

5900 Hollis Street, Suite A Emeryville, California 94608 Telephone: (510) 420-0700

www.CRAworld.com

Fax: (510) 420-9170

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DATE:	Novem	ıber 1, 2011	REFERENCE NO.:	240548		
			Project Name:	11989 Dublin Boulevard, Dublin		
To:	Jerry W	ickham				
	Alamed	da County Environmenta	al Health	RECEIVED		
	1131 H	arbor Bay Parkway, Suit	e 25 0	10:47 am, Nov 02, 2011		
	Alamed	da, California 94502-6577	7 .	Alameda County		
·				Environmental Health		
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QUAN'	ГІТҮ		DESCRIPTI	ON		
1		Well Destruction Work	Plan			
	equested our Use		For Review and Comment			
COMMENT If you have (510) 420-2	e any qu	estions regarding the co	ntents of this document, J	olease call Peter Schaefer at		
Copy to:			roducts US (electronic con n Investment Properties, 1	by) LLC, 1809 Spumonte Place, Pleasanton,		
Complete		Cheryl Dizon, Zone 7 Wa Peter Schaefer [Please Print]	ter Agency, 100 North Ca	Anyons Parkway, Livermore, CA 94551		

Filing: Correspondence File



Denis L. Brown Shell Oil Products US

HSE – Environmental Services 20945 S. Wilmington Ave. Carson, CA 908101039 Tel (707) 865 0251 Fax (707) 865 2542 Email denis.1.brown@shell.com

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

Re:

Shell-branded Service Station

11989 Dublin Boulevard

Dublin, California SAP Code 135243 Incident No. 98995328 ACEH Case No. RO0000213

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.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown

Senior Program Manager



WELL DESTRUCTION WORK PLAN

SHELL-BRANDED SERVICE STATION 11989 DUBLIN BOULEVARD DUBLIN, CALIFORNIA

SAP CODE 135243 INCIDENT NO. 98995328 AGENCY NO. RO0000213

NOVEMBER 1, 2011 REF. NO. 240548 (2) This report is printed on recycled paper. Prepared by: Conestoga-Rovers & Associates

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VICINITY MAP

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) October 27, 2011 letter.

The site is a Shell-branded service station located on the southwestern corner of Dublin Boulevard and San Ramon Road in Dublin, California (Figure 1). Currently, the site layout consists of a station building, three underground storage tanks, and two dispenser islands (Figure 2).

2.0 WORK TASKS

2.1 PERMITS

CRA will obtain an appropriate drilling permit from Zone 7 Water Agency and an encroachment permit from the City of Dublin.

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 proposed drilling locations, and the locations will be cleared through Underground Service Alert and a private line locator prior to drilling.

2.4 MONITORING WELL DESTRUCTION

CRA proposes to properly destroy seven monitoring wells (MW-1 through MW-7). The wells will be destroyed by backfilling with neat cement under pressure (pressure grouting). The well vaults will be removed, and the surface pavement 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 SCHEDULE

CRA will implement the well destructions upon approval of this work plan by ACEH and receipt of appropriate permits. The work is tentatively scheduled for November 2011.

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

1610 SCACHG Peter Schaefer, CEGLCHG PETER L SCHAEFER TO NO. 5612

En a byete

Eric Syrstad, PG

FIGURES

Shell-branded Service Station

11989 Dublin Boulevard Dublin, California



Vicinity Map



APPENDIX A

WELL LOGS

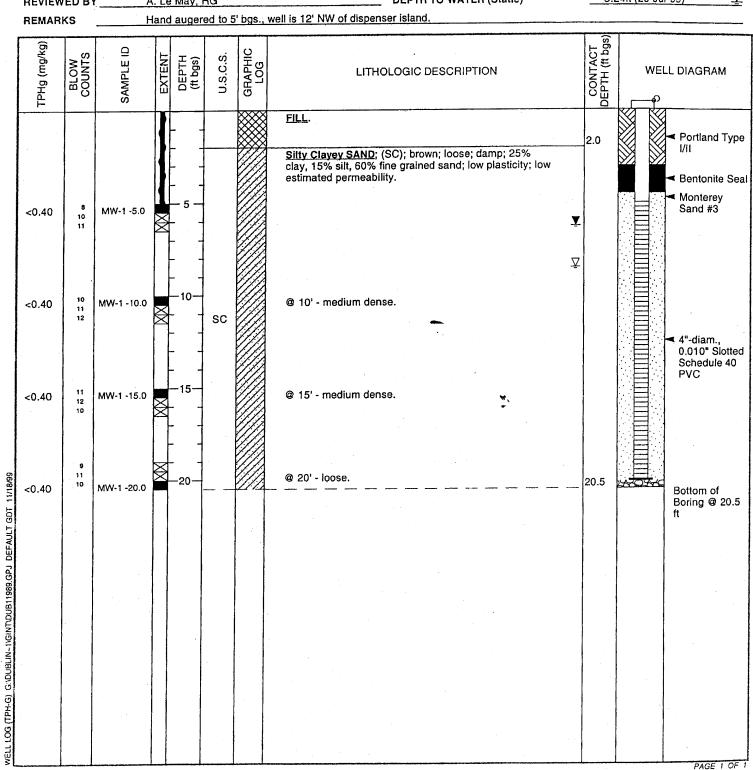
BORING/WELL LOG



Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608

Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME	Equilon Enterprises LLC	BORING/WELL NAME MW-1	
JOB/SITE NAME	Dublin-11989	DRILLING STARTED 09-Jun-99	
LOCATION	11989 Dublin Boulevard, Dublin CA	DRILLING COMPLETED 09-Jun-99	
PROJECT NUMBER	240-0548	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER _	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION Not Surve	eyed
BORING DIAMETER	10"	SCREENED INTERVAL 5 to 20 ft	bgs
LOGGED BY	J. Riggi	DEPTH TO WATER (First Encountered)	8.5 ft (09-Jun-99) <u>\frac{\sqrt{1}}{2}</u>
REVIEWED BY	A. Le May, RG	DEPTH TO WATER (Static)	6.24ft (20-Jul-99)
REMARKS	Hand augered to 5' bgs., well is 12' NW of dispens	er island.	



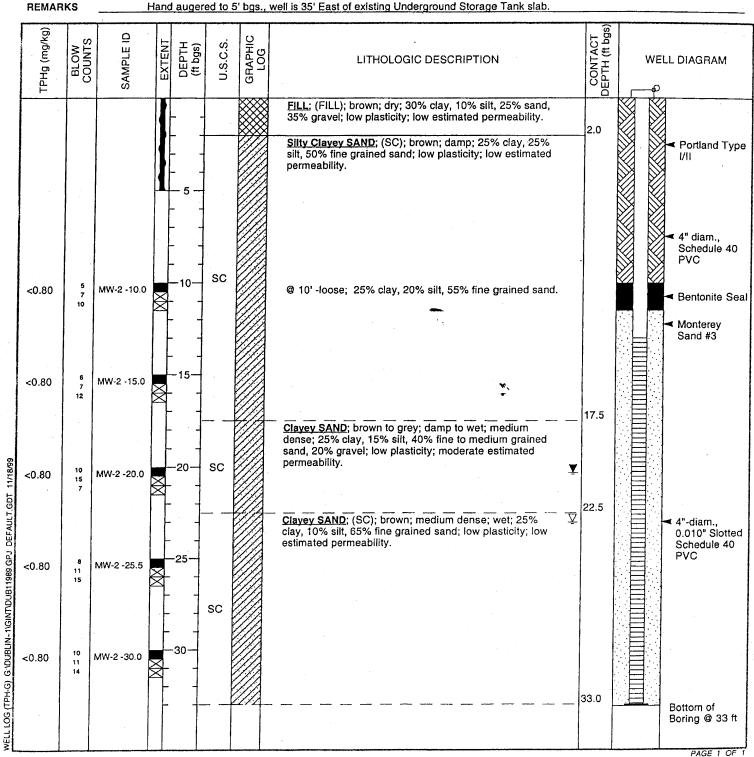
BORING/WELL LOG



Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608

Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME	Equilon Enterprises LLC	BORING/WELL NAMEMW-2		
JOB/SITE NAME	Dublin-11989	DRILLING STARTED 08-Jun-99		
LOCATION	11989 Dublin Boulevard, Dublin CA	DRILLING COMPLETED 08-Jun-99		
PROJECT NUMBER	240-0548	WELL DEVELOPMENT DATE (YIELD)	NA	
DRILLER _	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed	
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION Not Surve	eyed	
BORING DIAMETER	10"	SCREENED INTERVAL13 to 33 to	ft bgs	
LOGGED BY	J. Riggi	DEPTH TO WATER (First Encountered)	23.0 ft (08-Jun-99)	Ž
REVIEWED BY	A. Le May, RG	DEPTH TO WATER (Static)	20.31ft (20-Jul-99)	Ţ
DEMARKS	Hand augured to 5' has awall is 35' East of av	eting Underground Storage Tank slah		





Cambria Environmental Technology, Inc. 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	Dublin-11989	DRILLING STARTED 08-Jun-99		
LOCATION	11989 Dublin Boulevard, Dublin CA	DRILLING COMPLETED 08-Jun-99		
PROJECT NUMBER	240-0548	WELL DEVELOPMENT DATE (YIELD)	NA	
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed	
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION Not Surv	veyed	
BORING DIAMETER	10"	SCREENED INTERVAL 13 to 33	ft bgs	
LOGGED BY	J. Riggi	DEPTH TO WATER (First Encountered)	23.0 ft (08-Jun-99)	$\overline{\nabla}$
REVIEWED BY	A. Le May, RG	DEPTH TO WATER (Static)	24.23ft (20-Jul-99)	Y
		and statement of the st		

REMARKS Hand augered to 5' bgs. Well is located in SE corner of station CONTACT DEPTH (ft bgs) TPHg (mg/kg) SAMPLE ID GRAPHIC LOG BLOW EXTENT U.S.C.S. DEPTH (ft bgs) **WELL DIAGRAM** LITHOLOGIC DESCRIPTION FILL. 2.0 Clavey SAND; (SC); brown; damp; 25% clay, 10% silt, Portland Type 65% fine to medium grained sand; low plasticity; low estimated permeability. 4" diam., Schedule 40 PVC @ 10' -medium dense. <0.80 MW-3 -10.0 Bentonite Seal Monterey Sand #3 MW-3 -15.0 @ 15' -loose. <0.80 sc WELL LOG (TPH-G) G:\DUBLIN-1\GINT\DUB11989.GPJ DEFAULT.GDT 11/18/99 MW-3 -20 0 @ 20' -medium dense. <0.80 Ā 4"-diam., 0.010" Slotted Ţ Schedule 40 **PVC** @ 25' -wet. MW-3 -25.0 4.1 MW-3 -30.0 1.39 33.0 Bottom of Boring @ 33 ft PAGE 1 OF 1



BORING/WELL LOG

Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME _	MW-4						
JOB/SITE NAME	Shell-branded service station	DRILLING STARTED	DRILLING STARTED 26-Jul-01						
LOCATION	11989 Dublin Boulevard, Dublin CA	DRILLING COMPLETED _	D 26-Jul-01						
PROJECT NUMBER	243-0548	WELL DEVELOPMENT DA	WELL DEVELOPMENT DATE (YIELD) NA						
DRILLER _	Gregg Drilling	GROUND SURFACE ELEV	GROUND SURFACE ELEVATION						
DRILLING METHOD _	Hollow-stem auger	TOP OF CASING ELEVATI	TOP OF CASING ELEVATION 364.01 ft above msl						
BORING DIAMETER	8"	SCREENED INTERVAL	20 to 34	.9 ft bgs					
LOGGED BY	S. Couch	DEPTH TO WATER (First E	ncountered)	24.0 ft (26-Jul-01)	Ţ				
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static)	DEPTH TO WATER (Static) 26						
DEMARKS	Hand augorod to 5' bas: located on east side	of San Ramon Rd approximately	80' couth of S	an Ramon/Dublin intersection	on				

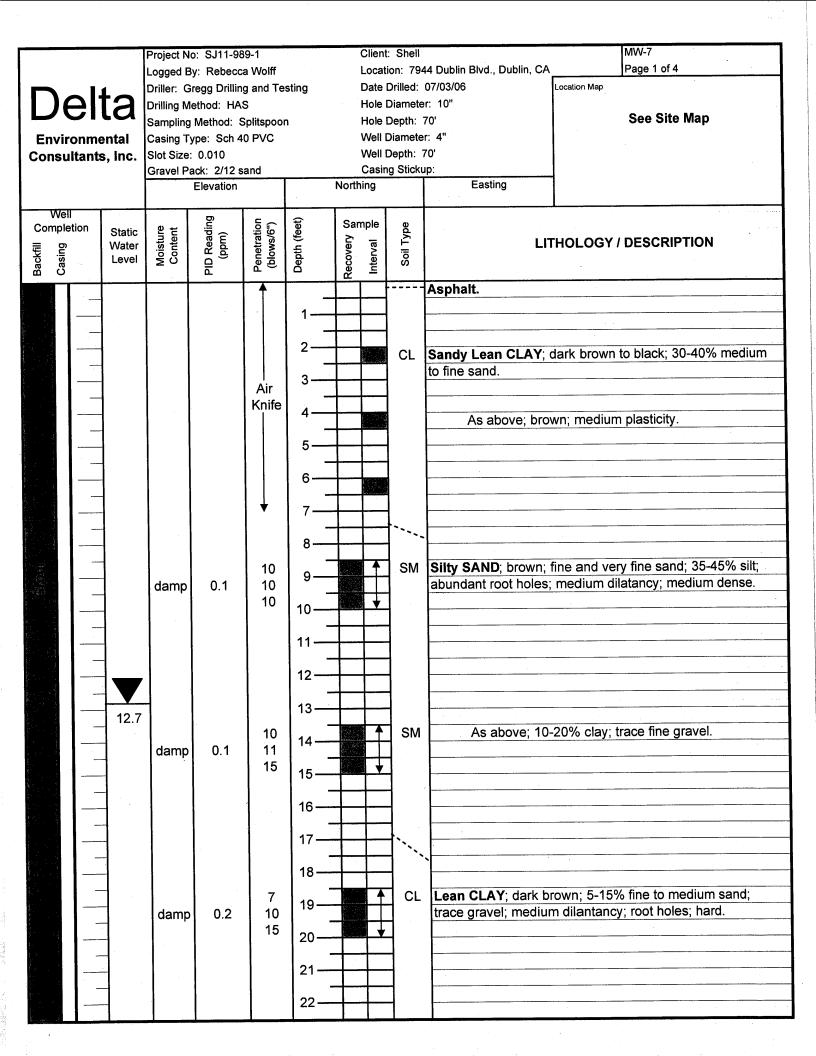
Hand augered to 5' bgs; located on east side of San Ramon Rd approximately 80' south of San Hamon/Dublin intersection CONTACT DEPTH (ft bgs) TPHg (ppm) GRAPHIC LOG SAMPLE ID BLOW EXTENT U.S.C.S. DEPTH (ft bgs) LITHOLOGIC DESCRIPTION WELL DIAGRAM 0.3 FILL; grayish brown; 5% silt, 80% fine to medium sand, 15% medium subangular to subrounded gravel; no plasticity; dry. 4.5 Clayey SILT; brown; 30% clay, 50% silt, 20% fine to medium sand; medium plasticity; dry. Portland Type @10 ft bgs - 35% clay, 50% silt, 10% fine sand, 5% fine ML subrounded gravel. @ 15 ft bgs - 45% clay, 50% silt, 5% sand. ■ Bentonite Seal 17.5 Silty CLAY; brown; 50% clay, 45% silt, 5% fine sand; medium plasticity; moist. Monterey Sand #2/12 WELL LOG (SHELL) G:IDUBLIN-11GINTIDUB11989.GPJ DEFAULT.GDT 9/25/01 $\bar{\Delta}$ MW-4-25.5 Ť CL 4"-diam., 0.010" Slotted Schedule 40 PVC ${\bf @}$ 35 ft bgs - 65% clay, 30% silt, 5% fine sand; medium to high plasticity; wet. 35.0 Bottom of Boring @ 35 ft

	····	Project N	o:	SJ11-989	9-1	- (Client:		Shell Oil Products	JS	Well No: MW-5	
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_	14		- '	Gregg D	rilling	ı	Date Dri	illed:	12/19/2005	Location Map		
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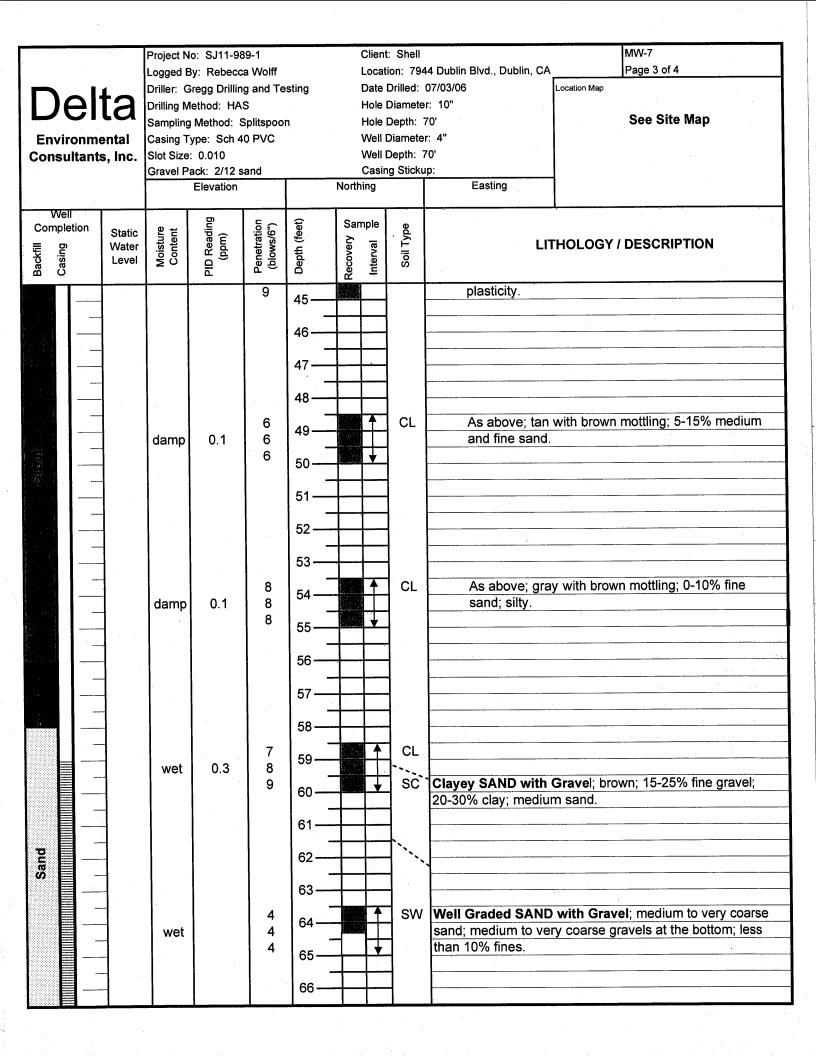
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i i	Static Water	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)		<u> </u>	Soil Type	דו ו	THOLOGY / DESCRIPTION
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_				_				CL	Lean CLAV medium	brown; medium to high plasticity;
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		moist		6				-	trace coarse grained	saliu.
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	1	1			28 -		+	-	Clavey Sand: gray: 2	25-35% clay; 65-75% fine poorly
	1			10				-	graded sand.	20-00 % clay, or 70 % into poorty
■ =		1 .		10	29-	1.0	ASS T	sc		brown: modium to high placticity:
▮	_	wet		11				-		brown; medium to high plasticity;
	<u> </u>	1 1		11	30-		_	CL	trace coarse grained	
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MW-7 Client: Shell Project No: SJ11-989-1 Page 2 of 4 Location: 7944 Dublin Blvd., Dublin, CA Logged By: Rebecca Wolff Location Map Driller: Gregg Drilling and Testing Date Drilled: 07/03/06 Delta Hole Diameter: 10" Drilling Method: HAS See Site Map Sampling Method: Splitspoon Hole Depth: 70' Casing Type: Sch 40 PVC Well Diameter: 4" Environmental Well Depth: 70' Slot Size: 0.010 Consultants, Inc. Casing Stickup: Gravel Pack: 2/12 sand Easting Elevation Northing Well PID Reading (ppm) Penetration (blows/6") Sample Depth (feet) Completion Moisture Content Soil Type Static Recovery Interval LITHOLOGY / DESCRIPTION Water Backfill Casing Level CL 23 As above; stiff; trace silt. 4 damp 0.1 5 6 25 26 27 28 damp/ 7 29 7 Sandy Lean CLAY; brown with gray mottling; 30-40% 477 moist medium sand; trace gravel; some root holes. 8 30 31 32 33 Clayey GRAVEL with SAND; brown with gray fine gravel; 15-25% coarse sand; 20-30% clay. GC 5 7 5.5 wet/ Lean CLAY; tan with gray mottling; 30-40% medium sand; CL moist 8 35 trace gravel; some root holes. 36 37. 38 As above; 0-10% medium sand; caliche; no mottling. CL 5 damp 0.7 5 8 40 42 As above; dark brown; 0-10% medium sand; trace 9 CL gravels; no caliche; some root holes; stiff; medium 0.2 9 damp



Del Environme Consultants	[a	Logged E Driller: G Drilling M Sampling Casing T Slot Size	ack: 2/12 s Elevation	a Wolff g and Te S Splitspoor 0 PVC and	n :		Locat Date Hole Hole Well I Well I Casir		70' :r: 4" 70'	MW-7 Page 4 of 4 Location Map See Site Map
Backfill Casing uoiseld	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery S	Interval add	Soil Type	LIT	THOLOGY / DESCRIPTION
Sand		wet		12 18 21	67 —— 68 —— 69 —— 70 ——		A	sw	As above. Bottom of Boring at	t 70 feet
					71—— 72—— 73—— 74——					
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					87 — - 88 —					