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2:46 pm, Jan 12, 2009

Alameda County
Environmental Health

January 9, 2009

Paresh Khatri
Hazardous Materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Dear Mr. Khatri:

Subject: Groundwater-Monitoring Well Installation Plan Addendum

**Reference: Earthgrains Baking Companies, Inc.
955 Kennedy Street
Oakland, California 94606
RO #0002569**

On behalf of Earthgrains Baking Companies, Inc., PSC Industrial Outsourcing, LP (PSC) is submitting a *Groundwater-Monitoring Well Installation Plan Addendum* to the Alameda County Department of Environmental Health (ACDEH) for the above-referenced site. PSC prepared this plan addendum in response to a technical comment from the ACDEH in correspondence dated December 12, 2008. The technical comment from the ACDEH is presented below in italics and the PSC response and proposed modifications to the plan are presented following the comment.

Hydrogeologic Setting and Monitoring Well Installation - PSC proposes to install four 2-inch diameter groundwater monitoring wells at the site drilled to an approximate total depth of 25 to 30 feet below the ground surface (bgs) to intersect the well-graded gravelly sand and silty sand encountered at a depth of approximately 18 to 25 feet bgs with 10 feet of screen in the bottom. Static depth to groundwater at the site has been measured at approximately 10 bgs. A review of depth to groundwater data at nearby sites located within a mile north of the subject site verified that groundwater is encountered at shallow depths ranging from approximately 3 to 9 feet bgs. At a former LOP case located at 2100 Livingston Street in Oakland, groundwater was reported between 6.5 to 9.3 feet bgs. At another former LOP case located at 1441 Embarcadero, depth to groundwater ranged from 2.65 to 9.33 feet bgs in site groundwater monitoring wells screen to a maximum depth of 15 feet bgs. Therefore, the proposed depths of the site groundwater monitoring wells may not intersect the first water bearing zone, but rather a second water-bearing zone. Based on site soil and groundwater analytical data, it appears that the first and

second groundwater zones are impacted with petroleum hydrocarbons and that monitoring wells capable of sampling at discrete, distinct depths are appropriate. Please propose a scope of work to address the above-mentioned concerns and submit a work plan addendum due by the date specified below or sooner if possible.

The objective of installing the groundwater-monitoring and de-watering wells at the site is two-fold. Groundwater quality and the impact from the 2003 diesel release will be assessed in the vicinity of the former pump island located south of the truck wash building. The four groundwater-monitoring and one de-watering well will also provide geotechnical and hydrogeologic data to be used in the design and planning of contamination source removal by means of de-watering, excavation, and disposal. The rationale for the planned installation of each groundwater-monitoring well is discussed below. To clarify this discussion, PSC has numbered the proposed groundwater-monitoring wells at the site MW-101 through MW-104 and the de-watering well DW-1. The well locations and historic sampling locations referenced in this letter are shown on the attached revised Figure 7 from the Groundwater-Monitoring Well Installation Plan.

Shallow groundwater could be encountered at depths less than 10 feet bgs at the site in the vicinity of the former pump island and shared excavation of the diesel tanks. Groundwater encountered at these shallow depths could be surface water that has infiltrated the pavement cracks and perched in the granular backfill of these former excavations. This shallow groundwater could also be connected to water flowing in permeable natural deposits encountered at greater depths throughout the site. These natural deposits range from silty to gravelly sand and are typically encountered at approximately 18 feet bgs. The natural deposits are overlain by silt and clay and locally exhibit characteristics of confined groundwater. The potentiometric surface of previous groundwater-monitoring wells installed at the site screened in these deposits rose to less than 10 feet bgs.

PSC will install MW-101 near the former location of MW-1, which was installed following the 1992 unauthorized diesel release and properly abandoned in 1996. Silty clay and clayey silt encountered in this well boring to a depth of 18 feet bgs. The soil is described as having a damp moisture content, which is considered well below saturated levels. Gravelly sand was also encountered in this boring at 18 feet bgs and 10 feet of well screen was installed from 18 to 28 feet bgs. The potentiometric surface of groundwater in MW-1 was approximately 9 feet bgs. PSC will install the well screen in MW-101 based upon field observations, but anticipates that the screen interval will be approximately 18 to 28 feet bgs.

PSC will install MW-102 in the vicinity of soil borings E-30 and E-34 drilled in September 2006 and near former MW-2 installed in 1992. Soil encountered in MW-2 consisted of silt and clay to a depth of 20 feet bgs, where silty sand was encountered. The screen in this monitoring well was installed from 18 to 28 feet bgs and the potentiometric surface was approximately 9 feet bgs. Soil encountered in E-30 and E-34 also consisted of silt and clay to a total depth of 15 and 25 feet bgs, respectively. A one-foot thick layer of dry silty sand was encountered at 8 feet bgs in boring E-34, however groundwater was not encountered in the boring until 22 feet bgs in wet

sandy silt. PSC will install the well screen in MW-102 based upon field observations, but anticipates that the screen interval will be approximately 18 to 28 feet bgs.

PSC will install MW-103 near soil boring E32 drilled in September 2006. Soil encountered in this former boring included a silty sand interval at 12.5 feet bgs. Based upon the boring log, the silty sand appears to be a natural deposit at the site. However, boring E32 is located near a storm-water drain and the trench excavated for this drain could be a conduit for surface water infiltrating the silty sand interval. The soil boring was terminated at 15 feet bgs and the boring log indicated that the soil was becoming coarser grained near the bottom.

PSC proposes an addendum to the groundwater-monitoring well installation plan by installing a shallower well screen in MW-103. PSC will auger the soil boring for MW-103 to a depth of approximately 28 feet bgs, in order to assess deeper subsurface conditions in this area of the site. If coarse-grained material is logged for the full depth of the boring, then PSC will install 15 feet of screen from 12 to 27 feet bgs with a one-foot sump installed at the bottom of the well. If the interval of coarse-grained material is shorter, then PSC will install a 10-foot well screen interval from 12 to 22 feet bgs. If a second deeper interval of saturated coarse-grained material is encountered in the soil boring, then the bottom will be filled with bentonite and the screen will be installed to intercept the first observed permeable layer. The assessment of the potential deeper permeable layers will be conducted at a later date if required.

PSC will install MW-104 in the vicinity of borings E-39 and E-40 drilled in September 2006. Soil encountered in these former soil borings consisted of silt and clay. A 0.5-foot layer of dry silty sand was encountered at 5.5 feet bgs in E-40. Gravelly sand was encountered in E-39 at 22 feet bgs and a 1.5 -foot layer of silty and gravelly sand was encountered at 21 feet bgs in E-40. Groundwater was encountered at 22.5 and 18.25 feet bgs in these soil borings, respectively. Water levels rose to approximately 9.83 feet bgs in E-39 within one hour following drilling. PSC will install the well screen in MW-104 based upon field observations, but anticipates the screen interval will be approximately 18 to 28 feet bgs.


A modified pump test will be performed after the installation of the monitoring and de-watering wells to assess the potential hydraulic connection between the water in the former excavation and the deeper permeable layers. If the modified pump test indicates that groundwater encountered in the former shared diesel tank excavation is perched, then de-watering activities performed for the contamination source removal should be less complicated and costly. If PSC field observations indicate a shallow zone that is impacted and hydraulically connected to the former diesel tank excavation, then de-watering activities during the contamination source removal could become more challenging.

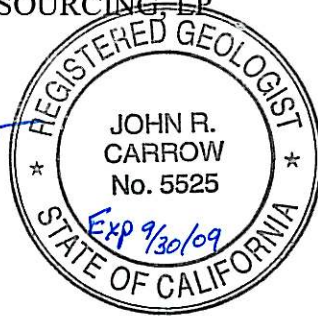
PSC understands the concerns of the ACDEH regarding two impacted permeable zones beneath the site. If two separate saturated permeable zones are encountered in the soil borings for the proposed groundwater-monitoring wells, then additional subsurface investigation could be required at the site. However, PSC will first assess the data collected during the monitoring-well installation activities and then discuss possible investigation data gaps at a later date.

PSC believes that the installation of groundwater-monitoring and de-watering wells as proposed in the Groundwater-Monitoring Well Installation Plan, dated November 18, 2008, and modified by this addendum will fulfill the current site investigation objectives. If you have any questions or comments regarding this plan addendum, then please contact me at (618) 281-1450 or (618) 792-2468.

Respectfully,

PSC INDUSTRIAL OUTSOURCING, LP


John R. Carrow, RG
Senior Project Manager

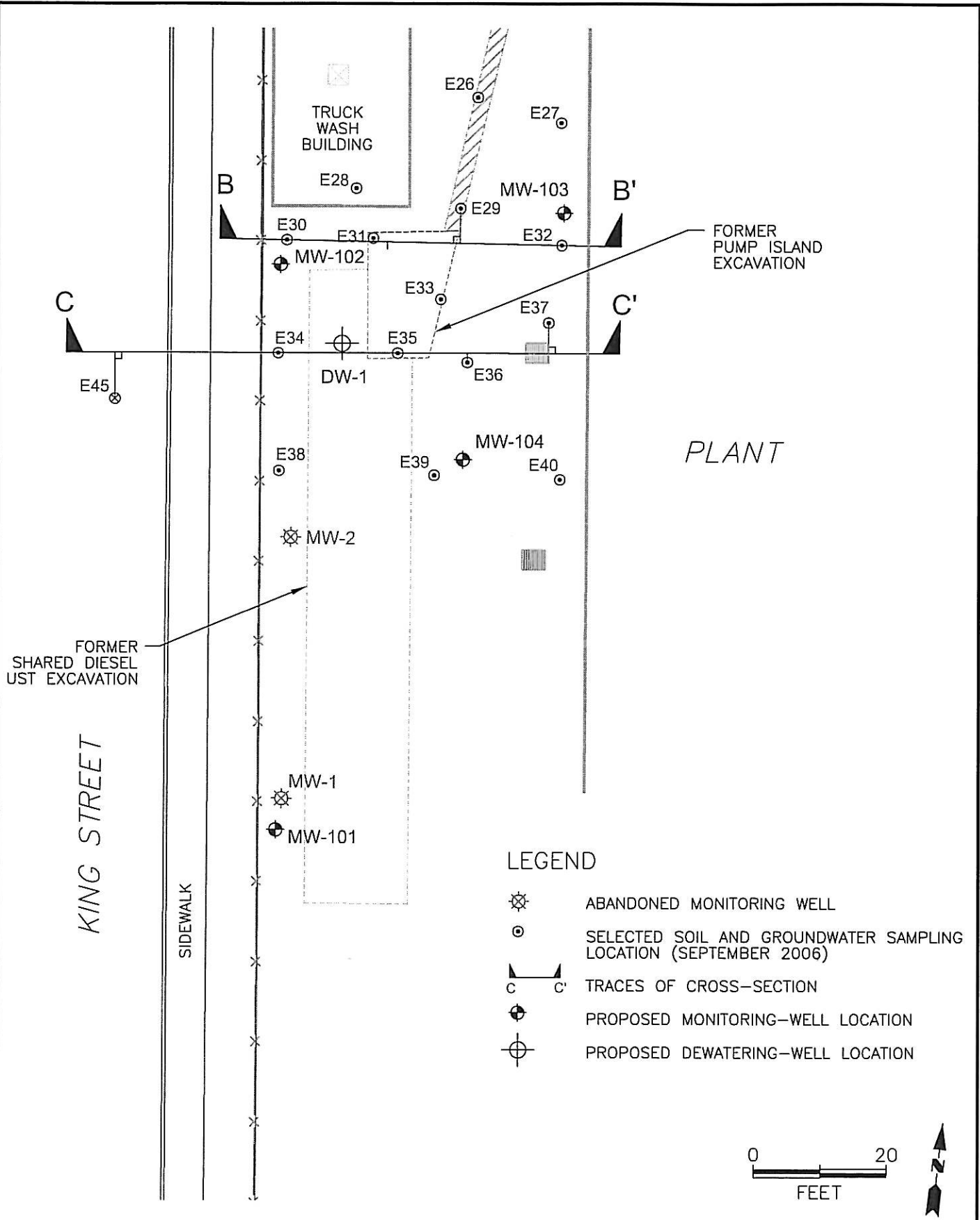


cc: Melvin Siegel - Earthgrains Baking Companies, Inc.
Priya Cooper – Sara Lee Bakery Group, Inc.

- Attachment 1 - Revised Figure 7 from the *Groundwater-Monitoring Well Installation Plan, PSC November 18, 2008*.
- Attachment 2 - Boring Logs and Well Construction Details for former groundwater-monitoring wells MW-1 and MW-2.
- Attachment 3 - Boring Logs for E-30, E-32, E-34, E-39, and E-40, from the *Soil and Groundwater Quality Investigation Report, ETIC December 2006*.

Attachment 1

Figure 7



COL 624\02797B-005



TITLE:
PROPOSED WELL LOCATIONS
955 KENNEDY STREET
OAKLAND, CALIFORNIA 94606

DWN: TMM	DES.: JRC
CHKD:	APPD:
DATE: 12/31/08	REV.: 0

PROJECT NO.: 62402797
EARTHGRAINS
OAKLAND, CALIFORNIA

FIGURE 7

Attachment 2

**Boring Logs and Well Construction Details
For MW-1 and MW-2**

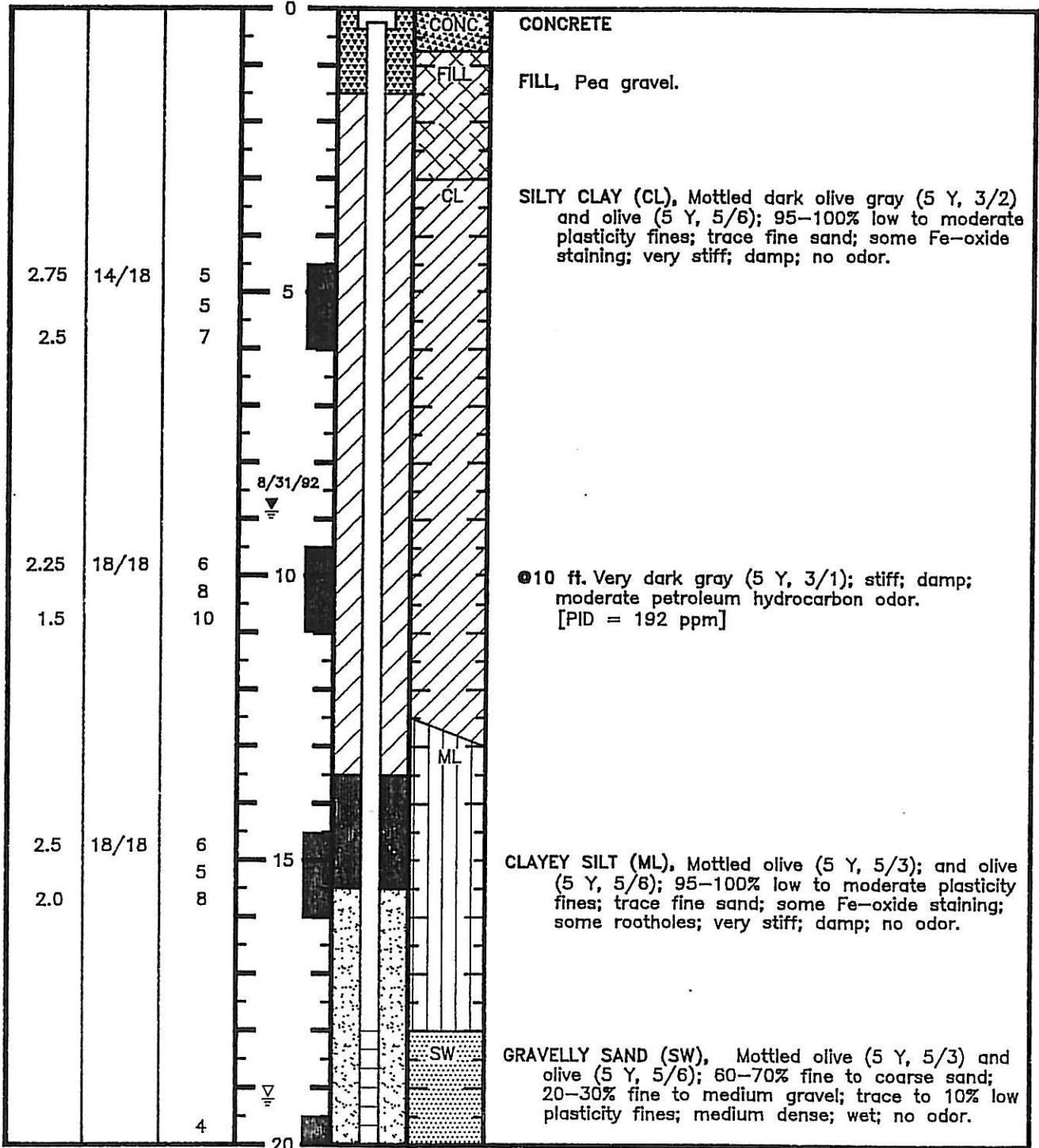


Project Number: CTI-106
Kilpatrick's Bakeries
955 Kennedy Street, Oakland, CA
 Drawing No.: A1041201 Page: 1 of 2

BORING LOG

MONITORING WELL No.: MW-1
 TOP OF CASING ELEV.: 99.34 ft.
 TOTAL BORING DEPTH: 31.00 ft.
 BY: K. Rahman DATE: 8/27/92

Pocket penetrometer TSF	Recovery (in/in)	Blow Count (blows /6")	Sample Depth (feet)	Well Detail	Stratigraphic Column	Description
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Notes: Boring drilled using eight-inch diameter hollow-stem augers. Soil samples collected at the above-noted intervals using a two-inch diameter modified-California split-spoon sampler. The 25 to 31 foot interval was backfilled with bentonite pellets. A groundwater monitoring well was installed using two-inch diameter schedule 40 polyvinyl chloride casing screened with 0.010-inch machine slot (see Well Detail). The well-head was surveyed to site datum.



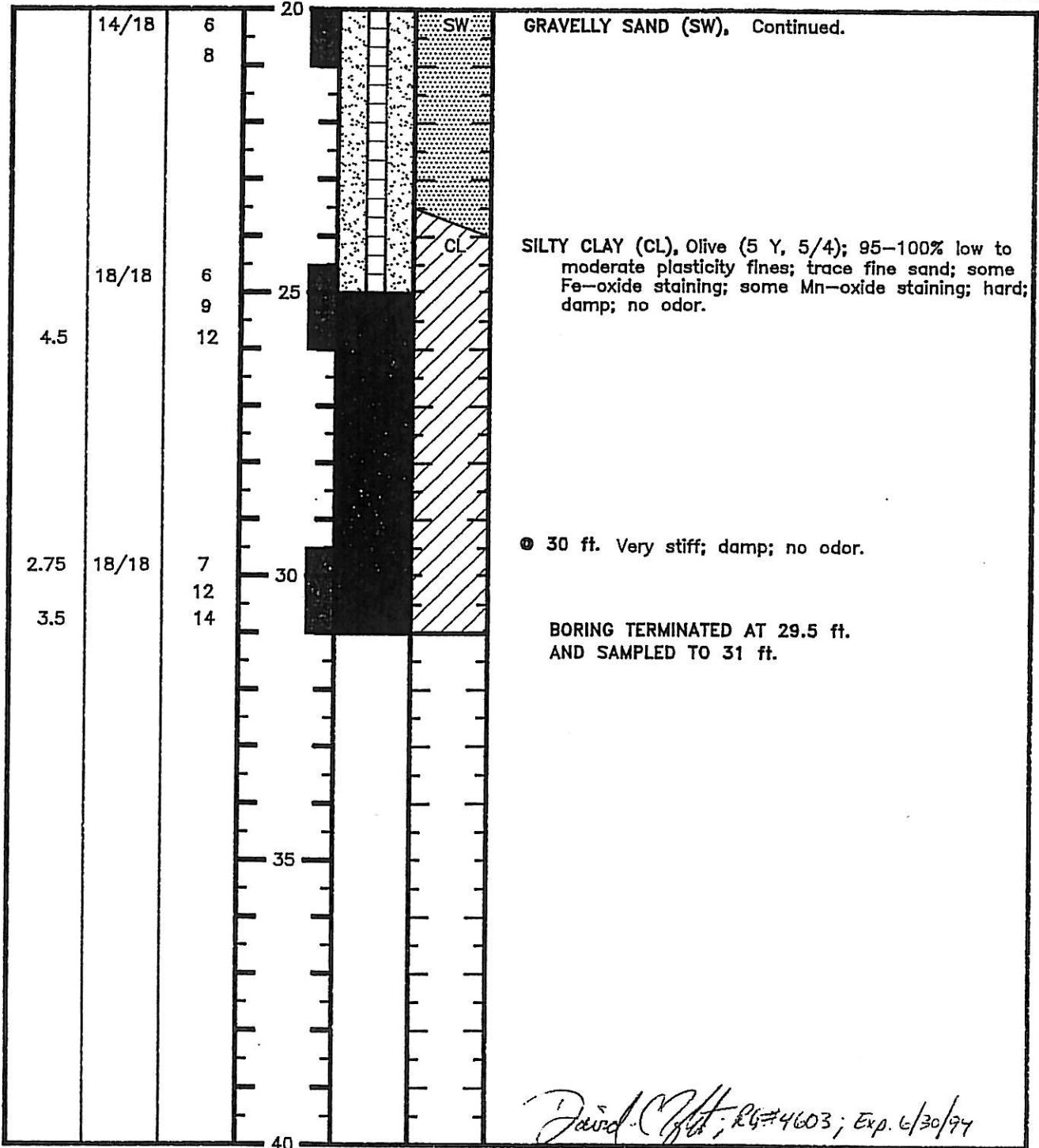
Project Number: CTI-106
 Kilpatrick's Bakeries
 955 Kennedy Street, Oakland, CA
 Drawing No.: A1041202

BORING LOG

MONITORING WELL No.: MW-1
 TOP OF CASING ELEV.: 99.34 ft.
 TOTAL BORING DEPTH: 31.00 ft.
 BY: K. Rahman DATE: 8/27/92

Page: 2 of 2

Pocket penetrometer TSF	Recovery (in/in)	Blow Count (blows /6")	Sample Depth (feet)	Well Detail	Stratigraphic Column	Description
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Notes: Boring drilled using eight-inch diameter hollow-stem augers. Soil samples collected at the above-noted intervals using a two-inch diameter modified-California split-spoon sampler. The 25 to 31 foot interval was backfilled with bentonite pellets. A groundwater monitoring well was installed using two-inch diameter schedule 40 polyvinyl chloride casing screened with 0.010-inch machine slot (see Well Detail). The well-head was surveyed to site datum.



BULLINGTON ENVIRONMENTAL, INC.

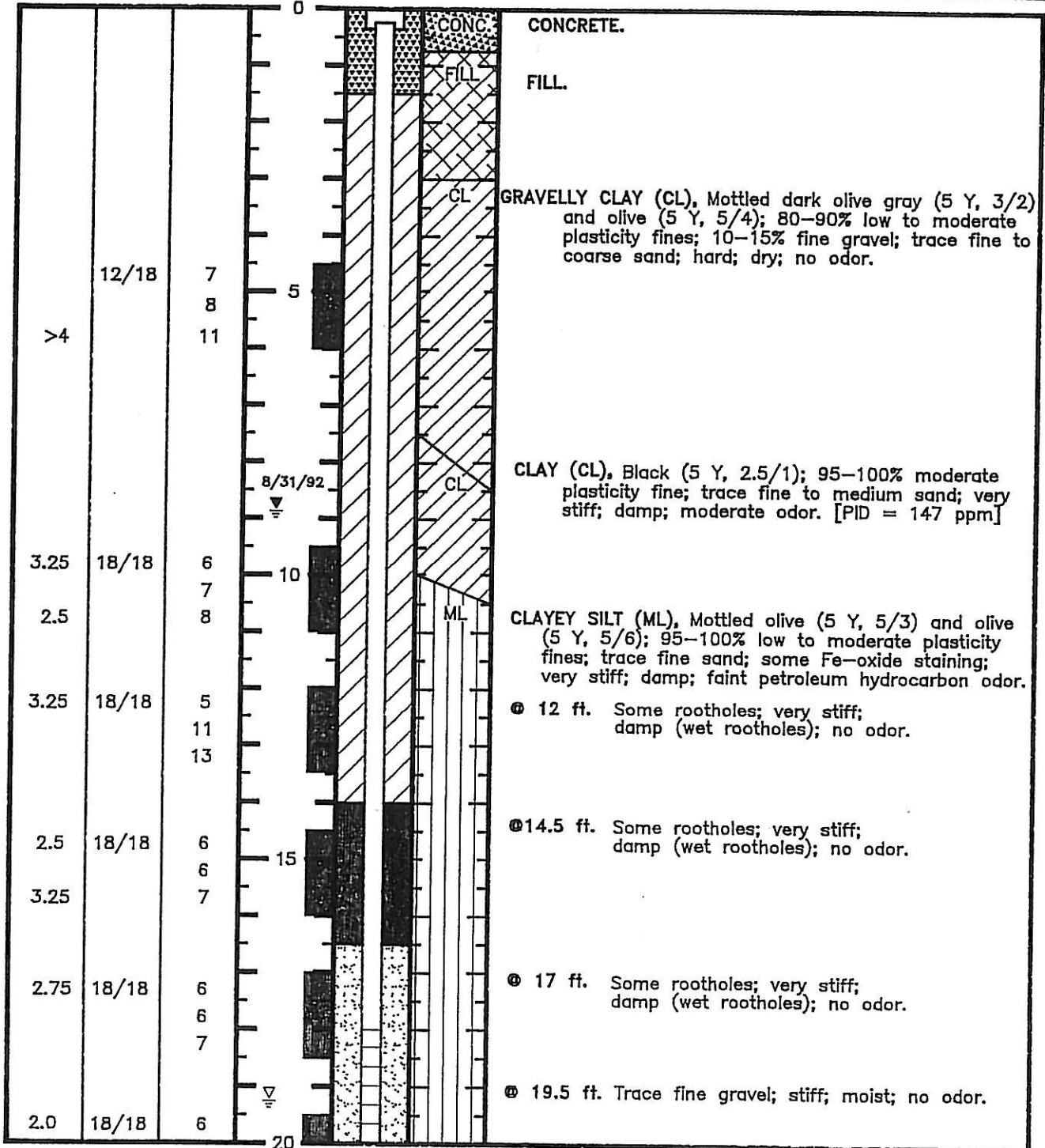
Project Number: CTI-106
Kilpatrick's Bakeries
955 Kennedy Street, Oakland, CA
Drawing No.: A1041203

BORING LOG

Page: 1 of 2

MONITORING WELL No.: MW-2
TOP OF CASING ELEV.: 99.90 ft.
TOTAL BORING DEPTH: 29.5 ft.
BY: K. Rahman DATE: 8/27/92

Packet pene-trometer TSF	Re-covery (in/in)	Blow Count (blows /6")	Sample Depth (feet)	Well Detail	Strati-graphic Column	Description
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Notes: Boring drilled using eight-inch diameter hollow-stem augers. Soil samples collected at the above-noted intervals using a two-inch diameter modified-California split-spoon sampler. A groundwater monitoring well was installed using two-inch diameter schedule 40 polyvinyl chloride casing screened with 0.010 inch machine slot (see Well Detail). The well-head was surveyed to site datum.



BURLINGTON ENVIRONMENTAL INC.

BORING LOG

Project Number: CTI-106
Kilpatrick's Bakeries
955 Kennedy Street, Oakland, CA
Drawing No.: A1041204

Page: 2 of 2

MONITORING WELL No.: MW-2
TOP OF CASING ELEV.: 99.90 ft.
TOTAL BORING DEPTH: 29.50 ft.
BY: K. Rahman DATE: 8/27/92

Pocket penetrometer TSF	Recovery (in/in)	Blow Count (blows /6")	Sample Depth (feet)	Well Detail	Stratigraphic Column	Description
		7	20		SM	SILTY SAND (SM), Mottled grayish brown (2.5 Y, 5/2) and light olive brown (2.5 Y, 5/6); 70-80% fine to coarse sand; 20-30% low plasticity fines; medium dense; wet; no odor.
		11				
-	18/18	10	25		GW	SANDY GRAVEL (GW), Mottled grayish brown (2.5 Y, 5/2) and light olive brown (2.5 Y, 5/6); 60-70% fine to medium gravel; 20-30% fine to coarse sand; trace to 10% low plasticity fines; some Fe-oxide staining; dense; wet; no odor.
		13				
		20				
		4				
		5				
2.5	18/18	4			CL	SILTY CLAY (CL), Olive (5 Y, 5/4); 95-100% low to moderate plasticity fines; trace fine sand; trace Fe-oxide staining; some Mn-oxide staining; very stiff; moist; no odor. BORING TERMINATED AT 29.5 ft.
		10				
		12				
			30			
			35			
			40			

David Q. Tyler; RG#4603; Exp. 6/30/94

Notes: Boring drilled using eight-inch diameter hollow-stem augers. Soil samples collected at the above-noted intervals using a two-inch diameter modified-California split-spoon sampler. A groundwater monitoring well was installed using two-inch diameter schedule 40 polyvinyl chloride casing screened with 0.010 inch machine slot (see Well Detail). The well-head was surveyed to site datum.

Attachment 3

**Boring Logs for
E-30, E-32, E-34, E-39, and E-40**



Engineering, Inc.

CLIENT PSC - Sara Lee	SITE NUMBER Oakland	LOCATION 955 Kennedy Street Oakland, CA 94606
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LOG OF SOIL BORING: **E30**

DRILLING AND SAMPLING METHODS	Hand-augered to 3 feet bgs. Core Clear Acetate Liners	Direct push 5410 Geoprobe with Macro
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COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

WATER LEVEL	▽ 12	▽ 11.2		
TIME	1018	1030		
DATE	9/11/06	9/11/06		
REFERENCE	GS	GS		
			START TIME 0900	FINISH TIME 1030
			DATE 9/11/06	DATE 9/11/06

DRILLING COMPANY: Enprob
LICENSE NUMBER: 777007

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER									Concrete	
				0						CONCRETE to 14" bgs.	
				1					CONCRETE		
				2					GMJ	SILTY GRAVEL(aggregate base fill), Dark brown (7 5YR 3/3), loose, angular gravel to 0.75" diameter, dry	
				3						SILTY CLAY, Black (5Y 2 5/1), medium stiff to stiff, very low plasticity, dry.	
48			0.0	4						Change to very dark greyish brown (2 5Y 3/2), soft to medium stiff.	
	36		0.0	5					CL	Change to mottled very dark grey (10YR 3/1) and dark yellowish brown (10YR 3/4).	
				6							
			0.0	7							
48	48		0.0	8							
				9					ML	SANDY SILT, Dark olive brown (2 5Y 3/3), soft, medium-grained, angular sand, little clay, moist.	
				10						CLAY, Olive brown (2.5Y 4/3), soft, low plasticity, trace medium-grained, angular sand, moist	
			0.0	11							
48	48		0.0	12					CL		
				13							
				14						Change to medium stiff, slightly moist.	
			0.1	15						Boring terminated at 15 feet Boring filled and sealed with a grout consisting of neat cement.	
				16							
				17							
				18							
				19							
				20							

DESCRIPTION BY: D. Pew *Reviewed by: JJ Theif*

LOG OF SOIL BORING SL-OAK BL-GPJ ETIC.GDT 10/11/06



Engineering, Inc.

LOG OF SOIL BORING:

E32

COORDINATES:

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: Enprob

LICENSE NUMBER: 777007

CLIENT PSC - Sara Lee	SITE NUMBER Oakland	LOCATION 955 Kennedy Street Oakland, CA 94606
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DRILLING AND SAMPLING METHODS: Hand-augered to 3 feet bgs. Direct push 5410 Geoprobe with Macro Core Clear Acetate Liners

WATER LEVEL	▽ 10 75	▽ 9 43		START TIME	FINISH TIME
TIME	0936	1006		0920	0940
DATE	9/13/06	9/13/06		DATE	DATE
REFERENCE	GS	GS		9/13/06	9/13/06

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER									Concrete	
				0						CONCRETE	CONCRETE to 10" bgs.
				1						GM	SILTY GRAVEL (aggregate base fill), Dark brown (7.5YR 3/3), loose, angular gravel to 0.75" diameter. dry
				2							SILTY CLAY, Black (5Y 2.5/1), stiff, low plasticity, dry.
48				3							
	42		0.0	4							Change to mottled very dark grey (10YR 3/1) and dark yellowish brown (10YR 3/4), medium stiff, slightly moist, slight odor.
				5						CL	
				6							
48				7							
			0.0	8							
	30			9							SILT WITH SOME SAND, Mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 3/4), soft, fine-grained sand, very moist
				10						ML	
				11							Change to wet.
48				12							
	30		0.0	13							SILTY SAND, Dark greyish brown (2.5Y 4/2), loose, fine-grained sand. wet
				14						SM	
				15						SM	Change to increasing grain size to coarse-grained sand SILTY SAND, Dark greyish brown (2.5Y 4/2), loose, fine to coarse-grained sand, little subangular gravel to 1" diameter, wet Boring terminated at 15 feet Boring filled and sealed with a grout consisting of neat cement
				16							
				17							
				18							
				19							
				20							

DESCRIPTION BY: D. Paw *Reviewed by: J. Kelly*

LOG OF SOIL BORING SI-OAK BL-GPJ ETIC.GDT 10/11/06



Engineering, Inc.

LOG OF SOIL BORING:

E34

COORDINATES:

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: Enprob

LICENSE NUMBER: 777007

CLIENT PSC - Sara Lee	SITE NUMBER Oakland	LOCATION 955 Kennedy Street Oakland, CA 94606
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DRILLING AND SAMPLING METHODS: Hand-augered to 3 feet bgs Direct push 5410 Geoprobe with Macro Core Clear Acetate Liners.

WATER LEVEL	22.75			START TIME	FINISH TIME
TIME	1550			1300	1600
DATE	9/13/06			DATE	DATE
REFERENCE	GS			9/13/06	9/13/06

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER									Concrete	
				0						DESCRIPTION BY:	T. Job / D. Pew <i>Reviewed by: JJ Healy</i>
				1					CONCRETE	CONCRETE to 10" bgs	
				2						SILTY CLAY, Black (5Y 2 5/1), medium stiff, low plasticity, dry.	
48	45			3							
			0.0	4	X				CL	Change to mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 4/6). trace medium-grained sand, trace subangular gravel to 0.2" diameter	
				5							
48			0.0	6	X				SM	SILTY SAND, dark yellowish brown (10YR 4/6), loose, fine to coarse-grained sand, some subangular gravel to 0.5" diameter, dry	
	39			7					ML	CLAYEY SILT. Brown (10YR 4/3). soft. very low plasticity. slightly moist to moist	
				8						SILTY CLAY, Very dark grey (10YR 3/1), medium stiff, low plasticity, trace medium-grained sand, dry	
48			0.0	9							
	42			10						Change to mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 4/6), slight odor at 11.75 feet bgs	
				11							
				12	X				CL		
				13							
48				14							
				15							
	21			16							
				17							
			0.0	18					ML	CLAYEY SILT, Mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 4/6). medium stiff, very low plasticity, slightly moist	
				19	X				CL	SILTY CLAY, Mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 4/6). medium stiff, low plasticity, dry	
36	36			20							

LOG OF SOIL BORING SL-OAK BL-GPJ ETIC.GDT 10/11/06

LOG OF SOIL BORING:
E34

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
DRIVEN	RECOVER								
				21					CL
				22					
36	36			23					ML
				24					
			0 01	25					
				26					
				27					
				28					
				29					
				30					
				31					
				32					
				33					
				34					
				35					
				36					
				37					
				38					
				39					
				40					
				41					
				42					
				43					
				44					
				45					

Change to very dark grey (2.5Y 3/1).
SANDY SILT, Light olive brown (2.5Y 5/3), soft, fine-grained sand, trace clay. moist to wet
Boring terminated at 25 feet. Boring filled and sealed with a grout consisting of neat cement.

LOG OF SOIL BORING SI-OAK BL.GPJ ETIC.GDT 10/11/06



Engineering, Inc.

CLIENT PSC - Sara Lee	SITE NUMBER Oakland	LOCATION 955 Kennedy Street Oakland, CA 94606
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DRILLING AND SAMPLING METHODS: Hand-augered to 3 feet bgs Direct push 5410 Geoprobe with Macro Core Clear Acetate Liners

LOG OF SOIL BORING: **E39**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

WATER LEVEL	▽ 22.5	▽ 9.83		START TIME	FINISH TIME
TIME	1440	1535		1340	1440
DATE	9/13/06	9/13/06		DATE	DATE
REFERENCE	GS	GS		9/13/06	9/13/06

DRILLING COMPANY: Enprob
LICENSE NUMBER: 777007

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER									Asphalt	
				0						DESCRIPTION BY: D. Pew	<i>Reviewed by: D. Healy</i>
				1					ASPHALT ASPHALT.		
				2					SILTY GRAVEL (aggregate base fill), Dark brown (7.5YR 3/3), loose, angular gravel to 1" diameter, dry.		
				3					SILTY CLAY. Black (5Y 2.5/1), medium stiff, low plasticity, dry		
48	42		0 0	4					Change to mottled coloring, very dark grey (10YR 3/1) and dark yellowish brown (10YR 3/4)		
				5							
				6					Beginning at 6 feet bgs. includes trace fine to coarse-grained subrounded to subangular sand.		
48				7							
				8							
	24		0 0	9					Change to soft to medium stiff. very low plasticity, slightly moist, includes little fine to coarse-grained sand. faint odor		
				10							
48	42		0 0	11					CL		
				12					Change to mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 3/4). medium stiff, dry. moderate odor		
				13							
				14							
48				15							
				16							
	24		0.0	17					Change to very dark greyish brown (10YR 3/2), medium stiff, low plasticity. dry, with little fine to medium-grained sand.		
				18							
				19					Change to soft to medium stiff, slightly moist		
12	12			20							

LOG OF SOIL BORING SL-OAK BL-GPJ ETIC.GDT 10/11/06



CLIENT	SITE NUMBER	LOCATION
PSC - Sara Lee	Oakland	955 Kennedy Street Oakland, CA 94606

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	LOG OF SOIL BORING: E39
DRIVEN	RECOVER								
48				21				CL	CLAYEY SILT, Light olive brown (2.5Y 5/3), soft to medium stiff, very low plasticity, little fine to medium-grained sand, moist GRAVELLY SAND, Dark greyish brown (2.5Y 4/2), loose, subrounded to subangular gravel to 1" diameter, little silt, wet
	30			22				ML	
				23				SW	
			00	24			X		Boring terminated at 24 feet Boring filled and sealed with a grout consisting of neat cement
				25					
				26					
				27					
				28					
				29					
				30					
				31					
				32					
				33					
				34					
				35					
				36					
				37					
				38					
				39					
				40					
				41					
				42					
				43					
				44					
				45					

LOG OF SOIL BORING SL-OAK B.L.G.F.J. ETIC.GDT 10/11/05



LOG OF SOIL BORING:

E40

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: Enprob
LICENSE NUMBER: 777007

CLIENT PSC - Sara Lee	SITE NUMBER Oakland	LOCATION 955 Kennedy Street Oakland, CA 94606
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DRILLING AND SAMPLING METHODS: Hand-augered to 3 feet bgs Direct push 5410 Geoprobe with Macro Core Clear Acetate Liners

WATER LEVEL	18.25			START TIME	FINISH TIME
TIME	1122			1045	1120
DATE	9/13/06			DATE	DATE
REFERENCE	GS			9/13/06	9/13/06

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER								Concrete	
				0					DESCRIPTION BY:	D. Pew <i>Reviewed by: [Signature]</i>
				1				CONCRETE	CONCRETE to 10" bgs.	
				2				GM	SILTY GRAVEL (aggregate base fill), Dark brown (7.5YR 3/3), loose, angular gravel to 0.75" diameter, dry.	
				3				CL	SILTY CLAY. Black (5Y 2.5/1), medium stiff, low plasticity, dry.	
48				4				ML	CLAYEY SILT, Mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 3/4), medium stiff, very low plasticity, trace fine-grained sand, dry.	
	36	-	0.0	5	X			SM	SILTY SAND, Dark greyish brown (2.5Y 4/2), loose, fine to coarse-grained subrounded to subangular sand, dry.	
				6				CL	SILTY CLAY, Mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 3/4), soft to medium stiff, low plasticity, slightly moist.	
				7				ML	SILT, Mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 3/4), soft to medium stiff. little fine-grained sand, slightly moist.	
48				8					SILTY CLAY, Mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 3/4), soft to medium stiff, very low plasticity, trace fine to medium-grained sand. slightly moist.	
	42	-	0.0	9	X				Change to very dark greenish grey (GLEYS 10Y 3/1), no sand, moderate odor.	
				10					Change to slight odor.	
				11					Change to mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 3/4). no odor.	
48				12				CL	Change to mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 3/4). no odor.	
	42	-	0.0	13	X				Change to slight odor.	
				14					Change to mottled dark grey (10YR 4/1) and dark yellowish brown (10YR 3/4). no odor.	
48				15					Includes little fine to medium-grained sand from 15 to 18 feet bgs.	
	42	-	0.0	16	X				Includes little fine to medium-grained sand from 15 to 18 feet bgs.	
				17					Includes little fine to medium-grained sand from 15 to 18 feet bgs.	
				18					CLAYEY SILT, Very dark greyish brown (10YR 3/2), soft, wet.	
36	36	-		19				ML	Includes little fine to medium-grained sand beginning at 19.25 feet bgs.	
				20						

LOG OF SOIL BORING SL-OAK BL-GPJ ETIC.GDT 10/11/06



CLIENT
PSC - Sara Lee

SITE NUMBER
Oakland

LOCATION
955 Kennedy Street
Oakland, CA 94606

LOG OF SOIL BORING:

E40

INCHES		BLOWS / 5" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	LOG OF SOIL BORING: E40
DRIVEN	RECOVER									
			00							
				21					ML	
				21					SM	SILTY SAND, Very dark greyish brown (2.5Y 3/2), loose, fine to coarse-grained subrounded to subangular sand, wet
24	24			22					SW	GRAVELLY SAND, Dark greyish brown (2.5Y 4/2), loose, subrounded to subangular gravel to 1" diameter, little silt, wet
				23					CL	GRAVELLY CLAY, Dark greyish brown (2.5Y 4/2), soft, low plasticity, subrounded to subangular gravel to 1" diameter, very moist.
			00	24						Boring terminated at 24 feet. Boring filled and sealed with a grout consisting of neat cement
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LOG OF SOIL BORING SL-OAK BL-GFJ ETIC.GDT 10/11/06