



February 3, 2016

Ms. Karel Detterman Hazardous Materials Specialist Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

# Re: Shallow Well Installation and Sampling Report Addendum Former Penske Truck Leasing Facility 725 Julie Ann Way, Oakland, California Alameda County Site ID R00000354 Stantec PN: 185702640.200.0003

Dear Ms. Detterman:

Enclosed with this cover letter is the Shallow Well Installation and Sampling Report Addendum for the above-referenced former Penske Truck Leasing location.

As an authorized representative of Penske Truck Leasing Co, LP, I offer the following statement:

I, Chris Hawk, declare, under penalty of perjury, that the information and/or recommendations contained in the enclosed Report are true and correct to the best of my knowledge

Should you have any questions, please contact me at 610-775-6123.

Best Regards

Chris Hawk Environmental Engineer

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Stantec Consulting Services Inc. 1340 Treat Boulevard, Suite 300, Walnut Creek CA 94597-7966

February 3, 2016 File: 185702858.200.0003

Ms. Karel Detterman Hazardous Materials Specialist Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

# Reference: Shallow Well Installation and Sampling Report Addendum Former Penske Truck Leasing Facility 725 Julie Ann Way, Oakland, California Alameda County Site ID RO0000354

Dear Ms. Detterman:

Stantec Consulting Services Inc. (Stantec), on behalf of Penske Truck Leasing Company (Penske), has prepared this Shallow Well Installation and Sampling Report Addendum (Addendum) for the Former Penske Truck Leasing Facility (the Site) located at 725 Julie Ann Way in Oakland, California (see Figure 1). This Addendum was prepared in response the Alameda County Environmental Health Services (ACEHS) December 23, 2015 electronic mail (email) to Christopher Hawk at Penske. The December 23, 2015 email requested submittal of an Addendum to Stantec's November 13, 2015 Shallow Well Installation and Sampling Report (Report) to facilitate completion of their review and appropriateness of recommendations. The six items requested in the email are copied below and Stantec's response is indented and italicized below each item.

1. Groundwater Sample Collection: A summary table with information verifying the time of sample collection relative to the water level in the Flood Control Channel, and the times of high and low tides on July 24, 2015 (date of sampling of MW-9, MW-10, MW-11, and MW-12) and January 15, 2015 (date of sampling of SB-9, SB-10, SB-11, SB-12, SB-13, and SB-14).

Table 3 (attached) presents a summary of sample collection times relative to the time of high and low tides on January 15, 2015, and July 24, 2015. On January 15, 2015, sample collection times ranged from 1.6 hours prior to low tide at SB-14 to 4 minutes after low tide at SB-9. On July 24, 2015 sample collection times ranged from 1.1 hours to 4.6 hours after low tide. The time required for sample collection on July 24, 2015 was prolonged due to the slow recharge rate and the relatively large volume of water required to fill the required laboratory analytical bottles. Measurement of the water level in the Flood Control Channel was not part of the approved work plan but water was only observed in the base of the channel at approximately 8 feet below the ground surface of the Site.

2. Soil Sample Analysis: Rationale why soil samples collected on July 23, 2015 from soil borings for MW-9, MW-10, MW-11, and MW-12 were analyzed for gasoline-range organics (GRO), VOC, SVOCs, but not for Diesel-range organics (DRO).

### Design with community in mind



## Reference: Shallow Well Installation and Sampling Report Addendum Former Penske Truck Leasing Facility 725 Julie Ann Way, Oakland, California Alameda County Site ID RO0000354

The groundwater investigation was conducted in accordance with Stantec's November 20, 2014, Data Gap Investigation Work Plan (Work Plan), approved by the ACEHS in a letter dated December 5, 2014. The Work Plan did not require collection of soil samples; however, Penske agreed with Stantec's recommended option to analyze soil samples to collect data which could potentially be used in the event that a risk assessment was necessary in the future. Collection of the soil samples during boring advancement was an incremental cost less than a second field effort to collect soil data after groundwater results were evaluated. The evaluation of risk is primarily driven by individual chemical constituents profiled in the volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis. TPHg was added to the analytical suite to provide additional screening for volatile components.

**3.** Total Dissolved Solids (TDS): Please discuss the significance of TDS levels in the groundwater samples collected from SB-9, SB-10, SB-11, SB-12, SB-13, SB-14, MW-9, MW-10, MW-11, and MW-12 with respect to the type of water the TDS levels are indicative of (fresh or salt water).

Total dissolved solids (TDS) analysis was only performed on the groundwater samples collected in July 2015 due to the limited amount of water which could be collected from the temporary borehole in January 2015. TDS values reported for groundwater samples from MW-9 through MW-12 ranged from 1,430 mg/L to 1,730 mg/L. The United Stated Environmental Protection Agency (U.S. EPA) has established a secondary water quality standard of 500 mg/L to provide for the palatability of drinking water. The California Department of Public Health (CDPH) has established TDS secondary maximum contaminant level (SMCL) drinking water standards for public water supplies. SMCLs are ranges set by CDPH for taste and odor thresholds: for TDS the recommended SMCL is 500 mg/L and the upper SMCL is 1,000 mg/L. The average TDS for seawater is 35,000 mg/L. As such the groundwater in monitoring wells MW-9 through MW-12 is considered slightly saline or brackish. Brackish water does not have an exact definition, but it is typically defined as distastefully salty but less saline than seawater with a TDS value between 1,000 to 10,000 mg/L.

4. Figure 4 Revision: Please revise Figure 4 of the Report to additionally include the groundwater analytical data from soil borings SB-9, SB-10, SB-11, SB-12, SB-13, and SB-14.

An updated Figure 4 with analytical data from the January 2015 and July 2015 groundwater sampling events is attached.

5. Tables 1 and 2 Revisions: Please revise Tables 1 and 2 of the Report to additionally include the soil analytical data from soil borings SB-9, SB-10, SB-11, SB-12, SB-13, and SB-14.

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## Reference: Shallow Well Installation and Sampling Report Addendum Former Penske Truck Leasing Facility 725 Julie Ann Way, Oakland, California Alameda County Site ID RO0000354

Soil sample analysis was not part of the approved Work Plan and as such soil analysis was not performed and Table 1 has not been updated. Table 2 (attached) has been updated to include the January and July 2015 analytical data.

6. Boring Logs Revision: Please revise boring logs MW-9, MW-10, MW-11, and MW-12 of the Report to show the depths of the soil samples and all PID readings.

Updated boring logs for MW-9, MW-10, MW-11, and MW-12 showing the depths of the soil samples and all PID readings are attached.

If you have any questions regarding this document, please contact the undersigned.

Regards,

# STANTEC CONSULTING SERVICES INC.

Eva

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Mail Doran

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cc: Mr. Christopher Hawk, Penske Truck Leasing, Reading PA

## List of Attachments

- Table 1 Soil Sample Analytical Results
- Table 2 Groundwater Sample Analytical Results
- Table 3 Groundwater Sample Time Relative to Tidal Data
- Figure 4 2015 Groundwater Sample Results
- Updated Boring Logs for MW-9 through MW-12

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# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

FORMER PENSKE TRUCK LEASING FACILITY

725 Julie Ann Way, Oakland, California

Sample Location	Sample Date	Sample Depth (ft bgs)	ТРНЭ	Acetone	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methyinaphthalene	Phenanthrene	Pyrene
MW-9	07/24/15	5.5	349	47.6	ND<64	ND<64	ND<64	ND<64	ND<64	68	ND<320	ND<320	ND<64	ND<320	ND<320	ND<320
MW-10	07/24/15	6.0	971	39.1	14.8	20.4	25.3	27.9	14.8	30.6	ND<64	154	21.8	366	247	ND<64
MW-11	07/24/15	4.5	23,100	ND<2100	36	ND<33	ND<33	ND<33	ND<33	53	ND<170	516	ND<33	ND<170	721	ND<170
MW-12	07/24/15	5.0	2,090	ND<33	47.1	22.4	31.7	14.1	23.1	61.2	44.3	110	13.7	ND<33	144	89.7
ESL	s - soil leach	ing	770,000	500	12,000	130,000	46,000	27,000	37,000	23,000	60,000	8,900	15,000	1,200*	11,000	85,000

Notes:

All results reported in micrograms per kilogram (µg/kg).

ft bgs - feet below ground surface

TPHg - Total Petroleum Hydrocarbons as gasoline

TDS Total Dissolved Solids

ND - Not detected at or above the laboratory detection limit

< - Indicates constituent not detected at or above specified reporting limit

- ESLs Regional Water Quality Control Board, San Francisco Bay Region, Environmental Screening Levels, Soil Leaching Screening Levels, Drinking Water Resource (Table G), presented in Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater December 2013).
  - \* ESL for naphthalene used for screening since not established for 1-Methylnaphthalene

Bold text indicates that the value exceeds the ESL.



# TABLE 2 GROUNDWATER SAMPLE ANALYTICAL RESULTS

FORMER PENSKE TRUCK LEASING FACILITY
725 Julie Ann Way, Oakland, California

Sample	Sample	Sample	TDS	TPHA	TPHa	Benzene	Toluono	Ethyl	Yylonos	Naphthalene	Acongohthono	Elucrono	1-Methyl-	Phononthrono	Byropo
Location	Date	(ft bgs)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Grab Groundy	water Sample f	rom Soil Bori	ng - Januar	y 2015											
SB-9	01/15/15	4.7			ND <200	ND <2.0	8.3	ND <2.0	ND <2.0	ND <8.0					
SB-10	01/15/15	5.5			ND < 710	ND <7.1	ND <7.1	ND <7.1	ND <7.1	ND <29					
SB-11	01/15/15	4.8			ND <170	ND <1.7	8.2	ND <1.7	ND <1.7	ND <6.7					
SB-12	01/15/15	4.6			1, <b>700<sup>(a)</sup></b>	ND <0.5	22	ND <0.5	ND <0.5	ND <2.0					
SB-13	01/15/15	4.5			<b>890</b> <sup>(a)</sup>	ND <0.5	6.3	ND <0.5	ND <0.5	ND <2.0					
SB-14	01/15/15	4.4			ND <200	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <8.0					
Groundwater	Sample from SI	hallow Moni	toring Well -	July 2015											
MW-9	07/24/15	5.1	1,520	382	ND <50	ND <1.0	ND <1.0	ND <1.0	ND <2.0	ND <0.51	ND <0.51	ND <0.51	2.7	ND <0.51	ND <0.51
MW-10	07/24/15	5.1	1,730	3,600	120	ND <1.0	ND <1.0	ND <1.0	ND <2.0	ND <0.51	1.0	4.2	8.2	3.0	ND <0.51
MW-11	07/24/15	4.8	1,430	622	ND <50	ND <1.0	ND <1.0	ND <1.0	ND <2.0	ND <0.48	0.76	2.1	2.0	0.97	ND <0.48
MW-11 Duplicate	07/24/15	4.8	1,340	624	51.5	ND <1.0	ND <1.0	ND <1.0	ND <2.0	ND <0.48	0.78	2.0	1.7	0.92	ND <0.48
MW-12	07/24/15	4.9	1,610	2,170	ND <50	ND <1.0	ND <1.0	ND <1.0	ND <2.0	ND <0.48	0.6	2.1	ND <0.48	1.2	ND <0.48
	•	ESLs	NE	640	500	46	40	30	100	21	20	3.9	NE	4.6	2.0

Notes:

mg/L - milligrams per liter

µg/L - micrograms per liter

ft bgs - feet below ground surface

TPHg - Total Petroleum Hydrocarbons as gasoline

TPHd - Total Petroleum Hydrocarbons as diesel

TDS Total Dissolved Solids

ESLs Regional Water Quality Control Board, San Francisco Bay Region, Environmental Screening Levels, Table F-2c, Surface Water Screening Levels, Estuary Habitats, (Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater December 2013.

ND < - Indicates constituent not detected at or above specified reporting limit

(a) - Sample exhibits chromatographic pattern that does not resemble standard.

-- Not analyzed

NE Not established

 $\ensuremath{\textbf{Bold}}$  text indicates that the value exceeds the ESL.



# TABLE 3 GROUNDWATER SAMPLE TIME RELATIVE TO TIDAL DATA

FORMER PENSKE TRUCK LEASING FACILITY 725 Julie Ann Way, Oakland, California

Sample Location	Sample Date	High Tide Time <sup>(1)</sup>	Low Tide Time <sup>(1)</sup>	Sample Collection Time								
Grab Groundw	Grab Groundwater Sample from Soil Boring - January 2015											
SB-9	01/15/15	0712	1416	1420								
SB-10	01/15/15	0712	1416	1410								
SB-11	01/15/15	0712	1416	1400								
SB-12	01/15/15	0712	1416	1350								
SB-13	01/15/15	0712	1416	1340								
SB-14	01/15/15	0712	1416	1320								
Groundwater	Sample from Sh	allow Monitori	ng Well - July 2	015								
MW-9	07/24/15	1907	1147	1420								
MW-10	07/24/15	1907	1147	1330								
MW-11	07/24/15	1907	1147	1240								
MW-11 Duplicate	07/24/15	1907	1147	1240								
MW-12	07/24/15	1907	1147	1210								

(1) NOAA Tide Predictions, Oakland Inner Harbor, California, 2015 Station ID: 9414764





#### **REFERENCE:**

UTILITIES BASED ON FIGURE PROVIDED BY NORCAL GEOPHYSICAL CONSULTANTS INC. PLATE 1; DECEMBER 2008; BY G. RANDALL; JOB # 008-903.05

ALL SITE FEATURES AND WELL LOCATIONS, EXCEPT THE FORMER USTS, SURVEYED BY MID COAST ENGINEERS FEBRUARY AND APRIL 2011 JOB#10018X DATED APRIL 27, 2011; TITLED "MONITORING WELL LOCATION MAP FOR PENSKE"

ALL GROUND SPOT ELEVATIONS AND SURFACE CONTOURS BY MID COAST ENGINEERS - FIGURE 1 TITLED "TOPOGRAPHIC MAP FOR PENSKE" JOB#10018TP DATED DECEMBER 4, 2014

SITE COORDINATE SYSTEM: CA STATE PLANE; ZONE III; NAD 83 VERTICLE DATUM; NAVD 88

FILEPATH:M:\PENSKE\PENSKE OAKLAND\2015\SEPTEMBER 2015\Penske-185702850\_MONITORING WELL SAMPLE RESULTS\_01-22-2016.dwg|saguinaldo|Jan 22, 2016 at 17:43|Layout: F4



<u>GEND:</u>	
u — —	UNDIFFERENTIATED NONMETALLIC UTILITY LINE
	UNDIFFERENTIATED METALLIC UTILITY LINE
x ——	FENCE
_ ] _ ]	APPROXIMATE EXTENT OF FORMER TANK EXCAVATION
СВ	CATCH BASIN
• SB-9	SOIL BORING LOCATION (2015)
Ð	EXISTING MONITORING WELL LOCATION
ð	ABANDONED MONITORING WELL LOCATION
•	SOIL BORING LOCATION (2009)
8	SOIL SAMPLE LOCATION (1989)
۲	SOIL BORING LOCATION (1990 & 1994)
•	SHALLOW WELL 2015 ( TD = 8 ft bas)

Analyte	Unit
TDS	(mg/L)
TPHd	(µg/L)
TPHg	(µg/L)
Benzene	(µg/L)
Toluene	(µg/L)
th <mark>yl Benzene</mark>	(µg/L)
Xylenes	(µg/L)
aphthalene	(µg/L)

# ABBREVIATIONS:

- ma/L = milliarams per liter
- µg/L = micrograms per liter
- ft bgs = feet below ground surface
- TPHd = Total Petroleum Hydrocarbons as diesel
- TPHg = Total Petroleum Hydrocarbons as gasoline
- ND = Not detected at or above the laboratory reporting limit
- < = Indicates constituent not detected at or above specified reporting limit</p>
- **BOLD** = Detected above laboratory reporting limit
- (a) = SAMPLE EXHIBITS CHROMATOGRAPHIC PATTERN THAT DOES NOT RESEMBLE STANDARD
- J = Estimated value
- 622/624 = Primary/Duplicate

- GROUNDWATER MONITORING WELL SAMPLES COLLECTED ON JULY 24, 2015.
- 2. GRAB GROUNDWATER SAMPLES COLLECTED FROM OPEN BORING ON JANUARY 15, 2015.

PROJEC	T: Per	iske (		HAND BORING NO:							
	ON: <b>72</b>		le Ann Way, Oakland, CA 185702858		MW-	.10		1 OF		<b>Stantec</b>	
	ATION.			NOR	THING (ft):		AGE	E	ASTIN	G (ft):	
STARTED	<b>7</b>	/23/15	COMPLETED: 7/23/15	LAT:				L	ONG:		
EXCAVA	TION C	OMPA	NY: Gregg Drilling & Testing, Inc.	GRO		): : 75					
EQUIPME	ENT: <b>H</b> a	and A	Auger	STAT	AL DTW (II). 5	5.1	WELL DEPTH (ft): <b>8.0</b>				
METHOD	Hand	d Aug	er	WEL	L CASING DIA	4. (in): <b>-</b>		B	OREH	OLE DIA. (in): <b>5</b>	
SAMPLIN	G EQU	IPME	NT: Auger Bucket	LOG	GED BY: CM		CHECKED BY:				
Time & Depth (feet)	Graphic Log	nscs	Description	Sample Measured Blow Count		Headspace PID (units)	Depth (feet)	Borehole Backfill			
			Asphalt							8" well box	
		SM	SILTY SAND WITH GRAVEL AND CLAY ; SM; 5Y 4/2 olive gray; fine-grained; dense; dry; fine to coarse angular broken sandstone gravel (fill) (10,55,30,5)					0	-	<ul> <li>Portland cement grout with 3-5% bentonite</li> <li>1" Sch. 40 Blank PVC casing</li> </ul>	
			Concrete						_	og og pellets,	
5		CL- ML	SILTY CLAY WITH SAND AND GRAVEL ; CL-ML; 5Y 3/1 very dark dark gray; medium plasticity; stiff; dry; (10,10,25,55) Bricks and pieces of concrete bricks Similar to above; wet, strong odor with hydrocarbon sheen					1	- ∑_5-	hydrated hydrated	
			ORGANIC CLAY ; OH; 5Y 2.5/1 black; high plasticity; soft; moist; peaty organics (0,0,0,100)         Borehole terminated at 8 feet.			0.25		33	-	Screen	

PROJEC	T: Per	ske (	Oakland	HAND BORING NO:								
	ON: 72		e Ann Way, Oakland, CA									
		BER:	105702050	NOR	THING (ft)		PAGE	E	ASTIN	G (ft):		
	<b>7</b>	23/15	5 COMPLETED: 7/23/15	LAT:	- ( -)			L	ONG:	- ( -)		
FYCAVAT			NY: Grega Drilling & Testing Inc	GROUND ELEV (ft): TOC ELEV (ft):								
		and A	lunor	INITIAL DTW (ft): Not Encountered WELL DEPTH (ft): 8.0								
	Hand		lor	WELL CASING DIA. (in): BOREHOLF DIA. (in): 5								
SAMPLIN	G FOU		NT: Auger Bucket	WELL CASING DIA. (III): BOREHOLE DIA. (III): 5								
					-	σ		e N	-			
Time & Depth (feet)	Graphic Log	nscs	Description	Sample	Time Sample	미 Measured Recov. (feet)	Blow Count	Headspac PID (units)	Depth (feet)		Borehole Backfill	
			Asphalt							(† <b></b> +)	8" well box	
		SM CL- ML	SILTY SAND WITH GRAVEL AND CLAY ; SM; 5Y 4/2 olive gray; fine-grained; dense; dry; fine to coarse angular broken sandstone gravel (fill) (10,55,30,5) SILTY CLAY WITH GRAVEL AND SAND ; CL-ML; 5Y 3/1 very dark dark gray; medium plasticity; stiff; dry; (10,10,25,55)	-				0	-		<ul> <li>Portland cement grout with 3-5% bentonite</li> <li>1" Sch. 40 Blank PVC casing</li> <li>Bentonite pellets, hydrated</li> </ul>	
5-		GM	SILTY GRAVEL WITH SAND AND CLAY ; GM; 5Y 2.5/1 black; fine to coarse-grained; dense; wet; angular rock and brick pieces, oily with strong odor (50,10,30,10) ORGANIC CLAY ; OH; 5Y 2.5/1 black; high plasticity; soft; moist; zones of peaty organics (0,0,0,100)			0.25		35	5-		#3 Sand 0.020"Slotted Screen	
			Borehole terminated at 8 feet.					0	-		−Bottom Cap	

PROJEC	T: Per	ske	Dakland	HAND BORING NO:								
LOCATIO	DN: 72	5 Juli	e Ann Way, Oakland, CA									
		BEK:	165702658	NOR	THING (ft) <sup>.</sup>	-12	PAGE	<u>1 OF</u>		G (ft) <sup>.</sup>		
	<b>7</b>	23/15	COMPLETED: 7/23/15	LAT:				L	ONG:			
			NY: Groad Drilling & Tosting Inc	GROUND ELEV (ft): TOC ELEV (ft):								
		and /	Augor	INITIAL DTW (ft): Not Encountered WELL DEPTH (ft): 8.0								
	Hanc		lor	STATIC DTW (ft): Not Encountered DEPTH (ft): 8.0								
			ut: Auger Bucket	WELL CASING DIA. (in): BOREHOLE DIA. (in): 5								
				1		7		<u>0</u>				
Time & Depth (feet)	Graphic Log	NSCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspac PID (units)	Depth (feet)	Borehole Backfill		
			Asphalt							8" well box		
		SM	SILTY SAND WITH GRAVEL AND CLAY ; SM; 5Y 4/2 olive gray; fine-grained; dense; dry; fine to coarse angular broken sandstone gravel (fill) (10,55,30,5)						-	<ul> <li>Portland cement grout with 3-5% bentonite</li> <li>1" Sch. 40 Blank PVC casing</li> </ul>		
5-		CL- ML	SILTY CLAY WITH SAND AND GRAVEL ; CL-ML; 5Y 3/1 very dark dark gray; medium plasticity; stiff; dry; (10,10,25,55)					0	-	Bentonite pellets, hydrated		
Ű				$\times$		0.25		20				
		GM	SILTY GRAVEL WITH SAND AND CLAY ; GM; 5Y 2.5/1 black; fine to coarse-grained; dense; wet; angular broken rock, HC sheen, moderate odor (50,10,30,10) ORGANIC CLAY ; OH; 5Y 2.5/1 black; high plasticity; soft; moist; zones of peaty organics (0,0,0,100) Borehole terminated at 8 feet.					3	-	- 0.020"Slotted Screen		

PROJEC	T: Per	ske	Oakland	HAND BORING NO:								
	ON: <b>72</b>	5 Juli	ie Ann Way, Oakland, CA 185702858									
		BER:	105702058	NOR	THING (ft):	V-J	PAGE	E	ASTIN	G (ft):		
STARTED	<b>7</b> /	23/15	5 COMPLETED: 7/23/15	LAT: LONG:						( )		
FXCAVA			NY Grega Drilling & Testing, Inc.	GROUND ELEV (ft): TOC ELEV (ft):								
EQUIPME		and A	Auger	INITIAL DTW (ft): 5.5 WELL DEPTH (ft): 8.0								
METHOD	Hand	Aug	ler	STATIC DTW ( $\pi$ ): <b>5.1</b> DEPTH (tt): <b>8.0</b> WELL CASING DIA. (in): BOREHOLE DIA. (in): <b>5</b>								
SAMPLIN	G EQU		NT: Auger Bucket	LOG	GED BY: CM			C	HECK	ED BY:		
	0			a		be .		ace				
me 8 eeth	aphi og	SCS	Description	du	Time	asur ecov	low	dsp6 PID	eet)	Borehole		
L'EQ.	5 U	Š		Sa	Sample ID	Rea F	шü	Head (u	Ğ₽	Backfill		
			Asphalt					<u> </u>		8" well bo	x	
		SM	SILTY SAND WITH GRAVEL AND CLAY :								~	
			SM; 5Y 4/2 olive gray; fine-grained; dense;									
			gravel (fill) (10,55,30,5)									
	-								-	Portland		
										with 3-5%	rout	
										bentonite		
								0				
	-								-	1" Sch. 40	b	
										Blank PV	C	
										casing		
		CL-	SILTY CLAY WITH GRAVEL AND SAND ;						-	bod bod pellets,		
		IVIL	plasticity; stiff; dry; (10,10,25,55)							hydrated		
								0	-			
5-									- 5-	#-#3 Sand		
									<b>*</b>			
									V			
	000	GM	SILTY GRAVEL WITH SAND AND CLAY ; GM: 5Y 2 5/1 black: fine to coarse-grained:	$\mathbf{X}$		0.25						
	Pape		dense; wet; angular broken rock								44 a d	
		OH	(50,10,30,10)						-	Screen	ttea	
			plasticity; soft; moist; peaty organics									
			(0,0,0,100)									
									-			
								0				
			Porcholo terminated at 9 feet						-	Bottom Ca	ар	
:												