

TABLES

TABLE 1

2005 SAMPLE COLLECTION AND ANALYSIS SUMMARY ¹
 Santa Cruz Branch Line
 Santa Cruz County, California

Location	Boring ID/ Sample ID	Approximate UPRR Milepost	Date Collected	Sample Depth ²	Sample Analysis ³								Location Notes	
					TPHg	TPHd	TPHm	PAHs	Metals	VOCs	Pst	pH		
Section I	Davenport Drainage Tunnel	SB-01	31.36	4/25/05	5	X ⁴	X	-- ⁵	X	X	X	--	X	Approximately 200 feet north of Cemex driveway, and 15 feet east of track
					10	X	X	--	X	X	X	--	--	
	Davenport Loading Shed and Freight Depot	SB-02	31.42	4/25/05	1	X	X	--	X	X	--	X	--	Approximately 500 feet north of Cemex driveway, and 25 feet east of track
					5	X	X	--	X	X	X	--	--	
		SB-03	31.40	4/25/05	1	X	X	--	X	X	--	X	--	Approximately 400 feet north of Cemex driveway, and 25 feet east of track
					5	X	X	--	X	X	X	--	--	
	Potential UST & Engine House	SB-04	26.69	4/28/05	1	X	X	--	X	X	--	--	--	In field, approximately 80 feet east of track
					5	X	X	--	X	X	X	--	--	
		SB-05	26.69	4/28/05	1	X	X	--	X	X	--	--	--	In field, approximately 30 feet east of track
					5	X	X	--	X	X	X	--	--	
	Agricultural Systematic Sampling (North)	SB-06	27.00	4/25/05	0.5	--	X	X	X	X	--	X	--	Next to farm road, approximately 25 feet east of track
					1.5	--	H ⁶	H	H	H	--	H	--	
					3	--	H	H	H	H	--	H	--	
		SB-07	26.65	4/25/05	0.5	--	X	X	X	X	--	X	--	Next to farm road, approximately 25 feet east of track
					1.5	--	H	H	H	H	--	H	--	
					3	--	H	H	H	H	--	H	--	
		SB-08	26.36	4/25/05	0.5	--	X	X	X	X	--	X	--	Next to farm road, approximately 15 feet west of track
					1.5	--	H	H	H	H	--	X	--	
3					--	H	H	H	H	--	X	--		
SB-09	26.11	4/25/05	0.5	--	X	X	X	X	--	X	--	Next to farm road, approximately 15 feet west of track		
			1.5	--	X	X	H	X	--	X	--			

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					TPHg	TPHd	TPHm	PAHs	Metals	VOCs	Pst	pH		
Section II	Miscellaneous Dumping near Mission Industrial Lands	21.70	4/25/05	0.5	--	X	X	X	X	X	--	--	--	Approx. 500 feet west of Swift St, approximately 40 feet south of track
				1.5	--	H	H	X	X	X	--	--		
				3	--	H	H	X	X	H	--	--		
	Atypical Soil Staining (Santa Cruz Station)	20.29	4/28/05	0.5	--	X	X	X	X	X	--	--	--	Between tracks at west junction, approximately 10 feet north of track
				1.5	--	H	H	H	X	X	--	--		
				3	--	H	H	H	H	H	--	--		
	Tool House (Santa Cruz Station)	20.27	4/28/05	1	X	X	--	X	X	--	--	--	Between tracks at west junction, approximately 20 feet north of track	
				5	X	X	--	X	X	X	--	--		
				10	X	X	--	X	X	X	--	--		
	Motorcar House (Santa Cruz Station)	20.14	4/28/05	1	X	X	--	X	X	--	--	--	West of Bay St bridge, approximately 25 feet north of track	
				5	X	X	--	X	X	X	--	--		
				10	X	X	--	X	X	X	--	--		
	Freight House (Santa Cruz Station)	20.12	4/28/05	1	X	X	--	X	X	--	--	--	Edge of asphalt, approximately 15 feet north of track	
				5	X	X	--	X	X	X	--	--		
				10	X	X	--	X	X	X	--	--		
	Seabright Station	18.99	4/25/05	1	X	X	--	X	X	--	--	--	Northeast corner of Seabright Ave and Murray St, approximately 30 feet north of track	
				5	X	X	--	X	X	X	--	--		
				10	X	X	--	X	X	X	--	--		
	Railroad Ties ⁷	SB-51	20.30	4/29/05	0.5	--	--	--	X	X	--	--	--	Approximately 50 feet west of boring location SB-11, and 20 feet south of track
					1.5	--	--	--	H	X	X	--	--	
					3	--	--	--	H	H	H	--	--	
		SB-54	21.70	4/29/05	0.5	--	--	--	X	X	--	--	--	Approximately 500 feet west of Swift St, approximately 40 feet south of track
					1.5	--	--	--	X	H	X	--	--	
					3	--	--	--	X	H	H	--	--	

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					TPHg	TPHd	TPHm	PAHs	Metals	VOCs	Pst	pH		
Lumber Yard, Paint Shop, and Boat Repair Facility	SB-16	18.43	4/28/05	1	X	X	X	X	X	--	--	--	West of 7th Ave, approximately 10 feet south of track	
				5	X	X	X	X	X	X	--	--		
				10	X	X	X	X	X	X	--	--		
	SB-17	18.43	4/28/05	1	X	X	X	X	X	--	--	--		West of 7th Ave, approximately 10 feet north of track
				5	X	X	X	X	X	X	--	--		
				10	X	X	X	X	X	X	--	--		
Residential Systematic Sampling	SB-18	17.86	4/27/05	0.5	--	X	X	X	X	--	--	--	East of 17th Ave, approximately 15 feet south of track	
				1.5	--	H	H	H	H	--	--	--		
				3	--	H	H	H	H	--	--	--		
	SB-19	17.57	4/27/05	0.5	--	X	X	X	X	--	--	--	End of Corcoran Ave, approximately 15 feet south of track	
				1.5	--	H	H	H	H	--	--	--		
				3	--	H	H	H	H	--	--	--		
	SB-20	17.20	4/27/05	0.5	--	X	X	X	X	--	--	--	East of 30th Ave, approximately 15 feet north of track	
				1.5	--	H	H	H	H	--	--	--		
				3	--	H	H	H	H	--	--	--		
	SB-21	16.89	4/27/05	0.5	--	X	X	X	X	--	--	--	West of 38th Ave, approximately 10 feet north of track	
				1.5	--	H	H	H	H	--	--	--		
				3	--	H	H	H	H	--	--	--		
Former Freight House	SB-22	16.40	4/27/05	1	X	X	X	X	X	--	--	--	West of 47th Ave, approximately 10 feet north of track	
				5	X	X	X	X	X	X	--	--		
				10	X	X	X	X	X	X	--	--		
	SB-23	16.39	4/27/05	1	X	X	X	X	X	--	--	--	West of 47th Ave, approximately 10 feet north of track	
				5	X	X	X	X	X	X	--	--		
				10	X	X	X	X	X	X	--	--		
Railroad Tie ⁷	SB-52	9.69	4/29/05	0.5	--	--	--	X	X	--	--	--	Approximately 50 feet south of private crossing, and 5 feet west of track	
				1.5	--	--	--	X	X	X	--	--		
				3	--	--	--	X	X	H	--	--		

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					TPHg	TPHd	TPHm	PAHs	Metals	VOCs	Pst	pH	
Section IV Undeveloped Systematic Sampling	SB-24	7.73	4/27/05	0.5	--	X	X	X	X	--	--	--	South of Spring Valley Rd, approximately 20 feet west of track
				1.5	--	H	H	H	H	--	--	--	
				3	--	H	H	H	H	--	--	--	
	SB-25	7.26	4/27/05	0.5	--	X	X	X	X	--	--	--	North of Peaceful Valley Dr, approximately 15 feet west of track
				1.5	--	H	H	X	H	--	--	--	
				3	--	H	H	X	H	--	--	--	
	SB-26	6.87	4/27/05	0.5	--	X	X	X	X	--	--	--	North of Buena Vista Rd, approximately 15 feet west of track
				1.5	--	H	H	H	H	--	--	--	
				3	--	H	H	H	H	--	--	--	
	SB-27	6.55	4/27/05	0.5	--	X	X	X	X	--	--	--	Approximately 1500 feet east of Buena Vista Rd, and 15 feet north of track
				1.5	--	H	H	H	H	--	--	--	
				3	--	H	H	H	H	--	--	--	
Agricultural Systematic Sampling (South)	SB-28	3.89	4/27/05	0.5	--	X	X	X	X	--	X	--	Next to farm road, approximately 20 feet north of track
				1.5	--	H	H	H	X	--	X	--	
				3	--	H	H	H	X	--	X	--	
	SB-29	3.38	4/27/05	0.5	--	X	X	X	X	--	X	--	Next to farm road, approximately 15 feet north of track
				1.5	--	H	H	H	H	--	X	--	
				3	--	H	H	H	H	--	X	--	
	SB-30	3.16	4/27/05	0.5	--	X	X	X	X	--	X	--	Next to farm road, approximately 15 feet north of track
				1.5	--	X	X	X	H	--	H	--	
				3	--	H	H	H	H	--	H	--	
	SB-31	2.82	4/27/05	0.5	--	X	X	X	X	--	X	--	Next to farm road, approximately 20 feet north of track
				1.5	--	H	H	H	H	--	X	--	
				3	--	H	H	H	H	--	X	--	

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					TPHg	TPHd	TPHm	PAHs	Metals	VOCs	Pst	pH		
Section IV Surface Staining	SB-32	2.79	4/27/05	0.5	--	X	X	X	X	X	--	--	--	East of Lee Rd, approximately 20 feet south of track
				1.5	--	H	H	H	X	X	--	--		
				3	--	H	H	H	X	H	--	--		
	SB-33	2.78	4/27/05	0.5	--	X	X	X	X	X	--	--	--	East of Lee Rd, approximately 20 feet south of track
				1.5	--	H	H	X	H	X	--	--		
				3	--	H	H	H	H	H	--	--		
Section IV Industrial Systematic Sampling	SB-34	2.61	4/26/05	0.5	--	X	X	X	X	X	--	--	--	East of Errington Rd, approximately 10 feet south of track
				1.5	--	X	X	X	H	--	--	--		
				3	--	X	X	X	H	--	--	--		
	SB-35	2.53	4/26/05	0.5	--	X	X	X	X	X	--	--	--	Approximately 420 feet east of Errington Rd, 15 feet south of track
				1.5	--	X	X	H	X	--	--	--		
				3	--	X	X	H	X	--	--	--		
	SB-36	2.45	4/26/05	0.5	--	X	X	X	X	X	--	--	--	Approximately 840 feet east of Errington Rd, 15 feet south of track
				1.5	--	H	H	H	H	--	--	--		
				3	--	H	H	H	H	--	--	--		
	SB-37	2.28	4/26/05	0.5	--	X	X	X	X	X	--	--	--	Approximately 1740 feet east of Errington Rd, 15 feet south of track
				1.5	--	X	X	H	X	--	--	--		
				3	--	X	X	H	X	--	--	--		
	SB-38	2.11	4/26/05	0.5	--	X	X	X	X	X	--	--	--	Approximately 2270 feet west of West Beach St, 15 feet south of track
				1.5	--	H	H	H	X	--	--	--		
				3	--	H	H	H	X	--	--	--		
	SB-39	1.94	4/26/05	0.5	--	X	X	X	X	X	--	--	--	Approximately 1370 feet west of West Beach St, 15 feet south of track
				1.5	--	H	H	H	H	--	--	--		
				3	--	H	H	H	H	--	--	--		

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					TPHg	TPHd	TPHm	PAHs	Metals	VOCs	Pst	pH		
Section IV Industrial Systematic Sampling (Continued)	SB-40	1.81	4/26/05	0.5	--	X	X	X	X	X	--	--	--	Approximately 690 feet west of West Beach St, 15 feet south of track
				1.5	--	H	H	X	X	--	--	--		
				3	--	H	H	X	X	--	--	--		
	SB-41	1.68	4/26/05	0.5	--	X	X	X	X	X	--	--	--	West of West Beach St, approximately 15 feet south of track
				1.5	--	X	X	X	X	--	--	--		
				3	--	X	X	X	X	--	--	--		
Materials Storage at Former Exxon Fueling Station	SB-42	2.55	4/28/08	1	X	X	X	X	X	X	--	--	--	Approximately 315 feet east of Errington Rd, 15 feet south of track
			4/26/05	5	X	X	X	X	X	X	--	--		
				10	X	X	X	X	X	X	--	--		
Surface Staining Discharge from Drisco Pipe	SB-43	2.34	4/26/05	0.5	--	X	X	X	X	X	--	--	--	Approximately 1425 feet east of Errington Rd, 25 feet south of track
				1.5	--	H	H	H	X	X	--	--		
				3	--	H	H	H	X	H	--	--		
	SB-44	2.34	4/26/05	0.5	--	X	X	X	X	X	--	--	--	Approximately 1440 feet east of Errington Rd, 25 feet south of track
				1.5	--	H	H	H	X	X	--	--		
				3	--	H	H	H	X	H	--	--		
Surface Staining Adjacent to Granite Construction Company	SB-45	2.32	4/26/05	0.5	--	X	X	X	X	X	--	--	--	Approximately 1530 feet east of Errington Rd, 25 feet south of track
				1.5	--	H	H	H	H	H	--	--		
				3	--	X	X	X	X	X	--	--		
	SB-46	2.31	4/26/05	0.5	--	X	X	X	X	X	--	--	--	Approximately 1580 feet east of Errington Rd, 25 feet south of track
				1.5	--	X	X	H	X	X	--	--		
				3	--	X	X	H	X	H	--	--		
Surface Staining	SB-47	1.81	4/26/05	0.5	--	X	X	X	X	X	--	--	--	Approximately 690 feet west of West Beach St, 20 feet north of track
				1.5	--	H	H	H	X	X	--	--		
				3	--	H	H	H	X	H	--	--		
	SB-48	1.80	4/26/05	0.5	--	X	X	X	X	X	--	--	--	Approximately 640 feet west of West Beach St, 20 feet north of track
				1.5	--	H	H	H	X	X	--	--		
				3	--	H	H	H	X	H	--	--		

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					TPHg	TPHd	TPHm	PAHs	Metals	VOCs	Pst	pH		
Section IV In-ground Oil Tanks	SB-49	1.20	4/26/05	1	X	X	X	X	X	X	--	--	--	Northeast corner of Walker St and West Front St, approximately 10 feet east of track
			4/28/05	5	X	X	X	X	X	X	--	--		
			4/26/05	10	X	X	X	X	X	X	--	--		
	SB-50	1.18	4/26/05	1	X	X	X	X	X	X	--	--	--	Southwest corner of Walker St and West Front St, approximately 15 feet west of track
			4/26/05	5	X	X	X	X	X	X	--	--		
			4/26/05	10	X	X	X	X	X	X	--	--		
Railroad Tie ⁷	SB-53	6.71	4/29/05	0.5	--	--	--	X	X	--	--	--	Approximately 800 feet east of Buena Vista Rd, and 5 feet north of track	
			4/29/05	1.5	--	--	--	X	X	X	--	--		
			4/29/05	3	--	--	--	X	X	H	--	--		

Notes

1. Soil samples collected by AMEC Geomatrix, Inc., and analyzed by STL San Francisco of Pleasanton, CA, using analytical methods specified below.
2. Measured in feet below ground surface
3. TPHg = Total Petroleum Hydrocarbons quantified as gasoline by EPA Method 8015M
 TPHd = Total Petroleum Hydrocarbons quantified as diesel by EPA Method 8015M
 TPHm = Total Petroleum Hydrocarbons quantified as motor oil by EPA Method 8015M
 PAHs = Polynuclear Aromatic Hydrocarbons by EPA Method 8270 SIM
 Metals = CAM 17 Metals by EPA 6000/7000 series for targeted locations; LUFT 5 metals by EPA 6010B for Systematic Samples
 VOCs = Volatile Organic Compounds by EPA Method 8260
 Pst = Pesticides by EPA Method 8081A
 pH by EPA 9045C
4. X = Sample analyzed for constituent indicated.
5. "--" = No sample collected for analysis indicated.
6. H = Sample placed on hold with laboratory following sample collection. Based on results of the shallower sample at this location the analysis was not conducted.
7. Soil samples collected next to railroad ties or as close to railroad ballast as possible.

TABLE 2

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 Santa Cruz and Monterey Counties, California

Location	Boring ID/ Sample ID	Approximate UPRR Milepost	Date Collected	Sample Depth ²	Sample Analysis ³				Location Notes
					TPHd	TPHm	PAHs	Select Metals	
Section II Near SB-10 Miscellaneous Dumping near Mission Industrial Lands	SB-77	21.79	2/11/09	0.5	-	-	X	X	Approximately 465 feet west of milepost 21.70 (Swift Street), approximately 40 feet south of track
				1.5	-	-	X	X	
				3	-	-	X	X	
	SB-78	21.79	2/11/09	0.5	-	-	X	X	Approximately 483 feet west of milepost 21.70 (Swift Street), approximately 50 feet south of track
				1.5	-	-	X	X	
				4.5	-	-	X	X	
	SB-79	21.80	2/11/09	0.5	-	-	X	X	Approximately 517 feet west of milepost 21.70 (Swift Street), approximately 50 feet south of track
				1.5	-	-	X	X	
				4.5	-	-	X	X	
	SB-80	21.79	2/11/09	0.5	-	-	X	X	Approximately 483 feet west of milepost 21.70 (Swift Street), approximately 30 feet south of tracks
				4.5	-	-	X	X	
				5.5	-	-	X	X	
	SB-81	21.80	2/11/09	0.5	-	-	X	X	Approximately 517 feet west of milepost 21.70 (Swift Street) , approximately 30 feet south of tracks
				1.5	-	-	X	X	
				4.5	-	-	X	X	
	SB-82	21.80	2/11/09	0.5	-	-	X	X	Approximately 535 feet west of milepost 21.70 (Swift Street), approximately 40 feet south of tracks
				1.5	-	-	X	X	
				4.5	-	-	X	X	
Section III Residential Systematic Sampling	SB-83	17.81	2/12/09	0.5	-	-	-	X	Approximately 345 east of 17th Ave
				1.5	-	-	-	X	
				4.5	-	-	-	X	
	SB-84	17.74	2/12/09	0.5	-	-	-	X	Approximately 690 feet east of 17th Ave
				1.5	-	-	-	X	
				4.5	-	-	-	X	
	SB-85	17.65	2/12/09	0.5	-	-	-	X	Approximately 1,035 feet east of 17th Ave
				1.2	-	-	-	X	
				4.5	-	-	-	X	
	SB-86	17.54	2/12/09	0.5	-	-	-	X	Approximately 1,725 feet east of 17th Ave
				1.5	-	-	-	X	
				4.5	-	-	-	X	
SB-87	17.48	2/12/09	0.5	-	-	-	X	Approximately 2,070 feet east of 17th Ave	
			1.5	-	-	-	X		
			4.5	-	-	-	X		

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<u>Section III Residential Systematic Sampling (cont.)</u>	SB-88	17.41	2/12/09	0.5	-	-	-	X	Approximately 2,415 east of 17th Ave	
				1.5	-	-	-	X		
				4.5	-	-	-	X		
	SB-89	17.36	2/12/09	0.5	-	-	-	X	Approximately 2,685 feet east of 17th Ave	
				1.5	-	-	-	X		
				4.5	-	-	-	X		
	SB-90	17.29	2/12/09	0.5	-	-	-	X	Approximately 3,105 feet east of 17th Ave	
				1.5	-	-	-	X		
				4.5	-	-	-	X		
	SB-91	17.15	2/12/09	0.5	-	-	-	X	Approximately 3,795 feet east of 17th Ave	
				1.5	-	-	-	X		
				4.5	-	-	-	X		
	SB-92	17.09	2/12/09	0.5	-	-	-	X	Approximately 4,140 feet east of 17th Ave	
				1.5	-	-	-	X		
				4.5	-	-	-	X		
	SB-93	17.02	2/12/09	0.5	-	-	-	X	Approximately 4,485 feet east of 17th Ave	
				1.5	-	-	-	X		
				4.5	-	-	-	X		
	SB-94	16.96	2/12/09	0.5	-	-	-	X	Approximately 4,830 feet east of 17th Ave	
				1.5	-	-	-	X		
				4.5	-	-	-	X		
	<u>Section III Near SB-23 Former Freight House</u>	SB-74	16.39	2/11/09	0.5	-	-	-	X	Approximately 60 feet west of sidewalk on 47th Ave
					1.5	-	-	-	X	
					3	-	-	-	X	
SB-75		16.39	2/11/09	0.5	-	-	-	X	Approximately 70 feet west of sidewalk on 47th Ave, approximately 20 feet north of track	
				1.5	-	-	-	X		
				4.5	-	-	-	X		
SB-76		16.39	2/11/09	0.5	-	-	-	X	Approximately 80 feet west of sidewalk on 47th Ave	
				1.5	-	-	-	X		
				3	-	-	-	X		

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2009 SAMPLE COLLECTION AND ANALYSIS SUMMARY
 Santa Cruz Branch Line
 Santa Cruz and Monterey Counties, California

Location	Boring ID/ Sample ID	Approximate UPRR Milepost	Date Collected	Sample Depth ²	Sample Analysis ³				Location Notes
					TPHd	TPHm	PAHs	Select Metals	
Section IV Residential Systematic Sampling Between Seascape and Capitola	SB-71	10.81	2/11/09	0.5	X	X	X	X	Approximately 70 feet northwest of milepost 10.81 (Clubhouse Drive)
				1.5	H	H	X	X	
				4.5	H	H	H	X	
	SB-72	11.86	2/11/09	0.5	X	X	X	X	Approximately 800 feet southeast of Rio Del Mar
				1	H	H	H	X	
				4.5	H	H	H	X	
	SB-73	11.97	2/11/09	0.5	X	X	X	X	Approximately 260 feet southeast of Rio Del Mar
				1.5	H	H	H	X	
				4.5	H	H	H	X	
	SB-103	10.81	4/13/09	0.5	X	X	X	X	Approximately 75 feet east of eastern curb at milepost 10.81 (Clubhouse Drive)
				1.5	H	H	H	X	
				4.5	H	H	H	X	
Section IV Undeveloped Systematic Sampling	SB-59	6.62	2/10/09	0.5	-	-	-	X	Approximately 1,360 feet east of milepost 6.87
				1.5	-	-	-	X	
				4.5	-	-	-	X	
	SB-60	6.68	2/10/09	0.5	-	-	-	X	Approximately 1,020 feet east of milepost 6.87
				1.5	-	-	-	X	
				4.5	-	-	-	X	
	SB-61	6.74	2/10/09	0.5	-	-	-	X	Approximately 680 feet east of milepost 6.87
				1.5	-	-	-	X	
				4.5	-	-	-	X	
	SB-62	6.81	2/10/09	0.5	-	-	-	X	Approximately 340 feet east of milepost 6.87
				1.5	-	-	-	X	
				4.5	-	-	-	X	
	SB-63	6.93	2/10/09	0.5	-	-	-	X	Approximately 340 feet west of milepost 6.87
				1.5	-	-	-	X	
				4.5	-	-	-	X	
	SB-64	7.00	2/10/09	0.5	-	-	-	X	Approximately 680 feet west of milepost 6.87
				1.5	-	-	-	X	
				4.5	-	-	-	X	

TABLE 2

2009 SAMPLE COLLECTION AND ANALYSIS SUMMARY
 Santa Cruz Branch Line
 Santa Cruz and Monterey Counties, California

Location	Boring ID/ Sample ID	Approximate UPRR Milepost	Date Collected	Sample Depth ²	Sample Analysis ³				Location Notes		
					TPHd	TPHm	PAHs	Select Metals			
Section IV Undeveloped Systematic Sampling (cont.)	SB-65	7.06	2/10/09	0.5	-	-	-	X	Approximately 1,020 feet west of milepost 6.87		
				1.5	-	-	-	X			
				4.5	-	-	-	X			
	SB-66	7.13	2/10/09	0.5	-	-	-	X		Approximately 1,360 feet west of milepost 6.87	
				1.5	-	-	-	X			
				4.5	-	-	-	X			
	SB-67	7.19	2/10/09	0.5	-	-	-	X			Approximately 1700 feet west of milepost 6.87
				1.5	-	-	-	X			
				4.5	-	-	-	X			
	SB-68	7.55	2/10/09	0.5	-	-	-	X	Approximately 1,020 feet east of milepost 7.74		
				1.5	-	-	-	X			
				4.5	-	-	-	X			
	SB-69	7.61	2/10/09	0.5	-	-	-	X		Approximately 680 feet east of milepost 7.74	
				1.5	-	-	-	X			
				4.5	-	-	-	X			
	SB-70	7.68	2/10/09	0.5	-	-	-	X			Approximately 340 feet east of milepost 7.74
				1.5	-	-	-	X			
				4.5	-	-	-	X			
Section IV Agricultural-South Systematic Sampling	SB-55	3.00	2/9/09	0.5	-	-	-	X	Approximately 950 feet west of milepost 2.82 (Lee Road)		
				1.5	-	-	-	X			
				4.5	-	-	-	X			
	SB-56	3.29	2/9/09	0.5	-	-	-	X		Approximately 2,500 feet west of milepost 2.82 (Lee Road)	
				1	-	-	-	X			
				4.5	-	-	-	X			
	SB-57	3.58	2/9/09	0.5	-	-	-	X			Approximately 3,993 feet west of milepost 2.82 (Lee Road)
				1.5	-	-	-	X			
				3.5	-	-	-	X			
	SB-58	3.75	2/9/09	0.5	-	-	-	X	Approximately 4,886 feet west of milepost 2.82 (Lee Road)		
				1.5	-	-	-	X			
				3.5	-	-	-	X			

TABLE 2

2009 SAMPLE COLLECTION AND ANALYSIS SUMMARY
 Santa Cruz Branch Line
 Santa Cruz and Monterey Counties, California

Location	Boring ID/ Sample ID	Approximate UPRR Milepost	Date Collected	Sample Depth ²	Sample Analysis ³				Location Notes
					TPHd	TPHm	PAHs	Select Metals	
Section IV Near SB-45 Surface Staining Adjacent to Granite Construction Company	SB-97	2.24	4/13/09	0.5	X	X	-	-	Approximately 1,175 feet east of Ohlohne Parkway, approximately 25 feet south of track
				4.5	X	X	-	-	
				10	X	X	-	-	
				12	H	H	-	-	
	SB-98	2.24	4/13/09	0.5	X	X	-	-	Approximately 1,166 feet east of Ohlone Parkway, 25 feet south of track
				4.5	H	H	-	-	
				10	H	H	-	-	
				11.5	H	H	-	-	
	SB-99	2.15	4/13/09	0.5	X	X	-	-	1,155 feet east of Ohlone Parkway, 25 feet south of track
				4.5	H	H	-	-	
				10	H	H	-	-	
				11	H	H	-	-	
	SB-100	2.15	4/13/09	0.5	H	H	-	-	1,197 feet east of Ohlone Parkway, 35 feet south of track
				4.5	H	H	-	-	
				10	X	X	-	-	
				15.75	X	X	-	-	
	SB-101	2.15	4/13/09	0.5	X	X	-	-	1, 210 east of Ohlone Parkway, 25 feet south of track
				4.5	X	X	-	-	
				10	X	X	-	-	
				20	X	X	-	-	
	SB-102	2.15	4/13/09	0.5	H	H	-	-	1,227 feet east of Ohlone Parkway, 25 feet south of track
				4.5	X	X	-	-	
				12	X	X	-	-	
				20	X	X	-	-	

TABLE 2

2009 SAMPLE COLLECTION AND ANALYSIS SUMMARY
 Santa Cruz Branch Line
 Santa Cruz and Monterey Counties, California

Location	Boring ID/ Sample ID	Approximate UPRR Milepost	Date Collected	Sample Depth ²	Sample Analysis ³				Location Notes
					TPHd	TPHm	PAHs	Select Metals	
Section IV Gino Rinaldi, Inc.	SB-95	0.7	2/12/09	0.5	X	X	X	X	Approximately 145 feet south of Freemont Street
				1.5	H	H	H	X	
	SB-96	0.7	2/12/09	0	X	X	X	X	Approximately 235 feet south of Freemont Street
				1.5	H	H	X	X	

Notes

1. Soil samples collected by AMEC Geomatrix, Inc., and analyzed by TestAmerica San Francisco of Pleasanton, CA, using analytical methods specified below.
2. Measured in feet below ground surface
3. TPHd = Total Petroleum Hydrocarbons quantified as diesel (classified as Diesel Range Organics [DRO] by the laboratory) by EPA Method 8015B
 TPHm = Total Petroleum Hydrocarbons quantified as motor oil (classified as Motor Oil Range Organics [MRO] by the laboratory) by EPA Method 8015B
 PAHs = Polynuclear Aromatic Hydrocarbons by EPA Method 8270C SIM
 Metals = LUFT 5 metals and arsenic by EPA 6010B
4. "X" = Sample analyzed for constituent indicated.
5. "--" = No sample collected for analysis indicated.
6. H = Sample placed on hold with laboratory following sample collection. Based on results of the shallower sample at this location the analysis was not conducted.

TABLE 3

**2005 SOIL SAMPLE ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS (TPH)¹**
Santa Cruz Branch Line
Santa Cruz County, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Date	Depth (feet bgs)	TPHd (mg/kg)	TPHmo (mg/kg)	
Targeted Samples					
Section I	SB-01-5	4/25/2005	5	<1 ²	-- ³
	SB-01-10	4/25/2005	10	1.2 J	--
	SB-02-1	4/25/2005	1	14	--
	SB-02-5	4/25/2005	5	<1	--
	SB-02-10	4/25/2005	10	<1	--
	SB-03-1	4/25/2005	1	<1	--
	SB-03-5	4/25/2005	5	1.1	--
	SB-03-10	4/25/2005	10	<1	--
	SB-04-1	4/28/2005	1	5 J+	--
	SB-04-5	4/28/2005	5	13	--
	SB-04-10	4/28/2005	10	1.4	--
	SB-05-1	4/28/2005	1	17	--
	SB-05-5	4/28/2005	5	<1	--
	SB-05-10	4/28/2005	10	<1	--
Section II	SB-10-0.5	4/25/2005	0.5	89	120
	SB-11-0.5	4/28/2005	0.5	6.7	59
	SB-12-1	4/28/2005	1	1.1	--
	SB-12-5	4/28/2005	5	<1	--
	SB-12-10	4/28/2005	10	<1	--
	SB-13-1	4/28/2005	1	15	--
	SB-13-5	4/28/2005	5	<1	--
	SB-13-10	4/28/2005	10	<1	--
	SB-14-1	4/28/2005	1	29	--
	SB-14-5	4/28/2005	5	<1	--
	SB-14-10	4/28/2005	10	2.2	--
	SB-15-1	4/25/2005	1	<1	--
	SB-15-5	4/25/2005	5	<1	--
SB-15-10	4/25/2005	10	<1	--	
Section III	SB-16-1	4/28/2005	1	24	260
	SB-16-5	4/28/2005	5	<1	<50
	SB-16-10	4/28/2005	10	<1	<50
	SB-17-1	4/28/2005	1	9.6	140
	SB-17-5	4/28/2005	5	3.4	55
	SB-17-10	4/28/2005	10	1.1	<50
	SB-22-1	4/27/2005	1	4.9 J+	<50
	SB-22-5	4/27/2005	5	<1	<50
	SB-22-10	4/27/2005	10	<1	<50
	SB-23-1	4/27/2005	1	22 J+	230 J+
	SB-23-5	4/27/2005	5	<1	<50
SB-23-10	4/27/2005	10	<1	<50	

TABLE 3

**2005 SOIL SAMPLE ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS (TPH)¹**
Santa Cruz Branch Line
Santa Cruz County, California

Concentrations in milligrams per kilogram (mg/kg)

	Sample ID	Sample Date	Depth (feet bgs)	TPHd (mg/kg)	TPHmo (mg/kg)
Section IV	SB-32-0.5	4/27/2005	0.5	4.8 J+	70 J+
	SB-33-0.5	4/27/2005	0.5	30 J+	280 J+
	SB-42-1	4/28/2005	1	2.6	<50
	SB-42-5	4/26/2005	5	12	140
	SB-42-10	4/26/2005	10	<1	<50
	SB-43-0.5	4/26/2005	0.5	13	120
	SB-44-0.5	4/26/2005	0.5	3.5	55
	SB-45-0.5	4/26/2005	0.5	870	2200
	SB-45-3	4/26/2005	3	2600	4200
	SB-45-10	4/26/2005	10	9.1	<50
	SB-46-0.5	4/26/2005	0.5	260	760
	SB-46-1.5	4/26/2005	1.5	320 J	2600 J
	SB-46-3	4/26/2005	3	530	2400
	SB-47-0.5	4/26/2005	0.5	43	490
	SB-48-0.5	4/26/2005	0.5	16	130
	SB-49-1	4/26/2005	1	40	440
	SB-49-5	4/28/2005	5	2	<50
	SB-49-10	4/26/2005	10	2	<50
SB-50-1	4/26/2005	1	1	<50	
SB-50-5	4/26/2005	5	1.1	<50	
SB-50-10	4/26/2005	10	27	380	
Systematic Samples					
Section I	Agricultural (North)				
	SB-06-0.5	4/25/2005	0.5	5.6 J+	<50 UJ
	SB-07-0.5	4/25/2005	0.5	2.1	<50
	SB-08-0.5	4/25/2005	0.5	15	110
	SB-09-0.5	4/25/2005	0.5	170	1400
	SB-09-1.5	4/25/2005	1.5	47 J+	500 J+
Section III	Residential				
	SB-18-0.5	4/27/2005	0.5	18 J+	190 J+
	SB-19-0.5	4/27/2005	0.5	32	240
	SB-20-0.5	4/27/2005	0.5	<1	<50
	SB-21-0.5	4/27/2005	0.5	1.4	<50
Section IV	Undeveloped				
	SB-24-0.5	4/27/2005	0.5	<1	<50
	SB-25-0.5	4/27/2005	0.5	30	250
	SB-26-0.5	4/27/2005	0.5	11	130
	SB-27-0.5	4/27/2005	0.5	4.8	<50
	Agricultural (South)				
	SB-28-0.5	4/27/2005	0.5	<1	<50
	SB-29-0.5	4/27/2005	0.5	44	180
	SB-30-0.5	4/27/2005	0.5	340	2000
	SB-30-1.5	4/27/2005	1.5	5.9	88
SB-31-0.5	4/27/2005	0.5	8.8	<50	

TABLE 3

**2005 SOIL SAMPLE ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS (TPH)¹**
Santa Cruz Branch Line
Santa Cruz County, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Date	Depth (feet bgs)	TPHd (mg/kg)	TPHmo (mg/kg)
Industrial				
SB-34-0.5	4/26/2005	0.5	210	1700
SB-34-1.5	4/26/2005	1.5	<1	<50
SB-35-0.5	4/26/2005	0.5	89	950
SB-35-1.5	4/26/2005	1.5	1.9	<50
SB-36-0.5	4/26/2005	0.5	21	380
SB-37-0.5	4/26/2005	0.5	38	640
SB-37-1.5	4/26/2005	1.5	3.1	<50
SB-38-0.5	4/26/2005	0.5	43	230
SB-39-0.5	4/26/2005	0.5	4.1	74
SB-40-0.5	4/26/2005	0.5	40	300
SB-41-0.5	4/26/2005	0.5	63	910
SB-41-1.5	4/26/2005	1.5	43	340
Industrial ESLs ⁴ (mg/kg)			750	4600
Construction Worker ESLs ⁵ (mg/kg)			6000	6000

Notes

- Soil samples collected by AMEC Geomatrix, Inc., and analyzed by STL San Francisco of Pleasanton, California for TPHd and TPHmo using EPA Method 8015M. Concentrations greater than or equal to the industrial ESL are shown in " **bold**" type.
- "<" indicates concentration less than laboratory reporting limit.
- "--" indicates analysis was not performed on sample.
- ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final February 2005. Table A-2. Industrial Land Use: Shallow Soil (equal or less than 3 meters bgs), groundwater IS a current or potential drinking water resource.
- ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final February 2005. Table K-3. Direct Exposure Soil Screening Levels Construction/Trench Worker Exposure Scenario.

Abbreviations

bgs = below ground surface
 mg/kg = milligrams per kilogram
 TPHd = total petroleum hydrocarbons as quantified as diesel
 TPHmo = total petroleum hydrocarbons as quantified as motor oil
 ESLs = Environmental Screening Levels

Data Qualifiers

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 J+ = The result is an estimated quantity, but the result may be biased high.
 UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 4

2005 SOIL SAMPLE ANALYTICAL RESULTS

METALS¹

Santa Cruz Branch Line
Santa Cruz County, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Date	Depth (feet bgs)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc		
Targeted Samples																					
Section I	SB-01-5	4/25/2005	5	<2 ^{UJ}	4.2	21	<0.5	0.5	11	2.3	3.6	1.6	<0.05	1.4	8.1	<2	<1	<1	11	23	
	SB-01-10	4/25/2005	10	<2	4.2	100	<0.5	<0.5	19	1.1	17	2.1	<0.05	6.3	3.9	<2	<1	<1	11	17	
	SB-02-1	4/25/2005	1	<2	7.7	90	<0.5	2	21	5.9	37	97	0.064	1.5	9.6	<2	<1	<1	37	180	
	SB-02-5	4/25/2005	5	<2	4.3	86	<0.5	0.86	27	2.2	11	2.6	<0.05	2.4	10	<2	<1	<1	23	46	
	SB-02-10	4/25/2005	10	<2	6.4	63	<0.5	1.4	20	1.5	13	1.9	<0.05	4	16	<2	<1	<1	20	25	
	SB-03-1	4/25/2005	1	<2	2.2	59	<0.5	0.67	19	4.2	6.1	3.5	<0.05	1.4	5.4	<2	<1	<1	22	16	
	SB-03-5	4/25/2005	5	<2	5.7	83	<0.5	0.95	25	5.4	13	3	<0.05	3.1	9.7	<2	<1	<1	26	40	
	SB-03-10	4/25/2005	10	<2	5	93	<0.5	0.81	21	2.3	10	2.6	<0.05	1.7	14	<2	<1	<1	19	81	
	SB-04-1	4/28/2005	1	<2	6.1	70	<0.5	0.89	14	3.4	22	7.4	0.079	1	7.4	<2	<1	<1	23	39	
	SB-04-5	4/28/2005	5	<2	1.5	40	<0.5	<0.5	17	<1	4	3.5	0.082	<1	6	<2	<1	<1	13	9.1	
	SB-04-10	4/28/2005	10	<2	<1	16	<0.5	<0.5	14	<1	3	2.5	<0.05	<1	5.1	<2	<1	<1	8.7	7.5	
	SB-05-1	4/28/2005	1	<2 ^{UJ}	6.2	47	<0.5	1.1	10	6.6	69	14	0.079	<1	7.2	<2	<1	<1	47	43	
	SB-05-5	4/28/2005	5	3.6	2.3	38	<0.5	0.64	18	1.2	3.8	3.3	<0.05	<1	5.6	<2	<1	<1	19	8.8	
SB-05-10	4/28/2005	10	<2	14	9.3	<0.5	1.4	14	2.2	3.4	2.1	<0.05	3.9	18	<2	<1	<1	23	10		
Section II	SB-10-0.5	4/25/2005	0.5	<2	5.5	55	<0.5	0.72	12	2.8	17	16	<0.05	1.1	6.9	<2	<1	<1	16	43	
	SB-10-1.5	4/25/2005	1.5	-- ³	1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	SB-10-3	4/25/2005	3	--	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	SB-11-0.5	4/28/2005	0.5	<2	16	120	<0.5	0.88	22	4.3	24	15	0.065	2.1	16	<2	<1	<1	20	24	
	SB-11-1.5	4/28/2005	1.5	<2	5.1	130	<0.5	0.92	26	8.9	8.2	3.5	<0.05	<1	35	<2	<1	<1	30	27	
	SB-12-1	4/28/2005	1	<2	6.5	290	<0.5	1.9	27	7.8	14	13	<0.05	<1	46	<2	<1	<1	2.2	28	31
	SB-12-5	4/28/2005	5	<2	2.4	60	<0.5	0.79	21	2.8	8.9	1.4	<0.05	<1	7.3	<2	<1	<1	17	27	
	SB-12-10	4/28/2005	10	<2	1.8	89	<0.5	1.1	23	27	10	2.8	<0.05	<1	86	<2	<1	1	18	36	
	SB-13-1	4/28/2005	1	<2	5.3	630	<0.5	0.56	6.9	5.3	35	13	0.11	<1	11	<2	<1	<1	29	15	
	SB-13-5	4/28/2005	5	<2	2.5	18	<0.5	<0.5	8.9	1.3	1.5	1.3	<0.05	<1	4.1	<2	<1	<1	11	6.7	
	SB-13-10	4/28/2005	10	<2	2	11	<0.5	<0.5	9.1	1.3	1.4	<1	<0.05	<1	4.7	<2	<1	<1	11	7.3	
	SB-14-1	4/28/2005	1	9.2 J-	20	160 J-	<0.5	1.7	20	7.7	79 J+	110 J-	0.17 J+	1.3 J-	12	<2	<1	<1 ^{UJ}	38	160	
	SB-14-5	4/28/2005	5	<2	4.4	120	<0.5	1.2	20	24	6	6.2	<0.05	1.2	17	<2	<1	<1	21	20	
	SB-14-10	4/28/2005	10	<2	3.7	14	<0.5	<0.5	7.7	1.4	1.6	6.9	<0.05	<1	4.7	<2	<1	<1	9.3	6.4	
SB-15-1	4/25/2005	1	<2	1.9	100	<0.5	0.54	18	4.7	5.9	4.7	<0.05	<1	6.4	<2	<1	<1	24	8		
SB-15-5	4/25/2005	5	<2	6.1	160	<0.5	1.2	29	29	20	4	<0.05	<1	25	<2	<1	1.6	53	30		
SB-15-10	4/25/2005	10	<2	4.2	85	<0.5	1.2	18	6.8	7.3	3.1	<0.05	<1	17	<2	<1	<1	39	29		
Section III	SB-16-1	4/28/2005	1	<2	8.1	44	<0.5	0.63	11	3.1	16	24	0.072	<1	7.9	<2	<1	<1	16	41	
	SB-16-5	4/28/2005	5	<2	1.8	60	<0.5	0.64	14	3.2	4.8	2.9	<0.05	<1	8.1	<2	<1	<1	28	17	
	SB-16-10	4/28/2005	10	<2	<1	69	<0.5	0.63	14	4.8	5.4	2.7	<0.05	<1	11	<2	<1	<1	22	22	
	SB-17-1	4/28/2005	1	<2	8.2	75	<0.5	0.88	18	3.8	13	22	<0.05	<1	11	<2	<1	<1	28	39	
	SB-17-5	4/28/2005	5	<2	3.8	87	<0.5	0.96	26	5.4	11	6.6	<0.05	<1	14	<2	<1	<1	33	36	
	SB-17-10	4/28/2005	10	<2	1.2	48	<0.5	<0.5	11	3.9	5.1	2.3	<0.05	<1	9.1	<2	<1	<1	15	18	
	SB-22-1	4/27/2005	1	<2	10	160	<0.5	0.58	12	5.9	10	6.1	<0.05	<1	8.4	<2	<1	<1	19	22	
	SB-22-5	4/27/2005	5	<2	6.2	150	<0.5	1.3	21	5.5	10	7.4	<0.05	1.3	13	<2	<1	<1	29	39	
	SB-22-10	4/27/2005	10	<2	3	110	<0.5	0.81	12	4.7	8.5	5.1	<0.05	<1	13	<2	<1	<1	23	26	
	SB-23-1	4/27/2005	1	<2	52	150	<0.5	0.72	15	6.2	16	11	<0.05	<1	14	<2	<1	<1	21	32	
SB-23-5	4/27/2005	5	<2	5.2	130	<0.5	1.2	20	3.9	9	7.6	<0.05	<1	12	<2	<1	<1	28	39		
SB-23-10	4/27/2005	10	<2	8.4	92	<0.5	1.1	13	4.2	8.2	5	<0.05	1.9	11	<2	<1	<1	20	27		

TABLE 4
2005 SOIL SAMPLE ANALYTICAL RESULTS
METALS¹

Santa Cruz Branch Line
Santa Cruz County, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Date	Depth (feet bgs)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc		
Section IV	SB-32-0.5	4/27/2005	0.5	<2	22	55	<0.5	1.5	15	9.2	62	110	<0.05	<1	15	<2	<1	<1	45	100	
	SB-32-1.5	4/27/2005	1.5	--	5.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	SB-32-3	4/27/2005	3	--	5.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	SB-33-0.5	4/27/2005	0.5	<2	5.4	66	<0.5	1.5	18	9.4	62	61	0.091	<1	22	<2	<1	<1	38	110	
	SB-42-5	4/26/2005	5	2	8.3	38	<0.5	2	16	11	160	24	0.11	<1	11	<2	<1	<1	79	120	
	SB-42-10	4/26/2005	10	<2	5	170	<0.5	1.6	53	12	26	6.7	0.077	<1	69	<2	<1	<1	31	50	
	SB-42-1	4/28/2005	1	<2	<1	11	<0.5	1.6	10	11	87	<1	<0.05	<1	4.3	<2	<1	<1	110	38	
	SB-43-0.5	4/26/2005	0.5	<2	5.6	80	<0.5	1.8	27	7.9	57	120	0.12	1.2	22	<2	<1	<1	44	220	
	SB-43-1.5	4/26/2005	1.5	--	4.6	--	--	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB-43-3	4/26/2005	3	--	1.7	--	--	0.84	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB-44-0.5	4/26/2005	0.5	<2	5.8	150	<0.5	1.4	63	9.5	32	20	0.099	<1	55	<2	<1	<1	32	150	
	SB-44-1.5	4/26/2005	1.5	--	4.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB-44-3	4/26/2005	3	--	2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB-45-0.5	4/26/2005	0.5	<2	6	120	<0.5	2.5	43	11	46	51	0.12	13	43	<2	<1	<1	46	220	
	SB-45-3	4/26/2005	3	<2	1.2	170	<0.5	1.4	54	9.5	21	6.8	0.09	<1	50	<2	<1	<1	34	48	
	SB-46-0.5	4/26/2005	0.5	<2	9.2	140	<0.5	2.3	45	11	40	93	0.1	4.8	44	<2	<1	<1	46	160	
	SB-46-1.5	4/26/2005	1.5	--	18	--	--	4.8	--	12	--	--	--	--	--	--	--	--	--	--	--
	SB-46-3	4/26/2005	3	--	1.9	--	--	1.2	--	9.9	--	--	--	--	--	--	--	--	--	--	--
	SB-47-0.5	4/26/2005	0.5	2.3	56	38	<0.5	2.2	12	12	88	53	0.079	<1	9.1	<2	<1	<1	83	84	
	SB-47-1.5	4/26/2005	1.5	--	3.8	--	--	1.3	--	9.8	--	--	--	--	--	--	--	--	--	--	--
SB-47-3	4/26/2005	3	--	3.3	--	--	1.3	--	8.7	--	--	--	--	--	--	--	--	--	--	--	
SB-48-0.5	4/26/2005	0.5	<2	18	67	<0.5	1.5	20	9	60	75	0.12	<1	20	<2	<1	<1	54	88		
SB-48-1.5	4/26/2005	1.5	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-48-3	4/26/2005	3	--	3.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-49-1	4/26/2005	1	<2	<1	15	<0.5	1.4	8	9.2	85	<1	0.053	<1	2.6	<2	<1	<1	85	34		
SB-49-10	4/26/2005	10	<2	3.8	130	<0.5	1	59	8.8	12	3.5	<0.05	<1	68	<2	<1	<1	25	29		
SB-49-5	4/28/2005	5	<2	<1	12	<0.5	0.95	4.7	6.4	60	<1	<0.05	<1	1.7	<2	<1	<1	68	19		
SB-50-1	4/26/2005	1	<2	3	55	<0.5	1.4	44	11	33	8.7	0.051	<1	41	<2	<1	<1	56	34		
SB-50-5	4/26/2005	5	<2	<1	24	<0.5	1.3	6.4	8.9	75	<1	<0.05	<1	2.5	<2	<1	<1	83	26		
SB-50-10	4/26/2005	10	<2	3.2	120	<0.5	1.1	29	11	23	15	<0.05	<1	19	<2	<1	<1	43	27		
Systematic Samples																					
Section I	Agricultural (North)																				
	SB-06-0.5	4/25/2005	0.5	--	8.1	--	--	1	22	--	--	6.9	--	--	8.3	--	--	--	--	91	
	SB-07-0.5	4/25/2005	0.5	--	4.7	--	--	0.88	18	--	--	3.6	--	--	4.8	--	--	--	--	47	
	SB-08-0.5	4/25/2005	0.5	--	9.5	--	--	1.1	16	--	--	53	--	--	11	--	--	--	--	55	
	SB-09-0.5	4/25/2005	0.5	--	14	--	--	1.9	13	--	--	23	--	--	15	--	--	--	--	160	
SB-09-1.5	4/25/2005	1.5	--	--	--	--	2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Section III	Residential																				
	SB-18-0.5	4/27/2005	0.5	--	7.5	--	--	1.2	9.5	--	--	18	--	--	6.8	--	--	--	--	39	
	SB-19-0.5	4/27/2005	0.5	--	6.7	--	--	0.87	9.8	--	--	12	--	--	7.7	--	--	--	--	29	
	SB-20-0.5	4/27/2005	0.5	--	39	--	--	0.83	17	--	--	15	--	--	13	--	--	--	--	33	
SB-21-0.5	4/27/2005	0.5	--	16	--	--	0.81	14	--	--	17	--	--	11	--	--	--	--	41		

TABLE 4
2005 SOIL SAMPLE ANALYTICAL RESULTS
METALS¹

Santa Cruz Branch Line
Santa Cruz County, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Date	Depth (feet bgs)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Undeveloped																			
SB-24-0.5	4/27/2005	0.5	--	15	--	--	1.4	20	--	--	53	--	--	11	--	--	--	--	61
SB-25-0.5	4/27/2005	0.5	--	21	--	--	0.95	22	--	--	15	--	--	13	--	--	--	--	34
SB-26-0.5	4/27/2005	0.5	--	5.4	--	--	0.79	21	--	--	17	--	--	13	--	--	--	--	25
SB-27-0.5	4/27/2005	0.5	--	48	--	--	0.96	38	--	--	5.5	--	--	50	--	--	--	--	33
Agricultural (South)																			
SB-28-0.5	4/27/2005	0.5	--	6.8	--	--	1.7	50	--	--	9	--	--	62	--	--	--	--	62
SB-28-1.5	4/27/2005	1.5	--	--	--	--	1.6	--	--	--	--	--	--	--	--	--	--	--	--
SB-28-3	4/27/2005	3	--	--	--	--	1.4	--	--	--	--	--	--	--	--	--	--	--	--
SB-29-0.5	4/27/2005	0.5	--	6.9	--	--	1.6	48	--	--	24	--	--	58	--	--	--	--	70
SB-30-0.5	4/27/2005	0.5	--	13	--	--	0.94	28	--	--	8.2	--	--	28	--	--	--	--	38
SB-31-0.5	4/27/2005	0.5	--	6.1	--	--	1.6	46	--	--	11	--	--	51	--	--	--	--	68
Industrial																			
SB-34-0.5	4/26/2005	0.5	--	57	--	--	1.4	21	--	--	98	--	--	19	--	--	--	--	45
SB-35-0.5	4/26/2005	0.5	--	16	--	--	1.7	33	--	--	190	--	--	25	--	--	--	--	63
SB-35-1.5	4/26/2005	1.5	--	14	--	--	1.6	--	--	--	--	--	--	--	--	--	--	--	--
SB-35-3	4/26/2005	3	--	--	--	--	1.5	--	--	--	--	--	--	--	--	--	--	--	--
SB-36-0.5	4/26/2005	0.5	--	15	--	--	1.5	22	--	--	68	--	--	20	--	--	--	--	84
SB-37-0.5	4/26/2005	0.5	--	23	--	--	1.8	18	--	--	25	--	--	12	--	--	--	--	55
SB-37-1.5	4/26/2005	1.5	--	--	--	--	1.3	--	--	--	--	--	--	--	--	--	--	--	--
SB-37-3	4/26/2005	3	--	--	--	--	1.4	--	--	--	--	--	--	--	--	--	--	--	--
SB-38-0.5	4/26/2005	0.5	--	4.4	--	--	2.1	31	--	--	61	--	--	62	--	--	--	--	110
SB-38-1.5	4/26/2005	1.5	--	--	--	--	1.7	--	--	--	--	--	--	--	--	--	--	--	--
SB-38-3	4/26/2005	3	--	--	--	--	1.6	--	--	--	--	--	--	--	--	--	--	--	--
SB-39-0.5	4/26/2005	0.5	--	140	--	--	1.6	18	--	--	15	--	--	18	--	--	--	--	54
SB-40-0.5	4/26/2005	0.5	--	80	--	--	3.2	19	--	--	83	--	--	20	--	--	--	--	130
SB-40-1.5	4/26/2005	1.5	--	--	--	--	1.2	--	--	--	--	--	--	--	--	--	--	--	--
SB-40-3	4/26/2005	3	--	--	--	--	1.3	--	--	--	--	--	--	--	--	--	--	--	--
SB-41-0.5	4/26/2005	0.5	--	15	--	--	2	21	--	--	76	--	--	17	--	--	--	--	99
SB-41-1.5	4/26/2005	1.5	--	--	--	--	1.6	--	--	--	--	--	--	--	--	--	--	--	--
SB-41-3	4/26/2005	3	--	--	--	--	1.2	--	--	--	--	--	--	--	--	--	--	--	--
Railroad Tie																			
SB-51-0.5	4/29/2005	0.5	<2 UJ	10	89	<0.5	1.3	22	4.6	42	35	0.15	<1	16	<2	<1	<1	17	130
SB-51-1.5	4/29/2005	1.5	2.9	3.5	120	<0.5	1.1	36	8.6	7.7	5.8	<0.05	<1	32	<2	<1	<1	26	29
SB-54-0.5	4/29/2005	0.5	<2	2.5	62	<0.5	<0.5	12	1.8	42	8.3	<0.05	<1	5.7	<2	<1	<1	11	41
SB-52-0.5	4/29/2005	0.5	<2	65	69	<0.5	1.5	27	9	59	29	<0.05	<1	18	<2	<1	<1	43	45
SB-52-1.5	4/29/2005	1.5	<2	100	110	<0.5	0.87	28	3.7	15	5.9	<0.05	<1	19	<2	<1	<1	29	61
SB-52-3	4/29/2005	3	--	5.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 4
2005 SOIL SAMPLE ANALYTICAL RESULTS
METALS¹

Santa Cruz Branch Line
Santa Cruz County, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Date	Depth (feet bgs)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
Section IV	SB-53-0.5	4/29/2005	0.5	<2	32	47	<0.5	1.1	16	6.3	39	26	0.11	<1	15	<2	<1	<1	26	69
	SB-53-1.5	4/29/2005	1.5	<2	27	53	<0.5	0.52	18	4.3	18	3.3	<0.05	<1	12	<2	<1	<1	20	32
	SB-53-3	4/29/2005	3	--	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Industrial ESLs ⁴				77	NA ⁸	2,500	36	7	58	10	7,700	750	37	960	1,000	960	960	13	1,300	58,000
Construction Worker ESLs ⁵				280	3	2,500	36	38	1,100,000	10	28,000	750	98	3,600	1,000	3,400	3,600	47	5,000	210,000
10 times STLC ⁶ (mg/l)				150	50	1,000	8	10	50	800	250	50	2	3,500	200	10	50	70	240	2,500
TTLC ⁶ (mg/kg)				500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
20 times TC ⁷ (mg/kg)				NA	100	2,000	NA	20	100	NA	NA	100	40	NA	NA	20	100	NA	NA	NA

Notes

- Soil samples collected by AMEC Geomatrix, Inc., and analyzed by STL San Francisco of Pleasanton, California, for select metals using EPA methods 6010B and 7470/7471. Concentrations greater than or equal to the industrial ESL are shown in "bold" type.
- "<" indicates concentration less than laboratory reporting limit.
- "--" indicates analysis was not performed on sample.
- ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final February 2005. Table A-2. Industrial Land Use: Shallow Soil (equal or less than 3 meters bgs), groundwater IS a current or potential drinking water resource.
- ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final February 2005. Table K-3. Direct Exposure Soil Screening Levels Construction/Trench Worker Exposure Scenario.
- California Hazardous Waste Classification criteria, California Code of Regulations, Title 22, Section 66216.24.
- Code of Federal Regulations (CFR) 261.24
- The screening criteria for arsenic is the calculated site-specific background concentration of 14.4 mg/kg as discussed in Appendix E.

Abbreviations

bgs = below ground surface
ESLs = Environmental Screening Levels
mg/kg = milligrams per kilogram
NA = Not Applicable
STLC = Soluble Threshold Limit Concentration
TTLC = Total Threshold Limit Concentration

Data Qualifiers

J- = The result is an estimated quantity, but the result may be biased low.
J+ = The result is an estimated quantity, but the result may be biased high.
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 5

2005 SOIL SAMPLE ANALYTICAL RESULTS
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)¹

Santa Cruz Branch Line
Santa Cruz County, California

Concentrations in micrograms per kilogram (µg/kg)

Sample ID	Sample Date	Depth (feet bgs)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) Anthracene	Benzo(a) Pyrene	Benzo(b) Fluoranthene	Benzo (g,h,i) Perylene	Benzo(k) Fluoranthene	Chrysene	Dibenz(a,h) Anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-c,d) Pyrene	Naphthalene	Phenanthrene	Pyrene		
Targeted Samples																				
Section I	SB-01-5	4/25/2005	5	<5 ²	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
	SB-01-10	4/25/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
	SB-02-1	4/25/2005	1	<5	<5	<5	<5	9.6	7.7	12	<5	9.8	<5	9.5	<5	7.2	<5	<5	9.6	
	SB-02-5	4/25/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
	SB-02-10	4/25/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
	SB-03-1	4/25/2005	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-03-5	4/25/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-03-10	4/25/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-04-1	4/28/2005	1	<5	<5	<5	<5	<5	<5	<5	<5	8.3	<5	<5	<5	<5	<5	<5	<5	
	SB-04-5	4/28/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-04-10	4/28/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-05-1	4/28/2005	1	<5	<5	<5	<5	<5	<5	17	<5	<5	<5	11	<5	6.6	<5	<5	13	
	SB-05-5	4/28/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
SB-05-10	4/28/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Section II	SB-10-0.5	4/25/2005	0.5	2800	<250	3800	3000	980	1400	340	530	3500	<250	11000	2800	420	<250	14000	11000	
	SB-10-1.5	4/25/2005	1.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-11-0.5	4/28/2005	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-12-1	4/28/2005	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-12-5	4/28/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-12-10	4/28/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-13-1	4/28/2005	1	<5	<5	<5	7	5.3	<5	<5	<5	16	<5	7.7	<5	<5	6	13	10	
	SB-13-5	4/28/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-13-10	4/28/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-14-1	4/28/2005	1	<25	<25	<25	32	30	38	<25	<25	25	<25	33	<25	<25	<25	<25	<25	35
	SB-14-5	4/28/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	SB-14-10	4/28/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	SB-15-1	4/25/2005	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SB-15-5	4/25/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
SB-15-10	4/25/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Section III	SB-16-1	4/28/2005	1	<5	23	50	71	67	150	69	34	120	<5	200	<5	72	<5	47	160	
	SB-16-5	4/28/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-16-10	4/28/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-17-1	4/28/2005	1	<5	<5	5.6	12	11	13	<5	<5	12	<5	17	<5	<5	<5	<5	16	
	SB-17-5	4/28/2005	5	<5	<5	<5	<5	7.9	11	<5	<5	<5	<5	<5	<5	13	<5	<5	5.1	
	SB-17-10	4/28/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-22-1	4/27/2005	1	<5	<5	<5	7.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-22-5	4/27/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-22-10	4/27/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-23-1	4/27/2005	1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SB-23-5	4/27/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
SB-23-10	4/27/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	

TABLE 5

2005 SOIL SAMPLE ANALYTICAL RESULTS
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)¹

Santa Cruz Branch Line
Santa Cruz County, California

Concentrations in micrograms per kilogram (µg/kg)

Sample ID	Sample Date	Depth (feet bgs)	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo(a) Anthracene	Benzo(a) Pyrene	Benzo(b) Fluor-anthene	Benzo (g,h,i) Perylene	Benzo(k) Fluor-anthene	Chrysene	Dibenz(a,h) Anthracene	Fluoran-thene	Fluorene	Indeno (1,2,3-c,d) Pyrene	Naph-thalene	Phenan-threne	Pyrene		
Section IV	SB-32-0.5	4/27/2005	0.5	<5	20	25	11	16	24	29	9.3	20	<5	20	<5	30	<5	9.8	22	
	SB-33-0.5	4/27/2005	0.5	<5	7.5	22	90	97	160	79	37	190	<5	200	<5	55	<5	49	190	
	SB-33.1.5	4/27/2005	1.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	11	<5	<5	
	SB-42-5	4/26/2005	5	<50	<50	<50	<50	<50	<50	58	<50	<50	<50	<50	<50	<50	<50	<50	<50	
	SB-42-10	4/26/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-42-1	4/28/2005	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	SB-43-0.5	4/26/2005	0.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
	SB-44-0.5	4/26/2005	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-45-0.5	4/26/2005	0.5	<25	<25	<25	28	<25	<25	<25	<25	<25	<25	<25	<25	79	<25	<25	<25	
	SB-45-3	4/26/2005	3	400	<25	<25	130	<25	<25	<25	<25	420	<25	140	1300	<25	110	900	420	
	SB-46-0.5	4/26/2005	0.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	26	<25	<25	<25	31 J	<25	
	SB-47-0.5	4/26/2005	0.5	<5	11	29	21	27	48	45	13	28 J	<5	29	<5	67	<5	13 J	27 J	
	SB-48-0.5	4/26/2005	0.5	<5	<5	<5	28	<5	<5	14	<5	<5	<5	5.3	<5	20	<5	6.1 J	5.2 J	
	SB-49-1	4/26/2005	1	<5	<5	<5	<5	6.3	7.4	8.2	<5	14 J	<5	5.8	<5	19	<5	8.6 J	7.8 J	
	SB-49-10	4/26/2005	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-49-5	4/28/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
SB-50-1	4/26/2005	1	<5	<5	10	17	20	36	31	10	28	<5	22	<5	29	<5	<5	25		
SB-50-5	4/26/2005	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
SB-50-10	4/26/2005	10	<5	<5	7.3	20	<5	20	26	6.8	23 J	<5	25	<5	17	<5	8.5 J	32 J		
Systematic Samples																				
Section I	Agricultural (North)																			
	SB-06-0.5	4/25/2005	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
	SB-07-0.5	4/25/2005	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
	SB-08-0.5	4/25/2005	0.5	<5	<5	6.3	12	<5	<5	<5	<5	<5	<5	6.4	<5	<5	<5	7.5		
	SB-09-0.5	4/25/2005	0.5	<25	<25	42	<25	<25	<25	110	<25	<25	<25	<25	<25	<25	<25	<25		
Section III	Residential																			
	SB-18-0.5	4/27/2005	0.5	<28	<28	34	<28	<28	69	210	<28	28	<28	<28	<28	69	<28	<28		
	SB-19-0.5	4/27/2005	0.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25		
	SB-20-0.5	4/27/2005	0.5	<5	<5	<5	<5	<5	5.7	9.1	<5	5.6	<5	<5	<5	5.2	<5	<5		
SB-21-0.5	4/27/2005	0.5	<5	<5	6.1	5.5	15	28	32	7.7	22	<5	22	<5	23	<5	9.1			
Section IV	Undeveloped																			
	SB-24-0.5	4/27/2005	0.5	<5	<5	<5	<5	<5	6.2	<5	<5	6.5	9.5	<5	<5	<5	<5	<5		
	SB-25-0.5	4/27/2005	0.5	<25	<25	<25	<25	52	34	35	<25	34	<25	<25	<25	<25	<25	<25		
	SB-25-1.5	4/27/2005	1.5	<25	<25	<25	<25	<25	36	<25	<25	<25	<25	<25	<25	<25	<25	<25		
	SB-26-0.5	4/27/2005	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
	SB-27-0.5	4/27/2005	0.5	<5	<5	<5	<5	8.1	11	7.8	<5	11	<5	9.9	<5	8.5	<5	5.4		
	Agricultural (South)																			
	SB-28-0.5	4/27/2005	0.5	<5	<5	<5	<5	<5	<5	<5	<5	6.7	<5	<5	<5	<5	<5	<5		
	SB-29-0.5	4/27/2005	0.5	<5	<5	<5	7.5	17	37	44	9.1	30	<5	8.5	<5	17	<5	<5		
	SB-30-0.5	4/27/2005	0.5	<130	<130	<130	<130	<130	<130	600	<130	<130	<130	<130	<130	1300	<130	<130		
SB-30-1.5	4/27/2005	1.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5			
SB-31-0.5	4/27/2005	0.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25			

TABLE 5

2005 SOIL SAMPLE ANALYTICAL RESULTS
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)¹

Santa Cruz Branch Line
Santa Cruz County, California

Concentrations in micrograms per kilogram (µg/kg)

Sample ID	Sample Date	Depth (feet bgs)	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo(a) Anthracene	Benzo(a) Pyrene	Benzo(b) Fluor-anthene	Benzo (g,h,i) Perylene	Benzo(k) Fluor-anthene	Chrysene	Dibenz(a,h) Anthracene	Fluoran-thene	Fluorene	Indeno (1,2,3-c,d) Pyrene	Naph-thalene	Phenan-threne	Pyrene		
Industrial																				
Section IV	SB-34-0.5	4/26/2005	0.5	<25	<25	36	<25	76	<25	61	<25	<25	<25	30	<25	<25	<25	<25	36	
	SB-34-1.5	4/26/2005	1.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-35-0.5	4/26/2005	0.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
	SB-36-0.5	4/26/2005	0.5	<25	<25	32	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
	SB-37-0.5	4/26/2005	0.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
	SB-38-0.5	4/26/2005	0.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
	SB-39-0.5	4/26/2005	0.5	<5	<5	<5	6.7	<5	<5	50	<5	7.7	<5	6.8	<5	<5	<5	6.6	5.2	
	SB-40-0.5	4/26/2005	0.5	<25	110	220	100	120	220	420	50	190	250	310	<25	190	<25	93	220	
	SB-40-1.5	4/26/2005	1.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-41-0.5	4/26/2005	0.5	<25	68	110	46	230	<25	230	<25	130	<25	120	<25	100	<25	65	110	
SB-41-1.5	4/26/2005	1.5	<5	23	53	33	31	49	100	16	43	<5	55	<5	63	5.9	36	60		
Railroad Tie																				
Section II	SB-51-0.5	4/29/2005	0.5	<5	<5	5.2	13	12	30	18	7.1	23	<5	23	<5	<5	<5	8.1	29	
	SB-54-0.5	4/29/2005	0.5	<5	15	34	60	54	88	73	31	100	<5	51	<5	52	<5	18	52	
	SB-54-1.5	4/29/2005	1.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-54-3	4/29/2005	3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Section III	SB-52-0.5	4/29/2005	0.5	<100	110	270	1300	960	1700	670	510	1900	270	2700	<100	520	<100	<100	2800	
	SB-52-1.5	4/29/2005	1.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-52-3	4/29/2005	3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Section IV	SB-53-0.5	4/29/2005	0.5	<5	13	33	22	62	130	110	57	55	<5	27	8.1	73	<5	14	33	
	SB-53-1.5	4/29/2005	1.5	<5	<5	<5	5.1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	SB-53-3	4/29/2005	3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Industrial ESLs ³				4,400,000	3,700,000	31,000,000	1,300	130	1,300	4,400,000	1,300	13,000	380	4,400,000	3,700,000	1,300	3,800	3,700,000	3,600,000	
Construction Worker ESLs ⁴				21,000	15,000	120,000	15	2	15	14,000	15	150	4	14,000	15,000	15	97	15,000	12,000	

Notes

- Soil samples collected by AMEC Geomatrix, Inc., and analyzed by STL San Francisco of Pleasanton, California for polynuclear aromatic hydrocarbons using EPA method 8270C with selective ion monitoring (SIM). Concentrations greater than or equal to the industrial ESL are shown in "bold" type.
- "<" indicates concentration less than laboratory reporting limit.
- ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final February 2005. Table A-2. Industrial Land Use: Shallow Soil (equal or less than 3 meters bgs) groundwater IS a current or potential drinking water resource.
- ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final February 2005. Table K-3. Direct Exposure Soil Screening Levels Construction/Trench Worker Exposure Scenario.

Abbreviations

bgs = below ground surface

mg/kg = milligrams per kilogram

ESLs = Environmental Screening Levels

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

TABLE 6

2005 SOIL SAMPLE ANALYTICAL RESULTS
ORGANOCHLORINE PESTICIDES¹

Santa Cruz Branch Line
Santa Cruz County, California

Concentrations in micrograms per kilogram (µg/kg).

Sample ID	Sample Date	Depth (feet bgs)	Aldrin	Alpha BHC (Alpha-Hexachlorocyclohexane)	Alpha-Endosulfan	Alpha-Chlordane	Beta BHC (Beta-Hexachlorocyclohexane)	Beta-Endosulfan	Beta-Chlordane	Chlordane	Delta BHC (Delta-Hexachlorocyclohexane)	Dieldrin	Endo-sulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Gamma BHC (Lindane)	Hepta-chlor	Heptachlor Epoxide	Methoxy-chlor	4,4'-DDD	4,4'-DDE	4,4'-DDT	Toxa-phene	
Targeted Samples																									
Section I																									
SB-02-1	4/25/2005	1	<10 ²	<10	<10	<10	<10	<10	<10	<250	<10	<10	<10	<10 R	<10 R	<10 R	<10	<10	<10	<10	<10	25 J	48 J	<500	
SB-03-1	4/25/2005	1	<2	<2	<2	<2	<2	<2	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<100	
Systematic Samples																									
Section I (Agricultural North)																									
SB-06-0.5	4/25/2005	0.5	<10	<10	<10	<10	<10	<10	<10	<250	<10	<10	<10	<10 R	<10 R	<10 R	<10	<10	<10	<10	23 J	300 J	150 J	<500	
SB-08-	4/25/2005	0.5	<10	<10	<10	<10	<10	<10	<10	<250	<10	<10	<10	43	<10	<10	<10	<10	<10	<10	17	63	170	<500	
SB-08-1.5	4/25/2005	1.5	<2	<2	<2	<2	<2	<2	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	5.7	5.2	<100	
SB-08-3	4/25/2005	3	<2	<2	<2	<2	<2	<2	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.4	3.4	<100	
SB-09-0.5	4/25/2005	0.5	<10	<10	<10	<10	<10	<10	<10	<250	<10	<10	<10	22	<10	<10	<10	<10	<10	<10	14	20	59	<500	
SB-09-1.5	4/25/2005	1.5	<10	<10	<10	<10	<10	<10	<10	<250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	12	110	<500	
Section IV (Agricultural South)																									
0.5	4/27/2005	0.5	<40	<40	<40	<40	<40	<40	<40	<1000	<40	130 J	<40	<40	<40	<40	<40	<40	<40	<40	<40 R	590 J	710 J	5000	
SB-28-1.5	4/27/2005	1.5	<20	<20	<20	<20	<20	<20	<20	<500	<20	50	<20	<20	<20	<20	<20	<20	<20	<20	<20	100	170	<1000	
SB-28-3	4/27/2005	3	<2	<2	<2	<2	<2	<2	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.4	3.4	<100	
0.5	4/27/2005	0.5	<50	<50	<50	<50	<50	<50	<50	<1300	<50	150	<50	<50	<50	<50	<50	<50	<50	<50	<50	120	1100	1200	8300
SB-29-1.5	4/27/2005	1.5	<2	<2	<2	<2	<2	<2	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	4.4	<100	
SB-29-3	4/27/2005	3	<2	<2	<2	<2	<2	<2	<2	<50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.4	3.4	<100	
SB-30-0.5	4/27/2005	0.5	<20	<20	<20	<20	<20	<20	<20	<500	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	47	210	1500	
1.5	4/27/2005	1.5	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<250 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<500 UJ	
0.5	4/27/2005	0.5	<50	<50	<50	56	<50	67	82	<1300	<50	87	<50	<50	<50	<50	<50	<50	<50	<50	<50	1100	1300	9300	
SB-31-1.5	4/27/2005	1.5	<100	<100	<100	<100	<100	<100	<100	<2500	<100	110	<100	200	<100	110	<100	<100	<100	<100	700	500	2100	<5000	
SB-31-3	4/27/2005	3	<20	<20	29	<20	<20	<20	<20	<500	<20	<20	<20	20	<20	<20	<20	<20	<20	<20	57	59	210	<1000	
Industrial ESLs ³			130	NA	740,000	NA	NA	NA	NA	1,700	NA	130	NA	46,000	NA	NA	2,000	520	310	770,000	9,000	6,300	6,300	1,800	
Construction Worker ESLs ⁴			1,500	NA	NA	NA	NA	NA	NA	21,000	NA	1,600	NA	160,000	NA	NA	24,000	6,300	NA	2,600,000	110,000	76,000	76,000	22,000	
Industrial PRG ⁵			100	360	NA	NA	1,300	NA	NA	6,500	NA	110	NA	180,000	NA	NA	1,700	380	190	3,100,000	10,000	7,000	7,000	1,600	
TTLCS ⁶ (µg/kg)			1,400	NA	NA	NA	NA	NA	NA	2,500	NA	8,000	NA	200	NA	NA	4,000	4,700	NA	100,000	1,000	1,000	1,000	5,000	
10 times STLC ⁶ (µg/l)			1,400	NA	NA	NA	NA	NA	NA	2,500	NA	8,000	NA	200	NA	NA	4,000	4,700	NA	100,000	1,000	1,000	1,000	5,000	
20 times TC ⁷ (µg/l)			NA	NA	NA	NA	NA	NA	NA	600	NA	NA	NA	400	NA	NA	1,000	NA	NA	NA	NA	NA	NA	10,000	

Notes

- Soil samples collected by AMEC Geomatrix, Inc., and analyzed by STL San Francisco of Pleasanton, California for Organochlorine Pesticides using EPA method 8081A. Concentrations greater than or equal to the industrial ESL are shown ins " bold" type.
- "<" indicates concentration less than laboratory reporting limit.
- ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final February 2005. Table A-2. Industrial Land Use: Shallow Soil (equal or less than 3 meters bgs), groundwater IS a current or potential drinking water resource.
- ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final February 2005. Table K-3. Direct Exposure Soil Screening Levels Construction/Trench Worker Exposure Scenario
- PRGs. US Environmental Protection Agency Region 9, October 2004. Industrial Soil.
- California Hazardous Waste Classification criteria, California Code of Regulations, Title 22, Section 66216.24.
- Code of Federal Regulations (CFR) 261.24

Abbreviations

bgs = below ground surface
ESLs = Environmental Screening Levels
NA = Not Applicable
PRGs = Preliminary Remediation Goals

TABLE 7

**2009 SOIL SAMPLE ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS (TPH) ¹**

Santa Cruz Branch Line

Santa Cruz and Monterey Counties, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Date	Depth (feet bgs)	TPHd (mg/kg)	TPHmo (mg/kg)
Targeted Samples				
Samples Collected Near Previous Boring SB-45				
SB-97-0.5	4/13/2009	0.5	440	1500
SB-97-4.5	4/13/2009	4.5	17	71
SB-97-10.0	4/13/2009	10.0	1.2	<50
SB-98-0.5	4/13/2009	0.5	790 J	2200 J
SB-99-0.5	4/13/2009	0.5	490 J	1600 J
SB-100-10.0	4/13/2009	10.0	23 J	53 J
SB-100-15.75	4/13/2009	15.75	<1.0	<50
SB-101-0.5	4/13/2009	0.5	420 J	1200 J
SB-101-4.5	4/13/2009	4.5	1800 J	3100 J
SB-101-10.0	4/13/2009	10.0	770	780
SB-101-20.0	4/13/2009	20.0	4.8 J	<50 UJ
SB-102-0.5	4/13/2009	0.5	380 J	1200 J
SB-102-4.5	4/13/2009	4.5	680 J	1300 J
SB-102-12.0	4/13/2009	12.0	790 J	460 J
SB-102-20.0	4/13/2009	20.0	4.2	<50
Sample Collected Near Gino Rinaldi, Inc				
SB-95-0.5	2/12/2009	0.5	14	50
SB-96-0.5	2/12/2009	0.5	14	56
Systematic Samples				
Residential Section Between Seascap and Capitola				
SB-71-0.5	2/11/2009	0.5	51	100
SB-72-0.5	2/11/2009	0.5	1.7	<50
SB-73-0.5	2/10/2009	0.5	6.1	<50
SB-103-0.5	4/13/2009	0.5	1.5	<50
Industrial ESLs ³ (mg/kg)			450	3,700
Construction Worker ESLs ⁴ (mg/kg)			4,200	12,000

TABLE 7

2009 SOIL SAMPLE ANALYTICAL RESULTS TOTAL PETROLEUM HYDROCARBONS (TPH) ¹ Santa Cruz Branch Line Santa Cruz and Monterey Counties, California

Notes

1. Soil samples collected by AMEC Geomatrix, Inc., and analyzed by Test America San Francisco of Pleasanton, California for TPHd and TPHmo using EPA Method 8015B.
2. "<" indicates concentration less than laboratory reporting limit.
3. ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final May 2008. Table A-2. Industrial Land Use: Shallow Soil (equal or less than 3 meters bgs), groundwater IS a current or potential drinking water resource.
4. ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final May 2008. Table K-3. Direct Exposure Soil Screening Levels Construction/Trench Worker Exposure Scenario.
5. Concentrations greater than industrial ESLs are shown in "**bold**" type.

Abbreviations

bgs = below ground surface

mg/kg = milligrams per kilogram

TPHd = Total Petroleum Hydrocarbons quantified as diesel (classified as Diesel Range Organics (DRO) by the laboratory).

TPHmo = Total Petroleum Hydrocarbons quantified as motor oil (classified as Motor Oil Range Organics [MRO] by the laboratory).

ESLs = Environmental Screening Levels

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the reported quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 8

2009 SOIL SAMPLE ANALYTICAL RESULTS—METALS¹

Santa Cruz Branch Line
Santa Cruz and Monterey Counties, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Date	Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Nickel	Zinc	
Targeted Samples									
Section II	Samples Collected Near Previous Boring SB-10								
	SB-77-0.5	2/11/2009	0.5	2.0	--	--	--	--	
	SB-77-1.5	2/11/2009	1.5	1.4	--	--	--	--	
	SB-77-3.0	2/11/2009	3	3.3	--	--	--	--	
	SB-78-0.5	2/11/2009	0.5	4.5	--	--	--	--	
	SB-78-1.5	2/11/2009	1.5	2.2	--	--	--	--	
	SB-78-4.5	2/11/2009	4.5	1.9	--	--	--	--	
	SB-79-0.5	2/11/2009	0.5	3.2	--	--	--	--	
	SB-79-1.5	2/11/2009	1.5	2.1	--	--	--	--	
	SB-79-4.5	2/11/2009	4.5	28	--	--	--	--	
	SB-80-0.5	2/11/2009	0.5	53	--	--	--	--	
	SB-80-4.5	2/11/2009	4.5	2.6	--	--	--	--	
	SB-80-5.5	2/11/2009	5.5	2.1	--	--	--	--	
	SB-81-0.5	2/11/2009	0.5	1.6	--	--	--	--	
	SB-81-1.5	2/11/2009	1.5	50	--	--	--	--	
	SB-81-4.5	2/11/2009	4.5	5.4	--	--	--	--	
SB-82-0.5	2/11/2009	0.5	14	--	--	--	--		
SB-82-1.5	2/11/2009	1.5	1.1	--	--	--	--		
SB-82-4.5	2/11/2009	4.5	2.5	--	--	--	--		
Section III	Samples Collected Near Previous Boring SB-23								
	SB-74-0.5	2/11/2009	0.5	21	--	--	--	--	
	SB-74-1.5	2/11/2009	1.5	19	--	--	--	--	
	SB-74-3.0	2/11/2009	3	5.9	--	--	--	--	
	SB-75-0.5	2/11/2009	0.5	3.9	--	--	--	--	
	SB-75-1.5	2/11/2009	1.5	2.9	--	--	--	--	
	SB-75-4.5	2/11/2009	4.5	4.9	--	--	--	--	
	SB-76-0.5	2/11/2009	0.5	30	--	--	--	--	
	SB-76-1.5	2/11/2009	1.5	8.5	--	--	--	--	
SB-76-3.0	2/11/2009	3	4.0	--	--	--	--		
Section IV	Samples Collected Near Gino Rinaldi, Inc.								
	SB-95-0.5	2/12/2009	0.5	7.9	<0.51	15	34	9.9	93
	SB-95-1.5	2/12/2009	1.5	74	--	--	--	--	--
	SB-96-0.5	2/12/2009	0.5	5.6	0.52	25	22	19	97
SB-96-1.5	2/12/2009	1.5	8.9	--	--	--	--	--	

TABLE 8

2009 SOIL SAMPLE ANALYTICAL RESULTS—METALS¹

Santa Cruz Branch Line
Santa Cruz and Monterey Counties, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Date	Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Nickel	Zinc
Systematic Samples								
Section III	Residential Section							
	SB-83-0.5	2/12/2009	0.5	72	--	--	--	--
	SB-83-1.5	2/12/2009	1.5	120	--	--	--	--
	SB-83-4.5	2/12/2009	4.5	2.1	--	--	--	--
	SB-84-0.5	2/12/2009	0.5	110	--	--	--	--
	SB-84-1.5	2/12/2009	1.5	130	--	--	--	--
	SB-84-4.5	2/12/2009	4.5	10	--	--	--	--
	SB-85-0.5	2/12/2009	0.5	18	--	--	--	--
	SB-85-1.2	2/12/2009	1.2	2.6	--	--	--	--
	SB-85-4.5	2/12/2009	4.5	3.0	--	--	--	--
	SB-86-0.5	2/12/2009	0.5	23	--	--	--	--
	SB-86-1.5	2/12/2009	1.5	4.1	--	--	--	--
	SB-86-4.5	2/12/2009	4.5	15	--	--	--	--
	SB-87-0.5	2/12/2009	0.5	16	--	--	--	--
	SB-87-1.5	2/12/2009	1.5	11	--	--	--	--
	SB-87-4.5	2/12/2009	4.5	3.0	--	--	--	--
	SB-88-0.5	2/12/2009	0.5	8.5	--	--	--	--
	SB-88-1.5	2/12/2009	1.5	1.4	--	--	--	--
	SB-88-4.5	2/12/2009	4.5	1.4	--	--	--	--
	SB-89-0.5	2/12/2009	0.5	7.5	--	--	--	--
	SB-89-1.5	2/12/2009	1.5	79	--	--	--	--
	SB-89-4.5	2/12/2009	4.5	4.4	--	--	--	--
	SB-90-0.5	2/12/2009	0.5	2.1	--	--	--	--
	SB-90-1.5	2/12/2009	1.5	38	--	--	--	--
	SB-90-4.5	2/12/2009	4.5	14	--	--	--	--
	SB-91-0.5	2/12/2009	0.5	13	--	--	--	--
	SB-91-1.5	2/12/2009	1.5	4.8	--	--	--	--
	SB-91-4.5	2/12/2009	4.5	3.7	--	--	--	--
	SB-92-0.5	2/12/2009	0.5	37	--	--	--	--
	SB-92-1.5	2/12/2009	1.5	190	--	--	--	--
	SB-92-4.5	2/12/2009	4.5	11	--	--	--	--
	SB-93-0.5	2/12/2009	0.5	57	--	--	--	--
SB-93-1.5	2/12/2009	1.5	2.9	--	--	--	--	
SB-93-4.5	2/12/2009	4.5	2.9	--	--	--	--	
SB-94-0.5	2/12/2009	0.5	16	--	--	--	--	
SB-94-1.5	2/12/2009	1.5	1.6	--	--	--	--	
SB-94-4.5	2/12/2009	4.5	1.9	--	--	--	--	

TABLE 8

2009 SOIL SAMPLE ANALYTICAL RESULTS—METALS¹

Santa Cruz Branch Line
Santa Cruz and Monterey Counties, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Date	Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Nickel	Zinc
Undeveloped Section								
Section IV	SB-59-0.5	2/10/2009	0.5	31	--	--	--	--
	SB-59-1.5	2/10/2009	1.5	2.7	--	--	--	--
	SB-59-4.5	2/10/2009	4.5	3.4	--	--	--	--
	SB-60-0.5	2/10/2009	0.5	47	--	--	--	--
	SB-60-1.5	2/10/2009	1.5	110	--	--	--	--
	SB-60-4.5	2/10/2009	4.5	4.7	--	--	--	--
	SB-61-0.5	2/10/2009	0.5	240	--	--	--	--
	SB-61-1.5	2/10/2009	1.5	10	--	--	--	--
	SB-61-4.5	2/10/2009	4.5	6.9	--	--	--	--
	SB-62-0.5	2/10/2009	0.5	66	--	--	--	--
	SB-62-1.5	2/10/2009	1.5	150	--	--	--	--
	SB-62-4.5	2/10/2009	4.5	46	--	--	--	--
	SB-63-0.5	2/10/2009	0.5	31	--	--	--	--
	SB-63-1.5	2/10/2009	1.5	33	--	--	--	--
	SB-63-4.5	2/10/2009	4.5	22	--	--	--	--
	SB-64-0.5	2/10/2009	0.5	6.5	--	--	--	--
	SB-64-1.5	2/10/2009	1.5	37	--	--	--	--
	SB-64-4.5	2/10/2009	4.5	2.5	--	--	--	--
	SB-65-0.5	2/10/2009	0.5	87	--	--	--	--
	SB-65-1.5	2/10/2009	1.5	3.8	--	--	--	--
	SB-65-4.5	2/10/2009	4.5	3.5	--	--	--	--
	SB-66-0.5	2/10/2009	0.5	60	--	--	--	--
	SB-66-1.5	2/10/2009	1.5	3.6	--	--	--	--
	SB-66-4.5	2/10/2009	4.5	2.0	--	--	--	--
	SB-67-0.5	2/10/2009	0.5	34	--	--	--	--
	SB-67-1.5	2/10/2009	1.5	2.4	--	--	--	--
	SB-67-4.5	2/10/2009	4.5	2.2	--	--	--	--
	SB-68-0.5	2/10/2009	0.5	42	--	--	--	--
	SB-68-1.5	2/10/2009	1.5	3.3	--	--	--	--
	SB-68-4.5	2/10/2009	4.5	2.9	--	--	--	--
SB-69-0.5	2/10/2009	0.5	10	--	--	--	--	
SB-69-1.5	2/10/2009	1.5	5.2	--	--	--	--	
SB-69-4.5	2/10/2009	4.5	2.8	--	--	--	--	
SB-70-0.5	2/10/2009	0.5	2.2	--	--	--	--	
SB-70-1.5	2/10/2009	1.5	3.9	--	--	--	--	
SB-70-4.5	2/10/2009	4.5	2.5	--	--	--	--	

TABLE 8

2009 SOIL SAMPLE ANALYTICAL RESULTS—METALS¹

Santa Cruz Branch Line
Santa Cruz and Monterey Counties, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Date	Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Nickel	Zinc
Agricultural (South) Section								
SB-55-0.5	2/9/2009	0.5	48	--	--	--	--	--
SB-55-1.5	2/9/2009	1.5	35	--	--	--	--	--
SB-55-4.5	2/9/2009	4.5	11	--	--	--	--	--
SB-56-0.5	2/9/2009	0.5	80	--	--	--	--	--
SB-56-1.5	2/9/2009	1.5	40	--	--	--	--	--
SB-56-4.5	2/9/2009	4.5	21	--	--	--	--	--
SB-57-0.5	2/9/2009	0.5	59	--	--	--	--	--
SB-57-1.5	2/9/2009	1.5	12	--	--	--	--	--
SB-57-4.5	2/9/2009	4.5	11	--	--	--	--	--
SB-58-0.5	2/9/2009	0.5	49	--	--	--	--	--
SB-58-1.5	2/9/2009	1.5	180	--	--	--	--	--
SB-58-3.5	2/9/2009	3.5	33	--	--	--	--	--
Residential Section Between Seascape and Capitola								
SB-71-0.5	2/11/2009	0.5	23	<0.52	48	25	15	47
SB-71-1.5	2/11/2009	1.5	47	--	--	--	--	--
SB-71-4.5	2/11/2009	4.5	2	--	--	--	--	--
SB-72-0.5	2/11/2009	0.5	69	<0.49	40	33	32	28
SB-72-1.0	2/11/2009	1.5	3.9	--	--	--	--	--
SB-72-4.5	2/11/2009	4.5	2.0	--	--	--	--	--
SB-73-0.5	2/10/2009	0.5	8.8	<0.48	25	11	16	42
SB-73-1.5	2/10/2009	1.5	4.7	--	--	--	--	--
SB-73-14.5	2/10/2009	4.5	6.7	--	--	--	--	--
SB-103-0.5	4/13/2009	0.5	14	<0.48	24	13	11	25
SB-103-1.5	4/13/2009	1.5	36	--	--	--	--	--
SB-103-4.5	4/13/2009	4.5	23	--	--	--	--	--
Site-Specific Background Concentration ⁴			14.4	na	na	na	na	na
Industrial ESLs ⁵			NA ⁹	7.4	310,000	750	3,400	61,000
Construction Worker ESLs ⁶			15	39	1,200,000	750	260	230,000
10 times STLC ⁷ (mg/l)			50	10	50	50	200	2500
TTLC ⁷ (mg/kg)			500	100	2500	1000	2000	5000
20 times TC ⁸ (mg/l)			100	20	100	100	--	--

Section IV

TABLE 8

2009 SOIL SAMPLE ANALYTICAL RESULTS SUMMARY–METALS ¹

Santa Cruz Branch Line
Santa Cruz and Monterey Counties, California

Notes

1. Soil samples collected by AMEC Geomatrix, Inc., and analyzed by Test America San Francisco of Pleasanton, California, for select metals using EPA methods 6010B and 7470/7471.
2. "<" indicates concentration less than laboratory reporting limit.
3. "--" indicates analysis was not performed on sample.
4. The Site-Specific Background Concentration for arsenic was calculated based on Site data as presented in Appendix E.
5. ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final May 2008. Table A-2. Industrial Land Use: Shallow Soil (equal or less than 3 meters bgs), groundwater IS a current or potential drinking water resource.
6. ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final May 2008. Table K-3. Direct Exposure Soil Screening Levels Construction/Trench Worker Exposure Scenario.
7. California Hazardous Waste Classification criteria, California Code of Regulations, Title 22, Section 66216.2
8. Code of Federal Regulations (CFR) 261.24
9. The residential and industrial ESLs for direct exposure to soil is less than the calculated site-specific background concentration for arsenic and therefore is not applicable.
10. Concentrations greater than applicable screening criteria are shown in " **bold**" type.

Abbreviations

bgs = below ground surface
ESLs = Environmental Screening Levels
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
na = not available
NA = not applicable
STLC = Soluble Threshold Limit Concentration
TTLC = Total Threshold Limit Concentration
TC = Federal Toxicity Characteristic

TABLE 9
2009 SOIL SAMPLE ANALYTICAL RESULTS
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)¹

Santa Cruz Branch Line
Santa Cruz and Monterey Counties, California

Concentrations in micrograms per kilogram (µg/kg)

Sample ID	Sample Date	Depth (feet bgs)	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(a) Anthracene	Benzo(a) Pyrene	Benzo(b) Fluoranthene	Benzo (g,h,i) Perylene	Benzo(k) Fluoranthene	Chrysene	Dibenz(a,h)-Anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3-c,d) Pyrene	Naph-thalene	Phenan-threne	Pyrene	
Targeted Samples																			
Samples Collected Near Previous Boring SB-10																			
Section II	SB-77-0.5	2/11/2009	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	SB-77-1.5	2/11/2009	1.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	SB-77-3.0	2/11/2009	3	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	SB-78-0.5	2/11/2009	0.5	<5.0	<5.0	<5.0	6.1	11	27	<5.0	6.1	12	<5.0	12	<5.0	6.8	<5.0	<5.0	11
	SB-78-1.5	2/11/2009	1.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	SB-78-4.5	2/11/2009	4.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	SB-79-0.5	2/11/2009	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.3	<5.0	12	<5.0	<5.0	<5.0	<5.0	9.0
	SB-79-1.5	2/11/2009	1.5	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
	SB-79-4.5	2/11/2009	4.5	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
	SB-80-0.5	2/11/2009	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	11	7.3	<5.0	6.0	<5.0	7.7	<5.0	6.1	<5.0	<5.0	7.9
	SB-80-4.5	2/11/2009	4.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	SB-80-5.5	2/11/2009	5.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	SB-81-0.5	2/11/2009	0.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	SB-81-1.5	2/11/2009	1.5	6.9	<4.9	12	5.6	9.0	26	18	5.3	12	<4.9	13	<4.9	14	<4.9	<4.9	15
	SB-81-4.5	2/11/2009	4.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-82-0.5	2/11/2009	0.5	<25	40	54	33	58	120	110	39	59	<25	50	<25	83	<25	<25	58	
SB-82-1.5	2/11/2009	1.5	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	
SB-82-4.5	2/11/2009	4.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Section IV Samples Collected Near Gino Rinaldi, Inc.																			
Section IV	SB-95-0.5	2/12/2009	0.5	<25	<25	34	<25	<25	37	68	<25	29	<25	27	<25	36	<25	<25	32
	SB-96-0.5	2/12/2009	0.5	<9.9	<9.9	15	55	44	78	41	22	58	<9.9	86	<9.9	33	<9.9	33	76
	SB-96-1.5	2/12/2009	1.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Systematic Samples																			
Section IV Residential Section Between Seascap and Capitola																			
Section IV	SB-71-0.5	2/11/2009	0.5	<50	<50	<50	110	130	220 J	85	67	130	<50	290 J	<50	83	<50	160	260
	SB-71-1.5	2/11/2009	1.5	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ	<4.9 UJ
	SB-72-0.5	2/11/2009	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	SB-73-0.5	2/10/2009	0.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
	SB-103-0.5	4/13/2009	0.5	<5	<5	<5	5.5	6.8	17	<5	<5	8.9	<5	5.4	<5	<5	<5	<5	<5
Industrial ESLs ³			3,100,000	3,300,000	26,000,000	1,300	130	1,300	3,300,000	1,300	210,000	210	4,400,000	2,800,000	2,100	2,800	3,300,000	6,600,000	
Construction Worker ESLs ⁴			17,000,000	11,000,000	100,000,000	15,000	1,500	15,000	11,000,000	15,000	2,400,000	2,400	14,000,000	12,000,000	24,000	130,000	11,000,000	21,000,000	

TABLE 9
2009 SOIL SAMPLE ANALYTICAL RESULTS
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)¹
Santa Cruz Branch Line
Santa Cruz and Monterey Counties, California

Notes

1. Soil samples collected by AMEC Geomatrix, Inc., and analyzed by Test America San Francisco of Pleasanton, California for polynuclear aromatic hydrocarbons using EPA method 8270C with selective ion monitoring (SIM).
2. "<" indicates concentration less than laboratory reporting limit.
3. ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final May 2008. Table A-2. Industrial Land Use: Shallow Soil (equal or less than 3 meters bgs), groundwater IS a current or potential drinking water resource.
4. ESLs for direct exposure to soil. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final May 2008. Table K-3. Direct Exposure Soil Screening Levels Construction/Trench Worker Exposure Scenario.
5. Concentrations greater than or equal to industrial ESLs are shown in "**bold**" type.

Abbreviations

bgs = below ground surface

mg/kg = milligrams per kilogram

ESLs = Environmental Screening Levels

Data Qualifiers

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the reported quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample