Treadwell&Rollo

6 May 2002
Project 3212.02

Opus West Corporation
c/o Jon K. Wactor, Esq.
Luce, Forward, Hamilton & Scripps, LLP
121 Spear Street, Suite 200
San Francisco, California 94105

Subject: Closure Plan Addendum
Ryerson-Tull Steel Property
1465 65th Street
Emeryville, California

Dear Mr. Wactor:

Treadwell & Rollo, Inc. presents this addendum to our Closure Plan for the Ryerson-Tull Steel facility at 1465 65th Street in Emeryville, California ("site"). Figures 1 and 2, attached, present the site location and plan. This addendum includes results of groundwater monitoring recently completed at the site as requested by the City of Emeryville's consultant (City) and the Alameda County Environmental Health Services (County). This work was completed as outlined in our proposals dated 17 April 2002. Previously, SECOR completed a Phase I Environmental Site Assessment dated 9 November 2001 and we completed a Phase II Environmental Site Assessment, dated 21 January 2002, and a Closure Plan for the site, dated 26 March 2002. To verify that volatile organic compounds (VOCs) concentrations in groundwater beneath the site have stabilized or are decreasing, we collected an additional round of groundwater samples from the site wells for chemical analysis. A summary of the groundwater monitoring activities follows.

Groundwater Sampling and Analysis

On 25 April 2002, groundwater samples were collected from the six existing monitoring wells, RMW-1 through RMW-3 and MW-2 through MW-4, for chemical analysis. A duplicate sample was collected from well MW-4 and a trip blank was prepared for laboratory analysis as quality assurance and quality control samples. Prior to sampling the wells, the water level was measured in each well, and three equivalent casing volumes of groundwater were pumped from the well. A groundwater sample was then collected by lowering a disposable bailer into the well. The groundwater samples were decanted into the appropriate sample containers prepared and provided by the contracted analytical laboratory. The sample containers were then labeled and immediately placed in an ice-cooled chest for delivery under chain-of-custody procedures to McCambell Analytical, Inc. (McCambell), a California Department of Health Services-certified laboratory in Pacheco, California.

Prior to each purging and sampling interval, the equipment were cleaned with a detergent solution and rinsed with distilled water. The decontamination rinsate and purged groundwater were contained in a labeled 55-gallon drum and stored on site.

All the groundwater samples and trip blank were analyzed for VOCs by EPA method 8010. The samples collected from wells RMW-1 through RMW-3 were also analyzed for benzene, toluene, ethyl benzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8020, and

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total extractable petroleum hydrocarbons (TEPH) by EPA Method 8015M. The groundwater sample from well MW-2 was also analyzed for MTBE as an upgradient monitoring location.

Results

The depth to groundwater in the six site monitoring wells was measured at 3.72 to 6.32 feet below the top of the well casing on 25 April 2002. Based on these measurements, groundwater was calculated to flow west-southwest. A summary of the monitoring well historic water level measurements is presented on Table 1, attached.

The laboratory analytical results are presented in Tables 2a and 2b and in the laboratory analytical report attached to this letter. Several VOCs were detected in the groundwater samples from all the wells, except MW-3. These VOCs and respective maximum detected concentration include: 1,2-dichloroethane at 1.2 micrograms per liter (ug/L), cis 1,1-dichloroethene (DCE) at 24 ug/L, trans 1,2-DCE at 18 ug/L, trichloroethene (TCE) at 44 ug/L, and vinyl chloride at 2.2 ug/L. VOCs were not detected in the trip blank.

BTEX and MTBE were not detected in any of the samples analyzed for these compounds. TEPH as diesel/oil were detected in the samples from wells RMW-1 and RMW-3 at concentrations up to 9,700 ug/L.

Discussion

Since the previous round of groundwater sampling (19 December 2001), the groundwater elevation has lowered approximately 0.5 to 3.0 feet. The VOCs detected are the same compounds detected during previous sampling events at similar concentrations. No individual VOC was detected at a concentration greater than previously detected. Detected VOC concentrations have stabilized and/or decreased during the groundwater-monitoring period that started in 1993. Furthermore, these recent data would not change the results of our risk evaluation, presented in the Closure Plan, which identified risk levels below regulatory accepted levels for future site occupants. Therefore, we conclude that additional environmental investigations are not necessary and recommend that the mitigative measures outlined in the Closure Plan be implemented for site development.

If you have any questions or comments, please call.

Sincerely yours,
TREADWELL & ROLLO, INC.

Jeffrey F. Ludlow, R.G.
Senior Project Manager

Philip G. Smith, R.E.A. II
Principal Geologist

32120211.JFL

Attachment

cc: Susan Colman – City of Emeryville

Table 1
Groundwater Elevation
Groundwater Monitoring Wells
1465 65th Street
Emeryville, California

Well ID	Date Measured	Top of Casing Elevation (Ft MSL)	Depth to Water (Ft BTOC)	Groundwater Elevation (Ft MSL)
MW-2	3/24/95	19.45	3.03	16.42
	7/7/95	19.45	4.20	15.25
	12/17/01	19.45	3.49	15.96
	4/25/02	19.45	3.98	15.47
MW-3	3/24/95	15.24	2.72	12.52
	7/7/95	15.24	6.22	9.02
	12/17/01	15.24	3.26	11.98
	4/25/02	15.24	6.32	8.92
MW-4	3/6/95	14.02		
	3/24/95	14.02	4.57	9.45
	7/7/95	14.02	5.77	8.25
	12/17/01	14.02	5.02	9.00
	4/25/02	14.02	5.84	8.18
RMW-1	8/11/93	14.38	4.87	9.51
	9/14/93	14.38	4.94	9.44
	11/2/93	14.38	5.13	9.25
	11/24/93	14.38	5.07	9.31
	3/24/95	14.38	3.61	10.77
	7/7/95	14.38	4.18	10.20
	12/17/01	14.38	4.0	10.38
	4/25/02	14.38	4.51	9.87
RMW-2	8/11/93	14.55	4.64	9.91
	9/14/93	14.55	4.64	9.91
	11/2/93	14.55	4.85	9.70
	11/24/93	14.55	4.84	9.71
	3/24/95	14.55	3.35	11.20
	7/7/95	14.55	3.70	10.85
	12/17/01	14.55	3.78	10.77
	4/25/02	14.55	4.26	10.29
RMW-3	8/11/93	14.15		
	9/14/93	14.15	4.25*	9.90
	11/2/93	14.15	4.53*	9.62
	11/24/93	14.15	4.35*	9.80
	3/24/95	14.15	2.95	11.20
	7/7/95	14.15	3.70	10.45
	12/17/01	14.15	3.34**	10.81
	4/25/02	14.15	3.72**	10 43

Notes
Ft BTOC = feet below top of casing
Ft MSL = feet above mean sea level as referenced in the 1995 EKI report
NM = Not measured
Depth to water data for all dates except 12/17/01 and 4/25/02 by EKI and summarized in their 1995 report
* = Corrected depth to water measurement made by HETI due to separate product phase on the water table
** = Heavy Petroleum Hydrocarbon sheen observed on the groundwater purged from the well and/or on the laboratory sample

Table 2a
Groundwater Monitoring Well Analytical Results
By Others and Treadwell Rollo
TPH and BTEX
1465 65th Street
Emeryville, California

Sample ID	Sample Date	TPHg	TPPH	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHd	TEPH as Diesel	TEPH as Motor Oil	TEPH	Metals EPA 6000 Series		
													Arsenic	Lead	Chromium
RMW-1	8/11/93	--	--	--	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--	--	--
	9/14/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/2/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/24/93	57	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	3/24/95	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	210	<5	<5	<10
	12/19/01	--	--	--	<0.5	<0.5	<0.5	<0.5	--	61b	<250	--	--	--	--
RMW-1GWDUP	12/19/01	--	--	--	<0.5	8.0	<0.5	<0.5	--	80g	280	--	--	--	--
	4/25/02	--	--	<5	<0.5	<0.5	<0.5	<0.5	--	190g	1,200	--	--	--	--
RMW-2	8/11/93	--	--	--	1.3	<0.5	<0.5	0.59	<50	--	--	--	--	--	--
	9/14/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/2/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/24/93	50	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	3/24/95	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	150	7.6	<5	<10
	12/18/01	--	--	--	<0.5	<0.5	<0.5	<0.5	--	<50	<250	--	--	--	--
	4/25/02	--	--	<5	<0.5	<0.5	<0.5	<0.5	--	<50	<250	--	--	--	--
RMW-3	8/11/93	NS: Floating free-phase hydrocarbons 0.01 feet													
	9/14/93	NS: Floating free-phase hydrocarbons 0.02 feet													
	11/2/93	NS: Floating free-phase hydrocarbons 0.04 feet													
	11/24/93	NS: Floating free-phase hydrocarbons 0.02 feet													
	3/27/95	--	11,000	--	<10	<10	<10	<10	--	--	--	97,000	<5	<5	<10
	12/18/01	--	--	--	<0.5	<0.5	<0.5	1.4	--	--	--	--	--	--	--
	4/25/02	--	--	<5	<0.5	<0.5	<0.5	<0.5	--	9700b,g,h	5,000	--	--	--	--

Table 2a
Groundwater Monitoring Well Analytical Results
By Others and Treadwell Rollo
TPH and BTEX
1465 65th Street
Emeryville, Califonia

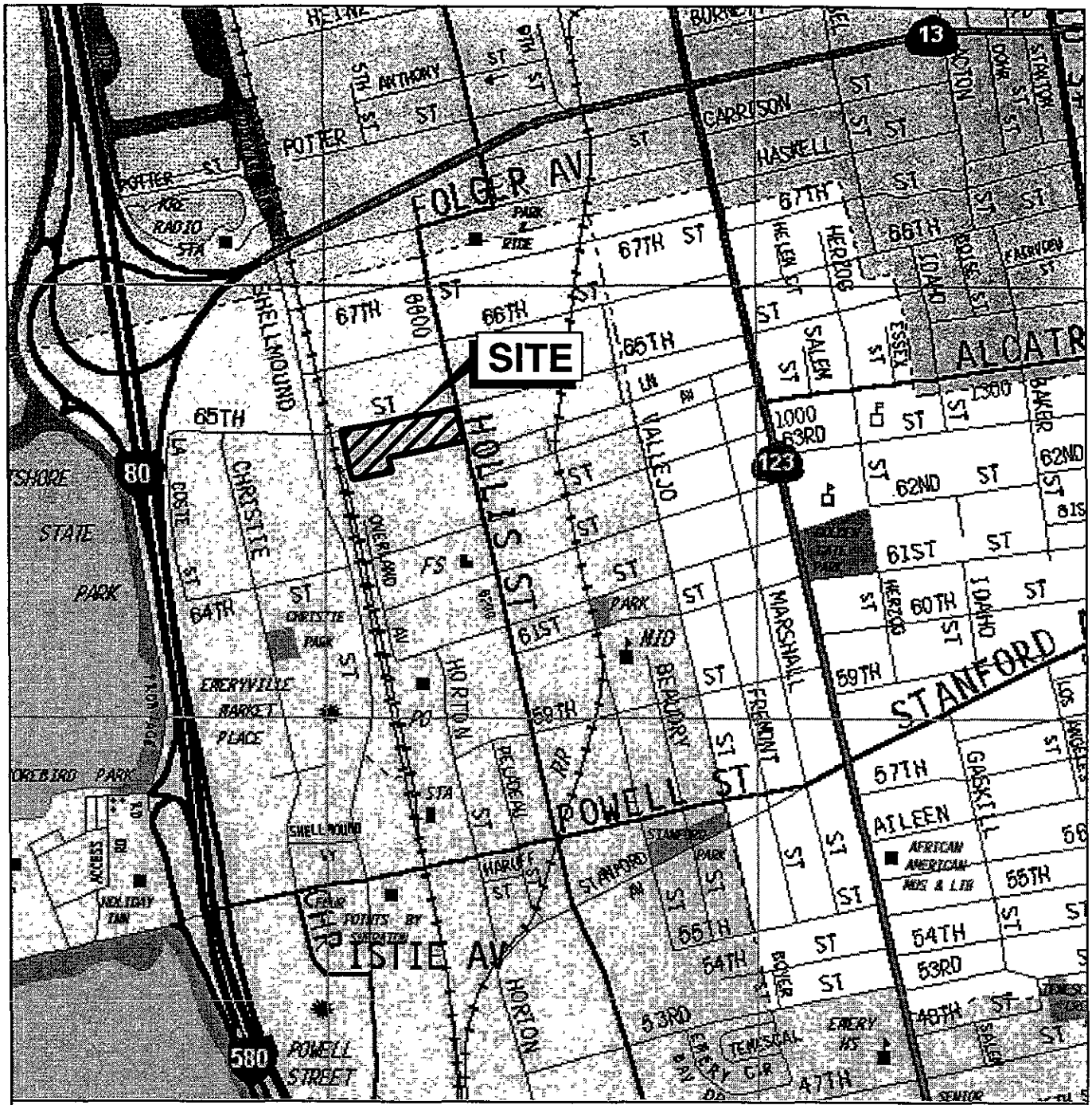
Sample ID	Sample Date	TPHg	TPPH	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHd	TEPH as Diesel	TEPH as Motor Oil	TEPH	Metals EPA 6000 Series		
													Arsenic	Lead	Chromium
MW-2	3/23/95	--	71	--	<0.5	<0.5	<0.5	<0.5	--	--	--	260	<5	<5	<10
	12/17/01	--	--	--	<0.5	<0.5	<0.5	<0.5	--	<50	<250	--	--	--	--
	4/25/02	--	--	<5	--	--	--	--							
MW-3	3/23/95	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	150	13	<5	<10
	12/17/01	--	--	--	<0.5	<0.5	<0.5	<0.5	--	<50	<250	--	--	--	--
	4/25/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	3/23/95	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	190	<5	<5	<10
	12/19/01	--	--	--	<2.5	<2.5	<2.5	<2.5	--	<50	<250	--	--	--	--
	4/25/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FB-GW	12/19/01	--	--	--	<0.5	<0.5	<0.5	<0.5	--	<50	<250	--	--	--	--
TRIP BLANK	4/25/02	--	--	<5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
Indoor Air Cancer-Based RBSL	2001	NA	NA	NA	5.8E+03	NC	NC	NC	NA	NA	NA	NA	NV	NV	NV
Indoor Air Noncancer-Based RBSL	2001	NA	NA	NA	NA	5.3E+05 sol	1.7E+05 sol	1.6E+05 so	NA	NA	NA	NA	NV	NV	NV

Notes
All results are reported in micrograms per liter (ug/L)
<0 5 or ND = not detected at or above the indicated laboratory reporting limit
Bold indicates detection above laboratory reporting limit
-- = Not Analyzed
NS = Not Sampled
FB-GW = Field Blank of Distilled Water
RMW-1GWDUP = Duplicate Groundwater sample from well RMW-1
TPHg = Total Petroleum Hydrocarbons as Gasoline by EPA Method 8015
TPPH = Total Purgeable Petroleum Hydrocarbons
TEPHd = Total Petroleum Hydrocarbons as Diesel by EPA Method 8015
TEPH = Total Extractable Petroleum Hydrocarbons
NA = not applicable
NC = noncarcinogen
NV = not volatile
RBSL = Residential Scenario Risk-Based Screening Level for Fine-Grained Soil (RWQCB 2001)
sol = Solubility threshold (the calculated RBSL exceeds the solubility threshold of the chemical)
T&R data collected on 18 an 19 December 2001
Source Final Site Investigation Report for the 64th and 65th Street Properties, Emeryville, California, EKI, 5 September 1995.
b = diesel range compounds are significant; no recognizable pattern
g = oil range compounds are significant
h = lighter than water immiscible sheen/product is present

Table 2b
Groundwater Monitoring Well Analytical Results
By Others and Treadwell Rollo
VOC and PAH
1465 65th Street
Emeryville, California

Sample ID	Sample Date								PAHs	
		1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl chloride	Bis(2-ethylhexyl) Phthalate	All Other PAHs
RMW-1	3/24/95	<1 2	1.4	<1.2	16	10	53	<2.5	ND	ND
	12/19/01	<0.5	1.3	1.5	12	8.5	31	<0.5	--	--
RMW-1GWDUP	12/19/01	<0.5	2.0	1.3	18	13	48	<0.5	--	--
	4/25/02	<1	1.2	<1	8.8	6.3	23	<1	--	--
RMW-2	3/24/95	<0.5	0.96	<0.5	12	8.4	26	<1	ND	ND
	12/18/01	<0 5	1.5	<0.5	9.8	4.4	27	<0.5	--	--
	4/25/02	<1	1.2	<1	5.9	2.8	21	<1	--	--
RMW-3	3/27/95	11	<0.5	1.4	25	22	36	3.7	ND	ND
	12/18/01	1.5	<0.5	<0.5	20	28	12	2.4	340	ND
	4/25/02	<1	<1	<1	16	18	42	2.2	--	--
MW-2	3/23/95	<1.2	<1.2	<1.2	60	46	2.5	<2.5	ND	ND
	12/17/01	<0.5	<0.5	<0.5	12	0.99	<0.5	<0.5	--	--
	4/25/02	<0.5	<0.5	<0.5	5.6	<0.5	<0.5	<0.5	--	--
MW-3	3/23/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND	ND
	12/17/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
	4/25/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-4	3/23/95	<1.2	<1.2	<1.2	28	16	54	<2.5	ND	ND
	12/19/01	<2.5	<2.5	<2.5	29	12	57	<2.5	--	--
	4/25/02	<1	<1	<1	23	14	42	<1	--	--
MW-4D	4/25/02	<1	<1	<1	24	14	44	<1	--	--
FB-GW	12/19/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
TRIP BLANK	4/25/02	<1	<1	<1	<1	<1	<1	<1	--	--
Indoor Air Cancer-Based RBSL	2001	2 24E+04	4.70E+04	NC*	NC	NC	1.28E+04	1.17E+02	NV	NV
Indoor Air Noncancer-Based RBSL	2001	1.54E+06	NA	NA	1.29E+05	1 50E+05	NA	NA	NV	NV

Notes
All results are reported in micrograms per liter (ug/L)
<0.5 and ND = Not detected at or above the indicated laboratory reporting limit
Bold indicates detection above laboratory reporting limit
RMW-1GWDUP = Duplicate Groundwater Sample from RMW-1
MW-4D = Duplicate Groundwater Sample from MW-4
VOCs = Volatile Organic Compounds
DCA = Dichloroethane
DCE = Dichloroethene
TCE = Trichloroethene
PAH = Polycyclic Aromatic Hydrocarbons
PAHs determined by EPA method 8270 by Treadwell & Rollo for 2001 sampling event
NA = not applicable
NC = noncarcinogen
NV = not volatile
RBSL = Residential Scenario Risk-Based Screening Level for Fine-Grained Soil (RWQCB 2001)
* 1,1-DCE is classified by the U.S.E.P.A. as a Class C carcinogen. According to S. DiZio of the California Department of Toxic Substances (DTSC), the State of California, Department of Health Services Office of Drinking Water regulates 1,1-DCE as a non-carcinogen for setting the Maximum Contaminant Level (MCL) Therefore, 1,1,-DCE was evaluated as a non-carcinogen.
Treadwell & Rollo data was collected on 18 and 19 December 2001
Source: Final Site Investigation Report for the 64th and 65th Street Properties, Emeryville, California, EKI, 5 September 1995



Base map: The Thomas Guide
Alameda County
2002

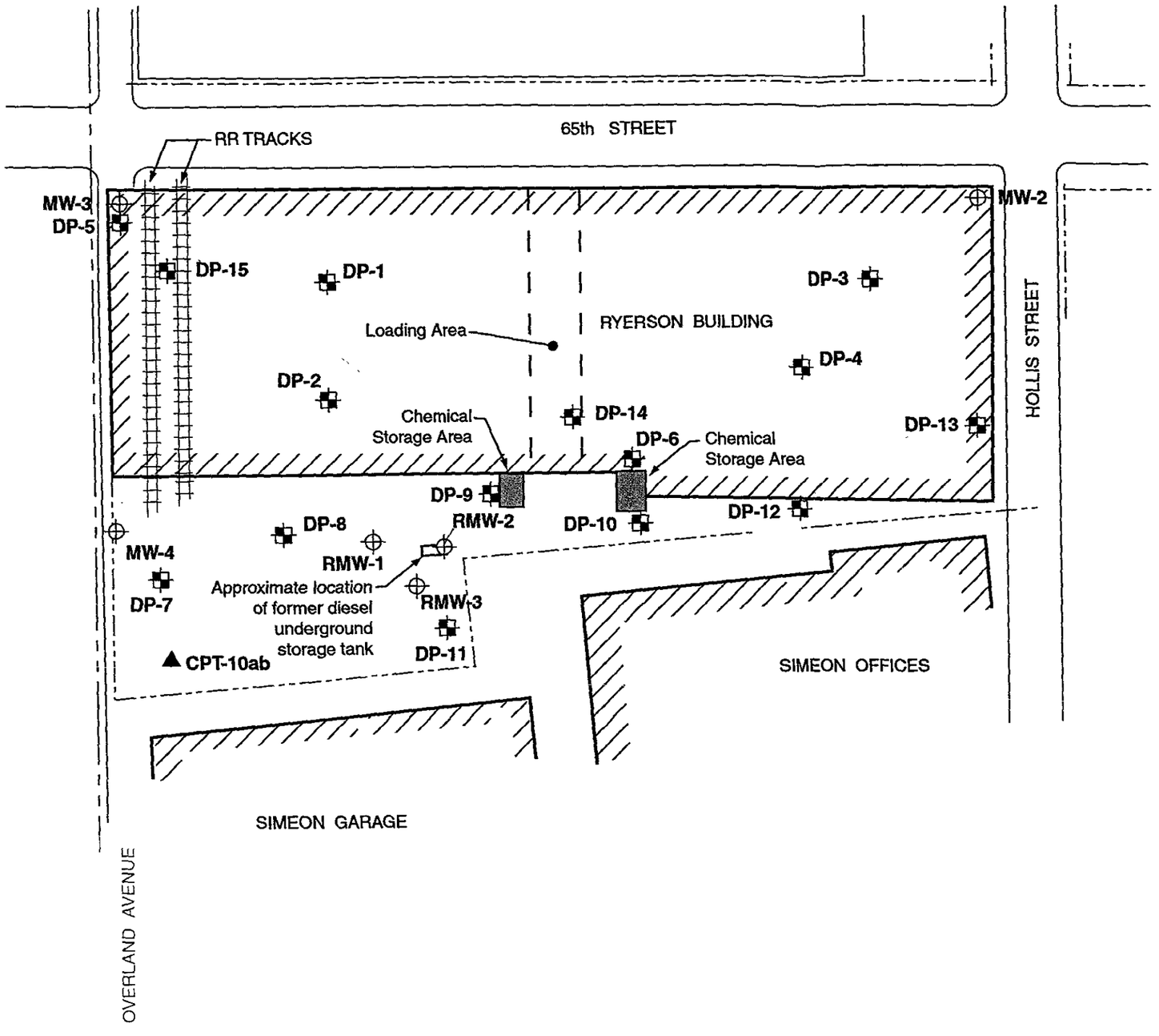
No scale

1465 65TH STREET
Emeryville, California

SITE LOCATION MAP

Treadwell&Rollo

Date 12/18/01	Project No. 3212.02	Figure 1



EXPLANATION

- Existing Structures
- CPT-10ab ▲ Environmental CPT location, December 13, 2001
- DP-1 ⊕ Environmental Direct Push Boring location, December 13 & 14, 2001
- MW-2 ⊕ Groundwater monitoring well installed by others

0 100 Feet

Approximate scale

Reference: First level Plan, 65th & Hollis, Emeryville, Ca, Thompson/Opus West, B.A.R. Architects, dated 5 September 2001.

1465 65th STREET
Emeryville, California

TREADWELL & ROLLO
SAMPLING LOCATION PLAN

Date 05/06/02 | Project No. 3212.02 | Figure 2

Treadwell&Rollo

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Treadwell & Rollo	Client Project ID: #3212.02	Date Sampled: 04/25/02
555 Montgomery St., Suite 1300		Date Received: 04/26/02
San Francisco, CA 94111	Client Contact: Jeff Ludlow	Date Extracted: 04/29/02-05/01/02
	Client P.O.:	Date Analyzed: 04/29/02-05/01/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0204445

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
002B	MW-2	W	—	ND	—	—	—	—	1	102
005B	RMW-2	W	—	ND	ND	ND	ND	ND	1	—#
006B	RMW-1	W	—	ND	ND	ND	ND	ND	1	—#
007B	RMW-3	W	—	ND	ND	ND	ND	ND	1	—#
008A	Trip Blank	W	—	ND	ND	ND	ND	ND	1	110
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5	0.5	0.5	0.5	0.5		ug/L
		S	1	0.05	0.005	0.005	0.005	0.005		mg/Kg

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

DF = dilution factor.

cluttered chromatogram, sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation. a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?), c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent), f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present, i) liquid sample that contains greater than ~2 vol. % sediment; j) no recognizable pattern

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Treadwell & Rollo	Client Project ID: #3212.02	Date Sampled: 04/25/02
555 Montgomery St., Suite 1300		Date Received: 04/26/02
San Francisco, CA 94111	Client Contact: Jeff Ludlow	Date Extracted: 04/26/02
	Client P.O.:	Date Analyzed: 04/27/02-05/01/02

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0204445

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
005C	RMW-2	W	ND	ND	1	91.9
006C	RMW-1	W	190,g	1200	1	101
007C	RMW-3	W	9700,b,g,h	5000	1	101

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	ug/L
	S	NA	NA	mg/Kg

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern, c) aged diesel? is significant), d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel, f) one to a few isolated peaks present, g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present, i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range, l) bunker oil, m) fuel oil, n) stoddard solvent

DHS Certification No. 1644

Edward Hamilton, Lab Director

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http://www.mccampbell.com E-mail: main@mccampbell.com

Treadwell & Rollo	Client Project ID: #3212.02	Date Sampled: 04/25/02
555 Montgomery St., Suite 1300		Date Received: 04/26/02
San Francisco, CA 94111	Client Contact: Jeff Ludlow	Date Extracted: 04/29/02-05/01/02
	Client P.O.:	Date Analyzed: 04/29/02-05/01/02

Halogenated Volatile Organics by GC-ELCD (8010 Basic Target List)

Extraction Method: SW5030B | Analytical Method: SW8021B | Work Order: 0204445

Lab ID	0204445-001A	0204445-002A	0204445-003A	0204445-004A	Reporting Limit for DF =1	
Client ID	MW-3	MW-2	MW-4	MW-4D		
Matrix	W	W	W	W		
DF	1	1	2	2	S	W
Compound	**Concentration**				ug/kg	µg/L
Bromodichloromethane	ND	ND	ND<1	ND<1	NA	0.5
Bromoform	ND	ND	ND<1	ND<1	NA	0.5
Bromomethane	ND	ND	ND<1	ND<1	NA	0.5
Carbon Tetrachloride	ND	ND	ND<1	ND<1	NA	0.5
Chlorobenzene	ND	ND	ND<1	ND<1	NA	0.5
Chloroethane	ND	ND	ND<1	ND<1	NA	0.5
2-Chloroethyl vinyl ether	ND	ND	ND<1	ND<1	NA	0.5
Chloroform	ND	ND	ND<1	ND<1	NA	0.5
Chloromethane	ND	ND	ND<1	ND<1	NA	0.5
Dibromochloromethane	ND	ND	ND<1	ND<1	NA	0.5
1,2-Dichlorobenzene	ND	ND	ND<1	ND<1	NA	0.5
1,3-Dichlorobenzene	ND	ND	ND<1	ND<1	NA	0.5
1,4-Dichlorobenzene	ND	ND	ND<1	ND<1	NA	0.5
Dichlorodifluoromethane	ND	ND	ND<1	ND<1	NA	0.5
1,1-Dichloroethane	ND	ND	ND<1	ND<1	NA	0.5
1,2-Dichloroethane	ND	ND	ND<1	ND<1	NA	0.5
1,1-Dichloroethene	ND	ND	ND<1	ND<1	NA	0.5
cis-1,2-Dichloroethene	ND	5.6	23	24	NA	0.5
trans-1,2-Dichloroethene	ND	ND	14	14	NA	0.5
1,2-Dichloropropane	ND	ND	ND<1	ND<1	NA	0.5
cis-1,3-Dichloropropene	ND	ND	ND<1	ND<1	NA	0.5
trans-1,3-Dichloropropene	ND	ND	ND<1	ND<1	NA	0.5
Methylene chloride	ND<1.0	ND<1.0	ND<2.0	ND<2.0	NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND<1	ND<1	NA	0.5
Tetrachloroethene	ND<1.0	ND<1.0	ND<2.0	ND<2.0	NA	0.5
1,1,1-Trichloroethane	ND	ND	ND<1	ND<1	NA	0.5
1,1,2-Trichloroethane	ND	ND	ND<1	ND<1	NA	0.5
Trichloroethene	ND	ND	42	44	NA	0.5
Trichlorofluoromethane	ND	ND	ND<1	ND<1	NA	0.5
Vinyl Chloride	ND	ND	ND<1	ND<1	NA	0.5
Surrogate Recoveries (%)						
%SS	98.2	107	101	106		
Comments						

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe

Reporting limit for DF = 1; water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg, wipes, ND<0.2ug/wipe

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(h) a lighter than water immiscible sheen/product is present, (i) liquid sample that contains greater than ~2 vol. % sediment, (j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCampbell Analytical Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Treadwell & Rollo	Client Project ID: #3212.02	Date Sampled: 04/25/02
555 Montgomery St., Suite 1300		Date Received: 04/26/02
San Francisco, CA 94111	Client Contact: Jeff Ludlow	Date Extracted: 04/29/02-05/01/02
	Client P.O.:	Date Analyzed: 04/29/02-05/01/02

Halogenated Volatile Organics by GC-ELCD (8010 Basic Target List)

Extraction Method: SW5030B | Analytical Method: SW8021B | Work Order: 0204445

Lab ID	0204445-005A	0204445-006A	0204445-007A	0204445-008A	Reporting Limit for DF =1	
Client ID	RMW-2	RMW-1	RMW-3	Trip Blank		
Matrix	W	W	W	W		
DF	2	2	2	1	S	W
Compound	**Concentration**				ug/kg	µg/L
Bromodichloromethane	ND<1	ND<1	ND<1	ND	NA	0.5
Bromoform	ND<1	ND<1	ND<1	ND	NA	0.5
Bromomethane	ND<1	ND<1	ND<1	ND	NA	0.5
Carbon Tetrachloride	ND<1	ND<1	ND<1	ND	NA	0.5
Chlorobenzene	ND<1	ND<1	ND<1	ND	NA	0.5
Chloroethane	ND<1	ND<1	ND<1	ND	NA	0.5
2-Chloroethyl vinyl ether	ND<1	ND<1	ND<1	ND	NA	0.5
Chloroform	ND<1	ND<1	ND<1	ND	NA	0.5
Chloromethane	ND<1	ND<1	ND<1	ND	NA	0.5
Dibromochloromethane	ND<1	ND<1	ND<1	ND	NA	0.5
1,2-Dichlorobenzene	ND<1	ND<1	ND<1	ND	NA	0.5
1,3-Dichlorobenzene	ND<1	ND<1	ND<1	ND	NA	0.5
1,4-Dichlorobenzene	ND<1	ND<1	ND<1	ND	NA	0.5
Dichlorodifluoromethane	ND<1	ND<1	ND<1	ND	NA	0.5
1,1-Dichloroethane	ND<1	ND<1	ND<1	ND	NA	0.5
1,2-Dichloroethane	1.2	1.2	ND<1	ND	NA	0.5
1,1-Dichloroethene	ND<1	ND<1	ND<1.0	ND	NA	0.5
cis-1,2-Dichloroethene	5.9	8.8	16	ND	NA	0.5
trans-1,2-Dichloroethene	2.8	6.3	18	ND	NA	0.5
1,2-Dichloropropane	ND<1	ND<1	ND<1	ND	NA	0.5
cis-1,3-Dichloropropene	ND<1	ND<1	ND<1	ND	NA	0.5
trans-1,3-Dichloropropene	ND<1	ND<1	ND<1	ND	NA	0.5
Methylene chloride	ND<2.0	ND<2.0	ND<2.0	ND<1.0	NA	0.5
1,1,2,2-Tetrachloroethane	ND<1	ND<1	ND<1	ND	NA	0.5
Tetrachloroethene	ND<2.0	ND<2.0	ND<2.0	ND<1.0	NA	0.5
1,1,1-Trichloroethane	ND<1	ND<1	ND<1	ND	NA	0.5
1,1,2-Trichloroethane	ND<1	ND<1	ND<1	ND	NA	0.5
Trichloroethene	21	23	42	ND	NA	0.5
Trichlorofluoromethane	ND<1	ND<1	ND<1	ND	NA	0.5
Vinyl Chloride	ND<1	ND<1	2.2	ND	NA	0.5
Surrogate Recoveries (%)						
%SS	103	97.8	101	96.3		
Comments						

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe

Reporting limit for DF = 1, water/TCLP/SPLP extracts, ND<0.5ug/L, soils and sludges, ND<5ug/kg, wipes, ND<0.2ug/wipe

ND means not detected above the reporting limit, N/A means analyte not applicable to this analysis

(h) a lighter than water immiscible sheen/product is present, (i) liquid sample that contains greater than ~2 vol. % sediment, (j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

02 04445

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

Page ___ of ___

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Ryerson Tull - Emeryville
Job Number: 3212.02
Project Manager\Contact: Jeff Ludlow
Samplers: Eric Delgrain
Recorder (Signature Required):

Turnaround Time: 7 days

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Unpres	Analysis Requested: BTEX (8020)	TPH (MTBE only) (8260)	BTEX (MTBE) (8260)	TPH (DRO) (8015)	Silica gel clean-up	Hold	Remarks
MW-3	4/25/02	1240			X		3			X			X						
MW-2	4/25/02	1355			X		4			X			X	X					
MW-4	4/25/02	1519			X		3			X			X						
MW-4D	4/25/02	1519			X		3			X			X						
RMW-2	4/25/02	1610			X		4			X		1	X		X	X			
~~RMW-2~~																			
RMW-1	4/25/02	1710			X		4			X		1	X		X	X			
RMW-3	4/25/02	1755			X		4			X		1	X		X	X			
Trip Blank	4/25/02				X					X			X		X				

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/25/02	1015			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	04/26/02	1415			
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time
				4/26/02	5:30

Sent to Laboratory (Name):
Laboratory Comments/Notes:

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002143

1 925 798 4612

McCampbell Analytical Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0204445

Client
Treadwell & Rollo
555 Montgomery St , Suite 1300
San Francisco, CA 94111

TEL: (415) 955-9040
FAX: (415) 955-9041
ProjectNo: #3212.02
PO:

26-Apr-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests SW8015C	SW8021B	8021B/8015
0204445-001	MW-3	Water	4/25/02 12:40:00 PM			A	
0204445-002	MW-2	Water	4/25/02 1:55:00 PM			A	B
0204445-003	MW-4	Water	4/25/02 3:19:00 PM			A	
0204445-004	MW-4D	Water	3/25/02 3:19:00 PM			A	
0204445-005	RMW-2	Water	4/25/02 4:16:00 PM		C	A	B
0204445-006	RMW-1	Water	4/25/02 5:10:00 PM		C	A	B
0204445-007	RMW-3	Water	4/25/02 5:55:00 PM		C	A	B
0204445-008	Trip Blank	Water	4/25/02			A	A

Comments:

	Date/Time		Date/Time
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	

NOTE Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other