

By Alameda County Environmental Health at 3:02 pm, Nov 24, 2014

November 20, 2014

#### 1211.001.04.004

Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Attention: Mr. Mark Detterman

Transmittal
Monitoring Well and Vapor Probe Decommission Notification
1650 65<sup>th</sup> Street
Emeryville, California
Fuel Leak Case No. RO0000440
Geotracker Global ID T0600100511

Dear Mr. Detterman:

Submitted herewith for your review is the *Monitoring Well and Vapor Probe Decommission Notification*, 1650 65<sup>th</sup> Street, Emeryville, California prepared by PES Environmental, Inc.

I declare, under penalty of perjury, that the information and recommendations contained in the attached document are true and correct to the best of my knowledge.

Very truly yours,

**GRIFFIN CAPITAL CORPORATION** 

Julie A. Treinen

Managing Director, Asset Management

plie a. Treiner

cc: Chris Baldassari, PES Environmental, Inc.



November 20, 2014

### 1211.001.04.002

Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Attention: Mr. Mark Detterman, PG, CEG

MONITORING WELL AND VAPOR PROBE DECOMMISSION NOTIFICATION 1650 65TH STREET, EMERYVILLE, CALIFORNIA Fuel Leak Case No. RO0000440 Geotracker Global ID T0600100511

Dear Mr. Detterman:

PES Environmental, Inc. (PES) has prepared this report for Griffin Capital Corporation (Griffin), agent for the fee owners for the commercial property located at 1650 65<sup>th</sup> Street, Emeryville, California (the Site), to document groundwater monitoring well and sub-slab vapor probe decommissioning activities conducted at the Site on November 3, 2014. The location of the Site is shown on Plate 1, and a Site Plan is presented on Plate 2. The locations of the former groundwater monitoring wells and sub-slab vapor probes are shown on Plate 2. The former wells and probes comprised the monitoring network associated with the subject leaking underground storage tank (LUST) case (ACEH Fuel Leak Case No. RO0000440) overseen by the Alameda County Department of Environmental Health (ACEH). The wells and probes were decommissioned in accordance with ACEH case closure correspondence<sup>1</sup>.

Additionally, in accordance with the October 15, 2014 ACEH case closure correspondence, monitoring wells MW-5 and MW-7, located to the north of the 1650 65<sup>th</sup> Street building, were not decommissioned; ACEH noted that these wells are currently being utilized for the adjacent open fuel leak case at 6601/6603 Shellmound Street (Fuel Leak Case No. RO0000042) and were requested by ACEH to be retained for future groundwater monitoring events associated with that fuel leak case.

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<sup>&</sup>lt;sup>1</sup> ACEH, 2014. End of Public Participation Notification Period for Case Closure; Fuel Leak Case No. R00000440 and Geotracker Global ID T0600100511, Emery Bay Plaza, 1650 65th Street, Emeryville, CA 94608. October 15.

Mr. Mark Detterman November 20, 2014 Page 2

### WELL DESTRUCTION PROCEDURES

### **Pre-Field Activities**

Prior to conducting field activities: (1) well and probe destruction permits were obtained from the Alameda County Public Works Agency (ACPWA); (2) Underground Service Alert was contacted more than 48 hours before beginning activities; and (3) the Site-specific Health and Safety Plan, compliant with applicable federal, California Occupational Safety and Health Administration (OSHA), and Title 29 CFR 1910.120 guidelines, was updated by PES for the activities described herein. Copies of the ACPWA permits are presented in Appendix A.

Penecore Drilling Company of Woodland, California, a licensed drilling contractor possessing a valid C-57 water well contractor's license issued by the State of California, was retained to perform the well and probe decommissioning activities, and the work was performed with oversight by a licensed California Professional Geologist.

### **Groundwater Monitoring Well and Sub-Slab Vapor Destruction Procedures**

Groundwater monitoring well and sub-slab vapor probe destruction activities were conducted in accordance with County and State requirements (California Well Standards Bulletins 74-81<sup>2</sup> and 74-90<sup>3</sup>). All well destruction activities were conducted under supervision of an ACPWA inspector. Well construction details are shown on Table 1. The monitoring wells were destroyed by pressure grouting with neat cement grout and 25 pounds per square inch (PSI) of pressure was applied for five minutes to ensure all voids were properly grouted. Sub-slab vapor probes were removed with hand tools and backfilled with neat cement grout. The approximate volume of grout used to destroy each well and probe is indicated below:

- Well MW-2: 24 gallons grout;
- Well MW-3: 26 gallons grout;
- Well MW-4: 35 gallons grout;
- Well MW-6: 40 gallons grout;
- Well MW-8: 20 gallons grout;
- Well EW-1: 66 gallons grout;

<sup>&</sup>lt;sup>2</sup> California Department of Water Resources (DWR), 1981. Water Well Standards: State of California, Bulletin 74-81. December.

<sup>&</sup>lt;sup>3</sup> DWR, 1991. California Well Standards, Bulletin 74-90 (Supplement to Bulletin 74-81). June.

## Mr. Mark Detterman November 20, 2014 Page 3

- Sub-slab vapor probe SS-1: 0.5 gallons grout; and
- Sub-slab vapor probe SS-2: 0.5 gallons grout.

After completion of pressure grouting the steel Christy box from each well surface completion was removed and backfilled with concrete. The concrete was dyed to match the approximate color of the existing asphalt surface.

No drilling spoils were generated, and no wastewater was generated during the well destruction activities. Inert concrete and metal debris, consisting of the Christy box and surrounding concrete surface finish, was transported offsite for recycling; as such no investigation-derived waste requiring characterization (e.g., drilling spoils or purged groundwater) was generated.

As required by ACPWA, original copies of the *State of California Well Completion Report* prepared for each well was transmitted to ACPWA; copies of the reports are included in Appendix B.

We trust this is the information you require at this time.

Very truly yours,

PES ENVIRONMENTAL, INC.

Christopher J. Baldassari, P.G.

Senior Geologist

Robert S. Creps, P.E.

Principal Engineer

Attachments: Table 1 – Well Construction and Sub-Slab Vapor Probe Details

Plate 1 – Site Location Map

Plate 2 – Site Plan

Appendix A – ACPWA Well Destruction Permits

Appendix B – State of California Well Completion Reports

# **TABLE**

Table 1
Summary of Groundwater Monitoring Well Construction Details
1650 65th Street
Emeryville, California

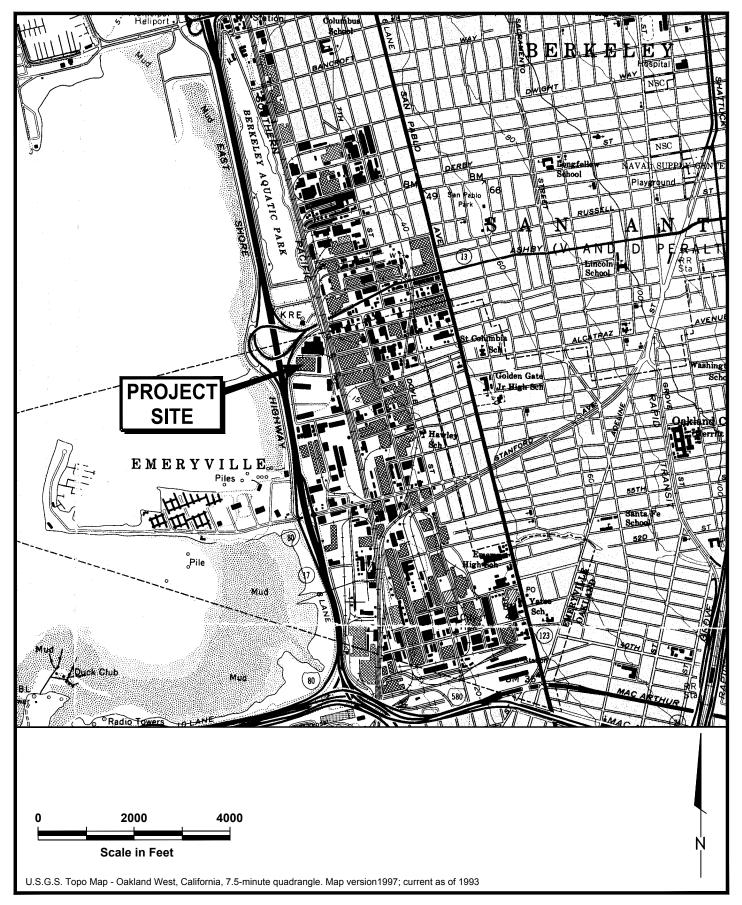
Well Identification	Top of Casing (feet MSL)	Well Casing Diameter (inches)	Screened Interval (feet bgs)
EW-1	18.25	4	8.3 - 28.9
MW-2	18.24	2	8.3 - 28.0
MW-3	14.92	4	6.6 - 18.0
MW-4	14.73	4	6.1 - 15.8
MW-6	14.53	4	7.1 - 21.8
MW-8	17.52	2	6 - 26

### Notes:

 $\mbox{MSL}$  - mean sea level, referenced to North American Vertical Datum of 1988 (NAVD88). bgs - below ground surface.

121100104R002.xlsx - Table 1 11/20/2014

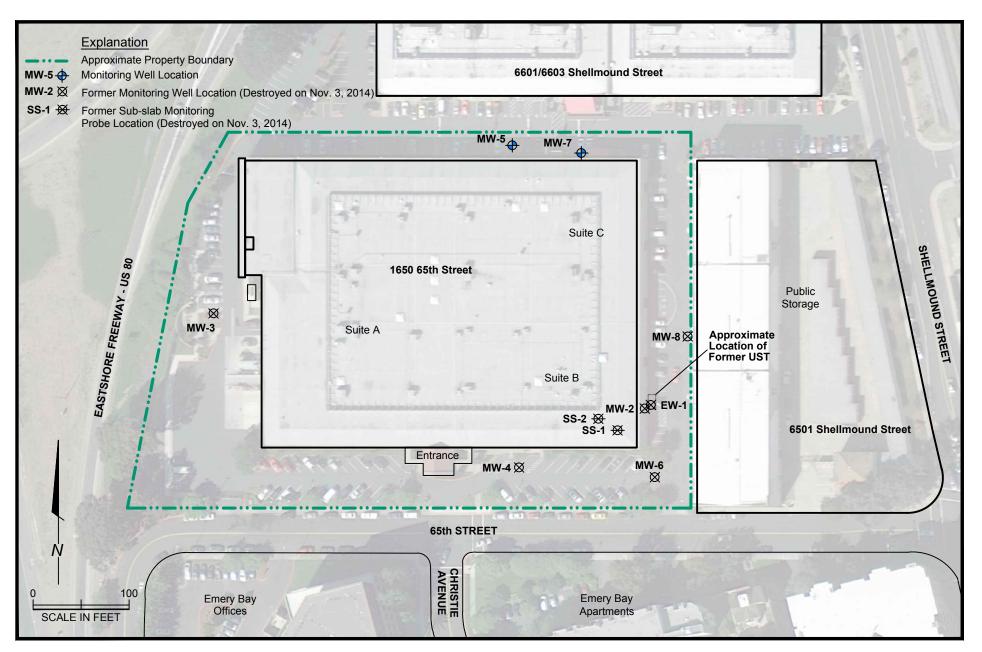
# **PLATES**





**Site Location Map** 1650 65th Street Emeryville, California PLATE

1





Site Plan 1650 65th Street Emeryville, California

PLATE

1211.001.04.003 121100104003\_1-2

JOB NUMBER

DRAWING NUMBER

CJBREVIEWED BY

# APPENDIX A

# WELL DESTRUCTION PERMITS

### 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: 10/28/2014 By jamesy Permit Numbers: W2014-0995 to W2014-1000 Permits Valid from 11/03/2014 to 11/03/2014

Application Id: 1414521114117 City of Project Site: Emeryville

Site Location: 1650 65th St, Emeryville, CA **Project Start Date:** 11/03/2014 Completion Date: 11/03/2014

Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

PES - Chris Baldassari Phone: 415-899-1600 Applicant:

1682 Novato Bl, Novato, CA 94947

**Property Owner:** Phone: --Griffin Capital Corp

1520 Grand Avenue, El Segundo, CA 90245 \*\* same as Property Owner \*\* Client:

Phone: --Contact: Galvin Crpes

Cell: 415-497-2736

**Total Due:** \$2250.00 Receipt Number: WR2014-0432 **Total Amount Paid:** \$2250.00

Payer Name: PES Paid By: VISA **PAID IN FULL** 

### **Works Requesting Permits:**

Well Destruction-Monitoring - 5 Wells

Driller: Penecore - Lic #: 906899 - Method: other 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 #
W2014- 0995	10/28/2014	02/01/2015	MW2	8.00 in.	2.00 in.	0.00 ft	33.00 ft	1S/4W15E	No Records	No Records
W2014- 0996	10/28/2014	02/01/2015	MW3	10.65 in.	4.00 in.	0.00 ft	22.00 ft	1S/4W15E	No Records	No Records
W2014- 0997	10/28/2014	02/01/2015	MW4	10.75 in.	4.00 in.	0.00 ft	19.00 ft	1S/4W15E	No Records	No Records
W2014- 0998	10/28/2014	02/01/2015	MW6	10.75 in.	4.00 in.	0.00 ft	21.50 ft	1S/4W15E	No Records	No Records
W2014- 0999	10/28/2014	02/01/2015	MW8	8.00 in.	2.00 in.	0.00 ft	26.00 ft	1S/4W15E	94516	No Records

### **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 appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755

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

(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. Include 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 assigned inspector listed on the top of the permit 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-Extraction - 3 Wells

Driller: Penecore - Lic #: 906899 - Method: other Work Total: \$265.00

#### **Specifications**

Permit #	Issued Date	Expire Date	Owner Well	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2014- 1000	10/28/2014	02/01/2015	EW1	10.75 in.	4.00 in.	0.00 ft	30.00 ft			
W2014-	10/28/2014	02/01/2015	SS1	1.00 in.	1.00 in.	0.00 ft	1.00 ft			
1000 W2014-	10/28/2014	02/01/2015	SS2	1.00 in.	1.00 in.	0.00 ft	1.00 ft			
1000										

### **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.

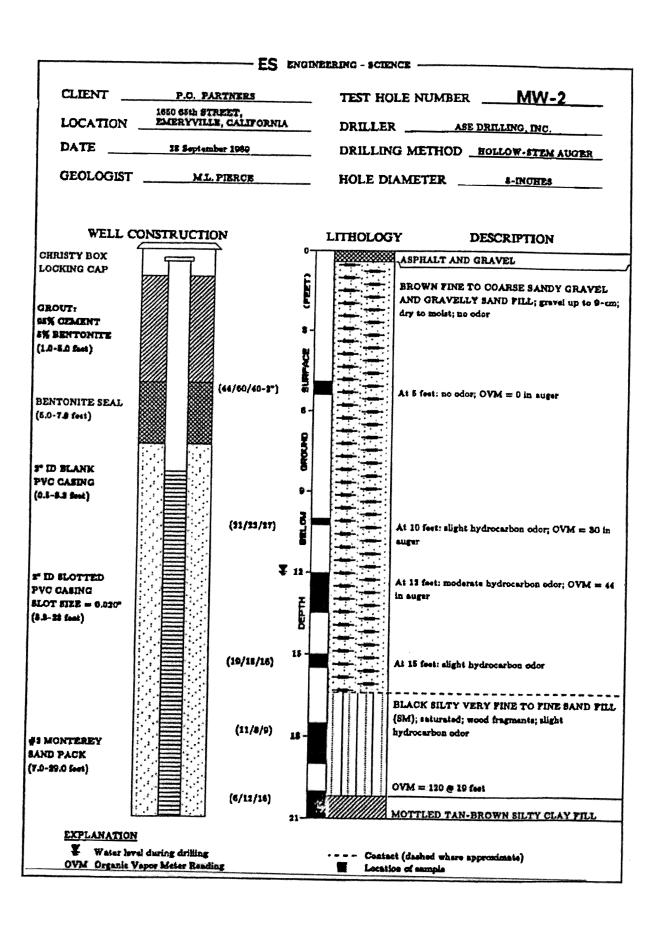
### Alameda County Public Works Agency - Water Resources Well Permit

- 2. 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. Include permit number and site map.
- 3. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
- 4. Applicant shall contact assigned inspector listed on the top of the permit 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.
- 5. Remove the Christy box or similar structure. Destroy well(s) by overdrilling to total depth & Tremie Grouting with Cement. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.
- 6. 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.
- 7. 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.

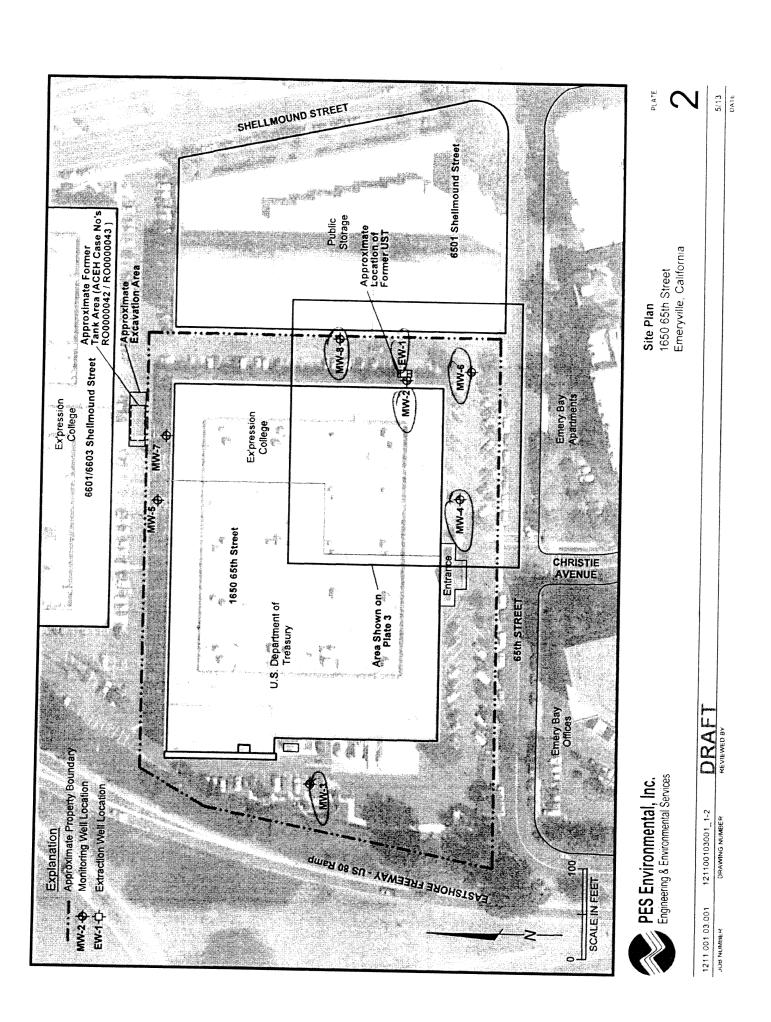
# APPENDIX B

# STATE OF CALIFORNIA WELL COMPLETION REPORTS

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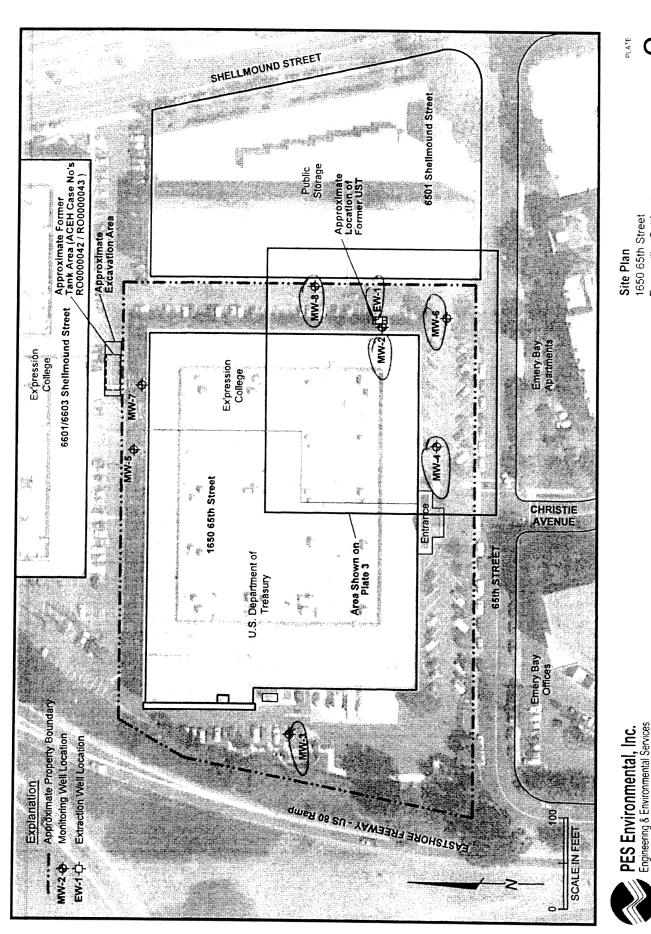


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☑ Geologic Log		I, the undersigned, certify	that this report is comple	te and accurate to the be	st of my knowledge and belief
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Attach additional information, if		C-57 Licensed Water	r Well Contractor		C-57 License Number

CLIENT _	P.O. PARTNERS	TEST HOLE NUMBER MW-3
LOCATION	1650 SELD STREET, EMERYVILLE, CALIFORNIA	DRILLERASE DRILLING, INC.
		DRILLING METHOD HOLLOW-STEM AUG
GEOLOGIST	M.L. PIEROE	HOLE DIAMETER 10.75-INCHES
WELL (	CONSTRUCTION	LITHOLOGY DESCRIPTION
(18.3-12.0 feet)	*	Becomes sandy at 21 feet
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		T.D. = Approx. 12.0 feet
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	80	4
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	42	



Emeryville, California Site Plan 1650 65th Street

2

5/13 DATE

JOB NUMBER

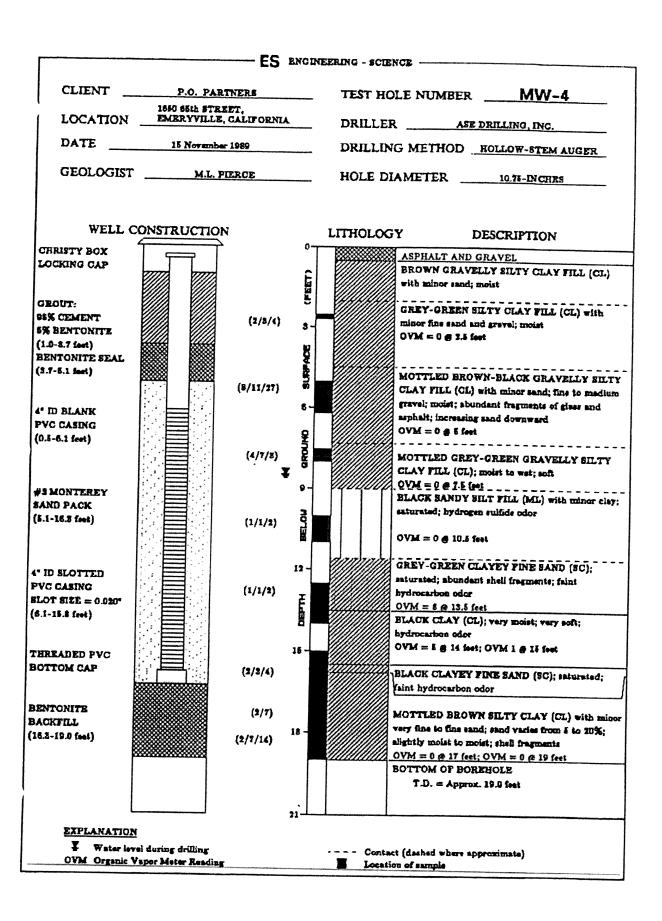
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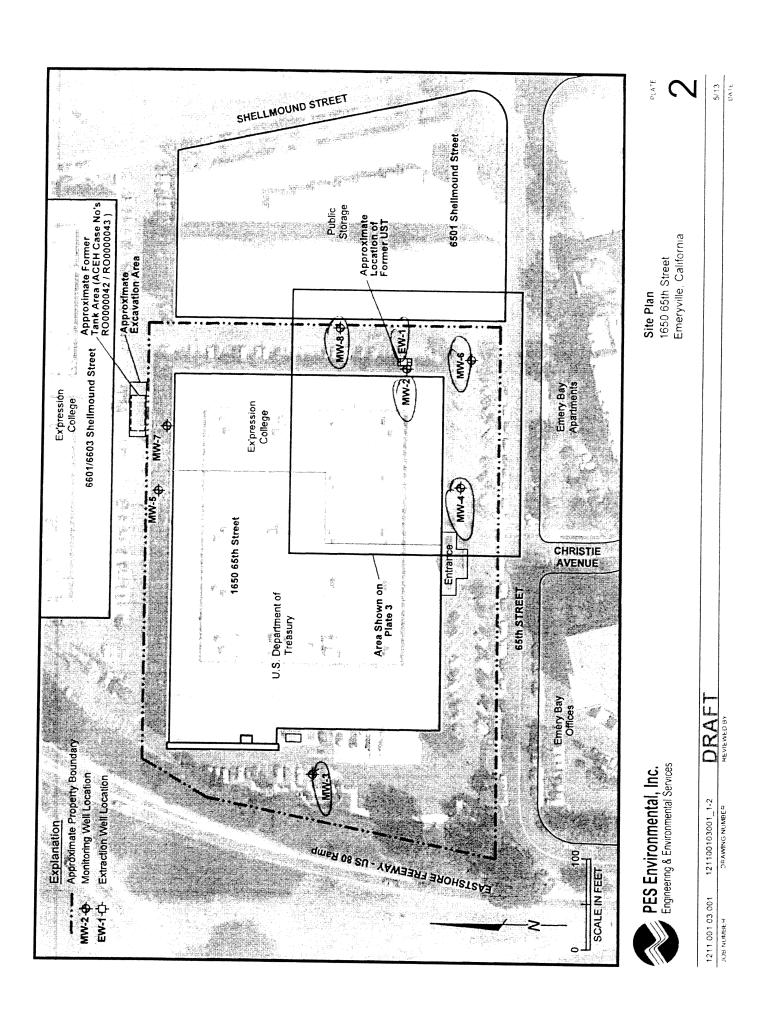
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Owner's Well Number	No. xxxxxxx	x		lumber/Site Number
Date Work Began 11/3/2014	Date Work Ended 11/3/2019	,	Latitude	Longitude
	/	ts Agency		
	it Date 11/3/14		APN	I/TRS/Other
Orientation Vertical O Horizontal			Well Owner	r
Drilling Method <u>fressive</u> Great	· /	- Name <u>Gr. H</u>	in Composition	Cap, tal
	Drilling FluidA  Description	Mailing Address	1520 Gara	The state of the s
	erial, grain size, color, etc	CityEI	< 1	tate A 7ip 90245
See attatche		1	Well Locatio	
18 44 1	caption J	Address 165		)n
J			eville co	. Al -1.
	The second secon	Latitude		
Well destroy	id in-place by	Dea.	Min. Sec. N Longit	Dea Min Sec
aressure grout	id in-place by	Datum	Dec. Lat.	_ Dec. Long.
General agent		APN Book 44	Page <u>14 70</u>	Parcel 7
J		Township		Section
			tion Sketch	
		(Sketch must be draw	n by hand after form is printed.)	Activity O New Well
		1	North	O New Well O Modification/Repair
		11		O Deepen
		41		O Other
				Destroy  Describe procedures and materials under "GEOLOGIC LOG"
		11		Planned Uses
		11		O Water Supply
		11 =	70	☐ Domestic ☐ Public
		West	E	☐ Irrigation ☐ Industria
				O Cathodic Protection
				O Dewatering
				O Heat Exchange
				O Injection
				O Monitoring O Remediation
				O Remediation O Sparging
				O Sparging O Test Well
			South	O Vapor Extraction
		rivers, etc. and attach a map. L.  Please be accurate and comp.	of well from roads, buildings, fences Use additional paper if necessary	O Other
			Yield of Completed W	
		Depth to Static		_ (Feet below surface)
T-11 D-11 (D-12)		Water Level	(Feet) Date	Measured
Total Depth of Boring	Feet	Estimated Yield * _	(GPM) Test 1	Туре
Total Depth of Completed Well	Feet	Test Length	(Hours) Total	Drawdown (Feet)
		*May not be represe	entative of a well's long ter	rm yield.
Depth from Borehole -	sings		Annula	ar Material
Surface Diameter Type Mater Feet to Feet (Inches)	terial Wall Outside Thickness Diameter (Inches) (Inches)	Screen Slot Size Type if Any	Depth from Surface Fill	
	(monos) (monos)	(Inches)	Feet to Feet	
See Attatched			C Au	7. /
			See Altai	tche d
Attachments	T	Costification	04-4	
☑ Geologic Log	I the undersigned, certify that	this report is somplete	on Statement	
☑ Well Construction Diagram	I, the undersigned, certify that	triis report is complete	and accurate to the best	of my knowledge and belief
☐ Geophysical Log(s)	Person, Firm or Corporation	201 100	. Pr 1	9(771)
☐ Soil/Water Chemical Analyses	Address	NOT AM	DCLand CA Stat	$\frac{1}{2}$ $\frac{1}{2}$
Other Site Map	Signed		11/12/14	906899
tach additional information, if it exists.	C-57 Licensed Water Well	Contractor	Date Signed C-5	57 License Number

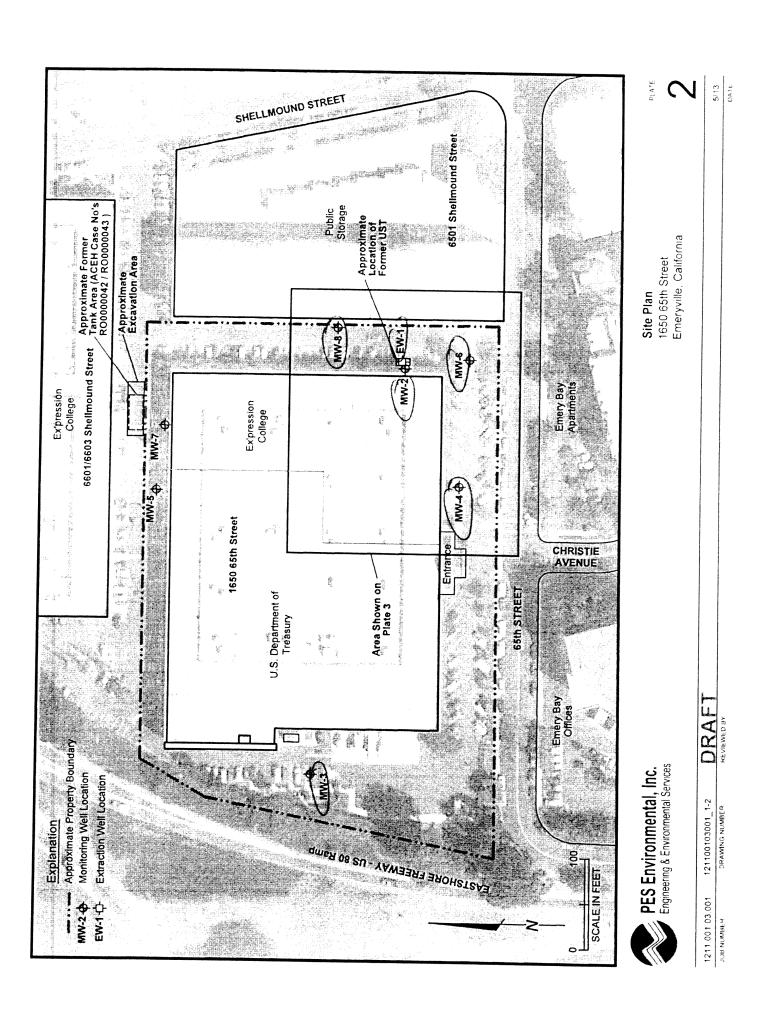




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Page / or	· 1		Well C	omplet	ion Rep	ort		LVVK Use (	Only – Do Not Fill In
Owner's Well Number		V = G	$R\epsilon$	efer to Instructio	on Pamphlet	<b></b>		State Well N	lumber/Site Number
Date Work Began			Ended	lo. xxxxx	ΚX			N	
Local Permit Agency _	Alameda	County	Public	later this	Anegon		Latitud	le	Longitude
Permit Number <u>w20</u>	4-0798	_ Permit Date _	11/3/14	1	90.7			APN	I/TRS/Other
		logic Log					W	ell Owne	-
Orientation 🛇		lorizontal OA	ngle Spe	ecify	Name	Griff.			recrution
Drilling Method  Depth from Surface	1 fessure	Gout Drill	ing Fluid 🕢	1/4	11		1 = 1		Ave
Feet to Feet		<b>Descripti</b> escribe material, grain	on size, color, e	tc		El Seg			tate <u>CA</u> Zip <u>9</u> 02.
	1.9	tched bor						l Locatio	
	1. the logic	description,	) 1		Address	s 1650	65th St.		
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		trajed in-pl	are by		Latitude	e		N Lonait	tude Dea. Min. Sec
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	cement	group.			Datum_		_ Dec. Lat	40-	_ Dec. Long
					Townsh	in	Page/	710	_ Parcel <del>'</del>
					TOWNS		Range		
				***	(Sketch	must be drav	ntion Sketch wn by hand after form	s printed.)	Activity O New Well
					┪┣━━		North		<ul> <li>Modification/Repair</li> </ul>
					11				O Deepen O Other
					11				Destroy
					11				Describe procedures and mate under 'GEOLOGIC LOG"
					]				Planned Uses
					_]]	7	and the second		O Water Supply
					West	The second secon	**Additional and the state of t	East	☐ Domestic ☐ Publi☐ Irrigation ☐ Indus
					_		Militaria	ű	O Cathodic Protection
					-		alleries		O Dewatering
			-				Entance	MW-6	O Heat Exchange
									O Injection
					11-	85Th	5+.		O Monitoring O Remediation
									O Sparging
							South		O Test Well
					nivers, etc and	aπach a mac	of well from roads, building Use additional paper if ne	s, fences	O Vapor Extraction
					Please be acc	urate and com	nplete		O Other
							Yield of Com		
					Depth to	Static	r		_ (Feet below surface)
Total Depth of Boring					Water Le	vel	(Fee	et) Date	Measured
	-	21.5	Feet		Estimate	d Yield *	(GP	M) Test 1	Гуре
Total Depth of Comple	ted Well	21.5	Feet		*May not	gtn be repres	(Ho sentative of a we	urs) Total l's long tot	Drawdown(Feet
		Casings				20,00,00	I we		ar Material
Depth from Boreh Surface Diame	Tuno	Material	Wall	Outside	Screen	Slot Size	Depth from	Aimuia	ir Material
Feet to Feet (Inche			(Inches)	(Inches)	Туре	if Any (Inches)	Surface Feet to Feet	Fill	Description
						X	1 000 10 7 000		
Sei	. 1	4 6							
Je	CT Hout	the d	<del> </del>				See	Alto	tched
								-	
Attac	hments					artificati	on Statement	L	
☑ Geologic Log		I, the t	ndersigned	, certify tha	t this report is	s complete	e and accurate to	the best	of my knowledge and bell
Well Construction		Name	Person	irm or Corpora	e Dr	ومنلك			of my knowledge and beli
☐ Geophysical Log ☐ Soil/Water Chen		120		irm or corpor	2/51.	لَمل	oodlan	L CA	1 95770
☑ Other <u>S. tc</u>	Mag	Signed		ddress			City	Stat	1900899
tach additional information, if it				nsed Water We	ell Contractor		Date Sid	ined C-	57 License Number
VR 188 REV. 1/2006		IF ADDIT	IONALSPACE	IS MEEDED I	ISE NEXT CONG	25.04.77			

CLIENT	P.O. PAR	TNERS	TEST HO	LE NUMBER	MW-6
LOCATION	1650 65th STR EMERYVILLE	eet, Calipornia	DRILLER	ASE	DRILLING, INC.
DATE	37 March	1990			HOLLOW-STEM AUG
GEOLOGIST	P.F. BERT	voci, r.g.			18.75-INCHES
WELL C	ONSTRUCTION	N	LITHOLOG	Y )	DESCRIPTION
CHRISTY BOX LOCKING CAP		•	0	ASPHALT PAV	MENT AND GRAVEL
CEMENT GROUT:			£ ///////	BROWN SAND	GRAVELLY CLAY YII
(0.4-4.6)				loose, dry with re	fuse fragmente, no odor
Bentonite		(3/8/2)	• -	DADY BOARN	· · · · · · · · · · · · · · · · · · ·
SPACER (4.6-8.7)			SUMT ROCK	paturated, well- a	SILTY SAND FILL (SM
(6.0-2.1)		(35+)	<b>\$  </b> ////////	DIBY ODIVE	GRAY GREEN SILTY
		` .			urate, soft to firm, local
4" ID PVC BLANK CASING		£ `		and gravelly, com	mon refuse fragments
(0-7.1 Sat)		!			
		,		OVM = 1 ppm @	10 feet
		12			
Monterey #5 Sand Pack		(2/2/2)		OVM = 5 ppm \varTheta	13 5 feet
(5.7-22.1 fast)		į		BLACK SILTY 8.	UND (SM) III (MB) CM
		i	¥	fine to medium gr	ain, well-soxted, faint h
6" ID PVC		16	Mana	auliida odor	****************
BLOTTED CARING		10			ilty clay (cl)
SLOT SIZE = 0.020* (7.1-21.6 feet)		4010		OVM = \$ ppm @	E.J. feat
(on the start		(4/11/9)		light brown	Gravelly sand (FW
		(1/6/7)		esturated friable.	fine to course grain
PVC INSERT		20		light brown :	IANDY OLAY (CL) sate
BOTTOM CAP		(5/13/7)		ect, sticky	
				OVM = 8 ppm @ : BOTTOM OF BO	
	de de la constante de la const			T.D. = Approx.	
		24			
		28	<u> </u>		
EXPLANATION	U .				

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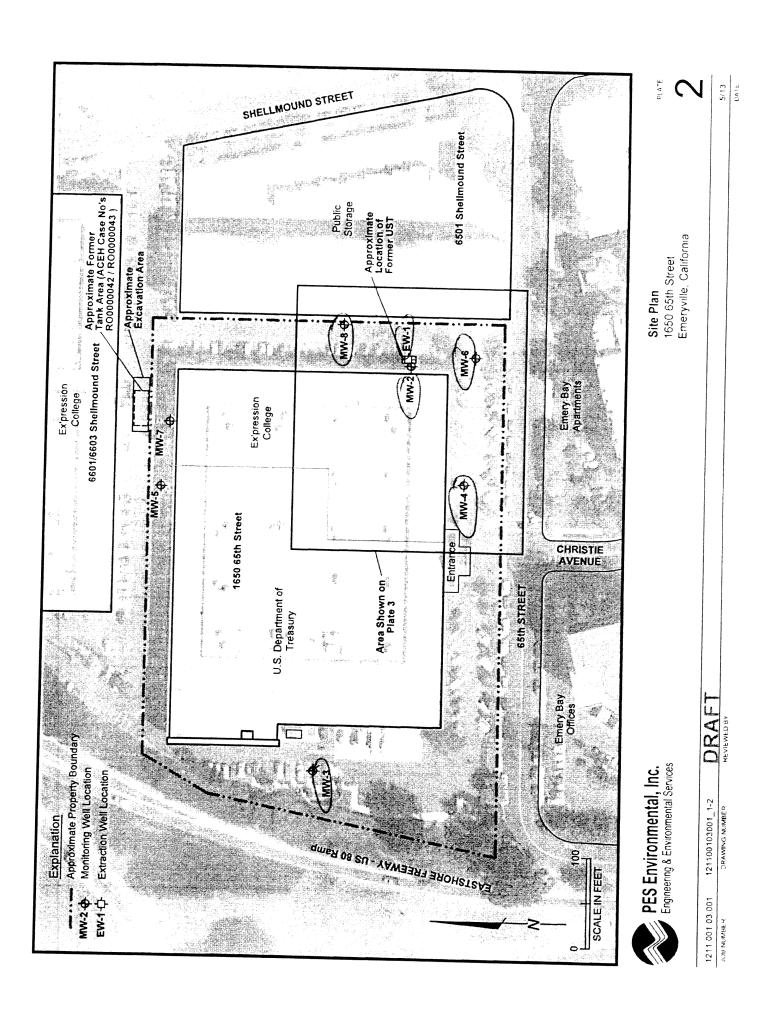
h additional information, if it exists

Date Signed

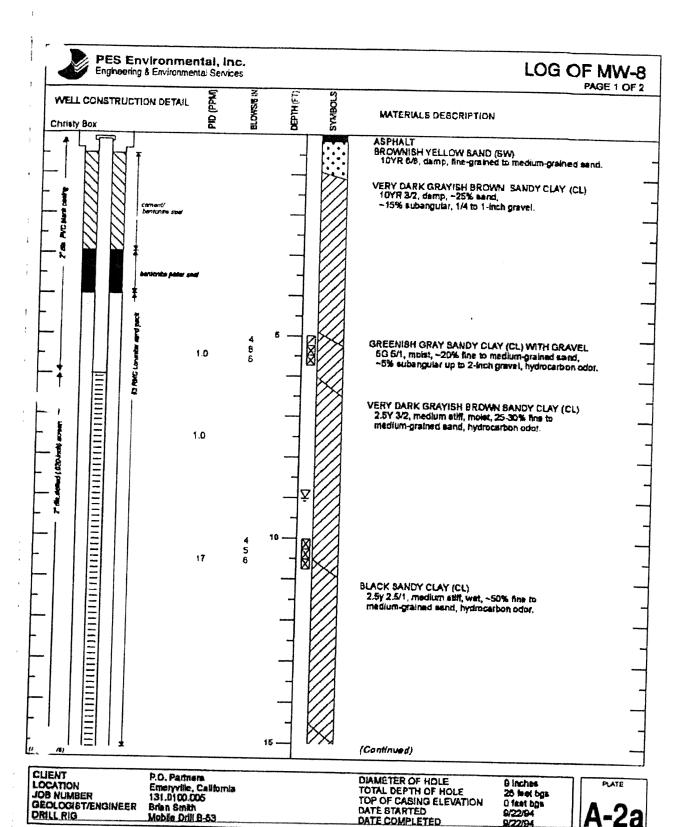
C-57 License Number

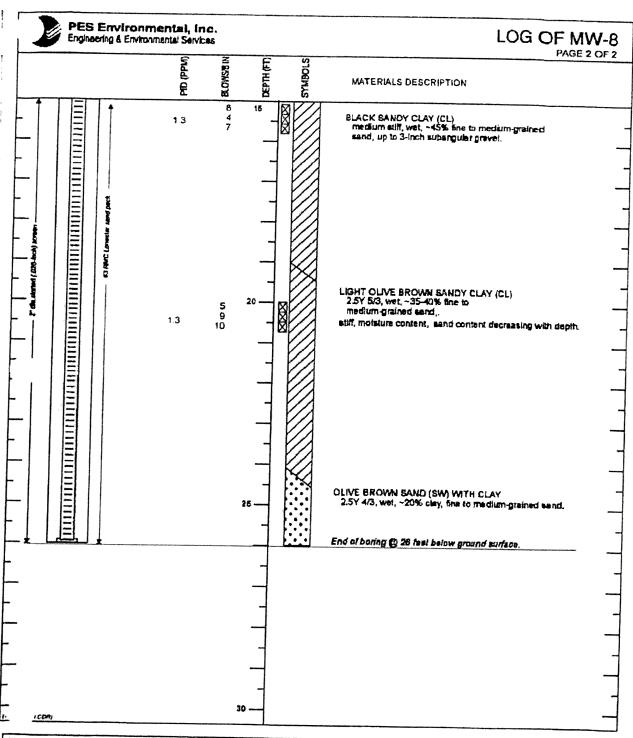
CLIENT	P.O. PARTNERS	TEST HOLE NUMBER EW-1
LOCATION	1650 65th STREET, EMERYVILLE, CALIFORNIA	DRILLERABB DRILLING, INC.
DATE	16 March 1690	DRILLING METHOD HOLLOW-STEM AUGER
		HOLE DIAMETER 10.75-INCHES
WELL C	ONSTRUCTION	LITHOLOGY DESCRIPTION
IREADED PTTOM CAP ND	(3/8/7/11)	BROWN SILTY FINE SAND (SM) seturated, friable  OVM = 7 ppm  MOTTLED BROWN CLAY (CL)  BROWN SAND (SP) well-serted, minor fine to tradium send, clay fairt odor  DARK AND LIGHT BROWN SILTY CLAY (CI mottled, rarty-brown streak  DVM = 145 ppm in augure @ 30 feet  BOTTOM OF BOREHOLE  T.D. Approx. 30 Feet
		57-
:		56

1	1650 65th STREET.	TEST HOLE NUMBEREW-1
LOCATION	emeryville, california	DRILLER ASE DRILLING, INC.
DATE	18 Murch 1990	DRILLING METHOD HOLLOW-STEM AUGER
GEOLOGIST	P.F. BERTUCCI, R.G.	HOLE DIAMETER 10.78-INCHES
WELL C	ONSTRUCTION	LITHOLOGY DESCRIPTION
CHRISTY BOX	विष्य विषये	ASPHALT CAP
LOCKING CAP		
CEMENT GROUT:		BROWNISH GRAY SANDY GRAVEL BACK  (GM) graded backer, slity, sandy gravel, due
(0.3-4 famt)		medium size graval, some clay
BENTONITE		OVM = 0 @ 2 feet
SPACER (4-6.3 feet)		8
[4-0.0 1001]		OVM = 0 @ 6 feet
		So the control of the
4° ID		
STAINLESS STEEL		
BLANK CASING (0.1-8 feet)	- Administration of the Control of t	
,,		6
# MONTEREY		OVM = 0 @ 12 feet
FAND PACK (63-30 Seet)		COARSE GRAVEL BACKPILL (GM)
•		
	1	5-1
		Base of UST Excavation
Well Screen		BLACK SAND (SP) saturated, loose, medium g
COLLAR BREAK (18.1 feet)	- Committee of the Comm	
avia estej	20	odor; OVM = 25 ppen @ 17 feat
		GREY SANDY CLAY (CL) sticky
		GRAY SAND (SP) saturated, loose, fine grained
* ID Tainless sterl		gas odor
LOTTED CASING		DVM = 2 ppm; 21 ppm in auges @ 21 feet
LOT SIZE = 0.020* 1.3-28.9 feet)	(5/7/6)	BANDY CLAY (OL)
		OVM = 43 ppm in angers @ 34 feet
	((5/7/7)	BLACK SAND (SP) saturated, fine to course, loc
	(4/8/12)	grain with gasoline odor
<b></b>	26	A CHARLES AND A
EXPLANATION  Water live		



Page   of   Page   Or   Page	*The free	Adobe Re	ader ma	y be used to view	and complete this	form. However	, software m	ust be purch	ased to comp	lete, save, and reuse	a saved form.	
Well Completion Report   Sunt Work Ended   Well Completion   Well Completed   Well Comple									Ī			Do Not Fill In
Section   Sect	Page	4	of	1		Well Co	ompleti	on Rep	ort			
Date Work Rogen    January   January		Well Nur			- 8	Refe	er to Instruction	Pamphiet		State	Well Number	/Site Number
Description						k Ended	11/3/14	•		Latitude	N L	
Geologic Log   Dining Flue					County 1	Public	Works	Agen	ey			Longitude
Description	Permit N	umber _	W2014	1-0999	Permit Date _				<u> </u>		APN/TRS/0	Other
Dorting Part   A   A				Geolo						Well (	Owner	
Description	Orie	entation Mothod	<b>Ø</b> Ve	rtical O Ho	rizontal OA	-		- Name	Griff.			cration
Comparison   Com				e gast			7 4	Mailing	g Address _	1520 Gan	d Ave.	
Address					cribe material, grain		2	City _	El s	egundo	State(	A Zip 90245
City   Executable   Country   Africat   Country   Coun				1	ched be-	ng 6,	for				ocation	
Latitude   Dec Lat   Dec	-	_		1. The logic	description	2		11				
Dec. Lang Common   Co					*			11	/			
Dec. Lang Common   Co				Wall look		1 1	r 1	Latitud	e	Min Sec N	Longitude _	Dog Min Son
ANN Book 47 Page 1476 Parcel 7 Township Range Section    Activity   New Well   New Year   New Year				Drave in	/		a +	Datum		Dec. Lat.	Dec	c. Long.
Seeton most be drawn for by part wither form is printed			,	Cement,	Jour H	I'm Ac	<u> </u>					4.
Seatch must be drawn by private plant and services and private plant of the plant								Towns	hip	Range	Se	ction
Modification/Repair   O Modification/Repair   O Despen   O Other				NAME OF THE OWNER, WHICH ARE ADDRESS OF THE OWNER, WHICH ADDRE								
Casings   Casi								Sketci	n must be drawn			New Well
Destroy   Dest												
Depth of Boring   2C   Feet				· · · · · · · · · · · · · · · · · · ·				41			~	O Other
Planned Uses   O Water Supply   Domestic   Public   Domestic   Dublic   Irrigation   Industria   O Cathodic Protection   O Dewatering   O Heat Exchange   O Remediation   O Sparging   O Remediation   O Remediation   O Sparging   O Remediation   O Sparging   O Remediation   O Remediation   O Sparging   O Remediation   O Sparging   O Remediation   O Remediation   O Sparging   O Remediation   O Remed								-{			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Describe procedures and materials
Cathodic Protection		_				<del>*************************************</del>		11			<b></b>	
Depth from   Bornele   Depth of Completed Well   Depth for static   Water Level   Wa								11	165	6	0	
O Cathodic Protection O Dewatering O Heat Exchange Injection O Monitoring O Remediation O Sparging O Remediation O Sparging O Test Well O Vapor Extraction O Sparging O Test Well O Vapor Extraction O Other  Water Level and Yield of Completed Well Depth of first water Depth to first water Depth to first water Depth form Surface Diameter Feet o F								11		ANY.		
Depth from Surface Diameter Feet to Feet (Inches)  Attachments  Geologic Log  Well Construction Diagram Geologyscal Log(s) Soil/Water Chemical Analyses Signed  Contractor  Contractor  Depth Form Sourface  Certification Statement  Li, the understagned opening the recessary  Contractor  Contractor  Depth from Surface Contractor  Certification Statement  Li, the understagned opening the recessary  Contractor  Contractor  Contractor  Contractor  Depth from Surface Surface Feet to Feet  Annular Material  Description  Series  Signed  Contractor  Contractor  Contractor  Dale Signed C-57 License Number  C-57 License Number								× ×	63	i.	w <b>11</b>	
Casings   Casi								]	5	t.		
South   Sout	<u> </u>						***************************************	41				
South   South   Sparging   Crest Well   Vapor Extraction   Other								41	Entran	دو		
Sparging O												
South   Sout								╢ —	<u>65 m</u>	:St.	18 -	
Casings   Casi								11		South	0	Test Well
Water Level and vield of Completed Well   Depth to first water   Depth to Static   Water Level and Vield of Completed Well   Depth to Static   Water Level   (Feet) Date Measured   Depth to Static   Water Level   (Feet) Date Measured   Casings								Illustrate or	describe distance of	of well from roads, buildings, fe	ences.	Vapor Extraction
Depth to first water								Please be a	ccurate and com	plete		Other
Depth to Static   Depth of Boring   26   Feet   Stimated Yield   GFM)   Test Type   Test Length   (Hours)   Total Drawdown   (Feet)   Test Length   (Hours)   Test Length   (H							****					
Total Depth of Boring  Total Depth of Completed Well  Total Depth from Surface Feet  Type  Material  Type  Material								Depth t	o first water		(Fe	eet below surface)
Total Depth of Completed Well										(Feet)	Date Meas	sured
Casings   Casi	Total De	epth of B	oring	***************************************		Feet		Estimat	ed Yield *	(GPM)	Test Type	
Depth from Surface Feet to Feet (Inches)  Attachments  Casings  Material Wall Outside Thickness Diameter (Inches) (Inches)  Casings  Material Wall Outside Thickness Diameter Type (Inches)  Cinches)  Casings  Material Wall Outside Thickness Diameter Type (Inches)  Cinches)  Casings  Material Screen Type (Inches)  Cinches)  Depth from Surface Feet to Feet  Fill Description  Feet to Feet  Fill Description  Casings  Certification Statement  I, the undersigned of certify that this report is complete and accurate to the best of my knowledge and belief  Name Corporation  Casings  Annular Material  Description  Feet to Feet  Fill Description  Certification Statement  I, the undersigned of certify that this report is complete and accurate to the best of my knowledge and belief  Name Corporation  Casings  Casing	Total De	epth of C	omplete	ed Well	26	Feet		Test Le	ngth	(Hours	) Total Draw	/down(Feet)
Depth from Surface Feet to Feet (Inches)  Nation   Surface Feet to Feet (Inches)   Screen Thickness (Inches)   Surface Feet to Feet   Surface Feet to Fee					Casings			iviay in	ot be repres			
Surface   Fill   Description				ivno				Screen	Slot Size		Annular IVI	ateriai
Attachments  Geologic Log Well Construction Diagram Geophysical Log(s) Soil/Water Chemical Analyses Other Ot				er ··				Туре		8	Fill	Description
Attachments  Geologic Log Well Construction Diagram Geophysical Log(s) Soil/Water Chemical Analyses Other Other Coth Coth Coth Coth Coth Coth Coth Coth			_						(	1 601 10 1 661		
☐ Geologic Log ☐ Well Construction Diagram ☐ Geophysical Log(s) ☐ Soil/Water Chemical Analyses ☐ Other ☐ 5: to Manage Address ☐ Other ☐ 5: to Manage Address ☐ C-57 Licensed Water Well Contractor ☐ Canage Address ☐ C-57 Licensed Water Well Contractor ☐ Date Signed ☐ C-57 License Number			See	AHatche	d					See	Attentohox	é .
☐ Geologic Log ☐ Well Construction Diagram ☐ Geophysical Log(s) ☐ Soil/Water Chemical Analyses ☐ Other ☐ 5: to Manage Address ☐ Other ☐ 5: to Manage Address ☐ C-57 Licensed Water Well Contractor ☐ Canage Address ☐ C-57 Licensed Water Well Contractor ☐ Date Signed ☐ C-57 License Number												
☐ Geologic Log ☐ Well Construction Diagram ☐ Geophysical Log(s) ☐ Soil/Water Chemical Analyses ☐ Other ☐ 5: to Manage Address ☐ Other ☐ 5: to Manage Address ☐ C-57 Licensed Water Well Contractor ☐ Canage Address ☐ C-57 Licensed Water Well Contractor ☐ Date Signed ☐ C-57 License Number									-			
☐ Geologic Log ☐ Well Construction Diagram ☐ Geophysical Log(s) ☐ Soil/Water Chemical Analyses ☐ Other ☐ 5: to Manage Address ☐ Other ☐ 5: to Manage Address ☐ C-57 Licensed Water Well Contractor ☐ Canage Address ☐ C-57 Licensed Water Well Contractor ☐ Date Signed ☐ C-57 License Number												
☐ Geologic Log ☐ Well Construction Diagram ☐ Geophysical Log(s) ☐ Soil/Water Chemical Analyses ☐ Other ☐ 5: to Manage Address ☐ Other ☐ 5: to Manage Address ☐ C-57 Licensed Water Well Contractor ☐ Canage Address ☐ C-57 Licensed Water Well Contractor ☐ Date Signed ☐ C-57 License Number			Attach	ments					Certificati	on Statement		1
Well Construction Diagram  Geophysical Log(s)  Soil/Water Chemical Analyses  Other  Attach additional information, if it exists  Name  Person, Firm or Corporation  CA  State  City  Ul/2/14  Date Signed  C-57 License Number		Seologic	_og		I, the	undersigned	, oertify tha				he best of m	y knowledge and belief
Soil/Water Chemical Analyses  Other 5: to Man Address  Signed C-57 Licensed Water Well Contractor  Attach additional information, if it exists  Signed C-57 Licensed Water Well Contractor  Date Signed C-57 License Number					Nam	eltit	1 2046	( ) (	Mina	1.		,
Attach additional information, if it exists  Signed  C-57 Licensed Water Well Contractor  City  State  11/12/14  State  C-57 License Number  C-57 License Number								112 F	_ <u>~~`</u> `			95770
Attach additional information, if it exists.  C-57 License Water Well Contractor  Date Signed C-57 License Number					Signe		Address		and confidence of the second of the	1/12/1	y State	\$ 88a
	Attach additi	onal informa				C-57 Lice	nsed Water W	Contractor		Date Signe	ed C-57 Li	



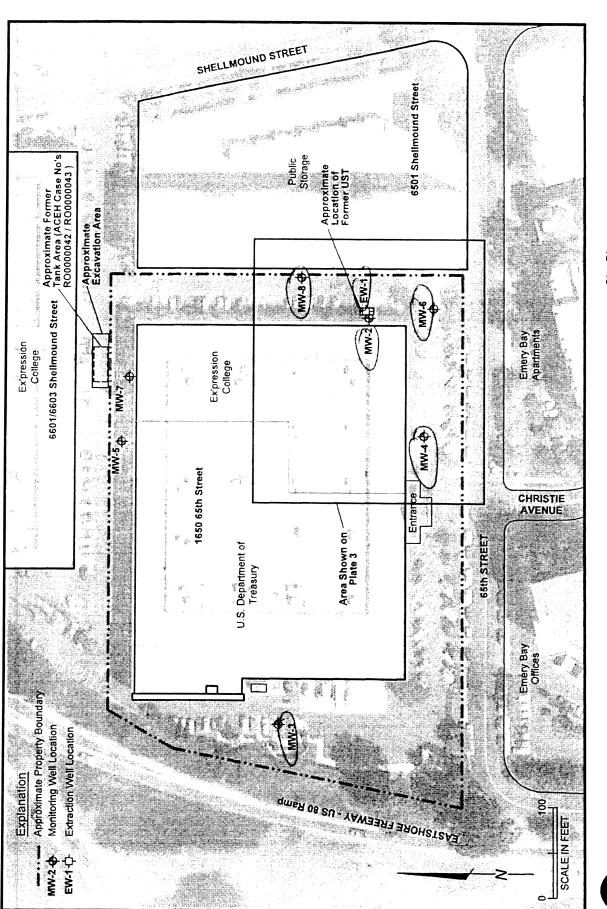


CLIENT LOCATION JOB NUMBER GEOLOGIST/ENGINEER DRILL RIG

P.O. Partners Emeryville, California 131.0100.005 Brian Smith Mobile Drill B-53 DIAMETER OF HOLE TOTAL DEPTH OF HOLE TOP OF CASING ELEVATION DATE STARTED DATE COMPLETED

9 inches 26 feet bgs 0 feet bgs 9/22/94 9/22/94

A-2b



Emeryville, California 1650 65th Street Site Plan

2

PLATE

5/13 DATE

JOB NUMBER

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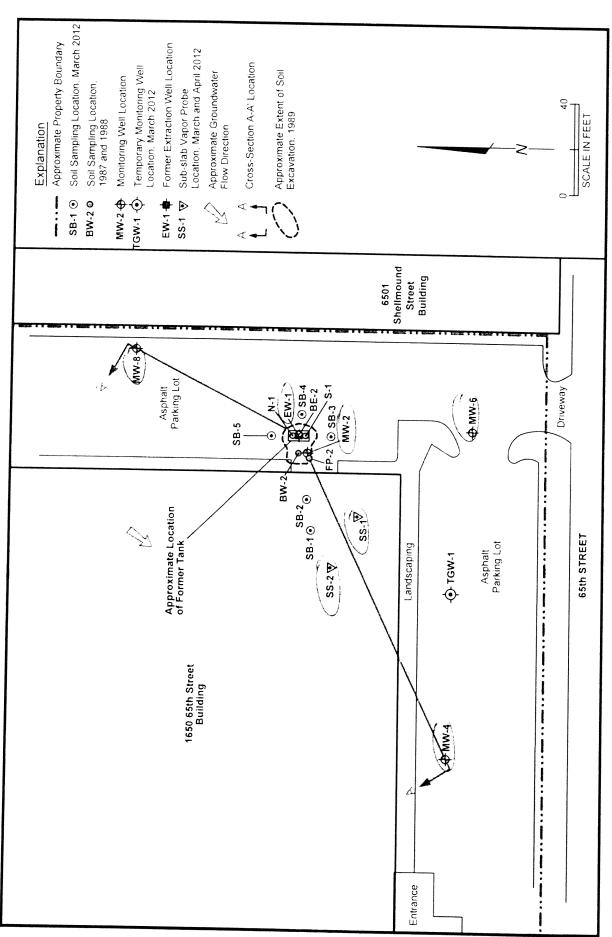
Engineering & Environmental Services PES Environmental, Inc.

DRAFT

DRAWING NUMBER

1211 001 03,001

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Page of		1	Well Co	mpleti	on Rep	ort				
Owner's Well Number		<u> </u>	No	· xxxxxx	Pamphlet <b>(</b>		S	tate Well Nu	umber/Site	
Date Work Began	11/3/14	Date Work	Ended	1/3/14			Latitud	e N	السنسا	Longitude
Local Permit Agency Permit Number	Alam			W31	Ks Age	ney		A 534 (	T50(0)	
Permit Number w &			11/.5/14		- <del></del>	L			TRS/Other	
Orientation 🚳 🗎	Geole Vertical O Ho	ogic Log orizontal OAng	alo Cossi	£.,	┨├──		<u> </u>	II Owner		
Drilling Method		Drillin			11	Griffin	7	7	peration	
Depth from Surface		Descriptio	n				1520 G			
Feet to Feet	Des	scribe material, grain s	ize, color, etc		City	<b>ĕ</b> €1	Segundo	Sta	ate <u>C4</u>	Zip <u>90245</u>
	5.1	1		ſ	1			Locatio		
	Sich vapo	filled wi			Address		650 65			A
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☐ Geologic Log☐ Well Constructi	on Dia	I, the t	indersigned	certify that	t this report	is complete	e and accurate	to the best	of my kn	owledge and belief
Geophysical Lo		7_7	Person, F	irm or Corpora	ition of		, 1,		a	(77)
☐ Soil/Water Che	mical Analyses	1 = 2	A	Address	OF.		<u>Journal</u>		A L	5776
☑ Other <u>S. +</u> e		Signed			-11.0			114_	101	0899
Attach additional information, if	IL EXISTS. 1		Lice	nsed Water W	en Contractor	Miles control or property and the second	Date S	ighed C	-57 Licens	se Number





Detail Map with Cross Section Location Emeryville, California 1650 65th Street

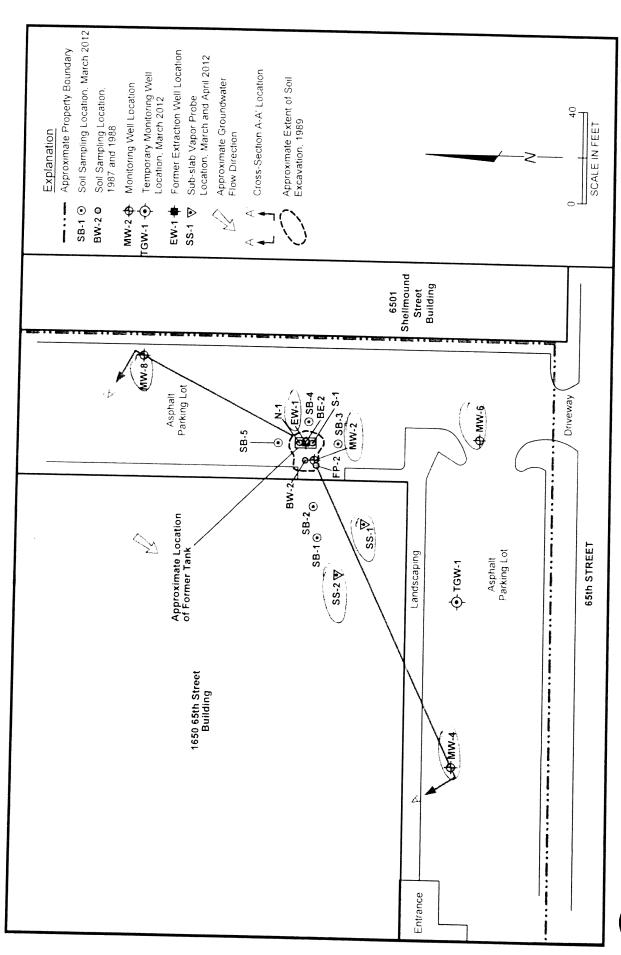
PLATE

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*The free Adobe File Original wit	Reader may be used to	view and complete this I	form. However, software n		mplete, save, and re	euse a saveo	form.		
			State of Ca Well Complet			DWR Use C	only – Do Not Fill In		
Page /	of/	. 2	Refer to Instructio	n Pamphlet		State Mell M	umber/Site Number		
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				and attach a mar	Illustrate or describe distance of well from roads, buildings, fences rivers, etc. and attach a map. Use additional paper if necessary Please be accurate and complete.  Other				
				Water Level an	d Yield of Com	pleted W	ell		
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Total Depth of E	Poring	į.		Water Level	(Fe	et) Date I	Measured		
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	Attachments			Certificat	ion Statement				
☐ Geologic	Log struction Diagram	l, the υ Name	undersigned, certify that	this report is comple	te and accurate to	o the best	of my knowledge and belief		
☐ Geophysi	ical Log(s)	70	Persen Firm or Corporation						
☐ Soil/Wate	r Chemical Analyses	1 2	Address						
Other tach additional inform	Site Map	Signed	C-57 Lipensed Water We	Il Contractor	11/12/	14	70(0899		
VR 188 REV. 1/2006		IF ADDIT	TIONAL SPACE IS NEEDED. U		Date Sid	gned C-5	7 License Number		





Detail Map with Cross Section Location Emeryville, California 1650 65th Street

PLATE

DRAFT REVIEWED BY

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