WHZCF 1.8 V1

Weyerhaeuser

Longview Chlor-Alkali Plant
Longview, Washington 98632
Tel (206) 425 2150

JS-018-95

RECEIVED
JAN 27 1995

January 24, 1995

Mr. Paul Skyllingstad
Hydro Geologist
Industrial Section
Department of Ecology
PO Box 47706
Olympia, WA 98504-7706

RE: **Weyerhaeuser Longview Chlor-Alkali Facility Groundwater Data**

Attached are summary data tables and graphs which detail groundwater sample results for wells located on the Weyerhaeuser Longview Chlor-Alkali facility site. A site map is included for your reference. Groundwater well sampling methodology and frequency were done in accordance with the procedures outlined in the draft RI/FS Work Plan proposed for this site. Some of the samples showed an elevated detection limit; attached is a narrative from Jeff Christian at Columbia Analytical Services explaining why this occurred.

If you have any questions about the attached information, please do not hesitate to call me at 360-636-6343.

Jim Sims

Jim Sims
Plant Manager
Chlor-Alkali Facility
Weyerhaeuser Company

JS/cdh

c: Monica Rolluda
Environmental Protection Agency
HW-114 US EPA
1200 6th Avenue
Seattle, WA 98101

USEPA SF
1457652

WEYERHAEUSER
FIFTY YEARS
America's First Tree Farm

COLUMBIA ANALYTICAL SERVICES, INC.

Client: CH2M Hill
Project: Weyerhaeuser
Sample Matrix: Water

Date Received: 1,4,7/94

CASE NARRATIVE

Four sampling events occurred during 1994 for this project. Well #'s CH6 and MW3 exhibited varying amounts of matrix interference for the mercury determination for each quarter. Of the four samples received for each of these wells during 1994, three contained sufficient matrix interference to necessitate dilution of the samples to comply with the QA/QC objectives of EPA Method 7470.

Specifically, the matrix interference was a result of a combination of elevated chloride and dissolved organic constituents. The chloride tracked with the conductivity results, and the relative organic content was qualitatively evident by the varying color intensity of the samples. Chemically, the affect of the chloride and dissolved organics causes added reduction of the permanganate reagent which is primarily responsible for assuring that all mercury is oxidized, and maintained, in the 2+ valence state. The methodology allows addition of excess permanganate to overcome the elevated concentration of oxidizable constituents, however, the limiting factor is the volume capacity of the laboratory equipment used, and more importantly, assuring that equal final volumes of samples and standards are maintained. At some point dilution of the sample is required to facilitate these method requirements.

The reasons for the inconsistant color and salt content from quarter to quarter are beyond the scope of this narrative.

Approved by _____ Date 1-6-95

Former No. 1 Cell Room Area Monitoring Well Analytical Results for Total and Dissolved Mercury (mg/L)

Well No.	Date Sampled	Dissolved Mercury EPA Method 7470	pH[a] EPA Method 150.1	Specific Conductance[b] (µmhos/cm) EPA Method 120.1
HLA-1A	2/4/91	0.569	9.7*	843
	2/28/91	0.436	10.2*	750*
	4/12/91	0.402	9.8*	440*
	6/11/91	0.445	9.7*	620*
	11/6/91	0.300	9.68	928
	1/20/92	0.126	9.47	856
	4/20/92	0.352	9.90	573
	7/20/92	0.279	8.91	1,290
	11/16/92	NA[c]	NA[c]	NA[c]
	2/1/93	0.338	9.32	666
	4/22/93	0.225	8.87	436
	7/22/93	0.311	8.44	772
	11/22/93	NA[c]	NA[c]	NA[c]
	1/25/94	0.180	8.61	624
	4/26/94	0.470	8.96	344
	7/20/94	NA[c]	NA[c]	NA[c]
	11/15/94	0.405	9.57	690
HLA-1B	1/30/91	0.334	11.1*	1,370
	2/27/91	0.114	11.2*	1,800*
	4/11/91	0.152	10.9*	1,600*
	6/11/91	0.106	11.1*	2,550*
	11/6/91	0.120	10.90	2,980
	1/20/92	0.0187	10.82	2,420
	4/20/92	0.0532	10.82	2,040
	7/20/92	0.0695	10.57	2,250
	11/16/92	0.022	10.24	2,410
	2/1/93	0.231	10.79	2,170
	4/22/93	0.0192	10.74	2,350
	7/22/93	0.109	10.88	2,320
	11/22/93	0.0362	10.34	2,010
	1/25/94	0.0651	10.62	2,060
	4/26/94	0.028	10.71	2,075
	7/20/94	0.039	10.48	2,050
	11/15/94	0.152	10.42	1,885
HLA-2A	2/4/91	0.0327	5.1*	794
	3/1/91	0.0314	6.7*	750*
	4/11/91	0.0446	6.6*	4,000*
	6/11/91	0.0256	7.4*	760*
	11/6/91	0.0662	6.64	4,190
	1/20/92	0.0915	6.82	1,990
	4/20/92	0.169	6.67	2,400
	7/20/92	0.190	6.99	1,610
	11/16/92	0.084	6.69	2,080
	2/1/93	0.0629	7.02	1,830
	4/22/93	0.0639	7.05	2,880
	7/22/93	0.0789	6.54	2,240
	11/22/93	0.0968	6.69	1,825
	1/25/94	0.0678	6.75	1,835
	4/26/94	0.062	6.91	1,230
	7/20/94	NA[c]	NA[c]	NA[c]
	11/15/94	0.021	7.23	5,640

Former No. 1 Cell Room Area Monitoring Well Analytical Results for Total and Dissolved Mercury (mg/L)

Well No.	Date Sampled	Dissolved Mercury EPA Method 7470	pH[a] EPA Method 150.1	Specific Conductance[b] (µmhos/cm) EPA Method 120.1
HLA-3A	2/4/91	0.0192	9.7*	4,910
	3/1/91	0.0199	8.0*	10,000*
	4/11/91	0.0127	9.4*	10,000*
	6/11/91	0.0156	9.0*	14,500*
	11/6/91	0.0054	8.81	16,&400
	1/20/92	0.0058	8.93	9,700
	4/20/92	<0.0005	9.09	4,890
	7/20/92	0.0225	8.73	NA[c]
	11/16/92	NA[c]	NA[c]	7,035
	2/1/93	0.0148	9.78	17,400
	4/22/92	0.0025	8.86	13,000
	7/22/93	0.0033	9.21	12
	11/22/93	0.0030	8.40	7,780
	1/25/94	0.0057	9.15	11,000
	4/26/94	0.002	9.72	9,150
	7/20/94	0.0044	8.85	10,800
	11/15/94	0.0152	9.05	
HLA-3B	2/4/91	0.0039	8.2*	31,500
	3/6/91	0.0052	---	37,000*
	4/12/91	0.0045	7.9*	24,000*
	6/11/91	0.0044	7.6*	38,500*
	11/6/91	0.0029	7.50	65,000
	1/20/92	0.0035	7.44	35,800
	4/20/92	<0.0005	7.33	46,800
	7/20/92	0.0029	7.15	46,600
	11/16/92	0.0027	7.22	39,800
	2/1/93	0.0020	7.49	55,200
	4/22/93	0.0022	7.34	47,000
	7/22/93	0.0017	7.49	28,500
	11/22/93	0.0015	7.24	1,830
	1/25/94	0.0016	7.29	34,100
	4/26/94	0.0012	7.30	36,000
	7/20/94	0.0014	7.02	44,800
	11/15/94	0.0026	7.03	52,000
HLA-4A	2/4/91	0.0723	6.7*	409
	2/28/91	0.0037	8.3*	360*
	4/11/91	0.0008	7.1*	850*
	6/11/91	0.0050	7.8*	980*
	11/6/91	0.0011	7.28	903
	1/20/92	<0.0005	7.04	976
	4/20/92	0.0012	7.04	542
	7/20/92	NA[c]	NA[c]	NA[c]
	11/16/82	NA[c]	NA[c]	NA[c]
	2/1/93	0.0082	7.70	648
	4/22/93	0.0009	7.58	544
	7/22/93	NA[c]	NA[c]	NA[c]
	11/22/93	NA[c]	NA[c]	NA[c]
	1/25/94	0.0006	7.47	451
	4/26/94	NA[c]	NA[c]	NA[c]
	7/20/94	NA[c]	NA[c]	NA[c]
	11/15/94	NA[c]	NA[c]	NA[c]

Former No. 1 Cell Room Area Monitoring Well Analytical Results for Total and Dissolved Mercury (mg/L)

Well No.	Date Sampled	Dissolved Mercury EPA Method 7470	pH[a] EPA Method 150.1	Specific Conductance[b] (µmhos/cm) EPA Method 120.1
HLA-6B	2/4/91	<0.0005	7.7*	18,700
	2/27/91	0.0007	7.9*	20,000*
	4/11/91	0.0015	7.9*	10,000*
	6/11/91	0.0015	--	--
	11/6/91	0.0012	7.86	11,900
	1/20/92	<0.0005	7.50	15,700
	4/20/92	0.0018	7.71	11,100
	7/20/92	0.0006	7.55	18,400
	11/16/92	<0.0005	7.35	15,500
	2/1/93	<0.0005	7.72	23,700
	4/22/93	<0.0005	7.69	18,700
	7/22/93	<0.0005	7.57	14,000
	11/22/93	<0.0005	7.64	26,300
	1/25/94	<0.0005	7.38	21,900
	4/26/94	<0.0005	7.48	22,000
	7/20/94	<0.0005	7.36	26,400
	11/15/94	<0.0005	7.36	28,700
HLA-7B	1/31/91	0.104	10.3*	2,380
	2/26/91	1.80	10.4*	380*
	4/11/91	0.498	10.2*	2,000*
	6/11/91	0.117	10.1*	4,850*
	11/6/91	0.103	10.62	5,140
	1/20/92	0.0376	6.50	18,800
	4/20/92	0.0358	10.58	3,190
	7/20/92	0.0164	10.37	3,910
	11/16/92	0.012	10.36	3,850
	2/1/93	0.0272	10.67	3,540
	4/22/93	0.0217	10.65	3,350
	7/22/93	0.0186	10.96	3,080
	11/22/93	0.0125	10.85	2,280
	1/25/94	0.0421	11.0	2,430
	4/26/94	0.0107	11.03	1,690
	7/20/94	0.0144	10.95	2,020
	11/15/94	0.0212	10.79	1,670

NA = Not analyzed.
< = below reporting limit.
[a]An asterisk indicates data collected in the field using methodology other than EPA Method 150.1.
[b]An asterisk indicates data collected in the field using methodology other than EPA Method 120.1.
[c]Well was dry during sampling.
[d]RPD = 84%
Source: HLA, 1991d for February through June 1991.
CH2M HILL, 11/91, 1/92, 4/92, 7/92, 11/92, 2/93

Groundwater Analytic Results for the Central, Process Portion of the Plant Area and the Former Surface Impoundment Area

Portion of Plant	Well No.	Sample Collection Date	Dissolved Mercury Concentration (mg/L)	pH	Specific Conductance (µmhos/cm)
Central Process Areas	CH-1	11/6/91	<0.0005	7.10	4,220
		1/20/92	<0.0005	7.20	3,790
		4/20/92	0.0006	7.71	3,120
		7/20/92	0.0010	9.29	3,780
		11/16/92	<0.0005	8.63	3,400
		2/1/93	0.0008	7.63	3,630
		4/22/93	0.0006	7.47	3,790
		7/22/93	0.0007	7.68	3,710
		11/22/93	<0.0005	7.10	4
		1/25/94	0.0005	7.77	3,850
		4/26/94	<0.0005	7.61	4,290
		7/20/94	<0.0005	7.24	4,430
		11/15/94	<0.0005	7.10	4,830
	CH-5	11/6/91	0.0020	6.38	1,640
		1/20/92	0.0027	6.43	3,190
		4/20/92	0.0033	6.72	1,400
		7/20/92	0.0018	7.06	2,190
		11/16/92	<0.0005	9.10	1,770
		2/1/93	0.0044	9.36	1,910
		4/22/93	0.0006	8.49	2,020
		7/22/93	0.0027	7.38	2,300
		11/22/93	0.0012	7.10	1,160
		1/25/94	<0.0005	6.91	700
		4/26/94	<0.0005	7.78	1,460
		7/20/94	0.0008	7.26	1,340
		11/15/94	<0.0005	6.26	4,180
	CH-6	11/6/91	<0.0005	6.17	65,200
		1/20/92	<0.0005	6.17	48,200
		4/20/92	<0.0005	6.28	68,200
		7/20/92	<0.0005	6.22	78,200
		11/16/92	<0.0005	5.90	119,000
		2/1/93	<0.0008[a]	6.45	173,000
		4/22/93	<0.0008[a]	6.10	159,000
		7/22/93	<0.0005	6.38	78,900
		11/22/93	<0.0005	6.68	220,000
		1/25/94	<0.004[a]	6.44	95,400
		4/26/94	<0.002[a]	6.9	115,000

Groundwater Analytic Results for the Central, Process Portion of the Plant Area and the Former Surface Impoundment Area

Portion of Plant	Well No.	Sample Collection Date	Dissolved Mercury Concentration (mg/L)	pH	Specific Conductance (µmhos/cm)
Central Process Areas (continued)	CH-6 (cont.)	7/20/94	<0.0008[a]	6.52	228,000
		11/15/94	<0.0005	7.10	107,000
Former Surface Impoundment Area	CH-2	11/7/91	0.0434	6.65	326
		1/20/92	<0.0005	6.80	434
		4/20/92	<0.0005	6.93	298
		7/20/92	0.0012	7.09	277
		11/16/92	0.0018	6.90	650
		2/1/93	0.0024	7.00	400
		4/22/93	0.0023	7.22	311
		7/22/93	0.0102	6.90	298
		11/22/93	0.0006	6.84	243
		1/25/94	0.0048	6.86	297
		4/26/94	0.0011	6.95	259
		7/20/94	0.0008	6.76	262
		11/15/94	0.0040	6.97	326
Former Surface Impoundment Area (continued)	CH-3	11/7/91	0.0028	7.44	3,920
		1/20/92	0.0085	7.20	3,970
		4/20/92	0.0026	7.56	1,980
		7/20/92	0.0013	7.58	2,700
		11/16/92	0.0006	7.76	2,150
		2/1/93	0.0051	7.49	3,690
		4/22/93	0.0031	7.42	5,120
		7/22/93	0.0024	7.51	1,930
		11/22/93	0.0016	7.77	1,480
		1/25/94	0.0033	7.39	1,880
		4/26/94	0.0033	7.52	1,760
		7/20/94	0.0024	7.52	1,790
		11/15/94	0.0027	7.67	1,380
Former Surface Impoundment Area (continued)	CH-4	11/7/91	0.0013	7.60	1,580
		1/21/92	0.0017	7.20	2,030
		4/22/92	0.0018	7.33	1,970
		7/20/92	0.0015	7.32	2,460
		11/16/92	0.0006	7.31	2,510
		2/1/93	0.0014	7.26	2,840
		4/22/93	0.0012	7.32	3,180
		7/22/93	0.0013	7.06	3,100
		11/22/93	0.0009	7.52	2,480

Groundwater Analytic Results for the Central, Process Portion of the Plant Area and the Former Surface Impoundment Area

Portion of Plant	Well No.	Sample Collection Date	Dissolved Mercury Concentration (mg/L)	pH	Specific Conductance (µmhos/cm)
Former Surface Impoundment Area (continued)	CH-4 (cont.)	1/25/94	0.0010	7.22	2,410
		4/26/94	0.0008	7.30	2,350
		7/20/94	0.0007	7.29	2,260
		11/15/94	0.0009	7.37	2,230

Note: Mercury analyzed using Method EPA 7470; pH analyzed using Method 150.1; and specific conductance analyzed using Method 120.1. CH2M HILL.
< = below reporting limit
a = method reporting limit is elevated because sample required diluting.

West Area Monitoring Well Analytical Results

Well No.	Sample Collection Date	Dissolved Mercury Concentration (mg/L)	pH	Specific Conductance (µmhos/cm)
MW-1	8/5/87	<0.0002	NA*	NA*
	9/3/87	<0.0005	NA*	NA*
	11/4/87	<0.0002	NA*	NA*
	1/12/88	<0.0005	NA*	NA*
	3/7/88	<0.0008	NA*	NA*
	5/9/88	<0.0002	NA*	NA*
	7/7/88	<0.001	NA*	NA*
	8/5/88	<0.0001	NA*	NA*
	12/30/88	<0.0002	NA*	NA*
	3/22/89	<0.0005	NA*	NA*
	6/23/89	<0.0005	NA*	NA*
	8/23/89	<0.0005	NA*	NA*
	10/9/89	<0.0008	NA*	NA*
	11/1/89	<0.0005	NA*	NA*
	12/28/89	<0.0005	NA*	NA*
	4/2/90	<0.0005	NA*	NA*
	6/29/90	<0.0005	NA*	NA*
	8/24/90	<0.0005	NA*	NA*
	10/04/90	<0.0005	NA*	NA*
	1/9/91	<0.0005	NA*	NA*
	10/4/91	<0.0005	6.74	741
	11/5/91	<0.0005	6.86	640
	1/20/92	<0.0005	6.95	1,860
	4/20/92	<0.0005	7.15	1,540
	7/20/92	<0.0005	6.88	1,190
	11/16/92	<0.0005	7.03	798
	2/1/93	<0.0005	7.02	972
	4/22/93	<0.0005	7.05	759
	7/22/93	<0.0005	6.87	956
	11/22/93	<0.0005	6.79	1,190
	1/25/94	<0.0005	7.13	493
	4/26/94	<0.0005	7.02	1,030
	7/20/94	<0.0005	6.82	1,000
	11/15/94	<0.0005	6.75	588

NA* = Laboratory data not available for pH and specific conductance.

West Area Monitoring Well Analytical Results

Well No.	Sample Collection Date	Dissolved Mercury Concentration (mg/L)	pH	Specific Conductance (µmhos/cm)
MW-2	8/5/87	<0.0002	NA*	NA*
	9/3/87	<0.0005	NA*	NA*
	11/4/87	<0.0002	NA*	NA*
	1/12/88	0.002	NA*	NA*
	3/7/88	<0.0008	NA*	NA*
	5/9/88	<0.0008	NA*	NA*
	7/7/88	<0.001	NA*	NA*
	8/5/88	<0.0001	NA*	NA*
	12/30/88	<0.0002	NA*	NA*
	3/22/89	<0.0005	NA*	NA*
	6/23/89	<0.0005	NA*	NA*
	8/23/89	<0.0005	NA*	NA*
	10/9/89	<0.0008	NA*	NA*
	11/1/89	<0.0005	NA*	NA*
	12/28/89	<0.0005	NA*	NA*
	4/2/90	<0.0005	NA*	NA*
	6/29/90	<0.0005	NA*	NA*
	8/24/90	<0.0005	NA*	NA*
	10/4/90	<0.0005	NA*	NA*
	1/9/91	<0.0005	NA*	NA*
	10/4/91	<0.0005	7.12	19,800
	11/5/91	<0.0005	6.73	24,200
	1/20/92	<0.0005	6.50	18,000
	4/20/92	<0.0005	6.68	12,000
	7/20/92	<0.0005	6.75	21,600
	11/16/92	<0.0005	7.45	13,600
	2/1/93	<0.0005	7.09	21,800
	4/22/93	<0.0005	6.96	15
	7/22/93	<0.0005	6.63	14,400
	11/22/93	<0.0005	6.90	10
	1/25/94	<0.0005	6.87	9,680
	4/26/94	<0.0005	7.08	8,010
	7/20/94	<0.0005	7.32	10,500
	11/15/94	0.0009	7.39	1,820

NA* = Laboratoroy data not available for pH and specific conductance.

West Area Monitoring Well Analytical Results

Well No.	Sample Collection Date	Dissolved Mercury Concentration (mg/L)	pH	Specific Conductance (µmhos/cm)
MW-3	8/5/87	0.004	NA*	NA*
	9/3/87	<0.0005	NA*	NA*
	11/4/87	<0.0002	NA*	NA*
	1/12/88	0.003	NA*	NA*
	3/7/88	<0.0008	NA*	NA*
	5/9/88	<0.0008	NA*	NA*
	7/7/88	<0.001	NA*	NA*
	8/5/88	<0.0001	NA*	NA*
	12/30/88	<0.0015	NA*	NA*
	3/22/89	<0.0005	NA*	NA*
	6/23/89	<0.0005	NA*	NA*
	8/23/89	<0.0005	NA*	NA*
	10/9/89	<0.0008	NA*	NA*
	11/1/89	<0.0005	NA*	NA*
	12/28/89	<0.001	NA*	NA*
	4/2/90	<0.0005	NA*	NA*
	6/29/90	<0.0005	NA*	NA*
	8/24/90	<0.004	NA*	NA*
	10/04/90	<0.0072	NA*	NA*
	1/9/91	<0.0005	NA*	NA*
	10/4/91	<0.0005	7.92	443,000
	11/5/91	<0.0005	7.53	321,000
	1/20/92	<0.0005	6.76	11,000
	4/20/92	<0.0005	8.33	170,000
	7/20/92	<0.0005	7.73	127,000
	11/16/92	<0.0005	7.69	117,00
	2/1/93	<0.0005	7.09	109,000
	4/22/93	<0.0005	7.30	9,840
	7/22/93	<0.0005	7.25	67,900
	11/22/93	<0.0005	7.53	30
	1/25/94	<0.004[a]	6.87	9,720
	4/26/94	<0.002[a]	6.75	9,180
	7/20/94	<0.0008[a]	7.63	288,000
	11/15/94	<0.0005	7.34	1,060

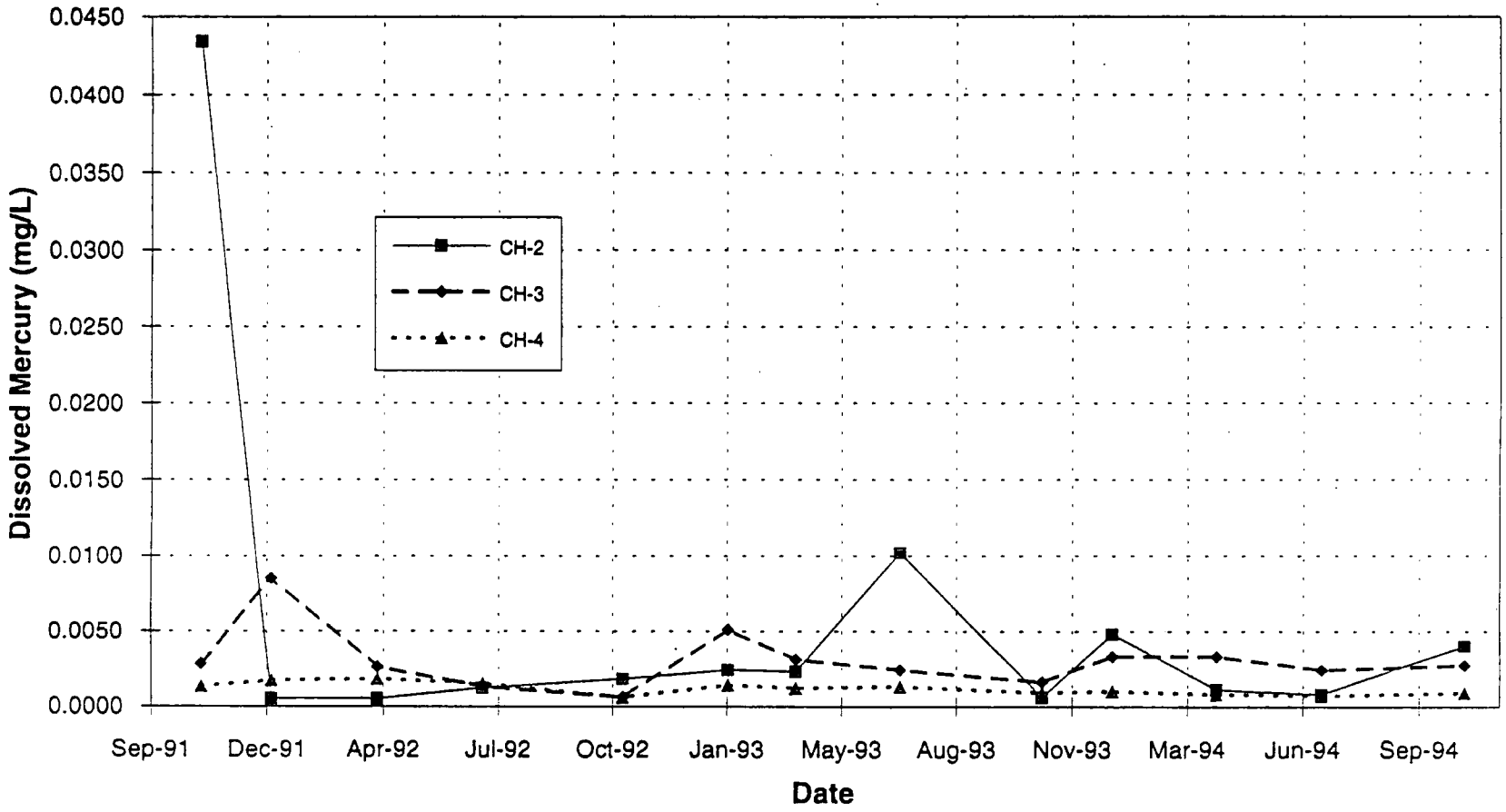
NA* = Laboratoroy data not available for pH and specific conductance.
[a]MRL was elevated because sample required diluting.

West Area Monitoring Well Analytical Results

Well No.	Sample Collection Date	Dissolved Mercury Concentration (mg/L)	pH	Specific Conductance (µmhos/cm)
MW-4	8/5/87	0.039	NA*	NA*
	9/3/87	0.033	NA*	NA*
	11/4/87	0.031	NA*	NA*
	1/12/88	0.012	NA*	NA*
	3/7/88	0.012	NA*	NA*
	5/9/88	0.0026	NA*	NA*
	7/7/88	0.005	NA*	NA*
	8/5/88	0.021	NA*	NA*
	12/30/88	0.0028	NA*	NA*
	3/22/89	0.0069	NA*	NA*
	6/23/89	0.0064	NA*	NA*
	8/23/89	0.0042	NA*	NA*
	10/9/89	0.015	NA*	NA*
	11/1/89	0.017	NA*	NA*
	12/28/89	0.0061	NA*	NA*
	4/2/90	0.0007	NA*	NA*
	6/29/90	0.0017	NA*	NA*
	8/24/90	0.0028	NA*	NA*
	10/04/90	0.0010	NA*	NA*
	1/9/91	0.0008	NA*	NA*
	10/4/91	<0.0005	10.32	6,190
	11/5/91	0.0007	10.47	7,360
	1/20/92	<0.0005	9.38	1,230
	4/20/92	<0.0005	9.53	2,120
	7/20/92	<0.0005	9.55	6,370
	11/16/92	<0.0005	9.03	3,170
	2/1/93	<0.0005	10.25	6,090
	4/22/93	<0.0005	7.68	469
	7/22/93	<0.0005	9.86	5,520
	11/22/93	<0.0005	7.91	1,460
	1/25/94	<0.0005	7.86	704
	4/26/94	<0.0005	9.52	2,130
	7/20/94	<0.0005	8.84	1,300
	11/15/94	<0.0005	9.46	1,980

NA* = Laboratoroy data not available for pH and specific conductance.
[a] = Method reporting limit is elevated because sample required diluting.

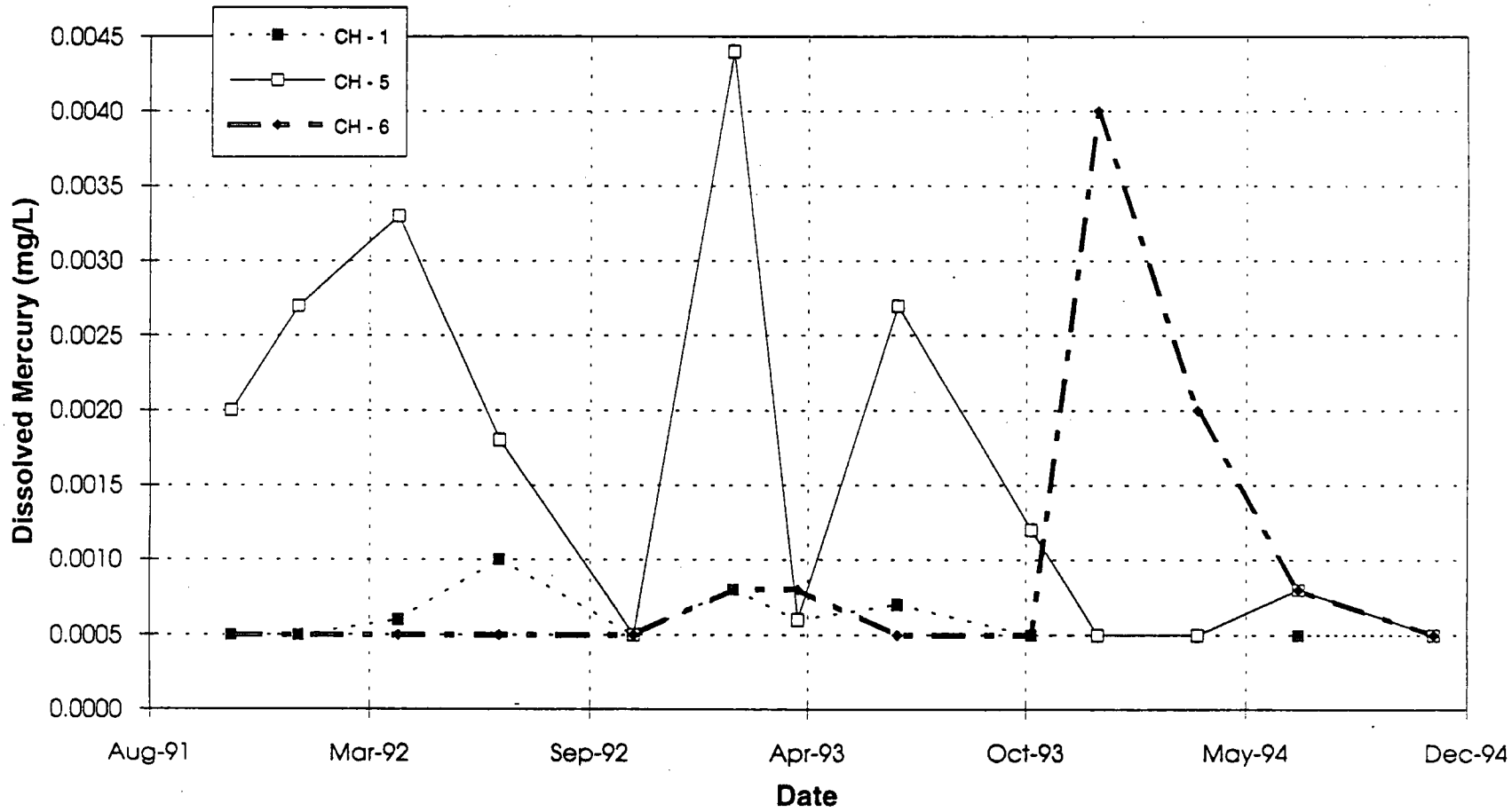
Dissolved Mercury Concentrations
Monitoring Wells CH-2, CH-3, CH-4
Weyerhaeuser Chlor-Alkali Plant
Longview, Washington



C:\Weyer\CH794.XLS Chart 5

Printed 12/22/94

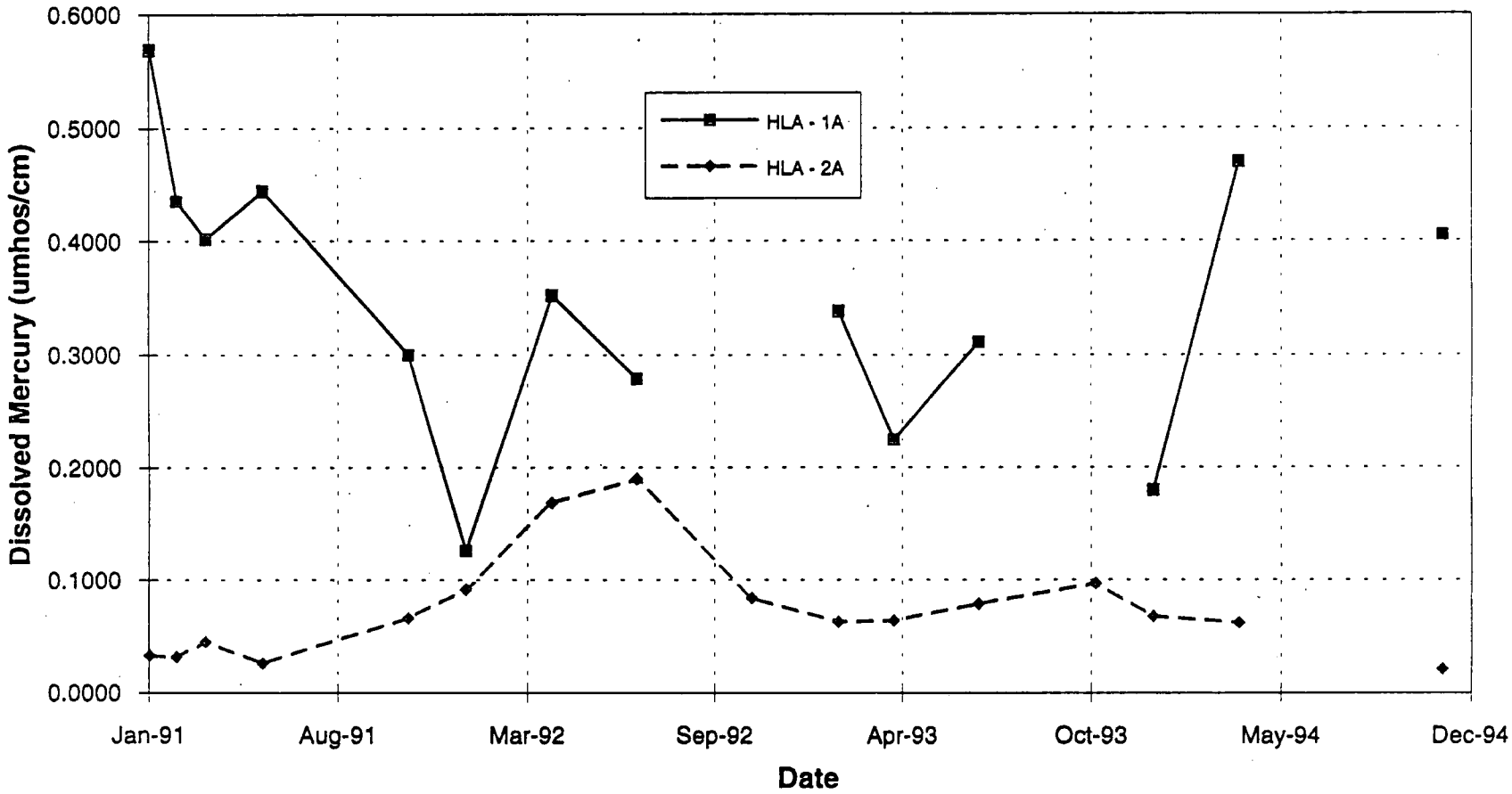
Dissolved Mercury Concentrations
Monitoring Wells CH-1, CH-5, CH-6
Weyerhaeuser Chlor-Alkali Plant
Longview, Washington



C:\Weyer\CH794.XLS Chart 4

Printed 12/22/94

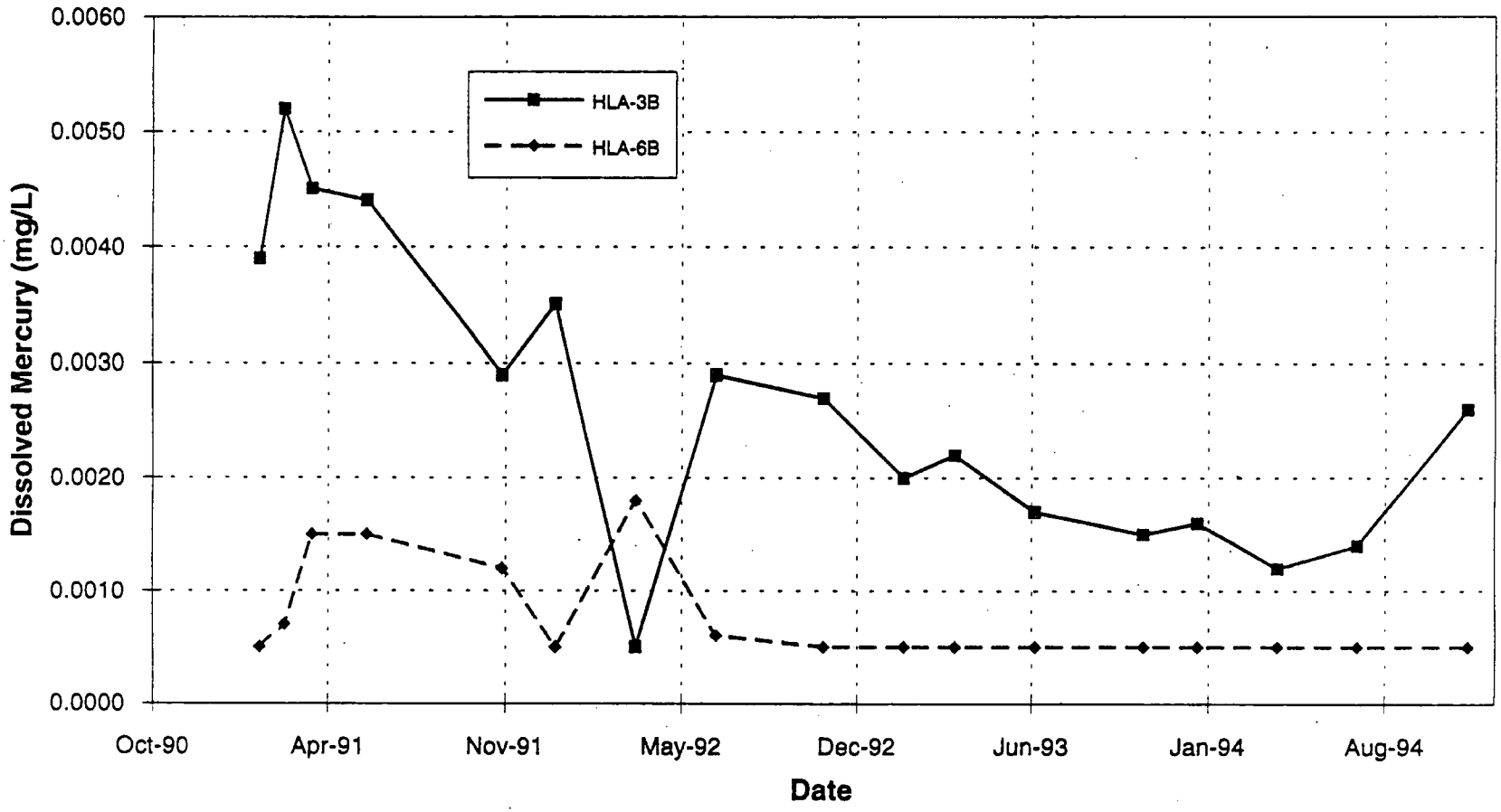
Dissolved Mercury Concentrations
Monitoring Wells HLA-1A & HLA-2A
Weyerhaeuser Chlor-Alkali Plant
Longview, Washington



C:\Weyer\HLA794.XLS Chart 1

Printed 12/22/94

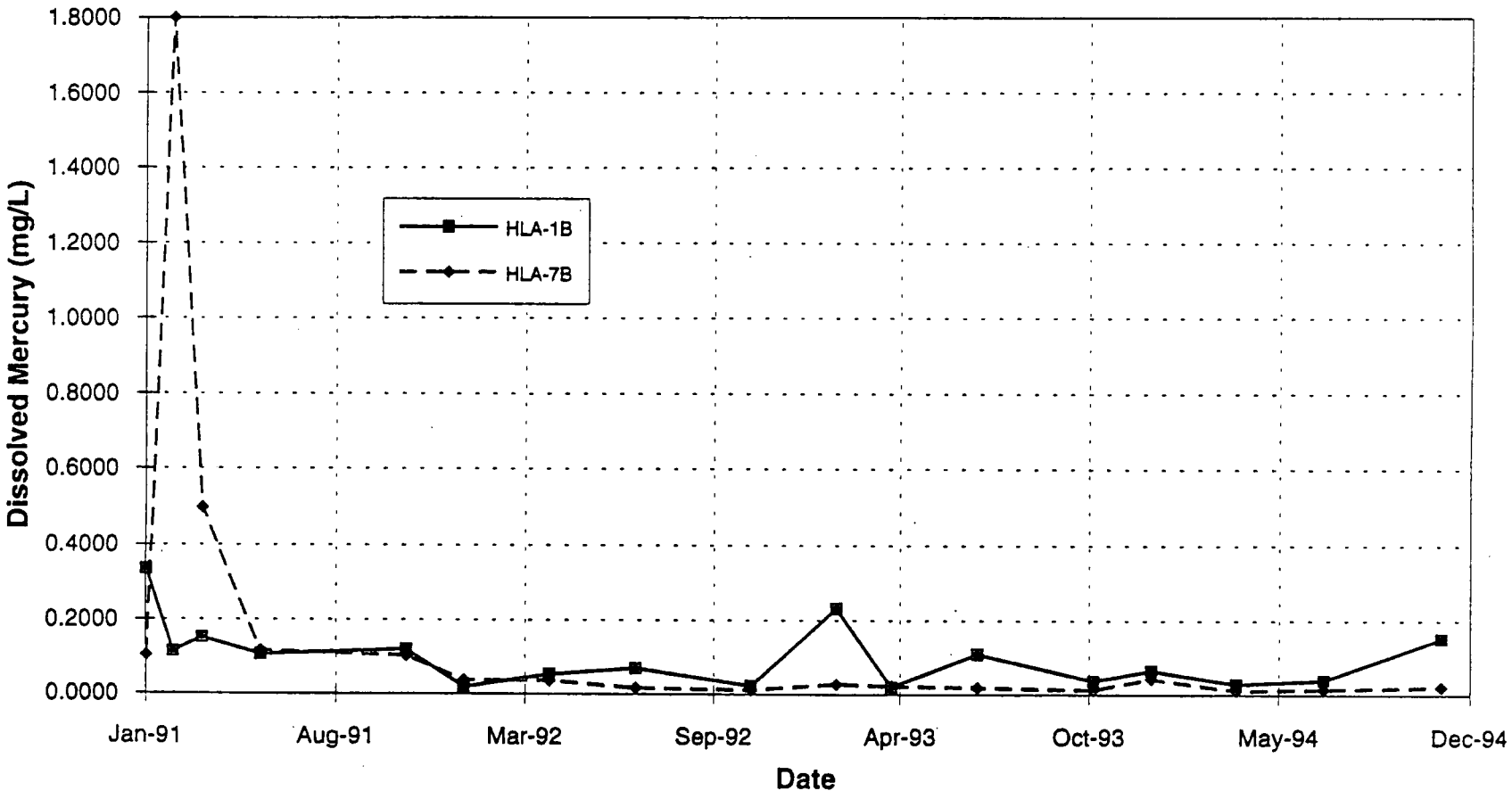
Dissolved Mercury Concentrations
Monitoring Wells HLA-3B & HLA-6B
Weyerhaeuser Chlor-Alkali Plant
Longview, Washington



C:\Weyer\HLA794.XLS Chart 5

Printed 12/22/94

Dissolved Mercury Concentrations
Monitoring Wells HLA-1B & HLA-7B
Weyerhaeuser Chlor-Alkali Plant
Longview, Washington



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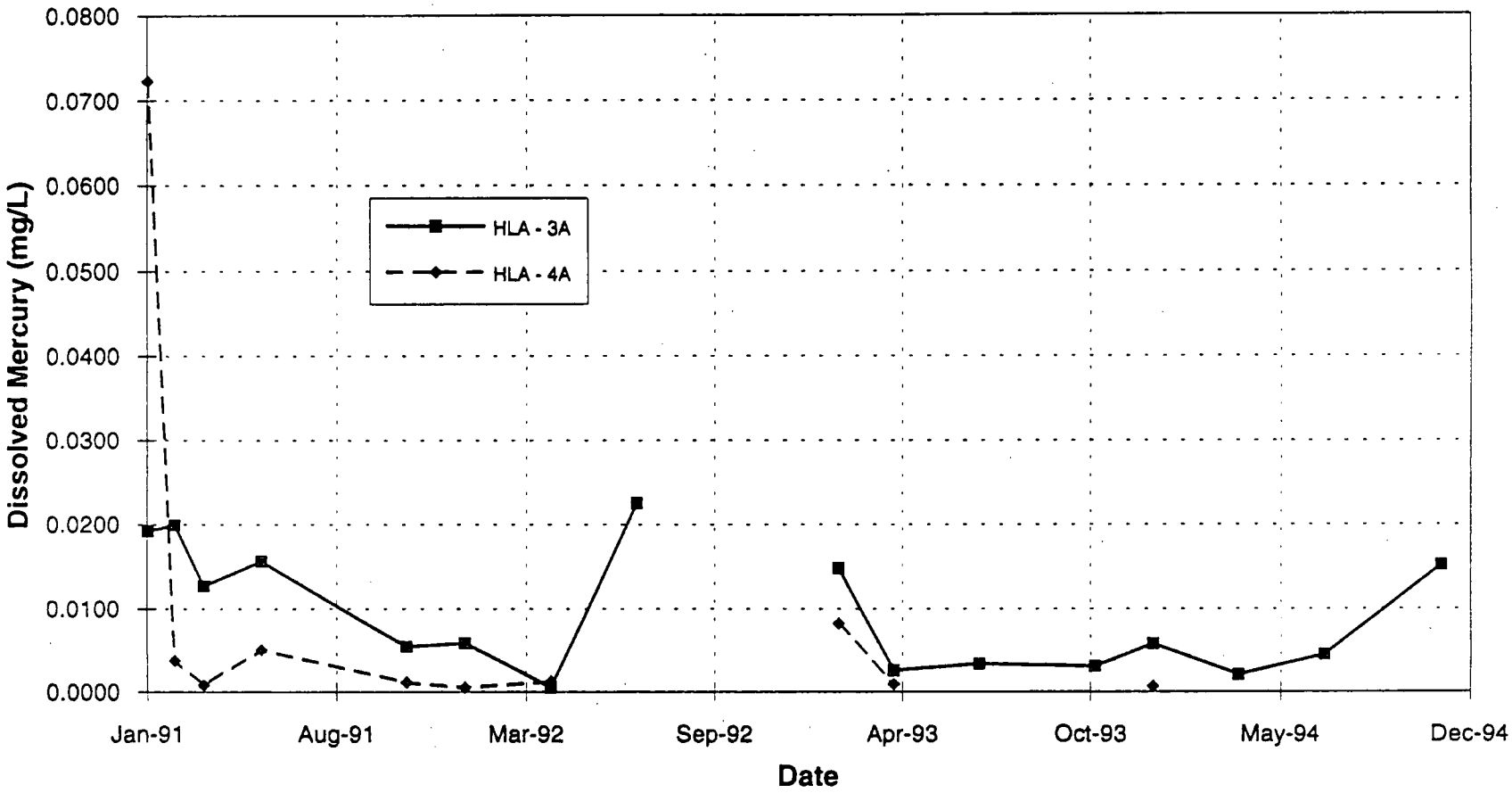
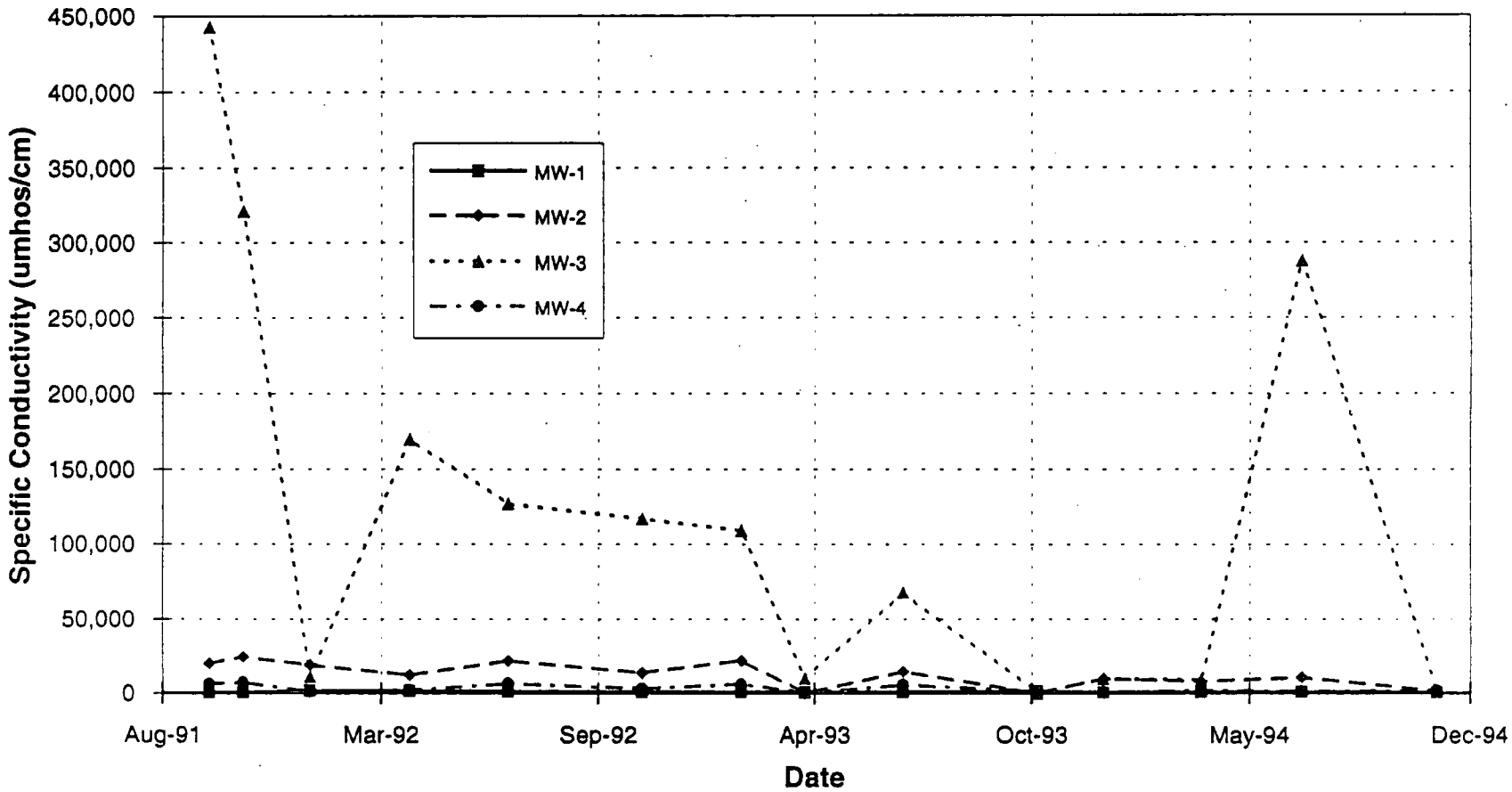
Printed 12/22/94

Dissolved Mercury Concentrations
Monitoring Wells HLA-3A & HLA-4A
Weyerhaeuser Chlor-Alkali Plant
Longview, Washington



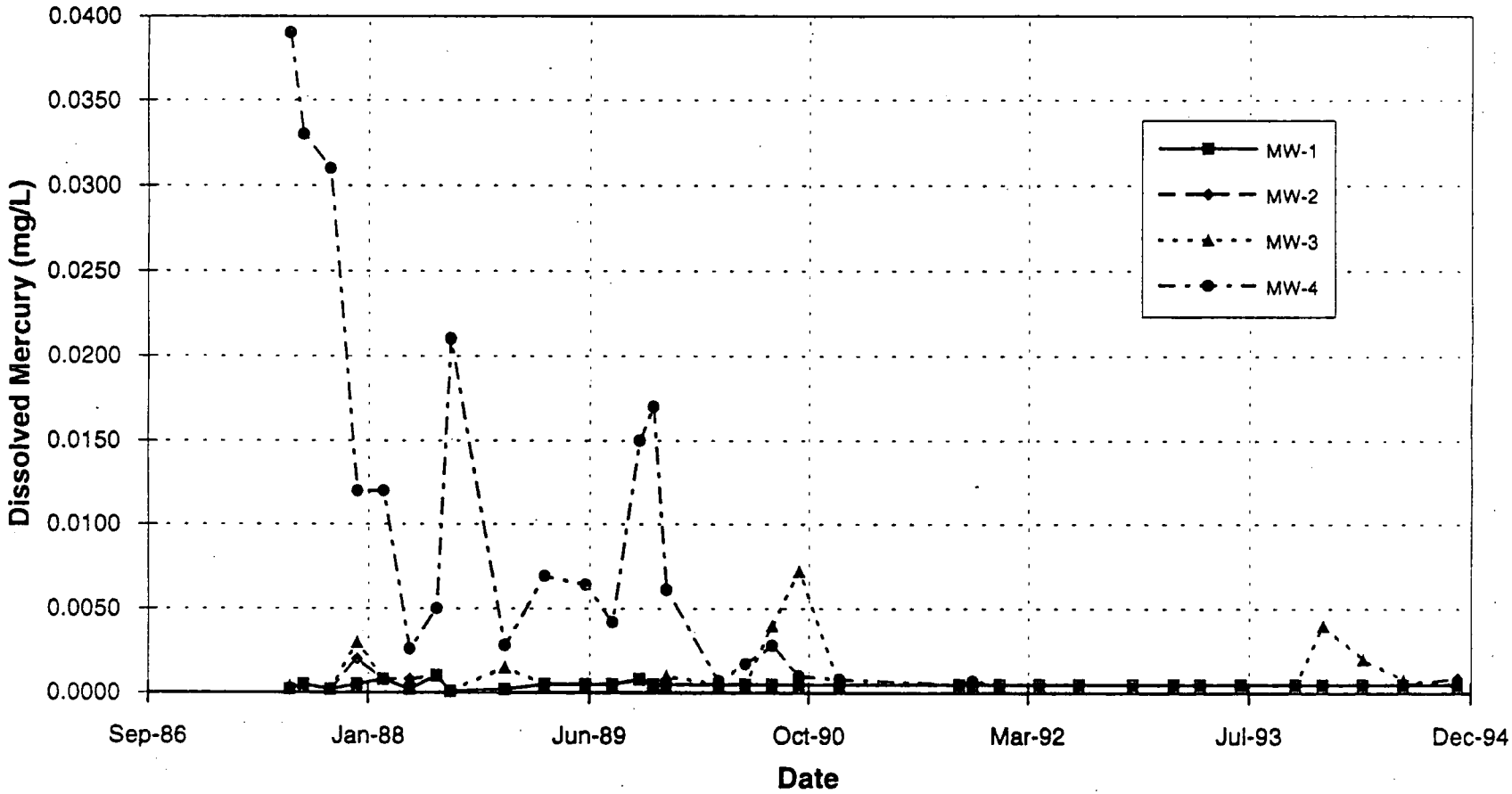
Specific Conductivity
Monitoring Wells MW-1, MW-2, MW-3, & MW-4
Weyerhaeuser Chlor-Alkali Plant
Longview, Washington



C:\Weyer\MW794.XLS Chart 7

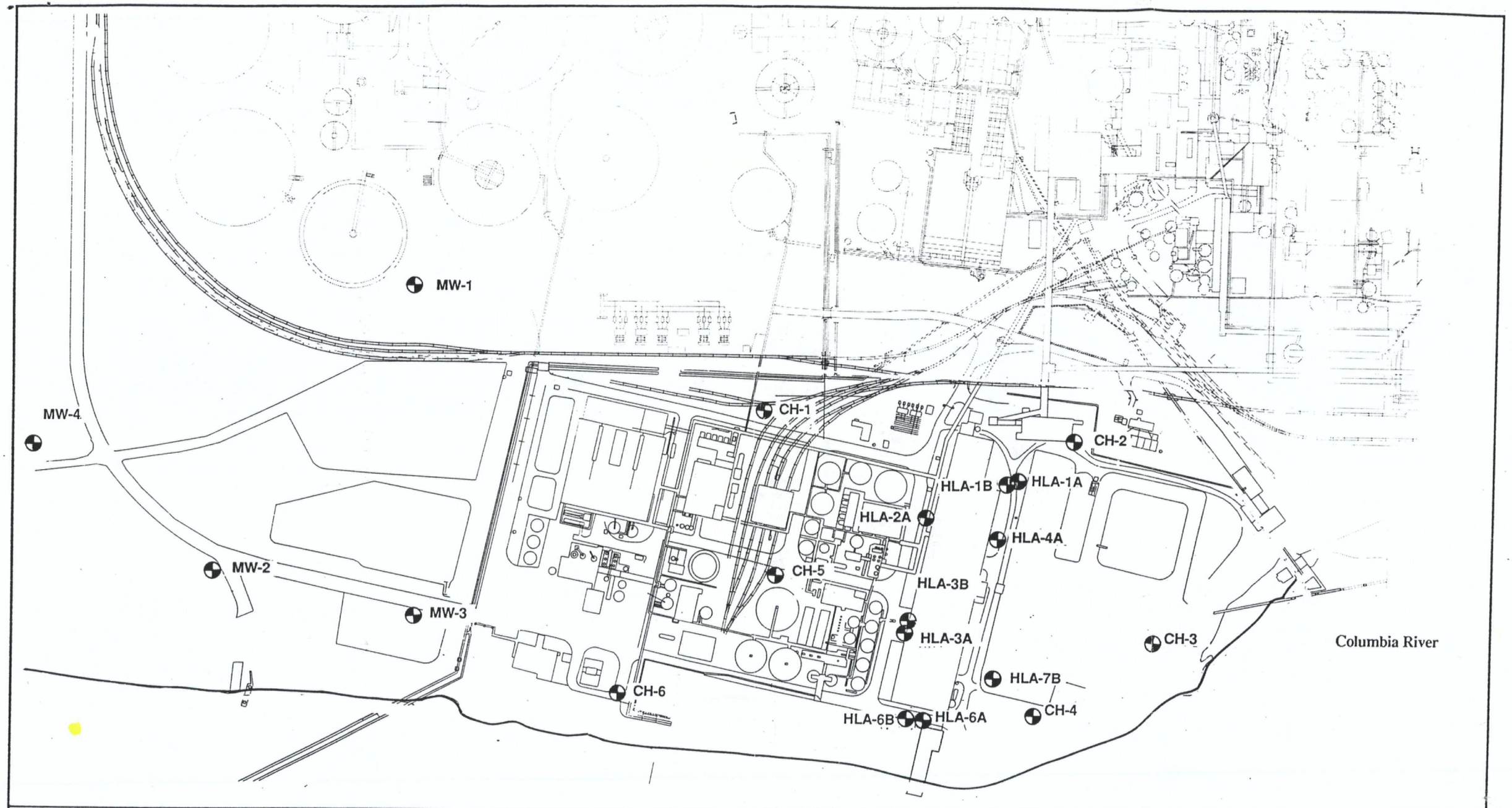
Printed 12/22/94

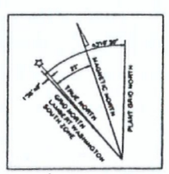
Dissolved Mercury Concentrations
Monitoring Wells MW-1, MW-2, MW-3, & MW-4
Weyerhaeuser Chlor-Alkali Plant
Longview, Washington



C:\Weyer\MW794.XLS Chart 6

Printed 12/22/94





0 100 200 Feet

LEGEND

Monitoring well locations

CH-1 Monitoring well identification

Note: Well locations are approximate

Monitoring Well Locations

WEYERHAEUSER CHLOR-ALKALI PLANT
LONGVIEW, WASHINGTON

CH2M HILL