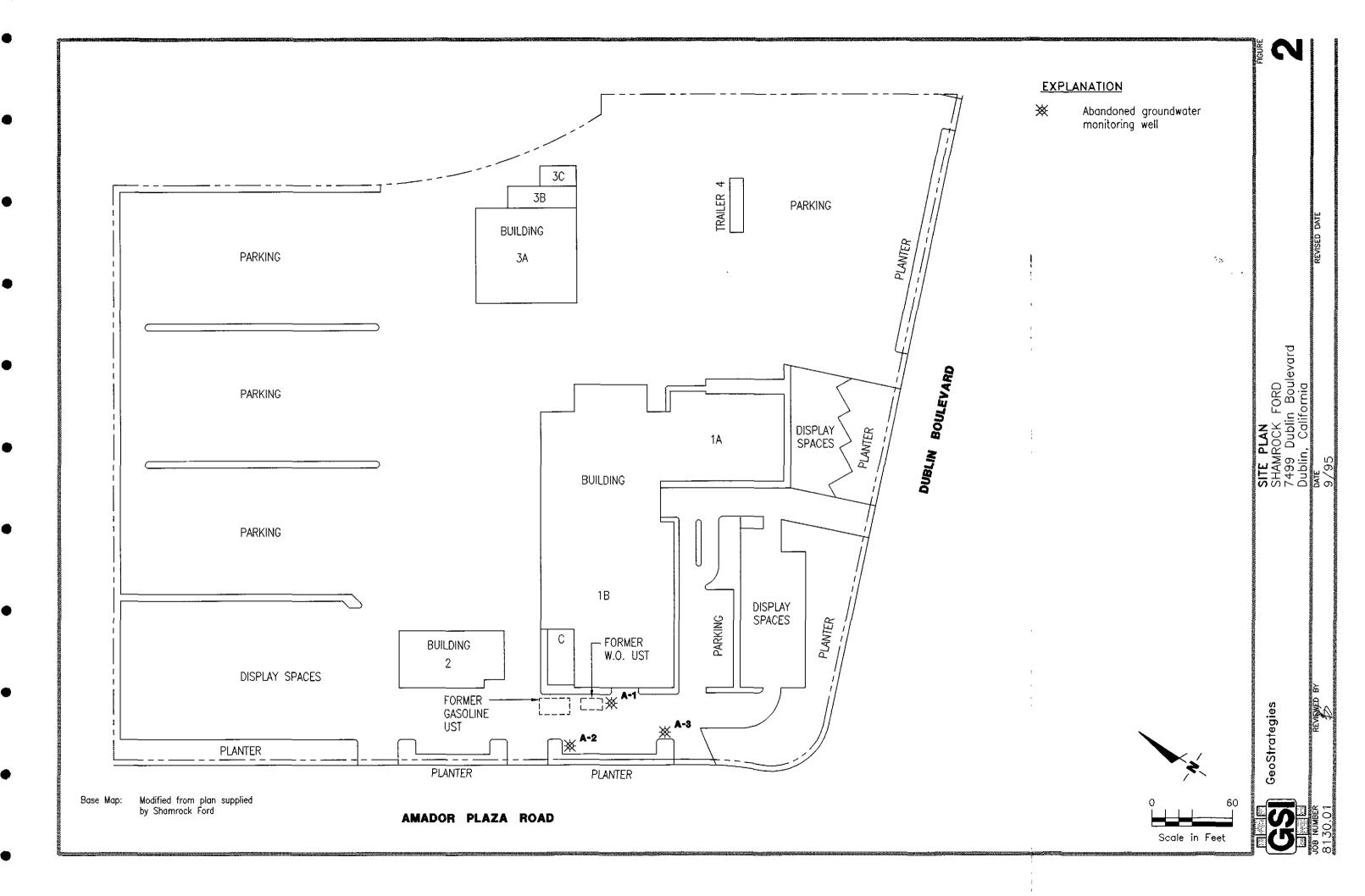
FIGURES

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APPENDIX A BORING LOGS AND WELL CONSTRUCTION DETAILS

PRO.	JECT: SI	am/o	CK FOI	ď					LOCATION: 7499 Dublin Boulevard, Dublin, Ca.		
	PROJECT					·			SURFACE ELEVATION: 332.88 ft. MSL		
	STARTE							WL (ft. bgs): 9		TIME: 12:00	
	FINISHE							WL (ft. bgs): 7.		TIME: 12:30	
	LING MET								t: 16.5 Feet		
RIL	LING COM	PANY:	Exp	lora	tion (SeoSer	VICES	GEOLOGIST:	RZ	_ _	
feet	SAMPLE NUMBEF	BLOWS/FT. *	(mdd) OI	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS		GEOLOGIC DESCRI	PTION	WELL DIAGRAM	
3-				10,	V 9	PV	PAVEMEN	T SECTION - 3" basero	ck, 3" asphalt	7 74-17	
						CL	SILTY CL medium pl	AY (CL) - black (5Y 2. asticity: 95 % fines, 5%	5/2), damp, stiff, fine grained sand.	2" blank PVC (schedule 40) [Butter	
5—						CL		LAY (CL) - olive (5Y 4/		1 20 1 4 5	
۲	A1-5.5	22	0			ML	medium plasticity: 80% fines, 20% sand. CLAYEY SILT WITH SAND (ML) - very dark gray				
-	Ai-7.5 34 0 \$\frac{\fir}{\frac{\fir}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir\f{\fir\f{\frac{\fir\fir\f{\fir\f{\frac{\fir\fir\f{\fir\f{\fi			damp, hard, low plastici id comprised mainly of s	ty; 70% fines, 30% ubangular evaporite	(0.02 hch) ->					
0-	A1-10.5	38	0	-		SC CT	- dark gr saturated	LAY WITH CLAYEY SANE ay (5Y 3/1) mottled dar # 80% fines, 40% fine to ad comprised malnly of s	k brown (10YR 3/3), coarse grained	Statled PVC STATESTEET STATE	
5- -	A1-18	26	0			CL		LAY (CL) - olive (5Y 4/		+ 2"	
-				-		1	medium pi	asticity; 80% fines, 20%	sand.		
4				-			Bottom o	f boring at 18.5 feet. 12	/17/93		
0-				-			(x = con blows/ft.)	verted to equivalent sta I	andard penetration		
5-				-		!					
-											
0-				-							

GS GeoStrategies, Inc. 8747 Sierra Court - Suite G Dublin, Ca. 95468								Log of Bo	ring A-2	
PRO	JECT: S	hamro	ck For	ď			<u> </u>	LOCATION: 7499 Dublin Boulevard, Dublin, Ca.		
GSI 1	PROJECT	NO.:	6130.	01				SURFACE ELEVATION: 334.16 ft. MSL		
DATE	STARTE	D: 12	2/17/9.	3				WL (ft. bgs): 9 DATE: 12/17/93 TIME: 8:30		
DATE	FINISH	:D: /	12/17/9	3				WL (ft. bgs): 7.50 DATE: 12/17/9.	3 TIME: 9:30	
DRIL	LING MET	HOD:	8 m.	Holl	low S	tem Au	ger	TOTAL DEPTH: 18 Feet		
DRIL	LING COM	PANY	: Exp	lora	tion (GeoSei	rvices	GEOLOGIST: ES		
OEPTH feel	SAMPLE NUMBER	BLOWS/FT. *	PID (ppm)	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GE	OLOGIC DESCRIPTION	WELL DIAGRAM	
		_			7.80	PV	PAVEMENT SECT	ION - 3" baserock, 3" asphalt	774-147	
1				-		CL	SILTY CLAY (CL medium plasticity	.) – black (5Y 2.5/2), damp, stiff, r. 95 % fines, 5% fine grained sand.	Schedule 40) Schedule 40) Signal Ante- neal cement	
5-	A2-5.5	19	٥			CL	SANDY CLAY (C	L) - olive (5Y 4/4, damp, very stiff,		
	A2-7	19	0	1			low to medium plasticity, 70% fines, 30% sand.			
1 1				H.						
]]	A2-8.5	29	0							
10-						cl c	- olive gray (5) 50% fines, 50% f	TH CLAYEY SAND LENSES (CL/SC) '4/2) with white motling, saturated; ine to coarse grained sand; sand of subangular evaporite grains.	2" stotted PVC BREEFERSTREE SAT RMC LOTE THE LOTE T	
15-	A2-15	31	0			CL				
1	A2-17.5	30	٥				SANDY CLAY (C stiff, low plastic Becoming damp.	L) - olive gray (5Y 4/2), moist, very ity; 85% fines, 15% sand.	+ Den-	
]] .			Bottom of boring	at 18 feet. 12/17/93		
20-				-			(* = converted blows/ft.)	to equivalent standard penetration		
25-	•									
				-						
30-										
2									1	
35-		1		\perp			<u> </u>			

GSI DATE		17 Sier h <i>amro</i> NO.: D: 1	0ck Foi 6130. 12/17/9 12/17/9	rd .01 3	Suite	G D	ublin, Ca. 95468	Log of Boring A-3 LOCATION: 7499 Dublin Boulevard, Dublin, Ca. SURFACE ELEVATION: 334.18 ft. MSL WL (ft. bgs): 9.5 DATE: 12/17/93 TIME: 10:30 WL (ft. bgs): 7.50 DATE: 12/17/93 TIME: 11:45 TOTAL DEPTH: 16.5 Feet		
-	LING COM						-	GEOLOGIST: BS		
OEPTH feet	SAMPLE NUMBER	BLOWS/FT. N	PID (ppm)	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GE	EOLOGIC DESCRIPTION	WELL DIAGRAM	
						PV	PAVEMENT SECT	110N - 3" baserock, 3" asphall	1 1/4-1/4	
				-		CL	medium plasticity SANDY CLAY (C	.) - black (5Y 2.5/2), damp, stiff, 95 % fines, 5% fine sand. L) - olive gray (5Y 4/2), damp, very	S" blank PVC (schedule 40) INIT	
5-	A3-5.5	25	0				stiff, medium pla	sticity, 80% fines, 20% sand.		
-	A3-8,5	18	0				+			
	A3-10	15	0				▼ Becoming moist:	Increasing sand	(0.02 inch) ++ EDPRATERENS	
10-						qg	- olive gray (5Y 50% fines, 50% f	TH CLAYEY SAND LENSES (CL/SC) 4/2) with white mottling, saturated; ine to coarse grained sand; sand if subangular evaporite grains.	STATE OF PVC (0.02 inch) - CREEFINGEFEER INCHININININININININININININININININININ	
	A3-13.5	26	0				Decreasing sand	; becoming moist.] is 25 25 27 27 27 27 27 27	
15-	A3-16	28	0			CL	SANDY CLAY (C	L) - very dark grayish brown (2.5Y stiff, low plasticity; 80% fines, 20 %	Then-	
1							Bottom of boring	at 16.5 feet. 12/17/93		
20-							(* = converted blows/ft.)	to equivalent standard penetration		
25-										
30-										
35-		1							-	

APPENDIX B WELL DESTRUCTION PERMIT



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

I hereby agree to comply with all requirements of this permit and Alameda

Parbane Silminshi Date 08/16/95

County Ordinance No. 73-68.

APPLICANTS (

PLEASANTON, CALIFORNIA 94588

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

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
OCATION OF PROJECT Shamvock Ford	PERMIT NUMBER 95535 LOCATION NUMBER 3S/1W 1F10 to 1F12
CLIENT Jame Shamrock Ford Craig (aldwell Address 7499 Dublin Blud. Voice (510) 829-5211 Dity Dublin Zp 94568	PERMIT CONDITIONS Circled Permit Requirements Apply
APPLICANT Name GeoStrategies Barbara Sieminski Fax (510) 551-7888 Address 6747 Sierra Ct. Suit 6 Voice (510) 551-8777 City Dublin Zip 94568 TYPE OF PROJECT Well Construction General Contamination Water Supply Contamination Well Destruction by pressure growing PROPOSED WATER SUPPLY WELL USE Domestic Industrial Other DRILLING METHOD: Mud Rotary Air Rotary Auger Cable Other DRILLER'S LICENSE NO. WELL PROJECTS (Destruction) Drill Hole Diameter & in. Maximum Casing Diameter & in. Depth 15 ft. Surface Seal Depth 5 ft. Number 3 GEOTECHNICAL PROJECTS Number of Borings Maximum Hole Diameter in. Depth ft.	A. GENERAL 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 2. 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. 3. Permit is void if project not begun within 90 days of approval date. 8. WATER WELLS, INCLUDING PIEZOMETERS 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. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet. C. 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. D. CATHODIC. Fill hole above anode zone with concrete placed by tremie. E. WELL DESTRUCTION. See attached.
ESTIMATED STARTING DATE $\frac{08/34/95}{08/34/95}$	Approved William Han A Date 25 Aug 95

Approved

Wyman Hong

91992