

5900 Hollis Street, Suite A Emeryville, California 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170 www.CRAworld.com

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				TRA	NS	MITT	AL	
DATE:	August 19, 2013				Reference No. Project Name			240594 610 Market Street, Oakland
	0: Jerry Wickham Alameda County Environmental He 1131 Harbor Bay Parkway, Suite 250						R	<b>ECEIVED</b> Alameda County Environmental Health at 3:14 pm, Aug 22, 2013
	Alamed	la, Califo	ornia 94502-65	77			_	
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	any qu		× ×					, please call the CRA project manager vin Katz at (310) 550-5846.
Copy to: Marvin Katz, Shell Oil Products US (electronic copy) Roger Schmidt (adjacent property owner), 1224 Contra Costa Drive, El Cerrito, CA 94530 Virgina R. Rawson, Trust (property owner), 1860 Tice Creek Drive #1353, Walnut Creek, CA 94952								
		Oaklaı	nd, CA 94607		curr II			LC (property owner), 610 Market Street,
Completed	by: <u>I</u>	eter Sch	aefer			Signed	:	eter Scharfen
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#### Shell Oil Products US

Soil and Groundwater Focus Delivery Group 20945 S. Wilmington Avenue Carson, CA 90810 Tel (310) 550 5846 Fax (281) 582 4172 Email marvin.katz@shell.com Internet http://www.shell.com

Mr. Jerry Wickham Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re:

610 Market Street Oakland, California SAP Code 135692 Incident No. 98995750 ACEH Case No. RO0000493

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (310) 550-5846 with any questions or concerns.

Sincerely, Shell Oil Products US

Marvin Kats

Marvin Katz Senior Program Manager

# WELL DESTRUCTION WORK PLAN

SHELL-BRANDED SERVICE STATION 610 MARKET STREET OAKLAND, CALIFORNIA

SAP CODE	135692
INCIDENT NO.	98995750
AGENCY NO.	RO0000493

Prepared by: Conestoga-Rovers & Associates

5900 Hollis Street, Suite A Emeryville, California U.S.A. 94608

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FIGURE 2 SITE PLAN

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APPENDIX A

WELL LOGS

#### 1.0 **INTRODUCTION**

Conestoga-Rovers & Associates (CRA) prepared this work plan on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell). The proposed well destructions are required for final case closure per Alameda County Environmental Health's (ACEH's) August 7, 2013 letter.

The site is an active Shell-branded service station located on the east side of Market Street between 6<sup>th</sup> and 7<sup>th</sup> Streets in a mixed commercial and residential area of Oakland, California (Figure 1). The site layout includes a station kiosk, three gasoline underground storage tanks, two dispenser islands, and a car wash (Figure 2).

#### 2.0 WORK TASKS

#### 2.1 <u>PERMITS</u>

CRA will obtain an appropriate well destruction permit from Alameda County Public Works Agency and an encroachment permit from City of Oakland.

#### 2.2 HEALTH AND SITE SAFETY PLAN (HASP)

CRA will prepare a HASP to protect site workers. The plan will be kept on site during field activities and will be reviewed and signed by each site worker.

#### 2.3 <u>UTILITY CLEARANCE</u>

CRA will mark the well locations, and the locations will be cleared through Underground Service Alert and a private line locator prior to removing the well boxes.

#### 2.4 MONITORING WELL DESTRUCTION

CRA proposes to properly destroy eight groundwater monitoring wells (MW-1 through MW-8) by backfilling with neat cement under pressure (pressure grouting). The well vaults will be removed, and the surface pavement will be patched with concrete to match the surrounding grade. CRA includes the well logs in Appendix A. The

proposed scope of work will be performed under the supervision of a professional geologist or engineer.

#### 2.5 <u>REPORT PREPARATION</u>

Following completion of the well destructions, CRA will submit a brief report documenting the activities.

#### 3.0 <u>SCHEDULE</u>

CRA will implement the well destructions upon receipt of the appropriate permits.

All of Which is Respectfully Submitted, CONESTOGA-ROVERS & ASSOCIATES

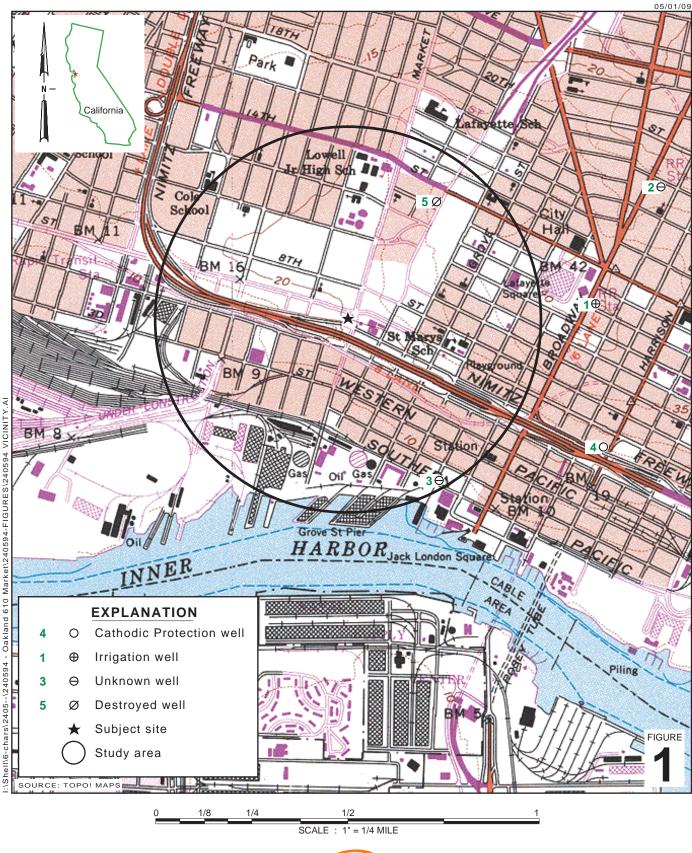
Peter Schaefer, CEG, CHG-

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Aubrey K. Cool, PG



### FIGURES

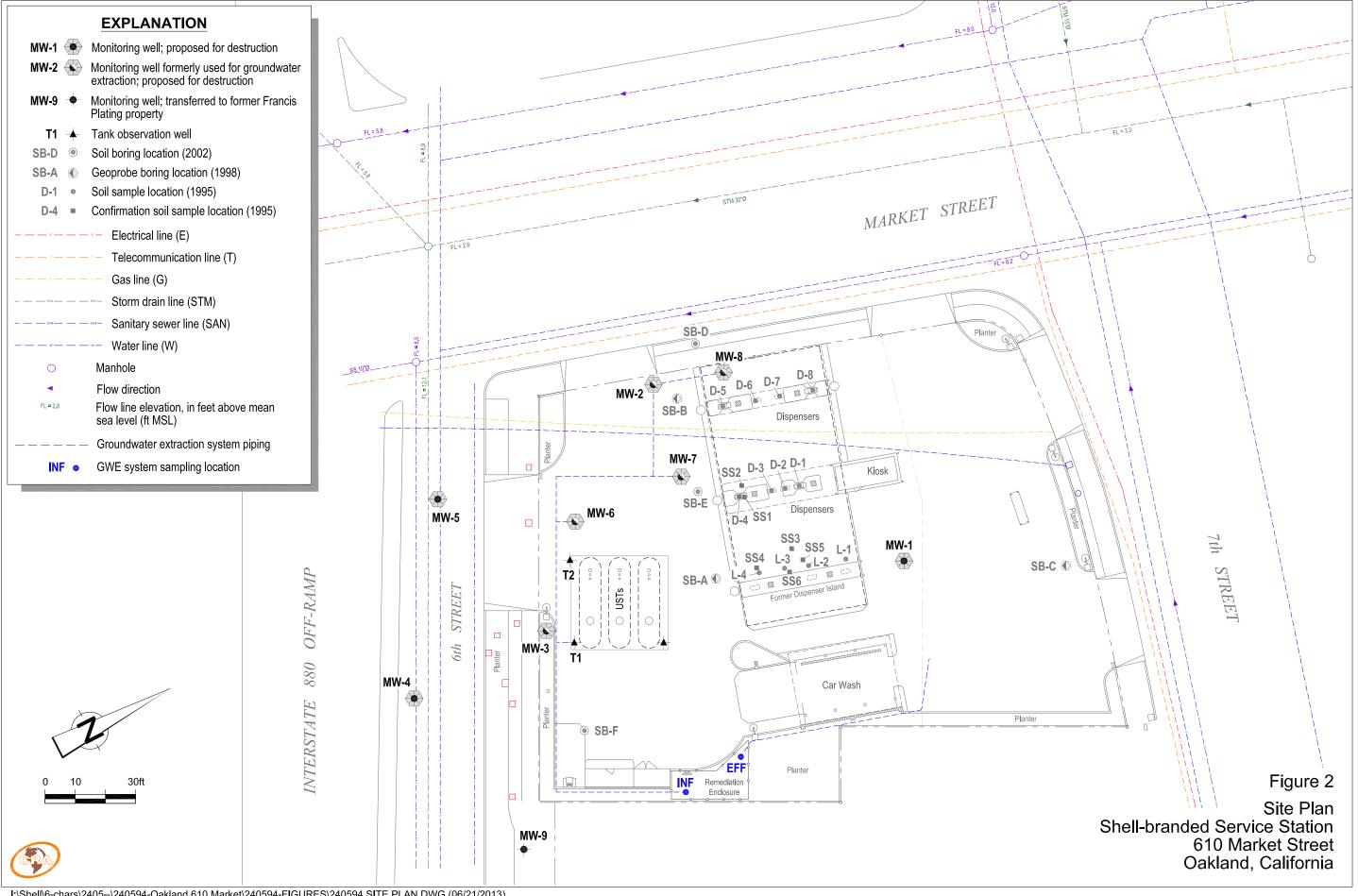


Shell-branded Service Station 610 Market Street

Oakland, California



Vicinity Map



I:\Shell\6-chars\2405--\240594-Oakland 610 Market\240594-FIGURES\240594 SITE PLAN.DWG (06/21/2013)

### APPENDIX A

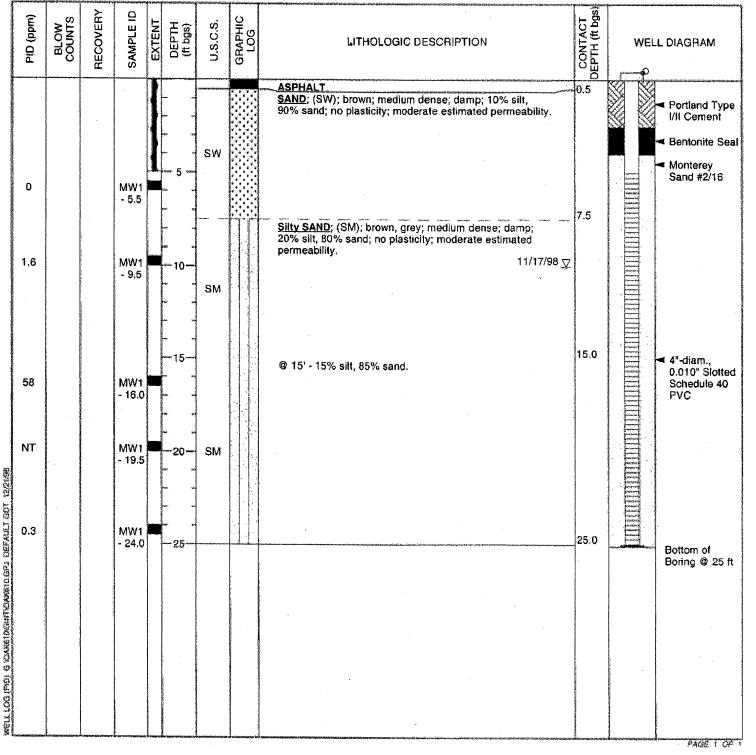
#### WELL LOGS



Combria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170

# **BORING/WELL LOG**

CLIENT NAME	Equilon Enterprises LLC	BORING/WELL NAME MW-1
JOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED 17-Nov-98
LOCATION	610 Market, Oakland CA	DRILLING COMPLETED 17-Nov-98
PROJECT NUMBER	240-0594	
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION 21.70 ft
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION NA
BORING DIAMETER	10.25"	SCREENED INTERVAL 5 to 25 ft bas
LOGGED BY	B. Busch	DEPTH TO WATER (First Encountered) 10.0 ft (17-Nov-98)
REVIEWED BY	MANNA GRADINATION IN THE COMPANY OF THE AND THE AND THE ADDRESS OF THE ADDRESS OF THE ADDRESS OF THE ADDRESS OF	DEPTH TO WATER (Static) NA
REMARKS	Hand augered to 5' bgs.	



Cambria Environmental Technology, Inc. **BORING/WELL LOG** 1144 - 65th St. Oakland, CA 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170 **CLIENT NAME** Equilon Enterprises LLC BORING/WELL NAME MW-2 JOB/SITE NAME Shell-Branded Service Station DRILLING STARTED 17-New-98 LOCATION 610 Market, Oakland CA DRILLING COMPLETED 17-Nov-98 **PROJECT NUMBER** 240-0594 WELL DEVELOPMENT DATE (YIELD) NA DAILLER Gregg Drilling 19.61 ft **GROUND SURFACE ELEVATION** DRILLING METHOD Hollow-stem auger TOP OF CASING ELEVATION NA 10.25\* BORING DIAMETER SCREENED INTERVAL 5 to 20.5 ft bgs B. Busch LOGGED BY 10.0 ft (17-Nov-98) DEPTH TO WATER (First Encountered) REVIEWED BY **DEPTH TO WATER (Static)** NA REMARKS Hand augered to 5' bos. CONTACT (ft bgs) Q RECOVERY GRAPHIC LOG PID (ppm) U.S.C.S. DEPTH (ft bgs) SAMPLE EXTENT BLOW LITHOLOGIC DESCRIPTION WELL DIAGRAM ASPHALT. 0.5 SAND; (SW); brown to grey; loose; damp; 5% silt, 95% Portland Type sand; no plasticity; high estimated permeability. I/II Cement Bentonite Seal SW Monterey Sand #2/16 1.0 MW2 - 5,5 7.5 Silty SAND; (SM); grey; loose; moist; 15% silt, 85% fine grained sand; no plasticity; moderate estimated permeability. 11/17/98 🗸 11.0 MW2 ŞМ - 10.5 < 4"-diam., 0.010" Slotted Schedule 40 15.0 PVC 15 @ 15' - 15% silt, 85% fine to medium grained sand. 3.0 MW2 SM 15.5 17.5 SAND; (SW); brown; loose; wet; 10% silt, 90% sand; no plasticity; high estimated permeability. SW 1.0 MW2 20 20.5 19.5 Bottom of Boring @ 20.5 Ħ

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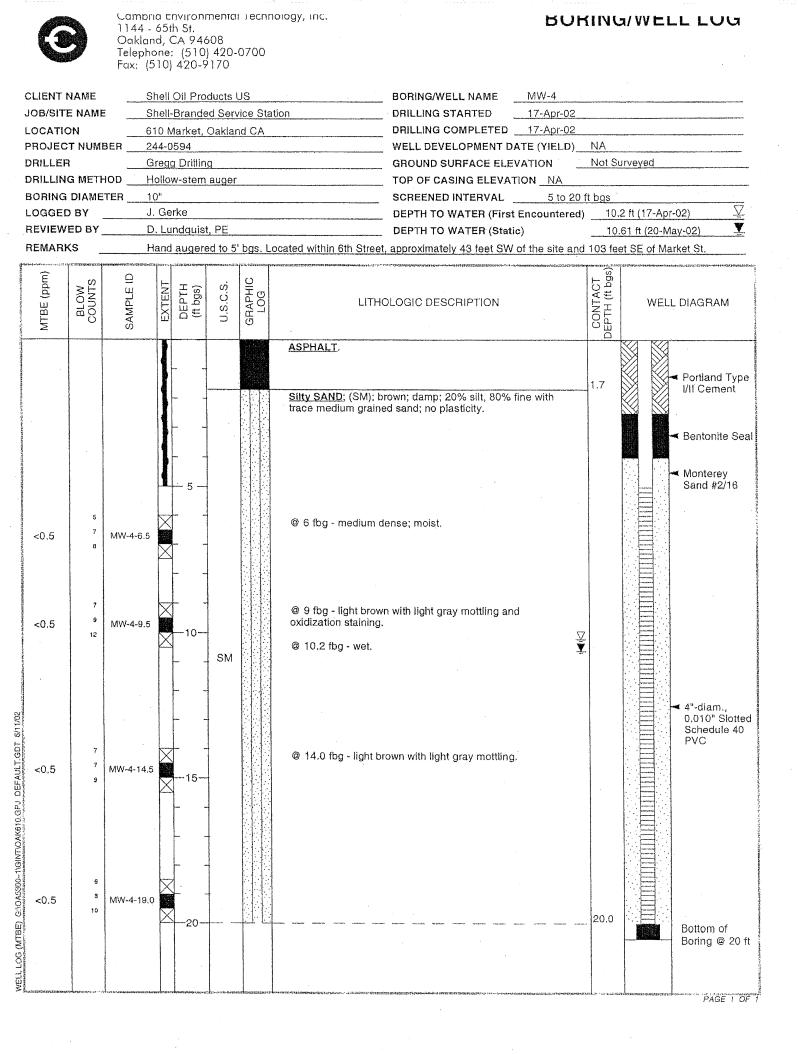
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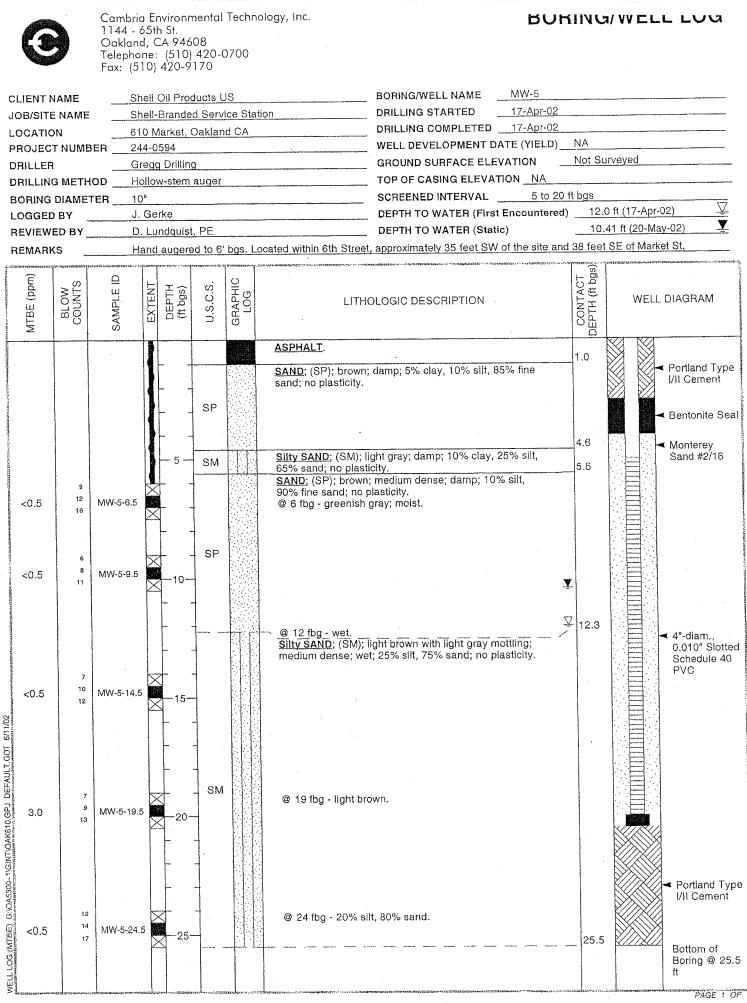
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Cambria Environmental Technology, Inc. **BORING/WELL LOG** 1144 - 65th St. Oakland, CA 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170 CLIENT NAME Equilon Enterprises LLC **BORING/WELL NAME** MW-3 **JOB/SITE NAME** Shell-Branded Service Station DRILLING STARTED 17-Nov-98 LOCATION DRILLING COMPLETED 17-Nov-98 610 Market, Oakland CA PROJECT NUMBER 240-0594 WELL DEVELOPMENT DATE (YIELD) NA DRILLER Gregg Drilling <u>19.05 ft</u> GROUND SURFACE ELEVATION DRILLING METHOD Hollow-stem auger TOP OF CASING ELEVATION NA BORING DIAMETER 10.25" SCREENED INTERVAL 5 to 20.5 ft bgs LOGGED BY B. Busch DEPTH TO WATER (First Encountered) 10.0 ft (17-Nov-98) REVIEWED BY DEPTH TO WATER (Static) NA REMARKS Hand augered to 5' bgs. CONTACT DEPTH (ft bgs) ۵ RECOVERY GRAPHIC LOG PID (ppm) BLOW DEPTH (ft bgs) EXTENT U.S.C.S. SAMPLE LITHOLOGIC DESCRIPTION WELL DIAGRAM 1.14.1 TOPSOIL 1.0 Portland Type Silty SAND; (SM); grey; loose; damp; 15% silt, 85% I/II Cement sand; no plasticity; moderate estimated permeability. **Bentonite Seal** Monterey Sand #2/16 12.0 MW3 - 5.5 SM 11/17/98 7 £ 204 мwз - 10.5 4"-diam., 0.010" Slotted Schedule 40 PVC 15.0 15 @ 15' - wet. 15.0 MW3 - 15.5 SM 17.0 20.0 MW3 -20 - 19.5 Bottom of Boring @ 20.5 ft

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WELL LOG (PRO) G. OAKBINDINTSAMBINDODI DEFAULT GOT 1221/WE





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CLIENT NAME

LOCATION

DRILLER

LOGGED BY

REMARKS

REVIEWED BY

JOB/SITE NAME

PROJECT NUMBER

DRILLING METHOD

BORING DIAMETER

Camplia chylronmenial rechnology, inc. 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170

Shell-Branded Service Station

Shell Oil Products US

244-0594

J. Gerke

10"

Gregg Drilling

Hollow-stem auger

M. Derby, PE# 55475

Hand augered to 5' bgs.

610 Market, Oakland CA

# BORING/WELL LOG

	BORING/WELL NAME	MW-6		
	DRILLING STARTED	15-Nov-02	,	
	DRILLING COMPLETED	15-Nov-02		
	WELL DEVELOPMENT DA	ATE (YIELD)	NA	
	GROUND SURFACE ELEN	ATION	Not Surveyed	
	TOP OF CASING ELEVAT	ION NA		
-	SCREENED INTERVAL	5 to 20.0	1 ft bgs	
	DEPTH TO WATER (First	Encountered)	15.0 ft (15-Nov-02)	Ţ
	DEPTH TO WATER (Statio	<b>z</b> )	NA	X

(mqq) 0 GRAPHIC CONTACT DEPTH (fbg) BLOW DEPTH (fbg) EXTENT U.S.C.S. SAMPLE LITHOLOGIC DESCRIPTION WELL DIAGRAM DID 6 0 CONCRETE 0.7 SAND; (SP); Brown; 5% Silt, 95% Sand. Portland Type I/II Cement Bentonite Seal MW-6-5.5 SP Brown with gray mottling. MW-6-10.5 Monterey
 Sand #2/16 4"-diam., 0.010" Slotted Schedule 40 ▽ 15.0 Silty SAND; (SM); Gray; 20% Silt, 80% Sand. PVC MW-6-SM 15.5 17.5 WELL LOG (PID) GAOAKLAND 610 MARKETIGNTTOAK610.0PJ DEFAULT.GDT 3/12/03 SAND; (SP); 5% Silt, 95% Sand. SP MW-6-20.0 19.0 20 Bottom of Boring @ 20 ft

PAGE 1 OF

3	5900 Hollis Emeryville,	(510) 420	еÅ	nology, Inc.	DRILLING STARTED       14-Nov-02         DRILLING COMPLETED       15-Nov-02         WELL DEVELOPMENT DATE (YIELD)       NA         GROUND SURFACE ELEVATION       Not Surveyed         TOP OF CASING ELEVATION       NA         SCREENED INTERVAL       5 to 20.01 ft bgs         DEPTH TO WATER (First Encountered)       15.0 ft (14-Nov-02)         DEPTH TO WATER (Static)       NA				
CLIENT NAME JOB/SITE NAME LOCATION PROJECT NUMBE DRILLER DRILLING METHO BORING DIAMETE LOGGED BY REVIEWED BY REMARKS	Shell- 610 M Grego DD Hollov ER 10" J. Ger M. De	1arket, Oakla 594 9 Drilling w-stem auger rke rky, PE# 554	vice Stand CA	ation					
PID (ppm) BLOW COUNTS	SAMPLE ID EXTENT	DEPTH (fbg) U.S.C.S.	GRAPHIC LOG	LITHC	DLOGIC DESCRIPTION		CONTACT DEPTH (fbg)	WE	LL DIAGRAM
31203	MW-7- 9.0 MW-7- 10.5 MW-7- 15.5 MW-7- 19.0	- 10		damp; 5% Clay, 15% Silty SAND; (SM); Br Sand. Silty SAND; (SM); Br	rayish brown to brown with 5 Silt, 80% Sand; tow plast rown; damp; 5% Clay, 15% rown with gray streaking; r 2; (SP); Gray; wet; 5% Silt,	icity. sSilt ,80% noist. ∑	0.6		<ul> <li>Portland Type I/II Cement</li> <li>Bentonite Sea</li> <li>Monterey Sand #2/16 4"-diam., 0.010" Slottec Schedule 40 PVC</li> <li>Bottom of Boring @ 20 ft</li> </ul>

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LOGGED BY			E6 BER2 GOD TER1 J	5hell- 10 N 44-0 Gregg Iollov 0" . Ger 1. De	farket, 594 9 Drillin w-stem rke	ed Ser Oaklaı g auger E# 554	vice Stand CA		DRILLING STARTED       14-Nov-02         DRILLING COMPLETED       14-Nov-02         WELL DEVELOPMENT DATE (YIELD)       NA         GROUND SURFACE ELEVATION       Not Surveyed         TOP OF CASING ELEVATION       NA         SCREENED INTERVAL       5 to 20.01 ft bgs					-02)
	PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHO	LOGIC DESCRIPTION	reproduction of the second	CONTACT DEPTH (fbg)	WE	LL DIAGRAM	-
WELL LOG (PID) G:004KLAND 619 MARKETIGINTIOAK619.GPJ DEFAULT.GDT 3/12/03			MW-8- 6 MW-8- 1 MW-8- 16 MW-8- 19.5		- 5	SM		Silt, 85% Sand. Silty SAND; (SM); gra 80%. Silty SAND; (SM); gra Sand.	ayish brown to gray; damj ayish brown; damp; SIIt 20 ay; moist to wet; 20% Silt ay; wet; 15% Silt, 85% Sar ;; (SP); Grayish brown; we	)%, Sand , 80% nd.	.0.6		<ul> <li>Portland Typ. I/II Cement</li> <li>Bentonite Se</li> <li>Sand #2/16 4"-diam., 0,010" Slotte Schedule 40 PVC</li> <li>Bottom of Boring @ 20 ft</li> </ul>	ed .

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