

APPENDIX C
BORING LOGS

BASELINE

Boring ID: Key

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 12/15/08
Project no.: 5Y004
Driller: ABC Drilling
Method: HSA/MR

Location: City ZZZ
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 32.75 feet
Bore size: 6 inches

Reviewed by: *Peri Page*

page 1 of 1

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0							
0 - 1			GW	Graphic representation of lithologic unit			Air monitoring measurement from PID meter in the breathing zone, in parts per million
1				Contact between lithologic units		Very light gray clayey SAND with silt, loose, very moist (Native)	0 ppm PID in BZ 0% LEL at GS 3-4-8
1.5 - 2.5		X				Lithological Description	
2			SC	Sample retained for laboratory analysis			Blows per 6 inches of a 140 lb hammer falling 30 inches driving California Modified Sampler
2.5				Sample for visual identification			
2.5 - 4				Unified Soil Classification or distinguishing unit			
4				Approximate contact between lithologic units			Air monitoring measurement from the 4-gas meter on the ground surface directly adjacent and downwind of hole. Readings in percent Lower Explosion Limit.
4.5				Water level measurement in boring after completion			
5.5				Water level encountered during drilling			
6.5 - 7.5		X					
7			CL		986	Photoionization detection reading of sample (part per million)	6-7-7 (SPT)
7.5 - 9							Blows per 6 inches of a 140 lb hammer falling 30 inches driving Split Spoon Sampler for a Standard Penetrometer Test
9						Total depth drilled by auger	
9.5						Total depth explored	
10						TBD/TD	

UNIFIED SOILS CLASSIFICATION

PRIMARY DIVISIONS			GROUP SYMBOL	SECONDARY DIVISIONS
COARSE GRAINED SOILS MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVELS MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS (LESS THAN 5% FINES)	GW	Well graded gravels, gravel-sand mixtures, little or no fines.
		GRAVEL WITH FINES	GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
			GM	Silty gravels, gravel-sand-silt mixtures, non-plastic fines.
		GC	Clayey gravels, gravel-sand-clay mixtures, plastic fines.	
	SANDS MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	CLEAN SANDS (LESS THAN 5% FINES)	SW	Well graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES	SM	Silty sands, sand-silt mixtures, non-plastic fines.
			SC	Clayey sands, sand-clay mixtures, plastic fines.
FINE GRAINED SOILS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT IS LESS THAN 50%		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
	SILTS AND CLAYS LIQUID LIMIT IS GREATER THAN 50%		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity.
			MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
	SILTS AND CLAYS LIQUID LIMIT IS GREATER THAN 50%		CH	Inorganic clays of high plasticity, fat clays.
			OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS			Pt	Peat and other highly organic soils.

DEFINITION OF TERMS

U.S. STANDARD SERIES SIEVE

CLEAR SQUARE SIEVE OPENINGS

200

40

10

4

3/4"

3"

12"

SILTS AND CLAYS	SAND			GRAVEL		COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE		

GRAIN SIZES

SANDS AND GRAVELS	BLOWS/FOOT [†]
VERY LOOSE	0 - 4
LOOSE	4 - 10
MEDIUM DENSE	10 - 30
DENSE	30 - 50
VERY DENSE	OVER 50

RELATIVE DENSITY

SILTS AND CLAYS	STRENGTH [‡]	BLOWS/FOOT [†]
VERY SOFT	0 - 1/4	0 - 2
SOFT	1/4 - 1/2	2 - 4
FIRM	1/2 - 1	4 - 8
STIFF	1 - 2	8 - 16
VERY STIFF	2 - 4	16 - 32
HARD	OVER 4	OVER 32

CONSISTENCY

[†] Number of blows of 140-pound hammer falling 30 inches to drive a 2-inch O.D. (1-3/8 inch I.D.) split spoon (ASTM D-1586).

[‡] Unconfined compressive strength in tons/square foot as determined by laboratory testing or approximated by the standard penetration test (ASTM D-1586), pocket penetrometer, torvane, or visual observation.

BASELINE

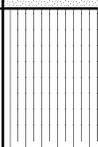
Boring ID: E001

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/21/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size:

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Very dark grayish brown (10YR 3/2) SAND, fine grained, loose, rootlets, dry (Fill)	Used 2.5" diameter Cal modified sampler
1		SP		0		
2		ML		0	Very dark grayish brown (10YR 3/3) SILT with clay and sand, low plasticity, stiff, rootlets, trace gravel consisting of charcoal pieces, sandstone (Fill)	
Total depth = 2.5 feet						Backfilled boring with bentonite chips
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BASELINE

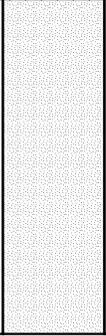
Boring ID: E002

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/21/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 3 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0	X	SP		0	Very dark grayish brown (10YR 3/2) SAND, trace gravel, fine grained, loose, 1/3 to 3/4 inch diameter angular to rounded clasts of shale, sandstone, chert, rootlets, moist (Fill)	Hand augered
1	X			0		
Total depth = 2.5 feet					Backfilled boring with bentonite chips	
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BASELINE

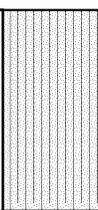
Boring ID: E003

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/21/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Heidi Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Very dark grayish brown (10YR 3/2) silty SAND with gravel, dense, dry, rootlets, 1/3 to 3/4 inch diameter angular clasts of sandstone, shale, pieces of glass and white plaster (Fill)	Used 2.5" diameter Cal modified sampler
1		SM		0		
2		SP		0	Dark brown (10YR 3/3) with mottling of dark yellow brown (10YR 3/4) SAND, trace clay, fine grained, medium dense, moist, rootlets (Fill)	
3					Becoming dark greenish gray (GLE Y2 5BG 4/1) at 3.0 feet	
Total depth = 3.0 feet					Backfilled boring with bentonite chips	
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BASELINE

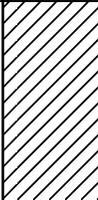
Boring ID: E004

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/17/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		GC			Dark reddish brown (5YR 3/2) clayey GRAVEL, 1/3 to 1 inch diameter angular clasts of chert, dense, moist (Fill)	Removed 1" asphalt, 5" base Used 2.5" diameter Cal modified sampler
0.5	X	SP			Very dark grayish brown (10YR 3/2) SAND with gravel, fine grained, medium dense, moist, clasts of charcoal, sandstone, chert (Fill)	
1		CH			Dark yellowish brown (10YR 4/4) CLAY with silt, high plasticity, stiff, moist (Fill)	
2	X	CH			Very dark greenish gray (GLE Y1 10Y 3/1) silty CLAY, high plasticity, soft to medium, stiff, moist (Fill)	
2.5	X				Becomes soft wet at 2.5 feet	
3		Total depth = 3.0 feet			Backfilled boring with bentonite chips	
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BASELINE

Boring ID: E005

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/21/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Root mass 0 to 0.5 foot Dark grayish brown (2.5Y 4/2) silty CLAY, stiff, dry, trace of gravel, 1/3 to 3/4 inch diameter subangular to angular clasts of sandstone, shale, rootlets (Fill)	Used 2.5" diameter Cal modified sampler
1				0		
2		CL		0		
3					Large piece of red brick at 3.0 feet with stucco sand	
Total depth = 3.0 feet					Backfilled boring with bentonite chips	
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BASELINE

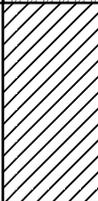
Boring ID: E006

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/17/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Brown (10Y 5/3) clayey GRAVEL, 1/3 to 1 inch diameter subangular to angular clasts of chert, shale, sandstone, dense, moist (Fill)	Removed 2" asphalt, 4" concrete, 4" base Used 2.5" diameter Cal modified sampler
1		GC		0	Greenish black (GLE Y 2.5/1 10Y) CLAY with silt, trace gravel, high plasticity, stiff, moist (Fill)	
2		CH		0	Dark greenish gray (GLE Y 4/1 10Y) silty SAND, fine grained, dense, moist (Fill)	
3		SM			Total depth = 3.0 feet	
4					Backfilled boring with bentonite chips capped with concrete	
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BASELINE

Boring ID: E007

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/21/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Heidi Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		SP		0	Dark yellowish brown (10YR 4/4) SAND, fine grained, medium dense, moist, trace gravel, 1/3 to 3/4 inch diameter subangular clasts (Fill)	Removed 2" asphalt, 4" base Used 2.5" diameter Cal modified sampler
1		GP			Dusky red (2.5YR 3/2) GRAVEL with sand, 1/3 to 1 inch angular clasts of chert, moist (Fill)	
2		GM		0	Dark brown (10YR 3/3) gravelly SILT, stiff, moist, 1/3 to >1 inch diameter subangular to angular gravel clasts of sandstone, red brick, charcoal (Fill)	
3		SP			Light brownish gray (10YR 6/2) and grayish brown (10YR 5/2) SAND, medium to fine grained, loose, moist (Fill)	
Total depth = 3.0 feet					Backfilled boring with bentonite chips capped with concrete	
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BASELINE

Boring ID: E008

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/20/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		SP			Very dark grayish brown (10YR 3/2) SAND, some gravel, trace silt, very fine to fine grained, loose, pieces of glass, nail, 1/3 to 1/2 inch diameter subrounded to rounded clasts, moist (Fill)	Removed 2" asphalt, 2" base Used 2.5" diameter Cal modified sampler
1		SP		0	Mottled dark grayish brown (10YR 4/2) and dark yellowish brown (10YR 4/4) SAND, trace clay, fine grained, rootlets, loose, moist (Fill)	
2		CL		0	Brown (10YR 4/3) CLAY with silt and sand, soft, medium plasticity, wet (Fill)	
3		CL			Very dark gray grading to black (GLE Y1 3/N) CLAY, very soft, medium to high plasticity, wet, rootlets, Fill? Alluvium?	
4		CL				
5		CL				
6		CL				
7		CH			Black (GLE Y1 2.5/N) CLAY, very soft, high plasticity, wet (Bay Mud)	
8					Total depth = 8.0 feet	Backfilled boring with bentonite chips capped with concrete
9						
10						

BASELINE

Boring ID: E009

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/14/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 4.25 feet
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0						Very dark grayish brown (10YR 3/2) SAND, fine grained, loose, moist, pieces of ceramic plate, trace sandstone gravel clasts, 1/3 to 3/4 inch diameter subrounded clasts, rootlets (Fill)	Removed surface vegetation Used 2.5" diameter Cal modified sampler
1			SP		0		
2						Dark greenish gray (GLE Y1 4/1 5GY) clayey SAND, fine grained, loose to very loose, wet, pieces of concrete (Fill)	6" recovery 2-3.5 feet
3							
4			SC				
5							
6						Some vegetation pieces at 6.5 feet	
7			OH			Black (GLE Y1 2.5/N) PEAT, vegetation matting	
7			CH			Dark greenish gray (GLE Y1 4/1 5GY) CLAY, high plasticity, very soft, wet, rootlets (Bay Mud)	12" recovery
8						Total depth = 8.0 feet	Backfilled boring with bentonite chips
9							
10							

BASELINE

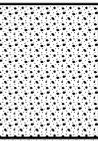
Boring ID: E010

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/20/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Dusky red (2.5YR 3/2) GRAVEL, trace clay, 1/3 to 1 inch diameter angular clasts of chert, medium dense, moist (Fill)	Removed 4" asphalt, 3" base Used 2.5" diameter Cal modified sampler
1		GP		0	Very dark greenish gray (GLE Y2 10G 3/1) SAND, fine to medium grained, medium dense, moist, shell fragments (Fill), some Bay Mud clay areas	
2		SP		0	Very dark greenish gray (GLE Y1 10Y 3/1) clayey SAND, fine grained, medium dense, moist (Fill)	
3		SC				
Total depth = 3.0 feet					Backfilled boring with bentonite chips capped with concrete	
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BASELINE

Boring ID: E011

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/17/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Very dark gray (10YR 3/1) SAND, fine grained, loose, moist (Fill)	Removed 1" asphalt, 3" base, 4" concrete Used 2.5" diameter Cal modified sampler
1		SP			Becoming wet at 1.5 feet	Perched water at 1.5 feet
2						
3		CH			Mottled dark greenish gray (GLE Y1 10Y 4/1) and very dark gray (GLE Y1 N 3/N) CLAY with silt, stiff, high plasticity, moist (Fill)	
Total depth = 3.0 feet						Backfilled boring with bentonite chips
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BASELINE

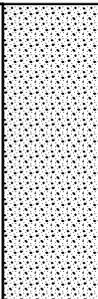
Boring ID: E012

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/17/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Very dark gray (GLE Y1 3/N) GRAVEL, 1/3 to >2 inch diameter angular clasts of hard rock, dense, moist (Fill)	Removed 5" asphalt, 2" base Used 2.5" diameter Cal modified sampler
1		GP				
2					Dark greenish gray (GLE Y1 5GY 4/1) clayey SAND to sandy CLAY, very fine grained, very loose, wet (Fill)	Backfilled boring with bentonite chips capped with concrete
3		SC/CL				
Total depth = 3.0 feet						
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BASELINE

Boring ID: E013

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/17/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Heidi Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		SM			Brown (10YR 4/3) silty SAND, very fine grained, loose, moist, trace gravel (Fill)	Removed 2.5" asphalt, 4" base Used 2.5" diameter Cal modified sampler
0				0	Brown (10YR 4/3) SAND, fine grained, loose, moist, pieces of red brick (Fill)	
2		SP				
2				0		
5					Very dark greenish gray (GLE Y1 10GY 3/1) SAND, fine grained, loose, wet (Fill)	
6		SP				
7						
7		CH			Dark greenish gray (GLE Y1 5GY 4/1) CLAY, very soft, high plasticity, wet (Fill)	
Total depth = 8.0 feet					Backfilled boring with bentonite chips capped with concrete	
9						
10						

BASELINE

Boring ID: E014

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/15/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		GP/SP		0	Dark gray (2.5Y 4/1) SAND with gravel-GRAVEL with sand, fine to medium grained, 1/3 to 3/4 inch diameter rounded clasts of hard rock and brick (red), sandstone, moist (Fill)	Removed 3" asphalt, 3" base Used 2.5" diameter Cal modified sampler
0		SP		0	Olive gray (5Y 5/2) SAND, fine grained, loose to medium dense, moist (Fill)	Hit concrete at 1.0 foot
1				0	Concrete and brick pieces from 1 foot to 2.2 feet	
2		GC		0	Very dark grayish brown (10YR 3/2) clayey GRAVEL, 1/3 to 1 inch diameter subangular clasts of sandstone, chert, moist (Fill)	
3		SP		0	Dark yellowish brown (10YR 4/4) SAND, trace silt, fine grained, medium dense, moist, Colma? (Fill)	
Total depth = 3.0 feet					Backfilled boring with bentonite chips capped with concrete	
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BASELINE

Boring ID: E015

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/15/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Very dark grayish brown (10YR 3/2) SAND with gravel-GRAVEL with sand, trace clay, 1/3 to 1.5 inch diameter subangular to subrounded clasts of sandstone, shale, chert, charcoal, dense, moist (Fill)	Removed 3" asphalt, 3" base Used 2.5" diameter Cal modified sampler
1		SP/GP		0		
2				0		
3		SM			Dark yellowish brown (10YR 4/4) silty SAND, fine grained, medium dense, moist, Colma? (Fill)	Backfilled boring with bentonite chips capped with concrete
Total depth = 3.0 feet						
4						
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BASELINE

Boring ID: E016

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/15/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Very dark grayish brown (10YR 3/2) SAND with gravel-GRAVEL with sand, fine grained, loose, moist, 1/3 to 1 inch diameter subangular to subrounded clasts of sandstone and hard rock, some large cobble size clasts of chert at contact (Fill)	Removed 2" asphalt, 4" base Used 2.5" diameter Cal modified sampler
1		SP/GP		0		
2				0	Dark yellowish brown (10YR 3/4) silty SAND, fine grained, medium dense, moist, Colma? (Fill)	
3		SM			Total depth = 3.0 feet	Backfilled boring with bentonite chips capped with concrete
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E017

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/15/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Heidi Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Mottled very dark grayish brown (10YR 3/2) and reddish black (10R 2.5/1) clayey GRAVEL with sand, 1/3 to 1.5 inch diameter subangular to subrounded clasts of chert, sandstone, dense, moist (Fill)	Removed 5" asphalt, 4" base Used 2.5" diameter Cal modified sampler
1		GC		0	Mottled dark brown (10YR 3/3) and very dark brown (10YR 2/2) sandy SILT with clay, low plasticity, stiff, areas of black specks, moist (Fill)	
2		ML		0	Very dark brown (10YR 2/2) SILT with clay-CLAY with silt, soft to medium stiff, moist (Fill)	
2		ML/CL		0	Yellowish brown (10YR 5/4) SAND, fine grained, medium dense to dense, moist, Colma? (Fill) (Colma derived fill)	
3		SP		0		
Total depth = 3.0 feet					Backfilled boring with bentonite chips capped with concrete	
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E018

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/15/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Heidi Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Very dark grayish brown (10YR 3/2) SAND with silt, medium dense, moist, pieces of brick at 0.5 foot (Fill)	Removed 4" asphalt, 2" base Used 2.5" diameter Cal modified sampler
1		SP		0	Becoming dark grayish brown (10YR 4/2) Lenses of grayish brown (10YR 5/2) SAND, fine grained from 1.5 foot, few inches thick	
2				0		
3						
Total depth = 3.0 feet					Backfilled boring with bentonite chips capped with concrete	
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E019

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/15/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		SP		0	Dark brown (10YR 3/3) SAND with silt, fine grained, medium dense, moist, trace gravel, 1/3 to 1/2 inch diameter subrounded clasts (Fill)	Removed 2.5" wood chips Used 2.5" diameter Cal modified sampler
1					Dark yellowish brown (10YR 3/4) SAND, fine grained, medium dense, moist (Fill)	
2		SP		0	Some dark reddish brown areas at 2.5 to 3.0 feet	Backfilled boring with bentonite chips
3	Total depth = 3.0 feet					
4						
5						
6						
7						
8						
9						
10						

BASELINE

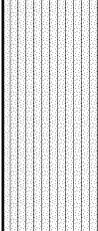
Boring ID: E020

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/14/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Dark bluish gray (GLEY2 10B 4/1) GRAVEL with sand, 1/3 to 3/4 inch diameter angular clasts of sandstone, dense, dry (Fill)	Removed 3" gravel Used 2.5" diameter Cal modified sampler
1	GW				Filter fabric at contact	
2	SM				Dark yellowish brown (10YR 3/4) mottled with dark brown silty SAND, fine grained, dense, moist, inclusions of dark brown clayey sand, trace gravel, angular	
3	Total depth = 3.0 feet					
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E021

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/17/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		SP		0	Very dark grayish brown (10YR 3/2) SAND with gravel, fine grained, medium dense, 1/3 to >1.5 inch diameter subangular clasts of sandstone, shale, moist (Fill)	Removed 2" asphalt, 4" base Used 2.5" diameter Cal modified sampler
1					Dark yellowish brown (10YR 4/4) SAND, trace silt, medium dense, moist (Fill)	
2		SP		0		
3	Total depth = 3.0 feet					Backfilled boring with bentonite chips capped with concrete
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E022

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/17/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Heidi Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Brown (10YR 4/3) SAND with gravel, fine grained, medium dense, >1.5 inch diameter angular clasts of sandstone, moist (Fill)	Removed 2" asphalt, 4" base Used 2.5" diameter Cal modified sampler
0.5	X	SP		0		
1		SP			Very dark gray (10YR 3/1) SAND with gravel, medium dense, 1/3 to >1.5 inch diameter clasts of sandstone, brick red stucco, moist (Fill)	
1.5		GP	Stippled		Dark reddish brown (5YR 3/2) GRAVEL with clay, 1/3 to 1 inch diameter angular clasts of chert, medium dense, moist (Fill)	
2	X			0	Dark brown (10YR 3/3) SAND, fine grained, medium dense, moist (Fill)	
3		SP				
4						
5						
6					Very dark greenish gray (GLEY1 10Y 3/1) SAND with clay, very fine grained, very loose, wet (Fill)	
7		SP				
7.5	X					
8					Total depth = 8.0 feet	Backfilled boring with bentonite chips capped with concrete
9						
10						

BASELINE

Boring ID: E023

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/15/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 7.0 feet
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0						Very dark gray (10YR 3/1) SAND with gravel, fine grained, medium dense, gravel clasts of brick (red) and concrete <2 inches thick, moist (Fill)	Removed 2" asphalt, 4" base Used 2.5" diameter Cal modified sampler
1			SP		0		
2					0	Concrete pieces at 2.0 feet	
3			SP/GP			Very dark gray (5YR 3/1) GRAVEL with sand-SAND with gravel, fine grained sand, 1/3 to 3/4 inch diameter rounded to angular clasts of chert, sandstone, hard rock, medium dense, moist (Fill)	
4							
5							
6							
7	▼				0	Dark greenish gray (GLE Y1 5GY 4/1) clayey SAND, loose, wet (Fill)	
8			SP				
9							
10							
11							
12			CL			Very dark greenish gray (GLE Y1 10Y 3/1) CLAY, soft, high plasticity, wet, some black vegetation and thin sand lenses (Bay Mud)	

BASELINE

Boring ID: E023

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/15/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 7.0 feet
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
12							
13							
14			CL				
15							
16							
17						Dark bluish gray (GLE Y2 10B 4/1) SAND, fine grained, loose, wet, rootlets, areas of Bay Mud inclusions, shell fragments (Alluvium?)	
18							
19			SP				
20							
21							
22							
23			SP		0	Dark bluish gray (GLE Y2 10B 4/1) SAND, fine to medium grained, loose, shell fragments, wet (Alluvium)	
24							
Total depth = 23.0 feet							Backfilled boring with bentonite chips capped with concrete Collected groundwater sample

BASELINE

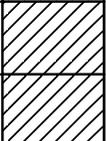
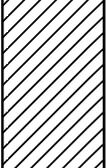
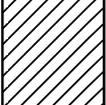
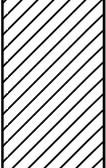
Boring ID: E024

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/16/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): ~21 feet
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0			GC		0	Dark reddish gray (2.5YR 3/1) clayey GRAVEL, 1/3 to 1.5 inch diameter angular clasts of chert, dense, moist (Fill)	Removed 3" asphalt, 3" base
1						Very dark gray (GLE Y1 3/N) clayey SAND with gravel, fine grained, medium dense, gravel clasts of sandstone (graywacke), moist (Fill)	Used 2.5" diameter Cal modified sampler 12" recovery from 0 to 1.5 feet
2			SC				No recovery from 1.5 to 3.0 feet Pushed graywacke cobble
3						Dark greenish gray (GLE Y2 5BG 3/1) SAND with clay, fine grained, loose, wet (Fill)	Will move 3.5 feet eastward to attempt to collect 2.5 foot sample
4			SP				
5			CH			Black (GLE Y1 2.5N) CLAY, soft, high plasticity, wet (Bay Mud), abundant vegetation pieces, peat, at contact (mottled)	
6						Dark greenish gray (GLE Y1 10GY 4/1) CLAY, very soft, wet (Bay Mud), abundant vegetation pieces scattered throughout	
7			CH				
8							
9			CH				
10							
11							
12							

BASELINE

Boring ID: E024

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/16/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): ~21 feet
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
12		X	CH				
13						Dark greenish gray (GLE Y1 10GY 4/1) SAND, fine grained, loose, wet, some interbedding of Bay Mud at 13.0 feet	
14							
15							
16							
17		X	SP			No interbedding of Bay Mud	No recovery from 16.5 to 18 feet Will move 3.5 feet eastward to collect sample E24A
18		X					
19							
20							
21	▼						
22		X	SP			Very dark greenish gray (GLE Y2 5BG 3/1) SAND, fine to medium grained, dense, small shell fragments, wet (Alluvium)	
23						Becoming gray (2.5Y 5/1)	
24						Total depth = 23.0 feet	Backfilled boring with bentonite chips capped with concrete Collected groundwater sample

BASELINE

Boring ID: E025

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/16/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): ~7.5 feet
Bore size: 6.5 inches

Reviewed by: *Heri Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0						Dark reddish gray (2.5YR 3/1) clayey GRAVEL, 1/3 to 1.5 inch diameter angular clasts of chert, dense, moist (Fill)	Removed 4" asphalt, 8" base Used 2.5" diameter Cal modified sampler
0-1		X	GC	[Stippled pattern]	0		
1-2			SC	[Dotted pattern]		Very dark gray (GLE Y1 3/N) clayey SAND, trace gravel, fine grained, medium dense, moist (Fill)	
2-3		X			0		
3-7			CH	[Diagonal hatching]		Brown (10YR 4/3) CLAY, medium stiff, high plasticity, moist (Fill) Becoming dark greenish gray at 3.0 feet with lenses of sand with shell fragments and soft	
7-8	▼	X	CH	[Diagonal hatching]	0		
8-9			CH	[Diagonal hatching]		Black (GLE Y1 2.5N) CLAY, soft, high plasticity, wet (Bay Mud), abundant vegetation pieces at contact	
9-11			CH	[Diagonal hatching]		Dark greenish gray (GLE Y1 10GY 4/1) CLAY, very soft, wet (Bay Mud)	
11-12			SC	[Dotted pattern]		Dark greenish gray (GLE Y1 4/1 10GY) clayey SAND, fine grained, very loose, wet, interbedded with Bay Mud few inches thick (Alluvium)	

BASELINE

Boring ID: E025

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/16/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): ~7.5 feet
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
12					0		
13			SC				
14							
15						Very dark greenish gray (GLE Y2 5BG 3/1) SAND, fine grained, loose, shell fragments, wet (Alluvium), some Bay Mud lenses	
16							
17							
18							
19			SP				
20							
21							
22					0		
23							
Total depth = 23.0 feet						Backfilled boring with bentonite chips capped with concrete Collected groundwater sample	
24							

BASELINE

Boring ID: E026

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/14/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 4.5 feet
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0						Reddish brown (5YR 4/3) crushed ROCK with sand, fine grained, dense sand, chert clasts, dry (Fill)	Removed surface vegetation Used 2.5" diameter Cal modified sampler
1		X	GW				
2		X				Brown (10YR 4/3) SAND, fine grained, medium dense, moist (Fill) Light olive brown (2.5Y 5/6) SAND, fine to medium grained, medium dense, moist (Fill)	
3			SP				
4	▼						
5						Bluish black (GLE Y2 10B 2.5/1) SAND, fine grained, very loose, wet, Alluvium	
6							
7		X					6" recovery
8			SP				
9							
10							
11							
12			SP			Very dark bluish gray (GLE Y2 10B 3/1) SAND, fine grained, very loose, wet, trace silt, shell fragments, some pieces as large as 1 inch, Marin sand (Alluvium)	

BASELINE

Boring ID: E026

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/14/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 4.5 feet
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
12					0		
13							
14							
15							
16							
17			SP				
18						Same as above; no shell fragments	
19							
20							
21							
22			SP		0	Dark greenish gray (GLEY2 5BG 4/1) SAND, fine grained, loose, wet, trace shell fragments (Alluvium)	
23							
Total depth = 23.0 feet							Backfilled boring with bentonite chips
24							

BASELINE

Boring ID: E027

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/14/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 5.0 feet
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0						Mottled dark yellowish brown (10YR 4/6) and very dark grayish brown (10YR 3/2) SAND with silt, trace clay, dense, moist (Fill)	Removed surface vegetation Used 2.5" diameter Cal modified sampler
1		X	SP		0		
2		X	SP		0	Grayish brown (10YR 5/2) SAND, fine grained, loose, moist (Fill)	
3						Brown (10YR 4/3) mottled with dark brown (10YR 3/3) clayey SAND, fine grained, dense, moist (Fill)	
4			SC				
5	▼					Dark bluish gray (GLE Y2 5B 4/1) SAND, fine grained, loose, wet (hydraulic fill?) Marin sand? (Alluvium)	
6							
7		X			0		12" recovery
8			SP				
9							
10							
11							
12			SP			Very dark bluish gray (GLE Y2 10B 3/1) SAND, fine grained, loose, wet, abundant shell fragments up to 3/4 inch, Marin sand (Alluvium)	

BASELINE

Boring ID: E027

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/14/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 5.0 feet
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
12					0		
13							
14							
15							
16							
17			SP		0	Same as above, except some medium grained SAND, no shell fragments (Alluvium)	
18							
19							
20							
21							
22					0	Same as above, some shell fragments, Marin sand (Alluvium)	
23							
Total depth = 23.0 feet						Backfilled boring with bentonite chips	
24							

BASELINE

Boring ID: E028

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/20/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Heidi Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Dark yellowish brown (10YR 3/4) mottled with yellowish brown (10YR 5/6) SAND, trace gravel, fine grained, medium dense, 1/3 to 2/3 inch diameter subangular clasts of sandstone, rootlets, moist (Fill)	Removed 2" asphalt, 3" base Used 2.5" diameter Cal modified sampler
1	X	SP		0		
2	X	GC		0	Dusky red (10R 3/2) clayey GRAVEL, dense, 1/3 to 3/4 inch diameter angular clasts of chert, moist (Fill) Becoming clayed at 2.5 feet	
3					Very dark grayish brown (10YR 3/2) SAND, fine grained, dense, moist (Fill)	
4						
5		SP			Increase in sand grain size and becoming wet at 5.5 feet	
6						
7	X	SP		0	Very dark greenish gray (GLEY1 10GY 3/1) SAND, fine grained, loose, wet (Alluvium)	
8					Total depth = 8.0 feet	Backfilled boring with bentonite chips capped with concrete
9						
10						

BASELINE

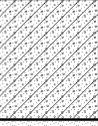
Boring ID: E029

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/20/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		CL		0	Dark grayish brown (10YR 4/2) CLAY with silt, trace sandstone gravel, low plasticity, stiff, rootlets, moist (Fill)	Removed 1" surface vegetation Used 2.5" diameter Cal modified sampler
1		SC			Dark yellowish brown (10YR 4/4) clayey SAND with gravel, fine grained, dense, 1/3 to 3/4 inch diameter subangular to angular clasts of chert, sandstone, hard rock, moist (Fill)	
2		GC		0	Dusky red (2.5YR 3/2) clayey GRAVEL, 1/3 to 3/4 inch diameter angular clasts, dense, moist (Fill)	
3		SP			Dark grayish brown (10YR 4/2) SAND, fine grained, dense, moist (Fill)	
6		CL			Very dark grayish brown (10YR 4/2) gravelly CLAY, stiff, moist, low plasticity, clasts of serpentine, hard rock, shale (Fill)	
7		SP		0	Brown (10YR 4/3) SAND, fine grained, loose, wet (Fill)	
Total depth = 8.0 feet					Backfilled boring with bentonite chips	

BASELINE

Boring ID: E030

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/20/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Dark yellowish brown (10YR 4/4) SAND, trace gravel, fine grained, dense, moist, clasts of sandstone, hard rock (Fill)	Removed 2" asphalt, 3" concrete Used 2.5" diameter Cal modified sampler
1		SP		0		
2		GC			Dark reddish brown (5YR 3/2) clayey GRAVEL, 1/3 to 3/4 inch diameter angular clasts of chert, dense, moist (Fill)	
2.5		SP		0	Dark yellowish brown (10YR 4/4) SAND, fine grained, dense, moist (Fill)	Asphalt pieces at 2.5 feet
3		CL			Dark yellowish brown (10YR 3/4) sandy CLAY, stiff, low plasticity, moist (Fill)	
					Total depth = 3.0 feet	Backfilled boring with bentonite chips capped with concrete
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E031

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/20/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Brown (10YR 4/3) SAND, fine grained, dense, trace gravel clasts of claystone, sandstone (Fill)	Removed 3.5" asphalt, 2.5" base Used 2.5" diameter Cal modified sampler
1		SP		0	Decrease in gravel content at 1.0 foot	
2					Dusky red (2.5Y 3/2) clayey GRAVEL, 1/3 to 3/4 inch diameter angular clasts of chert, dense, moist (Fill)	
3						
4						
5						
6						
7						
8		SP			0	Dark grayish brown (10YR 4/2) SAND, fine grained, medium dense, moist (Fill)
Total depth = 8.0 feet						Backfilled boring with bentonite chips capped with concrete
9						
10						

BASELINE

Boring ID: E032

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/20/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Brown (10YR 4/3) SAND, fine grained, medium dense, moist, trace of 1/3 inch diameter angular chert clasts (Fill)	Removed 3" asphalt, 3" base Used 2.5" diameter Cal modified sampler
1	X	SP		0		
2		GC			Dusky red (2.5Y 3/2) clayey GRAVEL, 1/3 to 3/4 inch diameter angular clasts of chert, dense, moist (Fill)	
2	X	SC			Brown (10YR 4/3) clayey SAND with gravel, fine grained, dense, gravel clasts of sandstone, white chalk, hard rock, glass, chert (Fill)	
3					Total depth = 3.0 feet	
4					Backfilled boring with bentonite chips capped with concrete	
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E033

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/21/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 3 inches

Reviewed by: *Heidi Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Brown (7.5YR 4/2) SAND, fine grained, loose, dry, rootlets, trace gravel (Fill)	Hand augered
1	X	SP		0		
2	X	SP		0	Brown (10YR 4/3) SAND with gravel, fine grained, loose, rootlets, dry, 1/3 to 3/4 inch diameter subrounded to subangular clasts of shale, sandstone, hard rock (Fill)	
Total depth = 2.5 feet					Backfilled boring with bentonite chips	
3						
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E034

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/21/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 3 inches

Reviewed by: *Heri Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		SP		0	Dark grayish brown (10YR 4/2) SAND, some gravel, fine grained, medium dense, dry, 1/3 to 3/4 inch diameter subangular clasts of chert, sandstone, rootlets (Fill)	Hand augered
Total depth = 14 inches						Refusal at 14", concrete slab footing
2						
3						
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5						
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7						
8						
9						
10						

BASELINE

Boring ID: E035

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/20/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		GP			Dusky red (2.5YR 3/2) GRAVEL, trace clay, 1/3 to 1 inch diameter angular clasts of chert, dense, moist (Fill)	Removed 3" asphalt, 3" base Used 2.5" diameter Cal modified sampler
0				0	Brown (10YR 4/3) SAND, fine grained, loose, moist, trace gravel (Fill)	
1						
2		SP				
2				0	Some brick (red) pieces at 2.5 feet	
3						
Total depth = 3.0 feet					Backfilled boring with bentonite chips capped with concrete	
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E036

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/21/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size:

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		SP		0	Dark grayish brown (10YR 4/2) SAND with gravel, fine grained, loose, dry, pieces of plastic, glass, 1/3 to 3/4 inch diameter subrounded to subangular clasts of hard rock (Fill)	Hand augered
1				0		
Total depth = 2.5 feet					Backfilled boring with bentonite chips	
3						
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E037

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/14/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Dark brown (10YR 3/3) SAND with gravel, trace clay, fine grained, medium dense, moist, 1/3 to 1.5 inch diameter angular gravel clasts of chert, sandstone (Fill)	Removed 2.5" asphalt, 3.5" base Use 2.5" diameter Cal modified sampler
1		SP				
2		SP			Grayish brown (10YR 5/2) SAND, fine grained, loose, moist (Fill)	
3		SC			Very dark greenish gray (GLE Y1 5GY 3/1) clayey SAND, fine grained, medium dense, moist (Fill)	
Total depth = 3.5 feet					Backfilled boring with bentonite chips	
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E038

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/16/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Very dark grayish brown (10YR 3/2) clayey SAND with gravel, fine grained, dense, 1/3 to 1.5 inch diameter clasts of shale, sandstone, charcoal, moist (Fill)	Removed surface vegetation Used 2.5" diameter Cal modified sampler
1		SC			Olive brown (2.5Y 4/3) SAND, fine to medium grained, loose, moist, shell fragments (Fill)	
2		SP				
3					Total depth = 3.0 feet	Backfilled boring with bentonite chips and soil
4						
5						
6						
7						
8						
9						
10						

BASELINE

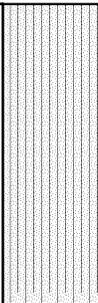
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5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/13/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Dark brown (10YR 3/3) silty SAND with gravel, fine grained, rootlets, moist to dry (Fill)	Removed surface vegetation Use 2.5" diameter Cal modified sampler
1		SM				
2					Olive brown (2.5YR 4/3) SAND, fine grained, loose, wet, shell fragments (hydraulic Fill)	
3		SP				
Total depth = 3.5 feet					Backfilled boring with bentonite chips and soil	
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E040

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/13/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Dark greenish gray (GLEY2 10G 4/1) SAND, fine grained, dense, moist (Fill) hydraulic sand?	Removed 2.5" asphalt, 4.5" base Used 2.5" diameter Cal modified sampler
1		SP		0		
2				0		
3		OH			Black (GLEY1 2.5/N) PEAT, soft, moist to wet	
4					Dark greenish gray silty SAND, fine grained, dense, wet, Marin sand?	
5		SM				
6						
7		OH			Black (GLEY1 2.5N) PEAT vegetation layer, wet	
8		CH		0	Dark greenish gray CLAY, soft, high plasticity, rootlets, wet (Bay Mud)	
Total depth = 8.0 feet						Backfilled boring with bentonite chips capped with neat cement to surface
9						
10						

BASELINE

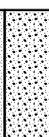
Boring ID: E041

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/16/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0						
0.5	X	SP/GP		0	Dark brown (10YR 3/3) SAND with gravel-GRAVEL with sand, 1/3 to 3/4 inch diameter subrounded to subangular clasts, very dense, dry (soil is cemented, possibly lime treated), not cemented at 0.5 foot (Fill)	Removed 2" asphalt, 3" base Used 2.5" diameter Cal modified sampler
1.0		SP			Brown (10YR 4/3) SAND, fine grained, medium dense, moist, trace gravel (Fill)	
1.5		SP			Very dark brown (10YR 3/2) SAND with gravel, 1/3 to 1/2 inch diameter rounded to subangular clasts, dense, moist, pieces of glass (Fill)	
2.0	X			0	Dark gray (10YR 4/1) clayey SAND with gravel, loose, gravel clasts consisting of sandstone and hard rock (Fill)	
3.0						
4.0		SC				
5.0						
6.0						
7.0	X	SP			Very dark gray (GLE Y1 3/N) SAND, fine grained, loose, wet, rootlets (Fill)	
8.0						
Total depth = 8.0 feet					Backfilled boring with bentonite chips capped with cement	
9.0						
10.0						

BASELINE

Boring ID: E042

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/13/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Dark brown (7.5YR 3/3) SAND, some gravel, fine grained, medium dense, moist, 1/3 to 3/4 inch diameter subangular clasts of chert, sandstone, small pieces of wood and charcoal (Fill)	Removed 1.5" asphalt, 4.5" base Used 2.5" diameter Cal modified sampler
1		SP		0		
2					Dark greenish gray (GLE Y1 5GY 4/1) CLAY, medium stiff, low plasticity, moist, pieces of wood, nail, fire brick, white (Fill)	Backfilled boring with bentonite chips capped with neat cement to surface
3		CL		0		
Total depth = 3.5 feet						
4						
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7						
8						
9						
10						

BASELINE

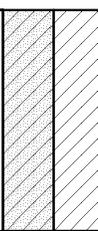
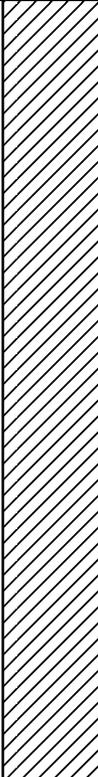
Boring ID: E043

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/13/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Heri Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0						
0 - 1	X	SC/CL		0	Very dark greenish gray (GLEY 5G 3/1) clayey SAND-sandy CLAY with gravel, fine grained, dense, moist, 1/3 to 3/4 inch diameter subangular clasts of shale, chert, shells, brick, charcoal (Fill)	Removed 1.5" asphalt, 4.5" base Used 2.5" diameter Cal modified sampler
1 - 7.5	X	CH			Mottled dark greenish gray (GLEY1 5GY 4/1 and 10 GY 4/1) CLAY, stiff, high plasticity, trace yellowish brown sandstone clasts (Fill)	
7.5 - 8.0	X	CH			Dark bluish gray (GLEY2 5B 4/1) CLAY, very soft, high plasticity, wet, wood pieces intact (Bay Mud?)	
Total depth = 8.0 feet						
9						
10						

BASELINE

Boring ID: E044

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 4/13/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 6.5 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0						
0.5	X			395	Very dark greenish gray (GLE Y1 5G 3/1) sandy CLAY with gravel, soft, low plasticity, pieces of brick (red) and stucco, moist (Fill)	Removed 3" asphalt, 5" base Used 2.5" diameter Cal modified sampler
1.0		CL				
1.5				286		
2.0	X					
2.5						
3.0		CL			Dark greenish gray (GLE Y2 5GY 4/1) CLAY with silt and sand, trace gravel, soft, low plasticity, very moist (Fill)	
Total depth = 3.5 feet					Backfilled boring with bentonite chips capped with neat cement to surface	
4						
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7						
8						
9						
10						

BASELINE

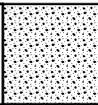
Boring ID: E045

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 2/18/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 7.75 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		GP		0	Dark bluish gray (10B 4/1) GRAVEL with clay, 1/3 to 1.5 inch diameter angular clasts, medium dense, moist (Fill)	Removed 5" asphalt Used 2.5" diameter Cal modified sampler
1		CL		0	Black (N 2.5) CLAY with sand, trace gravel, soft, low plasticity, moist, 1/3 to 1.5 inch diameter subrounded to subangular clasts of chert (Fill)	
2				0	Area of very dark greenish gray (5GY 3/1) clayey SAND at 2.75 feet	
Total depth = 3.0 feet						
3						
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E046

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 2/18/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 7.75 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Dark grayish brown (10YR 4/2) clayey GRAVEL, 1/3 to 1.5 inch diameter angular clasts, medium dense, moist (Fill)	Removed 6" asphalt, 2" base Used 2.5" diameter Cal modified sampler
1		GC		0	Fabric at 1.5 feet	
2		SC		0	Dark yellowish brown (10YR 4/4) mottled dark yellowish brown (10YR 3/6) clayey SAND, fine grained, medium dense, moist (Alluvium)	
3	Total depth = 3.0 feet					
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E047

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 2/18/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 7.75 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		GC		0	Cobbles at 14 inches bgs, well rounded with stucco	Removed 2" asphalt, 12" concrete, 4" cobbles Used 2.5" diameter Cal modified sampler
1		SC		0	Dark yellowish brown (10YR 4/4) mottled dark yellowish brown (10YR 3/6) clayey SAND, trace gravel, fine grained, medium dense, moist (Alluvium)	
2					Becoming light olive brown (2.5Y 5/3) at 2.0 feet	
3	Total depth = 3.0 feet					
4						
5						
6						
7						
8						
9						
10						

BASELINE

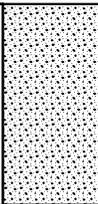
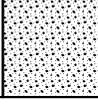
Boring ID: E048

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 2/18/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 7.75 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Very dark gray (N 3/N) GRAVEL with sand, 1/3 to >2 inch diameter angular clasts, dense, moist (Fill)	Removed 2" asphalt, 14" concrete Used 2.5" diameter Cal modified sampler
1	X	GP		0		
2		SC			Dark greenish gray (10Y 4/1) mottled with brown (10YR 4/3) clayey SAND, fine grained, medium dense, moist (Fill)	
3	X	GP			Dusky red (2.5YR 3/2) GRAVEL, 1/3 to >2 inch diameter angular clasts, medium dense, moist, clasts of chert? shale? (Fill)	
Total depth = 3.0 feet						
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E049

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 2/18/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 11.5 feet
Bore size: 7.75 inches

Reviewed by: *Heri Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0			GC		0	Dark reddish gray (2.5Y 3/1) clayey GRAVEL, 1/3 to >2 inch diameter angular to subangular clasts, medium dense, moist, clasts of chert, shale, sandstone (Fill)	Removed 2" asphalt, 10" concrete Used 2.5" diameter Cal modified sampler
1			SM		0	Dark yellowish brown (10YR 3/4) SAND with silt, fine grained, medium dense, moist, areas of dark red (2.5 3/6) and dark greenish gray (5GY 4/1) silty SAND	
2							
3			CL		0	Very dark greenish gray (10Y 3/1) silty CLAY, trace gravel, very soft, medium plasticity, wet, 1/3 inch diameter angular clasts of shale (Fill?) (Bay Mud?)	
4							
5							
6			CL		0	Same as above, pieces of vegetation and shell fragments at 13 feet	Measured water level at 11.5 feet bgs prior to collecting water sample
7							
8							
9							
10			CL		0	Total depth = 13.5 feet	Backfilled boring with bentonite chips once water was removed from boring as result of groundwater collection
11							
12							
13							
14							
15							

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BASELINE

Boring ID: E050

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 2/19/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 11.5 feet
Bore size: 7.75 inches

Reviewed by: *Heidi Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS	
0			SP			Very dark brown (10YR 2/2) SAND with gravel, fine grained, medium dense, moist (Fill)	Removed 3" asphalt, 1" base	
1		X	SC			Dark yellowish brown (10YR 3/4) clayey SAND, fine grained, loose, moist, trace of brick fragments (Fill)		
2		X	ML		218	Dark bluish gray (5B 4/1) clayey SILT with gravel, medium stiff, low plasticity, 1/3 to 3/4 inch diameter subangular to angular clasts of shale and sandstone (Fill)		
3		X						
4			SC		368	Dark greenish gray (10Y 4/1) clayey SAND, fine grained, loose, moist, trace gravel (Fill)		
5								
6								
7			SC		0	Piece of wood at 12.5 feet; small piece of shell fragment (hydraulic fill?)		
8		X						
9			SC		0	Piece of wood at 12.5 feet; small piece of shell fragment (hydraulic fill?)	Collected water sample	
10								
11								
12		X	SC		0	Piece of wood at 12.5 feet; small piece of shell fragment (hydraulic fill?)		
13		X						
14			SC		0	Piece of wood at 12.5 feet; small piece of shell fragment (hydraulic fill?)	Drilled to 15 feet to collect water sample	
15								
16			Total depth = 15.0 feet					Backfilled boring with neat cement topped off with concrete

BASELINE

Boring ID: E051

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 2/17/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 8.0 feet
Bore size: 7.75 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0			GC			Very dusky red (10R 2.5/2) clayey GRAVEL, 1/3 to 3/4 inch diameter subangular to angular clasts, medium dense, moist, clasts of chert (Fill)	Removed 3" asphalt, 1" base Used 2.5" diameter Cal modified sampler Strong petroleum odor
1					25	Dark bluish gray (10B 4/1) clayey SAND, fine grained, medium dense, moist (Fill), trace gravel, 1/2 to 3/4 inch diameter angular clasts of sandstone	
2					40		
3							
4							
5							
6			SC				
7					3695	Dark bluish gray (10B 4/1) SAND, trace clay, fine grained, loose, wet	
8							
9							
10							
11							2/17/09: waited 1/2 hour for water to accumulate in boring; very little Placed temporary casing; let stand overnight Placed bentonite chips around borehole to prevent surface water intrusion
12			OL		2.4	Black (10YR 2/1) PEAT (Bay Mud)	2/18/09: water level was 11.5+ feet bgs
13							
Total depth = 13.0 feet							
14							

BASELINE

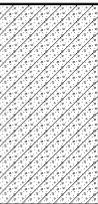
Boring ID: E052

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 2/19/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 7.75 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0						
0 - 1	X	GC		0	Very dusky red (2.5YR 2.5/2) clayey GRAVEL, 1/3 to >1.5 inch diameter angular clasts of chert, medium dense, moist, pieces of brick at contact (Fill)	Removed 8" asphalt
1 - 2	X	SP		0	Light olive brown (2.5Y 5/3) SAND, fine grained, loose, moist, trace gravel (Fill)	
2 - 3	X					
Total depth = 3.0 feet						Backfilled boring with bentonite chips capped with cement
3						
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E053

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 2/19/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size:

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		SP			Olive brown (2.5Y 4/3) SAND, fine grained, loose, moist (Fill)	Removed vegetation
1	X	SW			Greenish gray (10Y 5/1) SAND with gravel, fine to coarse grained, 1/3 to 3/4 inch diameter subrounded to subangular clasts, moist (Fill)	
2	X	GC			Very dusky red (2.5YR 2.5/2) clayey GRAVEL, 1/3 to >1.5 inch diameter angular clasts of chert, medium dense, moist	
		SP			Olive brown (2.5Y 4/3) SAND with clay, fine grained, loose, moist (Fill)	
					Total depth = 2.5 feet	Backfilled boring with bentonite chips
3						
4						
5						
6						
7						
8						
9						
10						

BASELINE

Boring ID: E054

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 2/17/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 5.5 feet
Bore size: 7.75 inches

Reviewed by: *Heri Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0			GM/GC			Dark brown (7.5YR 3/3) silty GRAVEL-clayey GRAVEL, 1/2 to >2 inch diameter subangular to angular clasts, medium dense, moist, clasts of sandstone (Fill)	Removed 2" asphalt, 10" base Used 2.5" diameter Cal modified sampler to 2.5 feet, then 2" diameter sampler
1			GC		0	Dark reddish brown (2.5YR 2.5/4) clayey GRAVEL, 1/3 to 1.5 inch diameter angular clasts, medium dense, moist, crushed chert and shale (Fill)	
2					0	Dark yellowish brown (10YR 4/6) SAND with clay, medium dense, moist Crushed serpentinite at 2.5 feet	
3							
4			SC				
5							
6							
7			SP		0	Very dark greenish gray (10BG 3/1) SAND, loose, wet, hydraulic fill?	
8							
9							
10							
11							
12			CH		0	Dark greenish gray (10BG 4/1) CLAY, very soft, high plasticity, wet, shell fragments, rootlets, Bay Mud	
13							
14							Drilled to 15 feet to collect water sample Collected water sample Bay Mud on tip of auger
15						Total depth = 15.0 feet	Backfilled boring with neat cement using tremie method; used concrete at surface
16							

BASELINE

Boring ID: E055

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 1/23/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 7.75 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0						
0 - 1	X	SP		0	Yellowish brown (10YR 5/4) SAND with gravel and clay, fine grained, loose to medium dense, moist, 1/3 to >2 inch diameter clasts of sandstone (Fill)	Removed 3" asphalt, 3" base Used 2.5" diameter Cal modified sampler to 2.5 feet, then 2" diameter sampler
1 - 2	X					
2 - 3	X	CL		0	Very dark brown (10YR 2/2) with areas mottled in dark greenish gray (GLE Y1 4/1) CLAY with gravel, trace sand, medium stiff, soft, low plasticity, moist (Fill)	
3 - 4					Very dark greenish gray (GLE Y1 10GY 3/1) SAND, fine grained, loose, wet (Fill) hydraulic?	
4 - 6						
6 - 7	X					
7 - 8	X	SP		0		
8 - 9						
9 - 10						
10 - 11						
11 - 12	X				Some clayed areas	
12 - 13	X			0		
13 - 14	X			0		
14 - 15						
Total depth = 12.5 feet						Grouted boring with neat cement; used bentonite chips to finish to 0.5 foot bgs, then soil cap to surface
						11:50 - augered to 15 feet; pulled auger back to 12 feet, waited for water recharge

BASELINE

Boring ID: E056

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 2/17/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 5.5 feet
Bore size: 7.75 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					0	Brown (10YR 4/3) SAND, trace gravel, fine grained, loose, moist, large pieces of concrete, some brick (Fill)	Removed 2" asphalt, 2" base Used 2.5" diameter Cal modified sampler Moved 1 foot east to collect 1.0 and 7.5 foot samples
1		X					
2		X	SP				
3							
4							
5	▽					Very dark gray (10YR 3/1) SAND, fine grained, loose, wet (Fill) hydraulic fill	Collected groundwater sample
6							
7		X					Flowing sands in auger No recovery at 7.5 on first attempt
8			SP				
9							
10							
11		X					Flowing sands; could not get to 12.5 feet
Total depth = 11.5 feet							Grouted boring with neat cement, finished with concrete
12							
13							
14							
15							

BASELINE

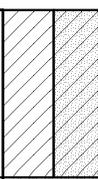
Boring ID: E057

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 1/22/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 7.75 inches

Reviewed by: *Heidi Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Dark yellowish brown (10YR 4/4) sandy CLAY-clayey SAND, fine grained, soft, moist (Fill)	Removed 4" asphalt, 8" baserock Used 2.5" diameter Cal modified sampler to 2.5 feet, then 2" diameter
1		CL/SC		0	Dark brown (10YR 3/3) SAND, fine grained, loose, wet	6" recovery 1 foot to 2.5 feet
2		SP			Pieces of concrete from 1.5 to 2.0 feet	
3		CH			Greenish gray (GLE2 5/1) mottled yellowish brown (10YR 5/8) CLAY, soft, high plasticity, moist to wet, pieces of gravel rock (Fill)	
4				0	Very dark gray (10YR 3/1) SAND, fine grained, loose, wet (Fill) (hydraulic fill)	
5		SP				
6						
7				0		
Total depth = 7.5 feet					Backfilled boring with neat cement grout	
8						
9						
10						

BASELINE

Boring ID: E058

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 1/23/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 7.75 inches

Reviewed by: *Heidi Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		SP		0	Very dark gray (10YR 3/1) SAND, fine grained, loose, moist, rootlets (Fill)	Removed surface vegetation Used 2.5" diameter Cal modified sampler to 2.5 feet, then 2" diameter Cal modified sampler
1		GW			Dark reddish brown (5YR 3/2) GRAVEL with sand, 1/3 to >2 inch diameter angular clasts, medium dense, moist (Fill)	
2		SP		0	Very dark grayish brown (10YR 3/2) SAND with gravel, fine grained, medium dense to loose, moist, 1/3 to >1.5 inch diameter angular to subangular clasts of shale, sandstone (Fill)	
3		SP				
4					Very dark greenish gray (GLEY2 10G 3/1) SAND, fine grained, loose, wet (hydraulic fill)	
5						
6		SP		0		
7						
Total depth = 7.5 feet						Grouted boring with neat cement Used bentonite chips to finish off to 0.5 foot, then concrete cap
8						
9						
10						

BASELINE

Boring ID: E059

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 1/23/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): None observed
Bore size: 7.75 inches

Reviewed by: *Kevin Page*

Depth (feet)	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0					Olive (5Y 4/4) SAND, fine grained, loose, moist (Fill)	Removed 4" asphalt, 8" base
1	X	SP		0		
2	X			0	Very dark gray (10YR 3/1) CLAY with gravel, high plasticity, moist, 1/3 to 1 inch diameter clasts of brick pieces, sandstone (Fill)	
3						
4		CH				
5						
6						
7	X	OL		0	Very dark gray (10YR 3/2) to black (10YR 2/1) organic layer (Fill?) with sand lenses few inches thick	
Total depth sampled = 7.5 feet					Augered to 12 feet to obtain water; no water accumulated	
8						
9						
10						

BASELINE

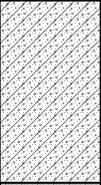
Boring ID: E060

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 1/23/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): ~8-9 feet
Bore size: 7.75 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0			SP			Very dark brown (10YR 2/2) SAND, fine grained, loose to very loose, moist, rootlets (Fill)	Removed surface vegetation Used 2.5" diameter Cal modified sampler to 2.5 feet, then 2" diameter sampler
1			GC		0	Dark reddish brown (5YR 3/2) clayey GRAVEL, 1/3 to >1.5 inch diameter angular clasts of chert, serpentinite, dense, moist (Fill)	
2					0	Very dark gray (10YR 3/1) SAND, fine grained, loose, moist (Fill)	
4			SP				
6						Dark olive gray (5Y 3/2) SAND, fine grained, loose, moist (Fill) (hydraulic fill)	
7							
8			SP				
9	▼						
10							
Total depth = 10.0 feet							
11							

BASELINE

Boring ID: E061

5900 Hollis Street, D
Emeryville, CA 94608
(510) 420-8686
(510) 420-1707 fax

Date: 1/22/09
Project no.: Y0239-04.A3
Driller: Gregg Drilling
Method: HSA

Location: Doyle Drive, San Francisco
Logger: WK Scott, P.G. #6104
Groundwater depth (bgs): 11.5 feet
Bore size: 7.75 inches

Reviewed by: *Kevin Page*

Depth (feet)	Water Level	Sample	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0							
0 - 1		X	SP		0	Very dark brown (10YR 3/3) SAND with gravel, fine grained, medium dense, moist, pieces of landscape fabric?, 1/3 to 3/4 inch diameter subrounded to angular clasts (Fill)	Removed 4" asphalt, 8" baserock Used 2.5" diameter Cal modified sampler, then 2" diameter sampler
1 - 2		X			0	Dark yellowish brown SAND, fine grained, medium dense, moist (Colma)	
2 - 6		X			0	Becoming mottled with strong brown (7.5YR 4/6)	
6 - 11		X	SP		0		
11 - 12.5	▼	X	SP			Dark grayish brown (2.5Y 4/2) SAND, fine grained, medium dense, wet, Colma	
Total depth = 12.5 feet						Grouted boring with neat cement	
13							
14							