
TRANSMITTAL OF FIRST QUARTER 1995
GROUNDWATER MONITORING DATA
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

 **DAMES & MOORE**

SAC146.01

Project No. 00173-080-044
MAY 1995



8801 FOLSOM BOULEVARD, SUITE 200, SACRAMENTO, CALIFORNIA 95826
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May 1, 1995

Mr. James L. Tjosvold, Acting Branch Chief
Region 1, Department of Toxic Substances Control
California Environmental Protection Agency
10151 Croydon Way, Suite 3
Sacramento, CA 95827

Attention: Mr. Jose Salcedo
Project Manager

Re: Transmittal of First Quarter 1995
Groundwater Monitoring Data
Union Pacific Railroad Yard
Sacramento, California
Project No. 00173-080-044

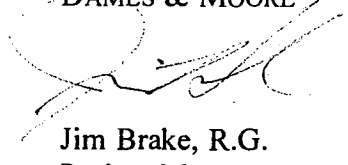
Dear Mr. Salcedo:

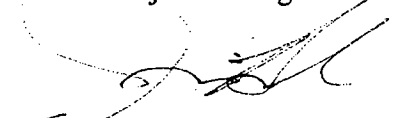
At the request of Union Pacific Railroad Company (UPRR), Dames & Moore is forwarding the enclosed Transmittal of First Quarter 1995 Groundwater Monitoring Data for the Union Pacific Railroad Yard, Sacramento, California.

If you have any questions or require further information, please telephone us at (916) 387-8800.

Sincerely,

DAMES & MOORE


Jim Brake, R.G.
Project Manager


For Tony Mindling
Project Hydrogeologist

Enclosure

cc: Distribution List

SAC146.01

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SACRAMENTO, CALIFORNIA
PROJECT NUMBER 00173-080-044**

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SACRAMENTO, CALIFORNIA
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TRANSMITTAL OF FIRST QUARTER 1995
GROUNDWATER MONITORING DATA
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

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GROUNDWATER ELEVATION DATA, 1988-1995
(Elevation in feet mean sea level datum)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

DATE	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-11	MW-12	MW-13
02/19/88	0.00	-0.85	-0.61	-3.50	-3.37	-3.64	-5.73	-5.40	----	----	----
03/02/88	-0.02	-0.92	-0.62	-3.49	-3.44	-3.70	-4.83	-4.21	----	----	----
04/14-15-16/88	0.04	-1.22	-1.26	-3.71	-3.70	-3.96	-5.07	-4.47	----	----	----
07/15/88	-0.32	-2.24	-2.39	-4.50	-4.62	-4.85	-5.86	-5.24	----	----	----
08/19/88	-0.53	*	-2.97	-4.94	-5.05	-5.28	-6.25	-5.64	----	----	----
01/06/89	-1.92	*	-2.50	-5.42	-5.44	-5.68	-6.76	-6.16	----	----	----
10/09/89	-1.52	-2.83	-2.68	-5.43	-5.46	-5.72	-6.85	-6.21	-4.99	-5.63	-5.48
02/21/90	-1.29	-1.22	-0.24	-4.12	-4.20	-4.50	-5.83	-5.10	-3.48	-4.47	-4.21
06/15/90	-0.86	-1.99	-2.01	-4.66	-4.61	-4.90	-6.07	-5.44	-4.20	-4.93	-4.73
09/20/90	-1.89	-3.76	-4.05	-6.14	-6.15	-6.40	-7.47	-6.85	-5.74	-6.38	-6.18
02/05/91	-3.18	-3.85	-3.81	-6.60	-6.57	-6.84	-7.94	-7.37	-6.04	-6.82	-6.69
04/22/91	-2.05	-2.37	-2.22	-5.12	-5.07	-5.37	-6.59	-5.93	-4.64	-5.38	-5.18
07/30/91	-2.40	-3.98	-4.14	-6.43	-6.47	-6.73	-7.79	-7.17	-6.01	-6.65	-6.47
12/27/91	-3.82	-5.04	-5.20	-7.47	-7.41	-7.67	-8.72	-8.15	-7.05	-7.66	-7.53
01/22/92	-3.84	-4.72	-4.64	-7.28	-7.18	-7.46	-8.54	-7.98	-6.83	-7.49	-7.33
05/08/92	-2.37	-3.05	-2.97	-5.70	-5.46	-5.85	-7.04	-6.44	-5.41	-5.96	-5.76
09/29/92	-3.18	-4.95	-5.22	-7.21	-7.24	-7.49	-8.54	-7.92	-6.82	-7.42	-7.27
11/02/92	-3.67	-5.22	-5.26	-7.50	-7.49	-7.72	-8.80	-8.18	-7.11	-7.69	-7.58
01/12-01/13/93	-3.30	-3.29	-1.74	-7.11	-6.26	-6.54	-7.92	-7.12	-5.51	-6.45	-6.22
04/07/93	0.35	0.33	0.83	-2.71	-2.57	-2.92	-4.37	-3.61	-2.14	-3.03	-2.77
06/28/93	0.11	-1.27	-1.33	**	-3.99	-4.29	-5.48	-4.96	-3.72	-4.35	-4.77
09/20/93	--	-2.47	--	**	--	--	-6.27	--	-4.37	-5.00	-4.87
01/04/94	-1.48	-2.67	-2.56	**	--	-5.45	-6.58	-6.00	-4.80	-5.47	-5.35
04/11/94	-1.35	-2.31	-2.37	**	-5.00	-5.31	-6.39	-5.92	-4.79	-5.39	-5.83
06/29/94	-1.28	-2.78	-2.97	**	-5.35	-5.65	-6.69	-6.20	-5.11	-5.68	-6.09
10/25/94	-2.11	-3.81	-4.02	**	-6.21	-6.46	-7.50	-6.91	-5.82	-6.41	-6.29
01/12/95	--	-0.57	--	**	-4.57	-4.85	-6.24	-5.36	-2.75	-4.16	-4.35

TABLE 1
GROUNDWATER ELEVATION DATA, 1988-1995
(Elevation in feet mean sea level datum)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

DATE	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24
10/09/89	-5.55	-5.56	-5.56	-6.03	-6.09	-6.77	-6.85	-6.43	-6.41	-6.10	-6.10
02/21/90	-4.31	-4.29	-4.29	-4.82	-4.95	-5.82	-5.91	-5.35	-5.33	-4.96	-4.94
06/15/90	-4.80	-4.79	-4.79	-5.28	-5.36	-6.05	-6.12	-5.64	-5.62	-5.30	-5.27
09/20/90	-6.26	-6.26	-6.25	-6.69	-6.76	-7.37	-7.45	-7.07	-7.04	-6.77	-6.75
02/05/91	-6.76	-6.71	-6.71	-7.23	-7.29	-7.97	-8.03	-7.55	-7.53	-7.22	-7.18
04/22/91	-5.27	-5.22	-5.23	-5.77	-5.85	-6.57	-6.65	-6.13	-6.13	-5.80	-5.77
07/30/91	-6.53	-6.57	-6.55	-7.00	-7.06	-7.70	-7.76	-7.38	-7.35	-7.09	-7.07
12/27/91	-7.60	-7.57	-7.57	-8.02	-8.08	-8.69	-8.76	-8.33	-8.32	-8.04	-8.02
01/22/92	-7.41	-7.37	-7.36	-7.86	-7.92	-8.56	-8.64	-8.16	-8.15	-7.82	-7.82
05/08/92	-5.84	-5.79	-5.80	-6.32	-6.38	-7.08	-7.15	-6.64	-6.61	-6.25	-6.23
09/29/92	-7.32	-7.36	-7.36	-7.78	-7.85	-8.47	-8.52	-8.14	-8.12	-7.86	-7.85
11/02/92	-7.63	-7.26	-7.26	-7.58	-8.13	-8.71	-8.82	-8.38	-8.40	-8.10	-8.08
01/12 - 01/13/93	-6.28	-6.26	-6.27	-6.79	-6.94	-7.66	-7.97	-7.42	-7.43	-6.99	-6.92
04/07/93	-2.86	-2.83	-2.83	-3.45	-3.57	-4.42	-4.48	-3.85	-3.84	-3.39	-3.37
06/28/93	-4.70	-4.42	-4.49	-4.91	-4.97	-5.66	-5.70	-5.10	-5.10	-4.70	-4.67
09/20/93	-4.91	--	-4.94	--	-5.57	--	-6.22	--	--	--	--
01/04/94	-5.40	-5.38	-5.38	-5.89	-5.97	-6.61	-6.66	-6.19	-6.18	-5.85	-5.83
04/11/94	-5.75	-5.45	-5.51	-5.91	-5.98	-6.60	-6.61	-6.07	-6.07	-5.69	-5.67
06/29/94	-6.03	-5.75	-5.80	-6.17	-6.24	-6.82	-6.85	-6.35	-6.35	-6.02	-6.00
10/25/94	--	-6.34	-6.35	-6.77	-6.85	-7.47	-7.48	-7.12	-7.11	-6.83	-6.84
01/12/95	-4.38	-4.36	-4.37	-4.66	-4.98	-6.26	-6.33	-5.72	-5.71	-5.37	-5.34

TABLE 1
GROUNDWATER ELEVATION DATA, 1988-1995
(Elevation in feet mean sea level datum)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

DATE	MW-25	MW-26	MW-27	MW-28	MW-29	MW-30	MW-31	MW-32	MW-33	MW-34	MW-35
10/09/89	-7.47	-7.46	-7.46	---	---	---	---	---	---	---	---
02/21/90	-6.55	-6.55	-6.54	-5.35	-5.01	-5.07	---	---	---	---	---
06/15/90	-6.70	-6.70	-6.69	-5.66	-5.34	-5.37	-5.51	-6.04	-4.21	---	---
09/20/90	-8.05	-8.05	-8.04	-7.04	-6.73	-6.76	-6.88	-7.34	-5.75	---	---
02/05/91	-8.55	-8.55	-8.53	-7.59	-7.31	-7.40	-7.48	-7.93	-7.04	---	---
04/22/91	-7.26	-7.27	-7.25	-6.16	-5.86	-5.90	-6.02	-6.57	-4.63	---	---
07/30/91	-8.39	-8.38	-8.37	-7.32	-7.04	-7.07	-7.19	-7.66	-6.01	-8.34	-8.30
12/27/91	-9.29	-9.30	-9.29	-8.33	-8.10	-8.13	-8.26	-8.70	-7.06	-9.38	-9.39
01/22/92	-9.13	-9.14	-9.13	-8.15	-7.91	-7.94	-8.07	-8.54	-6.84	-9.28	-9.29
05/08/92	-7.69	-7.69	-7.68	-6.72	-6.41	-6.45	-6.58	-7.09	-5.23	-8.38	-7.89
09/29/92	-9.09	-9.09	-9.08	-8.08	-7.83	-7.86	-7.95	-8.39	-6.82	-9.11	-9.11
11/02/92	-9.34	-9.33	-9.33	-8.37	-8.10	-8.13	-8.27	-8.74	-7.13	-9.37	-9.40
01/12 - 01/13/93	-8.53	-8.54	-8.55	-7.24	-6.92	-6.93	-7.15	-7.83	-5.46	-8.76	-8.78
04/07/93	-5.11	-5.12	-5.14	-4.46	-3.53	-3.73	-3.79	-4.41	-2.17	-5.38	-5.38
06/28/93	-5.95	-5.97	-5.97	-4.90	-4.70	-4.96	-5.21	--	-3.74	-6.22	-6.17
09/20/93	--	-6.73	--	-6.02	-5.88	-5.90	-6.13	--	-4.38	-7.03	-6.98
01/04/94	-7.12	-7.13	-7.13	-6.18	-5.96	-5.96	-6.18	--	-4.82	-7.38	-7.38
04/11/94	-6.88	-6.89	-6.89	--	--	--	--	--	-4.81	--	--
06/29/94	-7.14	-7.16	-7.15	-6.77	-6.67	-6.59	--	--	-5.12	-7.32	-7.33
10/25/94	-7.99	-8.00	-7.99	-7.03	-6.79	-6.81	-6.96	**	-5.83	-8.03	-8.06
01/12/95	-6.94	-6.95	-6.95	-5.11	-4.94	-4.94	-5.25	**	-2.67	-7.32	-7.19

TABLE 1
GROUNDWATER ELEVATION DATA, 1988-1995
(Elevation in feet mean sea level datum)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

DATE	MW-36	MW-37	MW-38	MW-39	MW-40	MW-41	MW-42	MW-43	MW-44	MW-45	MW-46	MW-47
07/30/91	----	----	----	-13.73	-7.83	-6.66	-5.07	-4.24	----	----	----	----
12/27/91	-10.71	-10.91	-13.05	-14.67	-8.82	-7.66	-6.13	-5.30	----	----	----	----
01/22/92	-10.69	-10.85	-13.02	-14.64	-8.65	-7.49	-5.88	-4.99	----	----	----	----
05/08/92	-9.46	-9.66	-11.97	-13.69	-7.24	-5.98	-4.25	-3.32	----	----	----	----
09/29/92	-10.28	-10.61	-12.84	-14.51	-8.50	-7.41	-5.98	-5.20	----	----	----	----
11/02/92	-10.63	-10.88	-13.07	-14.67	-8.84	-7.70	-6.08	-5.15	-13.13	----	----	----
01/12 - 01/13/93	-10.34	-10.43	-12.74	-14.50	-9.88	-6.46	-4.46	-3.59	-12.77	----	----	----
04/07/93	-7.19	-7.43	-10.16	-12.29	--	-3.03	-1.05	0.01	-10.26	----	----	----
06/28/93	-7.42	-7.65	-9.89	-11.60	-5.53	-4.31	-2.48	-1.57	-10.01	----	----	----
09/20/93	-8.09	-8.46	-10.50	-12.26	-6.60	-4.96	-3.46	-2.72	-10.69	----	----	----
01/04/94	-8.67	-8.85	-10.96	-12.61	-6.67	-5.46	--	-2.94	-11.02	----	----	----
04/11/94	--	--	--	--	--	-5.35	-3.57	-2.61	--	----	----	----
06/29/94	-8.73	-8.30	-10.77	-12.16	-6.87	-5.64	-3.96	-3.05	-10.62	-13.67	-12.37	-10.17
10/25/94	-9.23	-9.52	-11.60	-13.18	-7.49	-6.40	-4.97	-4.01	-11.64	-14.79	-13.38	-10.58
01/12/95	-8.70	-8.64	-10.50	-12.69	-6.06	-4.13	-1.42	-0.94	-10.76	-14.23	-12.80	-9.52

TABLE 1
GROUNDWATER ELEVATION DATA, 1988-1995
(Elevation in feet mean sea level datum)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

DATE	MW-48	EW-1	P-1	P-2A	P-2B	P-3	P-4	P-5	P-6	P-7
06/29/94	-2.23	---	-7.20	-7.20	7.18	-6.87	-6.54	-10.72	-10.85	---
10/25/94	-3.34	-8.55	-7.20	-7.06	-7.15	-7.52	-7.30	-11.67	-11.75	-11.39
01/12/95	--	--	-6.32	-6.30	-6.27	-6.07	-5.81	-10.60	-10.90	-10.31

DATE	P-8	P-9	P-10	P-11	SVE-4	SVE-5
06/29/94	---	---	-2.52	-2.50	---	---
10/25/94	-11.48	-11.73	-3.59	-3.58	-4.59	-6.09
01/12/95	-10.56	-10.68	--	-0.64	-1.17	-3.78

* Lock on well cover was vandalized, rendering well inaccessible.

--- Prior to well installation.

-- Not measured

** Extraction well for groundwater treatment system. Unable to measure water level in this well.

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-01	03/03/88	4.0	--	--	--
	04/14/88	5.0	30	--	--
	09/20/89	--	--	--	--
	05/10/90	9.0	--	--	--
	09/05/90	--	--	--	--
	01/21/91	--	--	--	--
	04/22/91	--	5.0	130	--
	01/29/92	--	8.0	--	--
	07/09/93	NA	NA	--	NA
	01/17/94	NA	NA	NA	--
MW-02	03/03/88	3.0	--	--	--
	04/14/88	--	120	--	--
	09/20/89	--	--	--	--
	05/17/90	1.0	--	20	--
	09/11/90	--	--	--	--
	01/22/91	--	--	--	--
	04/22/91	4.0	5.7	140	--
	08/01/91	--	--	--	--
	11/07/91	--	--	--	--
	02/07/92	--	--	--	--
	08/25/92	--	--	--	1.0
	01/19/93	--	6.0	12	--
	07/01/93	NA	NA	6.3	NA
	01/05/94	NA	NA	--	NA
MW-03	03/03/88	4.0	--	--	--
	04/14/88	3.0	40	--	--
	09/20/89	--	--	--	16
	02/13/90	NA	NA	NA	20
	05/10/90	9.0	--	--	20
	09/05/90	--	--	--	--
	01/22/91	--	--	--	--
	04/23/91	--	1.5	--	--
	08/01/91	--	--	--	--
	01/29/92	--	--	--	--
	07/09/93	NA	NA	NA	5.7
	01/17/94	NA	NA	--	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-04	03/03/88	6.0	--	140	--
	04/18/88	5.0	10.0	160	--
	09/20/89	--	--	34	12
	02/15/90	NA	NA	NA	10
	05/23/90	--	4.5	99	--
	09/18/90	--	--	71	--
	05/01/91	6.1	--	11	--
	02/05/91	--	33	200	--
	08/14/91	5.0	--	--	--
	11/07/91	5.0	--	--	--
	01/28/92	--	--	--	--
	08/26/92	--	14	--	--
	01/20/93	--	14	8.0	--
	04/15/93	NA	NA	8.9	NA
	04/18/93	NA	NA	5.0	NA
	04/23/93	NA	NA	6.5	NA
	04/30/93	NA	NA	5.0	NA
	05/06/93	NA	NA	7.1	NA
	05/14/93	NA	NA	10	NA
	06/17/93	NA	NA	14	NA
	07/12/93	NA	NA	6.7	NA
	08/03/93	NA	NA	10	NA
	09/10/93	NA	NA	12	NA
	10/07/93	NA	NA	8.0	NA
	11/08/93	NA	NA	7.8	NA
	01/14/94	NA	NA	7.8	NA
	04/07/94	NA	NA	9.6	NA
	07/08/94	NA	NA	8.0	NA
	09/14/94	NA	NA	17.0	NA
	10/10/94	NA	NA	25.0	NA
MW-05	03/04/88	--	10	--	--
	04/15/88	--	--	--	--
	09/20/89	9.3	--	159	--
	05/17/90	2.0	--	70	--
	09/12/90	--	14	--	--
	01/22/91	--	11	100	--
	04/23/91	--	7.2	81	--
	08/12/91	--	--	--	--
	11/13/91	--	--	--	--
	01/28/92	--	--	--	--
	01/22/93	--	7.0	42	--
	01/17/94	NA	--	47	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-06	03/04/88	5.0	--	--	--
	04/15/88	--	40	--	--
	09/20/89	--	7.1	39	--
	05/17/90	2.0	--	100	--
	09/11/90	--	21	42	--
	01/24/91	7.0	15	--	--
	04/23/91	5.8	5.4	40	--
	08/12/91	--	--	120	1.0
	11/13/91	--	7.0	110	--
	01/28/92	--	--	180	--
	08/28/92	--	5.0	110	--
	01/22/93	--	--	16	--
	07/09/93	NA	NA	36	NA
	01/17/94	NA	--	36	NA
MW-07	03/04/88	4.0	10	50	--
	04/15/88	9.0	470	230	--
	09/15/89	--	5.0	405	--
	05/23/90	--	111	215	10
	09/07/90	--	15	250	--
	01/30/91	7.0	200	200	--
	04/26/91	--	18	130	--
	08/07/91	--	14	150	--
	11/13/91	--	15	140	--
	02/07/92	--	15	180	--
	08/31/92	--	24	--	--
	10/23/92	NA	NA	--	NA
	01/29/93	--	17	47	--
	07/07/93	NA	10	62	NA
	01/10/94	NA	12	71	--
	07/21/94	NA	NA	39.0	NA
	02/04/95	NA	11	64	NA
MW-08	03/03/88	--	--	--	--
	04/18/88	5.0	40	--	--
	09/20/89	--	--	--	--
	02/13/90	NA	NA	NA	30
	05/23/90	--	--	12	24
	09/13/90	--	--	--	--
	01/30/91	6.0	--	--	70
	04/26/91	--	8.8	29	--
	08/12/91	--	--	--	--
	11/11/91	--	--	--	--
	01/28/92	--	6.0	--	--
	08/28/92	--	--	--	--
	01/27/93	--	--	19	--
	01/17/94	NA	NA	21	--

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-11	09/06/89	9.7	27	160	57
	02/15/90	NA	NA	NA	20
	05/18/90	--	47	76	--
	09/17/90	--	47	55	--
	01/30/91	--	200	--	--
	04/26/91	--	38	32	--
	08/15/91	--	25	--	--
	11/07/91	--	19	--	--
	01/27/92	--	28	--	--
	08/26/92	--	48	--	--
	01/14/93	--	47	--	--
	07/02/93	NA	55	NA	NA
	01/05/94	NA	46	8.7	--
	07/05/94	NA	41	NA	NA
	01/16/95	NA	32	NA	NA
MW-12	09/11/89	28	18	15	--
	02/15/90	NA	NA	NA	--
	05/22/90	--	10	51	15
	09/18/90	--	10	71	--
	02/04/91	--	50	200	--
	05/01/91	--	6.6	78	--
	08/15/91	--	5.0	--	--
	11/07/91	--	--	--	--
	01/28/92	--	--	120	--
	08/26/92	--	11	--	--
	10/26/92	NA	NA	--	NA
	01/20/93	--	9.0	85	--
	07/02/93	NA	NA	93	NA
	01/07/94	--	26	94	--
	07/05/94	NA	NA	88	NA
	01/23/95	NA	NA	92	NA
MW-13	09/13/89	18	--	14	--
	02/15/90	NA	NA	NA	--
	05/25/90	30	--	10	--
	09/18/90	36	--	--	--
	02/05/91	20	--	100	--
	04/30/91	33	--	7.0	--
	08/07/91	40	--	--	1.0
	11/07/91	38	--	--	--
	02/07/92	43	--	--	--
	08/26/92	42	--	2.0	--
	01/20/93	21	--	6.0	--
	07/02/93	33	NA	NA	NA
	01/07/94	21	NA	8.4	NA
	07/05/94	28	NA	NA	NA
	01/30/95	36	NA	NA	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-14	09/13/89	--	--	169	--
	02/15/90	NA	NA	NA	--
	05/22/90	--	16	174	--
	09/18/90	--	13	160	--
	02/04/91	--	21	300	--
	05/01/91	--	37	98	--
	08/14/91	6.0	36	--	--
	11/22/91	--	16	--	--
	02/07/92	--	20	--	--
	08/27/92	--	22	--	--
	01/20/93	--	36	12	3.0
	07/02/93	NA	NA	14	NA
MW-15	09/07/89	6.0	--	--	--
	02/07/90	NA	NA	NA	30
	05/16/90	4.0	30	70	--
	09/14/90	5.0	--	52	--
	01/24/91	--	12	--	--
	04/25/91	--	11	51	--
	08/05/91	--	18	--	--
	11/05/91	--	7.0	--	--
	01/30/92	--	6.0	--	--
	08/27/92	--	--	--	--
	01/25/93	13	--	9.6	--
	07/09/93	NA	NA	73	NA
	01/17/94	NA	5.2	55	--
MW-16	09/07/89	6.0	--	--	--
	02/07/90	NA	NA	NA	30
	05/16/90	2.0	--	--	--
	09/14/90	--	10	--	--
	01/24/91	7.0	11	--	--
	04/25/91	--	5.7	20	--
	08/13/91	5.0	5.0	--	--
	11/07/91	--	--	--	--
	01/30/92	--	5.0	--	--
	08/27/92	--	9.0	--	--
	01/21/93	--	7.0	--	--
	01/06/94	NA	5.2	--	--

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-17	09/21/89	--	--	--	--
	02/07/90	NA	NA	NA	30
	05/18/90	--	7.2	67	12
	09/13/90	--	--	50	--
	01/25/91	7.0	9.0	200	--
	04/29/91	--	6.9	170	--
	08/06/91	--	5.0	170	--
	11/05/91	--	--	--	--
	01/30/92	--	6.0	110	--
	08/27/92	--	7.0	200	--
	01/25/93	--	--	34	--
	07/09/93	NA	NA	70	NA
	01/17/94	NA	NA	79	--
	06/30/94	NA	NA	190	NA
	02/04/95	NA	NA	87	NA
MW-18	09/21/89	--	--	10	--
	02/07/90	NA	NA	NA	40
	05/18/90	--	5.5	13	21
	09/13/90	--	--	--	--
	01/25/91	6.0	7.0	--	--
	04/29/91	--	6.5	24	--
	08/13/91	6.0	6.0	--	--
	11/05/91	--	--	--	--
	01/30/92	--	--	--	--
	08/27/92	--	7.0	--	--
	01/21/93	--	12	--	--
	01/06/94	NA	NA	--	--
MW-19	09/14/89	--	--	14	--
	02/13/90	NA	NA	NA	20
	05/14/90	8.0	--	60	50
	09/07/90	--	--	45	--
	01/24/91	10	--	--	--
	04/29/91	--	16	69	--
	08/05/91	--	5.0	--	--
	11/11/91	--	--	120	--
	01/30/92	--	5.0	170	--
	08/28/92	--	--	370	--
	01/25/93	--	8.4	84	--
	07/09/93	NA	NA	96	NA
	01/16/94	--	--	100	--
	06/30/94	NA	NA	590	NA
	01/25/95	NA	NA	120	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-20	09/14/89	--	--	--	--
	02/13/90	NA	NA	NA	--
	05/14/90	8.0	--	--	40
	09/07/90	--	--	--	--
	01/24/91	7.0	--	--	--
	04/29/91	--	15	5.3	--
	08/14/91	6.0	8.0	--	--
	11/11/91	--	--	--	--
	01/30/92	--	--	--	--
	08/28/92	--	7.0	--	--
	01/25/93	--	9.8	26	--
	01/06/94	NA	5.4	NA	--
MW-21	09/08/89	8.4	--	15	--
	05/15/90	6.0	--	380	40.0
	09/07/90	--	29.0	300	--
	01/23/91	5.0	7.0	300	--
	04/25/91	--	8.4	310	--
	08/07/91	--	--	190	--
	11/11/91	--	--	400	--
	01/30/92	--	5.0	370	--
	08/28/92	--	--	350	--
	01/29/93	--	--	200	--
	07/08/93	NA	NA	140	NA
	01/16/94	NA	--	400	--
	07/07/94	NA	NA	140	NA
	02/04/95	NA	NA	110	NA
MW-22	09/08/89	24	--	17	--
	05/15/90	9.0	--	--	20
	09/07/90	--	--	--	--
	01/23/91	--	--	--	--
	04/25/91	--	6.9	--	--
	08/14/91	6.0	--	--	--
	11/11/91	--	--	--	--
	01/30/92	6.0	5.0	--	1.0
	01/29/93	--	5.5	6.6	--
	01/16/94	5.9	NA	NA	12

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-23	09/08/89	9.7	--	--	--
	05/15/90	3.0	--	450	30
	09/06/90	--	--	250	--
	01/23/91	--	--	400	--
	04/23/91	--	6.5	360	--
	08/02/91	--	7.0	250	--
	11/11/91	--	--	180	--
	01/24/92	--	--	470	--
	08/28/92	--	--	280	--
	01/22/93	--	6.0	200	--
	07/08/93	NA	NA	170	NA
	01/16/94	NA	NA	170	--
	07/13/94	NA	NA	160	NA
	02/04/95	NA	NA	170	NA
MW-24	09/08/89	15	--	--	--
	05/15/90	5.0	--	420	30
	09/06/90	--	--	110	--
	01/23/91	--	--	100	2.0
	04/24/91	--	2.9	240	--
	08/01/91	--	--	300	--
	11/13/91	--	--	130	--
	01/24/92	--	--	190	--
	01/22/93	--	--	98	--
	07/08/93	NA	NA	190	NA
	01/16/94	--	NA	140	--
	07/13/94	NA	NA	78	NA
	02/04/95	NA	NA	100	NA
MW-25	09/11/89	11	--	--	--
	05/16/90	3.0	--	200	--
	09/12/90	--	11	130	--
	01/29/91	8.0	10	300	--
	04/24/91	--	--	240	--
	08/02/91	--	9.0	210	--
	11/13/91	--	7.0	250	--
	01/23/92	--	5.0	910	--
	09/01/92	--	--	760	--
	01/27/93	--	5.5	330	--
	07/08/93	NA	NA	220	NA
	01/16/94	--	--	220	NA
	07/07/94	NA	NA	250	NA
	01/25/95	NA	NA	150	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-26	09/11/89	11	--	--	--
	05/16/90	--	--	200	--
	09/12/90	--	--	260	--
	01/29/91	--	--	300	--
	04/24/91	--	8.0	240	--
	08/13/91	--	6.0	250	--
	11/13/91	--	--	750	--
	01/27/92	--	--	720	--
	09/01/92	--	10	--	--
	10/23/92	NA	NA	160	NA
	01/28/93	--	13	110	--
	07/07/93	NA	NA	120	NA
	01/10/94	--	20	100	NA
	07/07/94	NA	NA	95	NA
	01/17/95	NA	NA	100	NA
MW-27	09/15/89	--	19	--	--
	05/21/90	--	--	67	23
	09/17/90	--	--	49	--
	01/29/91	--	8.0	--	--
	04/24/91	--	6.1	38	--
	08/13/91	--	--	--	1.0
	11/13/91	--	--	--	--
	01/23/92	--	--	--	--
	09/01/92	--	6.0	--	--
	01/28/93	--	8.3	46	--
	07/08/93	NA	NA	91	NA
	01/16/94	NA	--	68	--
	07/07/94	NA	NA	52	NA
MW-28	02/15/90	NA	NA	NA	--
	05/25/90	--	4.4	26	16
	09/19/90	--	49	52	--
	02/01/91	--	10	--	1.0
	04/30/91	--	6.0	32	--
	08/13/91	--	5.0	--	2.0
	11/05/91	--	--	--	--
	01/30/92	--	--	--	--
	08/31/92	--	9.0	--	2.0
	01/13/93	--	17	--	--
	01/11/94	NA	9.1	83	--

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-29	02/15/90	NA	NA	NA	20
	05/25/90	--	--	15	--
	09/06/90	--	--	--	--
	02/01/91	--	--	--	10
	04/30/91	--	3.0	58	--
	08/15/91	--	--	--	--
	11/05/91	--	--	--	--
	01/30/92	--	--	--	--
	08/31/92	--	--	--	--
	01/14/93	--	--	--	--
MW-30	01/11/94	NA	NA	18	10
	02/15/90	NA	NA	NA	20
	05/24/90	5.0	--	174	63
	09/05/90	--	--	190	--
	02/04/91	--	--	200	2.0
	04/30/91	--	7.9	130	--
	08/15/91	--	8.0	--	--
	11/05/91	--	6.0	--	--
	01/31/92	--	9.0	--	--
	08/31/92	--	8.0	--	--
	01/14/93	--	6.0	--	--
	07/06/93	NA	NA	26	NA
	01/10/94	NA	NA	17	--
	07/01/94	NA	NA	12	NA
MW-31	05/24/90	9.0	--	201	30.0
	09/19/90	--	--	200	--
	02/01/91	--	--	200	1.0
	05/01/91	--	13	73	--
	08/15/91	--	21	--	--
	11/22/91	--	16	--	--
	01/31/92	--	13	--	1.0
	08/31/92	--	--	--	--
	01/21/93	--	--	10	--
	07/07/93	NA	NA	13	NA
	01/11/94	NA	6.0	8.5	--
	07/01/94	NA	NA	7.0	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-32	05/24/90	--	7.4	169	10
	09/19/90	--	--	120	--
	02/01/91	--	40	200	4.0
	05/01/91	--	12	65	--
	08/16/91	--	--	--	--
	11/22/91	--	--	--	--
	01/29/92	--	--	--	--
	09/04/92	--	--	--	--
	01/26/93	13	6.1	46	--
	04/15/93	NA	NA	21	NA
	04/18/93	NA	NA	13	NA
	04/23/93	NA	NA	18	NA
	04/30/93	NA	NA	18	NA
	05/06/93	NA	NA	17	NA
	05/14/93	NA	NA	19	NA
	06/17/93	NA	NA	150	NA
	07/12/93	NA	NA	20	NA
	08/03/93	NA	NA	23	NA
	09/10/93	NA	NA	24	NA
	10/06/93	NA	NA	20	NA
	11/08/93	NA	NA	20	NA
	01/14/94	NA	NA	18	NA
	04/07/94	NA	NA	18	NA
	07/08/94	NA	NA	17	NA
	09/14/94	NA	NA	16	NA
MW-33	05/18/90	--	--	17	35
	09/14/90	--	--	--	--
	01/30/91	8.0	200	--	--
	04/30/91	--	3.5	56	--
	08/07/91	--	5.0	--	1.0
	11/05/91	--	--	--	--
	01/24/92	--	--	--	--
	08/26/92	--	--	--	--
	01/14/93	--	--	--	--
	07/02/93	NA	NA	15	NA
MW-34	01/06/94	NA	--	--	NA
	07/02/91	--	7.0	300	--
	08/16/91	--	6.0	230	--
	11/13/91	--	--	190	--
	01/23/92	--	--	160	--
	09/01/92	--	5.0	--	16
	10/26/92	NA	NA	130	NA
	01/21/93	--	--	83	--
	07/07/93	NA	NA	80	NA
	01/12/94	NA	NA	63	--
	07/20/94	NA	NA	51	NA
	02/01/95	NA	NA	45	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-35	07/02/91	--	5.0	--	--
	08/08/91	6.0	9.0	--	--
	11/13/91	--	--	--	--
	01/23/92	--	--	--	--
	09/01/92	--	--	--	--
	01/21/93	--	--	8.0	--
MW-36	12/12/91	--	--	--	--
	01/23/92	--	--	110	--
	09/04/92	--	10	120	--
	10/21/92	NA	NA	--	NA
	01/27/93	--	11	93	--
	04/13/93	NA	NA	32	NA
	07/07/93	NA	NA	79	NA
	09/28/93	NA	NA	87	NA
	01/12/94	--	--	NA	--
	07/20/94	NA	NA	50	NA
	01/31/95	NA	NA	51	NA
MW-37	12/12/91	--	--	--	--
	01/23/92	--	--	--	--
	09/04/92	--	--	--	--
	01/27/93	--	--	--	--
	07/07/93	NA	NA	12	NA
	09/28/93	NA	NA	93	NA
	01/12/94	--	--	NA	--
	07/20/94	NA	NA	--	NA
	01/31/95	NA	NA	--	NA
MW-38	12/12/91	--	--	--	--
	01/24/92	--	--	--	--
	09/04/92	--	7.0	100	--
	01/26/93	--	7.7	86	--
	04/09/93	NA	NA	73	NA
	07/06/93	NA	NA	80	NA
	09/27/93	NA	NA	92	NA
	01/10/94	--	8.6	93	11
	07/14/94	NA	NA	75	NA
MW-39	06/28/91	10	17	--	1.0
	08/06/91	--	17	--	--
	11/13/91	--	--	--	--
	01/24/92	--	--	180	--
	09/04/92	--	10	170	--
	10/21/92	NA	NA	100	NA
	01/27/93	--	8.1	130	--
	07/06/93	NA	NA	280	NA
	01/12/94	NA	--	380	NA
	07/14/94	NA	NA	220	NA
	01/19/95	NA	NA	71	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-40	06/28/91	5.0	4.0	--	--
	08/15/91	--	7.0	--	--
	11/22/91	--	5.0	--	--
	01/29/92	--	--	100	--
	08/31/92	--	5.0	--	--
	01/26/93	--	--	110	--
	07/15/93	NA	NA	93	NA
	01/11/94	--	NA	46	NA
	06/30/94	NA	NA	43	NA
	01/24/95	NA	NA	51	NA
MW-41	06/28/91	15	5.0	--	--
	08/12/91	7.0	--	--	--
	11/05/91	6.0	6.0	--	--
	01/31/92	7.0	7.0	--	--
	08/25/92	--	11	--	--
	01/20/93	--	9.0	--	--
	01/07/94	--	11	NA	NA
MW-42	06/28/91	8.0	--	200	1.0
	08/08/91	--	10	190	--
	11/07/91	--	--	160	--
	02/07/92	--	--	160	3.0
	08/25/92	--	5.0	--	12
	01/19/93	--	6.0	60	--
	07/01/93	NA	NA	72	NA
	01/05/94	--	--	61	--
	07/07/94	NA	NA	40	NA
MW-43	01/13/95	NA	NA	50	NA
	06/28/91	10	--	200	--
	11/07/91	--	--	160	--
	08/16/91	--	--	220	--
	02/07/92	--	--	180	--
	08/25/92	--	--	120	--
	08/25/92	--	--	120	--
	10/22/92	NA	NA	170	NA
	01/19/93	--	--	130	--
	07/01/93	NA	NA	140	NA
	01/05/94	--	NA	130	NA
	07/13/94	NA	NA	210	NA
	01/13/95	NA	NA	260	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100	50
	Background Concentration ¹	0-20	1-20	1-12	<1-9
MW-44	10/27/92	5.0	9.0	--	--
	01/26/93	22	7.5	19	--
	04/09/93	--	9.0	8.7	--
	07/06/93	--	8.2	15	--
	09/27/93	--	8.1	13	--
	01/10/94	--	11	21	--
	07/14/94	--	10	21	3.4
MW-45	07/20/94	--	6.0	57	4.5
	11/02/94	--	12	480	--
	01/18/95	--	26	38	--
MW-46	07/20/94	--	6.0	9.1	--
	11/02/94	--	6.5	74	--
	01/24/95	--	8.8	59	--
MW-47	07/21/94	--	12	--	--
	08/21/94	--	10	--	7.6
	11/04/94	--	9.4	15.0	5.6
	01/31/95	5.1	12	--	--

MCL Maximum Contaminant Level for drinking water, EPA or DHS, whichever is more stringent.

-- Not detected.

NA Not analyzed.

1 Background Concentration-Values were obtained from: Johnson, K.L., 1985. Chemical Quality of Groundwater in Sacramento and Western Placer Counties, California. U.S. Geological Survey Water Resources Investigation Report, 85-4164.

TA
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 - 1995
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1 ⁽¹⁾	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-01	03/03/88	—	—	—	—	—	—	—	—	—	0.8	—	—	—	—	—	NA	—
	09/20/89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	05/10/90	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	09/05/90	—	—	—	—	—	—	—	—	—	1.0	—	—	—	—	—	NA	—
	01/21/91	—	—	—	—	—	—	—	—	—	0.80	—	—	—	NA	NA	NA	—
	01/29/92	—	—	—	—	—	—	—	—	—	1.7	—	—	—	NA	NA	NA	—
	07/09/93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	01/17/94	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
MW-02	03/03/88	—	—	—	—	—	—	—	—	—	0.6	—	—	—	280	—	NA	—
	09/20/89	—	1.4	—	—	—	—	—	—	—	—	—	—	—	—	50*	NA	—
	05/17/90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	09/11/90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	01/22/91	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	04/22/91	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	08/01/91	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	11/07/91	8.4	1.2	8.3	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	02/07/92	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	05/26/92	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	08/25/92	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	10/20/92	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/19/93	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	04/07/93	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	07/01/93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	09/21/93	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/05/94	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	04/12/94	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	07/05/94	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	10/25/94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/13/95	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
MW-03	03/03/88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	09/20/89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	05/10/90	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	09/05/90	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/22/91	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	08/01/91	—	—	—	—	—	—	—	—	NA	—	—	—	—	NA	NA	NA	—
	01/29/92	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	07/09/93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	01/17/94	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—

TABLE 3

SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995

ORGANIC COMPOUNDS (ug/l)

UNION PACIFIC RAILROAD YARD

SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1 ⁽¹⁾	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-04	03/03/88	11	4.5	6	1.5	22	—	12	130	42	—	—	—	—	1100	300	NA	—
	09/20/89	210	—	—	—	—	—	7.1	—	120	—	—	—	—	—	3000	NA	—
	02/15/90	190	3.5	7.5	2.1	5.3	—	12	250	46	—	—	5.7	—	NA	NA	NA	—
	05/23/90	130	4.9	2.1	6.3	4.1	—	5.8	5.5	45	—	—	4.9	—	—	650	NA	—
	09/18/90	98	4.1	2.7	4.3	2.4	—	6	30	38	—	—	4.5	—	—	—	NA	—
	02/05/91	17	—	—	—	1.2	—	6	45	16	—	—	4.2	—	NA	NA	NA	—
	05/01/91	580	—	24	12	—	—	11	15	93	—	—	0.89	—	NA	NA	NA	—
	08/14/91	—	0.6	13	2.5	—	—	13	27	—	—	—	1.4	—	NA	NA	NA	—
	11/07/91	1200	26	8.7	26	—	—	19	40	—	—	—	—	—	NA	NA	NA	—
	01/28/92	940	12	3.4	18	0.6	—	12	16	170	—	—	1.4	—	NA	NA	NA	—
	05/29/92	210	7.5	9.3	6.7	2.4	—	15	110	20	—	—	7.8	—	NA	NA	NA	—
	08/26/92	230	2.4	1.7	4.1	1.3	—	14	120	13	—	1.3	8.6	—	NA	NA	NA	—
	10/20/92	260	—	—	—	—	—	—	32	—	—	—	—	—	NA	NA	NA	—
	01/20/93	180	5.6	4.2	8.9	—	—	7.5	73	12	—	—	5.0	—	NA	NA	NA	—
	04/17/93	350	35	93	18	1.3	—	8.8	37	20	—	—	6.1	—	NA	2,300	NA	—
	04/18/93	200	19	46	10	1.4	—	5.8	44	14	—	0.82	4.8	—	NA	980	NA	—
	04/23/93	160	16	32	8.4	1.4	—	5.0	39	9.2	—	—	3.8	—	NA	—	NA	—
	04/30/93	200	22	37	7.6	1.5	—	5.0	62	—	—	—	4.5	—	NA	NA	NA	—
	05/06/93	200	30	30	9.7	1.4	—	4.8	42	10	—	—	3.9	—	NA	1,100	NA	—
	05/14/93	220	26	45	7.3	—	—	5.7	46	9.2	—	—	4.6	—	NA	1,200	NA	—
	06/17/93	270	40	50	9.7	1.4	—	5.2	66	7.9	—	—	3.2	—	NA	1,400	NA	—
	07/12/93	210	23	28	7.1	1.2	—	4.5	55	6.0	—	—	—	—	NA	910	NA	—
	08/03/93	170	27	31	9.2	1.3	—	4.5	64	5.7	—	—	2.9	—	NA	NA	NA	—
	09/10/93	110	7.5	—	—	1.3	—	4.5	53	3.5	—	0.82	3.0	—	NA	630	NA	—
	09/24/93	93	8.7	—	—	—	—	—	42	—	—	—	—	—	NA	NA	NA	—
	10/07/93	150	19	—	—	1.8	—	5.8	69	5.4	—	1.1	4.3	—	NA	520	NA	—
	11/08/93	110	15	21	5.1	1.6	—	5.0	65	4.4	—	1.2	3.7	—	NA	750	NA	—
	01/14/94	110	14	19	4.4	1.3	—	4.6	52	3.4	—	1.1	2.9	—	NA	510	NA	—
	02/11/94	110	14	17	4.3	1.8	—	4.6	64	4.6	—	1.5	3.0	—	—	330	—	—
	03/02/94	110	13	16	4.0	1.2	—	3.9	41	3.3	—	1.4	2.6	—	—	580	—	—
	04/07/94	120	14	19	3.7	1.5	—	3.6	53	2.7	—	1.3	2.7	—	NA	660	NA	—
	05/05/94	61	6.9	8.6	2.2	0.66	—	3.3	37	2.9	—	1.0	2.4	—	—	380	—	—
	06/08/94	75	—	—	—	—	—	2.9	37	1.8	—	0.88	2.1	—	—	415	—	—
	07/08/94	88	12	13	3.6	1.1	—	3.2	39	—	—	1.0	—	—	NA	150	NA	—
	09/14/94	84	11	17	3.5	—	—	2.4	38	2.1	—	0.70	1.6	—	—	310	—	—
	10/10/94	110	12	15	7.4	1.3	—	2.4	39	2.5	—	1.2	2.8	—	—	430	—	—
	11/08/94	96	13	17	4.5	0.62	—	3.8	33	3.3	—	1.1	2.6	—	—	—	—	—
	12/07/94	94	12	16	4.5	1.0	—	3.4	33	2.9	—	1.4	2.5	—	—	—	—	—
MW-05	03/04/88	—	—	—	—	—	—	—	—	—	4.9	—	—	—	—	—	NA	—
	09/20/89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60	NA	—
	05/17/90	—	—	—	—	—	—	—	—	—	2.6	—	—	—	—	—	NA	—
	09/12/90	—	—	—	—	—	—	—	—	—	2.3	—	—	—	—	—	NA	—
	08/12/91	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/28/92	—	—	—	—	—	—	—	—	—	1.2	—	—	—	NA	NA	NA	—
	01/22/93	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/17/94	—	—	—	—	—	—	—	—	—	2.1	—	—	—	NA	NA	NA	—

SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1(1)	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	POE 5	TCE 5	CCl ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-06	03/04/88	—	—	—	—	—	—	—	—	—	0.6	—	—	—	—	—	NA	—
	08/20/89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	05/17/90	—	—	—	—	—	—	—	—	—	1.5	—	—	—	NA	—	NA	—
	09/11/90	—	—	—	—	—	—	—	—	—	2.0	—	—	—	—	—	NA	—
	08/12/91	—	—	—	—	—	—	—	—	—	6.2	—	—	—	NA	—	NA	—
	01/29/92	—	—	—	—	—	—	—	—	—	2.1	—	—	—	NA	—	NA	—
	08/29/92	—	—	—	—	—	—	—	—	—	0.85	—	—	—	NA	—	NA	—
	01/22/93	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—	NA	—
	07/09/93	—	—	—	—	—	—	—	—	—	1.6	—	—	—	—	—	NA	—
	01/17/94	—	—	—	—	—	—	—	—	—	1.8	—	—	—	NA	—	NA	—
	03/04/88	—	—	—	—	25	—	15	17	1.6	1.9	—	1.0	—	—	—	NA	—
	09/15/89	—	—	—	—	26	—	15	0.5	3.1	1.1	—	1.1	—	—	50	NA	—
MW-07	02/07/90	—	—	—	—	11	—	9.9	58	—	2.6	—	0.6	—	NA	—	NA	—
	05/17/90	—	—	—	—	9.7	—	9.2	8.1	—	3	—	—	—	—	—	NA	—
	09/07/90	—	—	—	—	6.4	—	6.1	19	—	2.5	—	—	—	—	—	NA	—
	01/30/91	NA	NA	NA	NA	5.1	—	4.3	15	—	2.6	—	—	—	NA	—	NA	—
	04/26/91	NA	NA	NA	NA	4.6	—	4.5	11	—	3.0	—	—	—	NA	—	NA	—
	08/07/91	—	—	—	—	8.1	—	12	28	—	4.1	—	—	—	NA	—	NA	—
	02/07/92	—	—	—	—	7.2	—	12	32	—	4.9	—	—	—	NA	—	NA	—
	06/02/92	—	—	—	—	4.2	—	6.8	21	—	4.1	—	—	—	NA	—	NA	—
	08/31/92	—	—	—	—	5.2	—	8.5	39	—	4.5	—	—	—	NA	—	NA	—
	10/23/92	—	—	—	—	3.7	—	5.9	21	—	4.7	—	—	—	NA	—	NA	—
	01/29/93	—	—	—	—	1.4	—	3.6	9.6	—	1.8	—	—	—	NA	—	NA	—
	04/14/93	NA	NA	NA	NA	1.9	—	3.7	9.8	—	4.0	—	—	—	NA	—	NA	—
MW-08	07/07/93	—	—	—	—	0.93	—	2.9	11	—	3.3	—	—	—	NA	—	NA	—
	09/24/93	NA	NA	NA	NA	—	—	—	3.4	—	2.1	—	—	—	NA	—	NA	—
	01/10/94	—	—	—	—	—	—	1.3	6.2	—	2.2	—	—	—	NA	—	NA	—
	04/14/94	NA	NA	NA	NA	—	—	0.59	3.7	—	2.4	—	—	—	NA	—	NA	—
	07/21/94	NA	NA	NA	NA	—	—	0.71	NA	NA	2.1	—	—	—	NA	—	NA	—
	11/02/94	—	—	—	—	—	—	0.62	5.4	—	2.0	—	—	—	—	—	—	—
	02/04/95	NA	NA	NA	NA	—	—	1.50	8.3	—	1.1	1.8	—	—	NA	—	NA	—
	03/03/88	—	—	—	—	—	—	0.9	—	—	—	0.8	—	—	—	—	NA	—
	09/20/89	—	2.5	—	—	—	—	—	—	—	—	1.5	—	—	—	—	NA	—
	05/23/90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	09/13/90	—	—	—	—	0.6	—	—	3.8	—	—	—	—	—	—	—	NA	—
	01/30/91	NA	NA	NA	NA	—	—	—	1.8	—	—	—	—	—	NA	—	NA	—
	04/26/91	NA	NA	NA	NA	—	—	—	9.6	—	—	3.2	—	—	NA	—	NA	—
	08/12/91	—	—	—	—	—	—	—	2.5	—	—	21.0	—	—	NA	—	NA	—
	11/11/91	NA	NA	NA	NA	0.7	—	—	1.8	—	—	5.3	—	—	NA	—	NA	—
	01/28/92	—	—	—	—	—	—	—	0.71	—	—	8.8	—	—	NA	—	NA	—
	08/28/92	—	—	—	—	—	—	—	—	—	—	—	7.1	—	NA	—	NA	—
	01/27/93	—	—	—	—	—	—	—	0.61	—	—	3.7	—	—	NA	—	NA	—
	07/08/93	NA	NA	NA	NA	—	—	—	—	—	—	4.8	—	—	NA	—	NA	—
	01/17/94	—	—	—	—	—	—	—	—	—	0.60	2.8	—	—	NA	—	NA	—
	07/05/94	NA	NA	NA	NA	—	—	—	—	—	—	3.11z	—	—	NA	—	NA	—
	01/25/95	NA	NA	NA	NA	—	—	—	—	—	—	3.0	—	—	NA	—	NA	—

T
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1(1)	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-11	09/06/89	—	6.0	—	—	—	—	0.8	—	—	5.1	—	1.7	—	600	120	NA	—
	02/15/90	—	—	—	—	—	—	—	8.3	—	0.6	—	0.5	—	NA	NA	NA	—
	05/18/90	—	—	—	—	—	—	3.2	—	—	—	0.7	4.2	—	—	—	NA	—
	09/17/90	—	—	—	—	1.7	—	6.2	18	—	—	—	2.4	—	—	—	NA	—
	01/30/91	NA	NA	NA	NA	2.8	—	16	46	—	—	—	2.5	—	NA	NA	NA	—
	04/26/91	NA	NA	NA	NA	4.5	—	19	62	—	—	—	3.5	—	NA	NA	NA	—
	08/15/91	—	—	—	—	1.8	—	11	—	—	—	—	2.0	—	NA	NA	NA	—
	11/07/91	NA	NA	NA	NA	1.0	—	7.2	9.9	0.6	—	—	1.1	—	NA	NA	NA	—
	01/27/92	—	—	—	—	1.5	—	11	110	—	—	0.7	3.0	—	NA	NA	NA	—
	06/02/92	—	—	—	—	1.5	0.5	7.6	54	—	—	—	3.8	—	NA	NA	NA	—
	08/26/92	—	—	—	—	0.72	—	8.0	57	—	—	1.3	4.3	—	NA	NA	NA	—
	10/20/92	—	—	—	—	0.51	—	4.7	37	—	—	0.68	2.6	—	NA	NA	NA	—
	01/14/93	—	—	—	—	—	—	2.5	54	—	—	—	2.2	—	NA	NA	NA	—
	04/09/93	NA	NA	NA	NA	0.95	—	2.9	27	—	—	—	2.8	—	NA	NA	NA	—
	07/02/93	—	—	—	—	0.71	—	3.5	45	—	—	0.65	2.9	—	NA	NA	NA	—
	09/24/93	NA	NA	NA	NA	—	—	1.7	20	—	—	0.54	1.3	—	NA	NA	NA	—
	01/05/94	—	—	—	—	—	—	1.7	15	—	—	—	1.7	—	NA	NA	NA	—
	04/13/94	NA	NA	NA	NA	—	—	2.4	18	—	—	—	1.5	—	NA	NA	NA	—
	07/05/94	NA	NA	NA	NA	—	—	1.90Jh	14Jh	—	—	—	1.6Jh	—	NA	NA	NA	—
	10/26/94	—	—	—	—	—	—	0.72	8.6	—	—	—	0.70	—	—	—	—	—
	01/16/95	NA	NA	NA	NA	—	—	—	12.0	—	—	—	3	—	NA	NA	NA	—
MW-12	09/11/89	—	2.2	—	—	—	—	1.3	—	—	6.4	—	4	—	—	70	NA	—
	10/13/89	0.8	—	—	—	—	—	4.9	26.3	—	4.5	—	5.7	—	NA	NA	NA	—
	02/15/90	—	—	—	—	—	—	9.6	62	—	1.4	—	9	—	NA	NA	NA	—
	05/22/90	—	—	—	—	—	—	9.2	1.4	—	0.6	—	9	—	—	—	NA	—
	09/18/90	—	—	—	—	0.88	—	10	24	—	—	—	12	—	—	—	NA	—
	02/04/91	—	—	—	—	—	—	15	47	—	—	—	14	—	NA	NA	NA	—
	05/01/91	NA	NA	NA	NA	—	—	12	52	—	—	—	15	—	NA	NA	NA	—
	08/15/91	—	0.6	—	—	0.7	—	13	27	—	—	—	15	—	NA	NA	NA	—
	11/07/91	—	—	—	—	1.4	—	15	28	—	—	—	13	—	NA	NA	NA	—
	01/28/92	0.6	—	—	—	0.8	—	23	120	—	—	0.6	19	—	NA	NA	NA	—
	06/01/92	—	—	—	—	0.8	—	19	61	—	—	—	11	—	NA	NA	NA	—
	08/26/92	—	—	—	—	0.64	—	31	94	—	—	0.93	16	—	NA	NA	NA	—
	10/26/92	—	—	—	—	—	—	26	97	—	—	—	14	—	NA	NA	NA	—
	01/20/93	—	—	—	—	0.60	—	21	78	—	—	—	9.1	—	NA	NA	NA	—
	04/13/93 ⁺⁺	700	52	88	47	—	—	23	52	19	—	—	13	—	NA	NA	NA	—
	07/02/93	—	—	—	—	—	—	12.0	30.0	—	—	—	4.7	—	NA	NA	NA	—
	09/22/93	—	—	—	—	—	—	11	42	—	—	—	2.5	—	NA	NA	NA	—
	01/07/94	—	—	—	—	—	—	12	45	—	—	—	—	—	NA	NA	NA	—
	04/13/94	—	—	—	—	—	—	16	42	—	—	—	2.1	—	NA	NA	NA	—
	07/05/94	—	—	—	—	—	—	14Jh	38Jh	—	—	—	3.0Jh	—	NA	NA	NA	—
	10/29/94	—	—	—	—	—	—	12	35	—	—	—	3.6	—	—	—	—	—
	01/23/95	—	—	—	—	—	—	14.0	40.0	—	—	—	4.8	—	NA	NA	NA	—

SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1(l)	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCl ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-13	09/13/89	5,700	343	147	—	—	0.8	13.2	—	360	—	—	0.6	—	3100	51000	NA	—
	11/02/89	6,700	210	88	50	—	—	20	24	270	—	—	—	—	NA	NA	NA	—
	02/15/90	10,500	400	1600	150	—	—	40	55	200	—	—	—	—	NA	NA	NA	—
	05/25/90	12,000	250	530	1200	—	—	35	1.8	250	—	—	—	—	2400	46000	NA	—
	09/18/90	7,300	310	620	410	—	—	27	15	210	—	—	—	—	—	12000	NA	—
	02/05/91	10,000	390	600	—	0.6	—	36	25	96	—	—	—	—	NA	NA	NA	—
	04/30/91	7,900	260	520	340	0.5	—	17	14	120	—	—	—	—	NA	NA	NA	—
	08/07/91	11,000	440	760	450	1.1	—	24	9.6	108	—	—	1.5	—	NA	NA	NA	—
	11/07/91	41,000	1,600	3,900	180	—	—	160	210	—	—	—	—	—	NA	NA	NA	—
	02/07/92	11,000	630	1,300	780	—	—	34	31	—	—	5.6	—	—	NA	NA	NA	—
	06/04/92	9900	380	500	570	—	—	35	18	160	—	—	—	—	NA	NA	NA	—
	08/26/92	13,000	340	780	520	—	—	39	13	180	—	—	0.8	—	NA	NA	NA	—
	10/27/92	9,600	330	740	500	—	—	34	13	170	—	—	0.91	—	NA	NA	NA	—
	01/20/93	7,300	290	520	340	—	—	46	8.8	150	—	—	—	—	NA	NA	NA	—
	04/13/93	7,500	340	600	330	—	—	30	8.7	130	—	—	0.68	—	NA	NA	NA	—
	07/02/93	4,900	230	360	290	—	—	26	66	89	—	—	—	—	NA	NA	NA	—
	09/22/93	3,800	66	110	190	—	—	21	27	81	—	—	6.5	—	NA	NA	NA	—
	01/07/94	4,100	180	280	250	—	—	27	100	73	—	—	16	—	NA	NA	NA	—
	04/13/94	2,200	67	79	130	—	—	40	140	61	—	—	22	—	NA	NA	NA	—
	07/05/94	1,800Jh	43Jh	36Jh	120Jh	—	—	48Jh	78Jh	57Jh	—	—	11Jh	—	NA	NA	NA	—
	10/29/94	2,200	100	96	130	—	—	40	99	39	—	—	—	—	—	—	—	—
MW-14	01/30/95	2,600	99.0	170.0	180.0	—	—	24	89	32	—	—	12	—	NA	NA	NA	—
	09/13/99	—	12.3	—	—	22	7.1	9.4	15.1	3.7	2.5	—	5.6	—	—	100	NA	—
	11/02/89	—	—	—	—	20	6.3	9.3	75	7.7	2.5	—	4.7	—	NA	NA	NA	—
	02/15/90	3.6	—	0.6	—	8.9	1.1	9.6	380	1.0	—	—	8.0	—	NA	NA	NA	—
	05/22/90	2.2	—	—	—	4.1	—	5.8	11	1.4	—	—	5.9	—	—	—	NA	—
	09/18/90	—	—	—	—	2.3	—	5.0	47	—	—	—	5.7	—	—	—	NA	—
	02/04/91	—	—	—	—	1.3	—	4.4	47	—	—	—	6.2	—	NA	NA	NA	—
	05/01/91	—	—	—	—	0.88	—	3.1	18	—	—	—	4.9	—	NA	NA	NA	—
	08/14/91	0.7	—	—	—	1.6	—	4.8	50	—	—	0.6	9.7	—	NA	NA	NA	—
	11/22/91	—	—	—	—	1.9	—	6.3	150	1.5	—	—	5.6	—	NA	NA	NA	—
	02/07/92	—	—	—	—	3.1	—	12	100	—	0.5	0.6	9.4	—	NA	NA	NA	—
	06/01/92	15	—	—	—	5.1	0.7	28	120	3.7	0.8	—	10	—	NA	NA	NA	—
	08/27/92	—	—	—	—	3.3	—	43	142	—	—	—	12	—	NA	NA	NA	—
	10/26/92	—	—	—	—	—	—	36	200	—	—	—	13	—	NA	NA	NA	—
	01/20/93	—	—	—	—	1.7	—	20	140	—	—	0.8	7	—	NA	NA	NA	—
	04/13/93	1.5	—	—	—	1.8	0.59	12	99	—	—	0.65	7.9	—	NA	NA	NA	—
	07/02/93	8.7	—	—	—	—	—	2.1	36.0	—	—	—	0.85	—	NA	NA	NA	—
	09/22/93	0.79	—	—	—	1.0	0.61	7.7	80	0.50	—	1.1	6.0	—	NA	NA	NA	—
	01/07/94	—	—	—	—	—	—	—	42	—	—	—	—	—	NA	NA	NA	—
	04/13/94	0.63	—	—	—	0.58	—	4.9	44	—	—	—	7.8	—	NA	NA	NA	—
	07/05/94	1.6Jh	—	—	—	0.94Jh	—	3.50Jh	28.00Jh	—	—	—	5.50Jh	—	NA	NA	NA	—
	01/30/95	—	—	—	—	0.68	—	14	66	—	—	—	4.8	—	NA	NA	NA	—

SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 - 1995
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1 ⁽¹⁾	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-15	09/07/89	—	—	—	—	—	—	—	—	—	—	2.2	—	—	—	—	NA	—
	02/07/90	—	—	—	—	0.5	—	—	5.8	—	—	2.8	—	—	NA	NA	NA	—
	05/16/90	—	—	—	—	—	—	—	—	—	—	3.5	—	—	—	NA	NA	—
	09/14/90	—	—	—	—	1.1	—	—	0.58	—	—	6.2	—	—	—	—	NA	—
	01/24/91	NA	NA	NA	NA	0.7	—	—	1.2	—	—	—	6.8	—	NA	NA	NA	—
	04/25/91	NA	NA	NA	NA	0.53	—	—	0.82	—	—	—	6.7	—	NA	NA	NA	—
	08/05/91	—	—	—	—	—	—	—	—	—	—	7.8	—	—	NA	NA	NA	—
	11/05/91	NA	NA	NA	NA	1.3	—	—	2.1	—	—	12	—	—	NA	NA	NA	—
	01/30/92	—	—	—	—	—	—	—	1.6	—	—	10	—	—	NA	NA	NA	—
	08/27/92	—	—	—	—	—	—	—	—	—	—	10	—	—	NA	NA	NA	—
	01/25/93	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	07/09/93	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/17/94	—	—	—	—	—	—	—	—	—	—	5.8	—	—	NA	NA	NA	—
	07/05/94	NA	NA	NA	NA	—	—	—	—	—	0.54h	3.4	—	—	NA	NA	NA	—
	01/25/95	NA	NA	NA	NA	—	—	—	—	—	—	2.4Ujh	—	—	NA	NA	NA	—
MW-16	09/07/89	—	3.9	—	—	0.8	—	0.7	—	—	0.5	—	—	—	—	—	NA	—
	02/07/90	—	—	—	—	2	—	1.8	29	—	—	—	—	—	NA	NA	NA	—
	05/16/90	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	09/14/90	—	—	—	—	1.3	—	—	2.3	—	—	—	—	—	—	—	NA	—
	01/24/91	NA	NA	NA	NA	—	—	—	2.6	—	—	—	—	—	NA	NA	NA	—
	04/25/91	NA	NA	NA	NA	0.83	—	—	2.8	—	—	—	—	—	NA	NA	NA	—
	08/13/91	—	—	—	—	1.5	—	—	8.3	—	—	—	—	—	NA	NA	NA	—
	11/07/91	NA	NA	NA	NA	1.6	—	—	5.7	—	—	—	—	—	NA	NA	NA	—
	01/30/92	—	—	—	—	0.6	—	—	9.0	—	—	—	—	—	NA	NA	NA	—
	06/04/92	—	—	—	—	1.9	—	—	2.7	—	—	—	—	—	NA	NA	NA	—
	08/27/92	—	—	—	—	—	—	—	3.9	—	—	—	—	—	NA	NA	NA	—
	10/23/92	—	—	—	—	0.81	—	—	3.2	—	—	—	—	—	NA	NA	NA	—
	01/21/93	—	—	—	—	—	—	—	2.6	—	—	—	—	—	NA	NA	NA	—
	04/12/93	NA	NA	NA	NA	0.64	—	—	—	—	—	—	—	—	NA	NA	NA	—
	06/29/93	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	09/23/93	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/06/94	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	04/14/94	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	07/05/94	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	10/26/94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/17/95	NA	NA	NA	NA	—	—	—	—	—	0.55	—	—	—	NA	NA	NA	—

T
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1(1)	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 8	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-17	09/21/89	—	1.3	—	—	1.1	—	0.5	—	—	2.6	—	0.7	—	—	—	NA	—
	02/07/90	—	—	—	—	0.8	—	0.6	36	—	—	—	0.5	—	NA	NA	NA	—
	05/18/90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	09/13/90	—	—	—	—	—	—	—	4.0	—	—	—	—	—	—	—	NA	—
	01/25/91	—	—	—	—	—	—	—	3.0	—	—	—	—	—	NA	NA	NA	—
	04/29/91	—	—	—	—	—	—	—	3.8	—	—	—	—	—	NA	NA	NA	—
	08/06/91	—	—	—	—	—	—	—	3.7	—	—	—	—	—	NA	NA	NA	—
	11/05/91	NA	NA	NA	NA	0.6	—	—	2.8	—	—	—	—	—	NA	NA	NA	—
	01/30/92	—	—	—	—	—	—	—	1.2	—	—	—	—	—	NA	NA	NA	—
	08/27/92	—	—	—	—	—	—	—	0.8	—	—	—	—	—	NA	NA	NA	—
	01/25/93	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	07/09/93	—	—	—	—	—	—	—	1.0	—	—	—	—	—	NA	NA	NA	—
	01/17/94	—	—	—	—	—	—	—	0.61	—	—	1.1	—	—	NA	NA	NA	—
	06/30/94	NA	NA	NA	NA	—	—	—	—	—	—	1.3Uz	—	—	NA	NA	NA	—
	02/04/95	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
MW-18	09/21/89	—	1.3	—	—	1.9	0.8	3.4	0.5	—	1.5	—	9.4	—	—	50	NA	—
	11/02/89	—	—	—	—	6.9	1.0	7.8	92	—	0.5	—	13	—	NA	NA	NA	—
	02/07/90	—	—	—	—	4	—	4.8	230	—	—	—	8.1	—	NA	NA	NA	—
	05/18/90	—	—	—	—	2.4	—	2.8	3.2	—	—	1.0	10	—	—	—	NA	—
	09/13/90	—	—	—	—	3.3	—	3.9	19	—	—	—	4.4	—	—	—	NA	—
	01/25/91	—	—	—	—	0.90	—	1.4	22	—	—	—	2.9	—	NA	NA	NA	—
	04/29/91	—	—	—	—	0.94	—	1.1	20	—	—	—	2.3	—	NA	NA	NA	—
	08/13/91	—	—	—	—	1.5	—	1.2	18	—	—	—	3.8	—	NA	NA	NA	—
	11/05/91	NA	NA	NA	NA	2.2	3.8	2.0	18	—	—	—	—	—	NA	NA	NA	—
	01/30/92	—	—	—	—	1.0	—	0.8	25	—	—	—	2.8	—	NA	NA	NA	—
	06/01/92	—	—	—	—	1.4	—	0.6	13	—	—	—	2.2	—	NA	NA	NA	—
	08/27/92	—	—	—	—	0.94	—	—	16	—	—	—	3.2	—	NA	NA	NA	—
	10/26/92	—	—	—	—	2.6	—	—	—	—	—	—	3.0	—	NA	NA	NA	—
	01/21/93	—	—	—	—	0.77	—	—	14	—	—	—	1.6	—	NA	NA	NA	—
	04/14/93	NA	NA	NA	NA	1.3	—	—	12	—	—	—	1.5	—	NA	NA	NA	—
	06/30/93	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	09/24/93	NA	NA	NA	NA	—	—	—	5.4	—	—	—	—	—	NA	NA	NA	—
	01/06/94	—	—	—	—	—	—	—	5.2	—	—	—	0.68	—	NA	NA	NA	—
	04/14/94	NA	NA	NA	NA	—	—	—	3.7	—	—	—	0.52	—	NA	NA	NA	—
	06/30/94	NA	NA	NA	NA	—	—	—	2.8	—	—	—	0.50	—	NA	NA	NA	—
	10/26/94	—	—	—	—	—	—	—	2.7	—	—	—	—	—	—	—	—	—
	01/17/95	NA	NA	NA	NA	—	—	—	3.3	—	—	—	—	—	NA	NA	NA	—

THREE-3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Well	Date Sampled	B (1)	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCl ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-19	09/14/89	—	—	—	—	—	—	—	—	—	0.9	1	—	—	—	—	NA	—
	05/18/90	—	—	—	—	—	—	—	—	—	—	1.4	—	—	NA	—	NA	—
	09/07/90	—	—	—	—	—	—	—	6.8	—	—	1.5	—	—	—	—	NA	—
	01/24/91	NA	NA	NA	NA	—	—	—	5.9	—	—	—	1.7	—	NA	NA	NA	—
	04/29/91	NA	NA	NA	NA	—	—	—	4.2	—	—	—	1.9	—	NA	NA	NA	—
	08/05/91	—	—	—	—	—	—	—	2.4	—	—	3.2	—	—	NA	NA	NA	—
	11/11/91	NA	NA	NA	NA	—	—	—	3.7	—	—	2.8	—	—	NA	NA	NA	—
	01/30/92	—	—	—	—	—	—	—	2.9	—	—	3.6	—	—	NA	NA	NA	—
	08/28/92	—	—	—	—	—	—	—	1.5	—	—	2.0	—	—	NA	NA	NA	—
	01/25/93	—	—	—	—	—	—	—	8.9	—	—	1.5	—	—	NA	NA	NA	—
	07/09/93	—	—	—	—	—	—	—	5.9	—	—	0.8	—	—	NA	NA	NA	—
	01/16/94	—	—	—	—	—	—	—	7.1	—	—	—	—	—	NA	NA	NA	—
	06/30/94	NA	NA	NA	NA	—	—	—	9.3	—	0.95	—	—	—	NA	NA	NA	—
	01/25/95	NA	NA	NA	NA	—	—	—	9.7	—	—	—	—	—	NA	NA	NA	—
	09/14/89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	05/14/90	—	—	—	—	—	—	0.9	—	—	—	—	—	—	NA	NA	NA	—
	09/07/90	—	—	—	—	—	—	—	9.6	—	—	—	—	—	—	—	—	—
	01/24/91	NA	NA	NA	NA	—	—	—	9.8	—	—	—	—	—	NA	NA	NA	—
	04/29/91	NA	NA	NA	NA	—	—	—	8.9	—	—	—	—	—	NA	NA	NA	—
	08/14/91	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
MW-20	11/11/91	NA	NA	NA	NA	0.7	—	—	11	—	—	—	—	—	NA	NA	NA	—
	01/30/92	—	—	—	—	0.6	—	—	11	—	—	—	—	—	NA	NA	NA	—
	06/02/92	—	—	—	—	0.8	—	—	7.2	—	—	—	—	—	NA	NA	NA	—
	08/28/92	—	—	—	—	—	—	—	8.3	—	—	—	—	—	NA	NA	NA	—
	10/23/92	—	—	—	—	—	—	—	7.3	—	—	—	—	—	NA	NA	NA	—
	01/25/93	—	—	—	—	—	—	—	4.0	—	—	—	—	—	NA	NA	NA	—
	04/13/93	NA	NA	NA	NA	—	—	—	3.5	—	—	—	—	—	NA	NA	NA	—
	06/29/93	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	08/24/93	NA	NA	NA	NA	—	—	—	0.51	—	—	—	—	—	NA	NA	NA	—
	01/06/94	—	—	—	—	—	—	—	0.66	—	—	—	—	—	NA	NA	NA	—
	04/14/94	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	06/30/94	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	10/26/94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/17/95	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	09/08/89	—	—	—	—	—	—	—	—	—	1.6	—	—	—	—	—	—	—
	05/15/90	—	—	—	—	—	—	0.6	—	—	4.2	—	—	—	NA	NA	NA	—
	09/07/90	—	—	—	—	—	—	—	2.1	—	1.9	—	—	—	—	—	—	—
	01/23/91	NA	NA	NA	NA	—	—	—	0.8	—	2.4	—	—	—	NA	NA	NA	—
	04/25/91	NA	NA	NA	NA	—	—	—	4.7	—	2.5	—	—	—	NA	NA	NA	—
	08/07/91	—	—	—	—	—	—	—	0.9	—	5.1	—	—	—	NA	NA	NA	—
	11/11/91	NA	NA	NA	NA	—	—	—	—	—	4.8	—	—	—	NA	NA	NA	—
	01/30/92	—	—	—	—	—	—	—	2.7	—	5.1	—	—	—	NA	NA	NA	—
	08/28/92	—	—	—	—	—	—	—	0.6	—	4.0	—	—	—	NA	NA	NA	—
	01/29/93	—	—	—	—	—	—	—	1.3	—	2.0	—	—	—	NA	NA	NA	—
	07/08/93	NA	NA	NA	NA	—	—	—	—	—	2.4	—	—	—	NA	NA	NA	—
	01/16/94	—	—	—	—	—	—	1.0	6.1	—	1.4	—	—	—	NA	NA	NA	—
	07/07/94	NA	NA	NA	NA	—	—	—	1.9	—	2.2	—	—	—	NA	NA	NA	—
	02/04/95	NA	NA	NA	NA	—	—	1.4	15.0	—	—	3.0	—	—	NA	NA	NA	—
MW-21	09/14/89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	05/18/90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	09/07/90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/23/91	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	04/25/91	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	08/07/91	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	11/11/91	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/30/92	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	08/28/92	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/29/93	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	07/08/93	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/16/94	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	07/07/94	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	02/04/95	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	09/14/89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	05/18/90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	09/07/90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/23/91	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	—	—	—	—
	04/25/91	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	—	—	—	—
	08/07/91	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	11/11/91	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/30/92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	08/28/92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/29/93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	07/08/93	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/16/94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	07/07/94	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	—	—	—	—
	02/04/95	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	—	—	—	—

T
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1 ⁽¹⁾	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-22	09/08/89	—	—	—	—	—	—	—	—	—	3.0	—	—	—	—	—	NA	—
	02/07/90	—	—	—	—	—	—	—	—	—	0.9	—	—	—	NA	NA	NA	—
	05/15/90	—	—	—	—	—	—	—	—	—	5.0	—	—	—	NA	NA	NA	—
	09/07/90	—	—	—	—	—	—	—	—	—	2.6	—	—	—	—	—	NA	—
	01/23/91	NA	NA	NA	NA	—	—	—	—	—	5.2	—	—	—	NA	NA	NA	—
	04/25/91	NA	NA	NA	NA	—	—	—	—	—	4.8	—	—	—	NA	NA	NA	—
	08/14/91	—	—	—	—	—	—	—	—	—	3.9	—	—	—	NA	NA	NA	—
	01/30/92	—	—	—	—	—	—	—	—	—	5.8	—	—	—	NA	NA	NA	—
	01/29/93	—	—	—	—	—	—	—	—	—	1.5	—	—	—	NA	NA	NA	—
	01/16/94	—	—	—	—	—	—	—	—	—	2.0	—	—	—	NA	NA	NA	—
MW-23	09/08/89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	05/15/90	—	—	—	—	—	—	1.3	—	—	10	—	—	—	NA	NA	NA	—
	09/06/90	—	—	—	—	—	—	0.88	0.5	—	4.2	—	—	—	—	—	NA	—
	04/23/91	NA	NA	NA	NA	—	—	—	0.67	—	3.0	—	—	—	NA	NA	NA	—
	08/02/91	—	—	—	—	—	—	—	—	—	3.1	—	—	—	NA	NA	NA	—
	11/11/91	NA	NA	NA	NA	—	—	—	—	—	4.6	0.7	—	—	NA	NA	NA	—
	01/24/92	—	—	—	—	—	—	—	—	—	2.8	—	—	—	NA	NA	NA	—
	08/28/92	—	—	—	—	—	—	1.2	—	—	4.5	—	—	—	NA	NA	NA	—
	01/22/93	—	—	—	—	—	—	—	—	—	2.2	—	—	—	NA	NA	NA	—
	07/08/93	NA	NA	NA	NA	—	—	—	—	—	2.0	—	—	—	NA	—	NA	—
	01/16/94	—	—	—	—	—	—	0.54	—	—	2.0	—	—	—	NA	NA	NA	—
	07/13/94	NA	NA	NA	NA	—	—	0.71	0.76	—	1.5	—	—	—	NA	NA	NA	—
	02/04/95	NA	NA	NA	NA	—	—	—	—	—	—	2.7	—	—	NA	NA	NA	—
MW-24	09/08/89	—	—	—	—	—	—	—	—	—	2.8	—	—	—	—	—	NA	—
	05/15/90	—	—	—	—	—	—	—	—	—	11	—	—	—	NA	NA	NA	—
	09/06/90	—	—	—	—	—	—	—	—	—	4.1	—	—	—	—	—	NA	—
	09/06/90	—	—	—	—	—	—	—	—	—	4.1	—	—	—	—	—	NA	—
	08/11/91	—	—	—	—	—	—	—	—	—	3.2	—	—	—	NA	NA	NA	—
	01/24/92	—	—	—	—	—	—	—	—	—	2.5	—	—	—	NA	NA	NA	—
	01/22/93	—	—	—	—	—	—	—	—	—	1.7	—	—	—	NA	NA	NA	—
	01/16/94	—	—	—	—	—	—	—	—	—	0.90	—	—	—	NA	NA	NA	—
	02/04/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/11/89	—	4.1	—	—	—	—	1.0	—	—	0.9	—	—	—	—	—	NA	—
MW-25	02/07/90	—	—	—	—	—	—	1.3	7.6	—	1.1	—	—	—	NA	NA	NA	—
	05/16/90	—	—	—	—	—	—	1.3	—	—	1.1	—	—	—	—	—	NA	—
	09/12/90	—	—	—	—	—	—	1.5	3.1	—	1.3	—	—	—	—	—	NA	—
	01/29/91	NA	NA	NA	NA	—	—	1.3	2.3	—	1.1	—	—	—	NA	NA	NA	—
	04/24/91	NA	NA	NA	NA	—	—	2.1	2.5	—	1.4	—	—	—	NA	NA	NA	—
	08/02/91	—	—	—	—	0.6	—	3.0	5.8	—	1.6	—	—	—	NA	NA	NA	—
	01/23/92	—	—	—	—	2.1	—	6.9	8.7	—	2.2	—	—	—	NA	NA	NA	—
	09/01/92	—	—	—	—	4.4	—	14	22	—	2.8	—	0.65	—	NA	NA	NA	—
	01/27/93	—	—	—	—	2.2	—	10	6.3	0.77	1.6	—	—	—	NA	NA	NA	—
	07/08/93	NA	NA	NA	NA	2.8	—	12	—	—	2.4	—	—	—	NA	—	NA	—
	01/16/94	—	—	—	—	1.3	—	5.9	6.3	—	1.5	—	—	—	NA	NA	NA	—
	07/07/94	NA	NA	NA	NA	1.00	—	4.8	6.1	—	1.8	—	—	—	NA	NA	NA	—
	01/25/95	NA	NA	NA	NA	—	—	5.1	6.7	—	3.1	—	—	—	NA	NA	NA	—

SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995

ORGANIC COMPOUNDS (ug/l)

UNION PACIFIC RAILROAD YARD

SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1000	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-26	09/11/89	—	—	—	—	—	—	1.0	—	—	2.6	—	—	—	—	50	NA	—
	02/07/90	—	—	—	—	—	—	3.2	14	—	1.3	—	—	—	NA	NA	NA	—
	05/16/90	—	—	—	—	—	—	1.6	—	—	1.1	—	—	—	—	—	NA	—
	09/12/90	—	—	—	—	—	—	2.1	5	—	1.6	—	—	—	—	—	NA	—
	01/29/91	NA	NA	NA	NA	—	—	1.6	3.6	—	1.0	—	—	—	NA	NA	NA	—
	04/24/91	NA	NA	NA	NA	—	—	2.4	3.4	—	1.4	—	—	—	NA	NA	NA	—
	08/13/91	—	—	—	—	0.6	—	4.0	8.1	—	1.5	—	—	—	NA	NA	NA	—
	01/27/92	—	1.4	—	—	1.1	—	4.8	5.1	—	2.0	—	—	—	NA	NA	NA	—
	06/04/92	—	—	—	—	4.4	—	8.6	8.2	0.6	2.7	—	—	—	NA	NA	NA	—
	09/01/92	—	—	—	—	3.7	—	12	19	—	3.6	—	—	—	NA	NA	NA	—
	10/23/92	—	—	—	—	2.4	—	10	9.4	—	3.1	—	—	—	NA	NA	NA	—
	01/28/93	—	—	—	—	3.2	—	13	15	0.9	2.5	—	—	—	NA	NA	NA	—
	04/08/93	—	—	—	—	3.9	—	13	9.1	0.78	2.9	—	—	—	NA	NA	NA	—
	07/07/93	—	—	—	—	3.3	—	14	14	—	2.3	—	—	—	NA	NA	NA	—
	09/23/93	NA	NA	NA	NA	3.0	—	9.4	15	3.6	1.9	—	—	—	NA	NA	NA	—
	01/10/94	—	—	—	—	2.6	—	11	15	0.70	2.0	—	—	—	NA	NA	NA	—
	04/14/94	NA	NA	NA	NA	1.9	—	10	16	—	2.4	—	—	—	NA	NA	NA	—
	07/07/94	NA	NA	NA	NA	1.4	—	6.6	9.3	—	2.3	—	—	—	NA	NA	NA	—
	10/29/94	—	—	—	—	1.1	—	7.1	12	—	1.9	—	—	—	—	—	—	—
	01/17/95	NA	NA	NA	NA	1.4	—	8.2	12	—	3.5	—	—	—	NA	NA	NA	—
MW-27	09/15/89	—	—	—	—	—	—	—	—	—	5.5	—	—	—	—	—	NA	—
	05/21/90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—
	09/17/90	—	—	—	—	—	—	—	0.99	—	1.1	—	—	—	—	—	NA	—
	01/29/91	NA	NA	NA	NA	—	—	—	—	—	0.7	—	—	—	NA	NA	NA	—
	04/24/91	NA	NA	NA	NA	—	—	—	1.1	—	1.4	—	—	—	NA	NA	NA	—
	08/13/91	—	—	—	—	—	—	—	—	—	0.9	—	—	—	NA	NA	NA	—
	01/23/92	—	—	—	—	—	—	—	0.83	—	1.3	—	—	—	NA	NA	NA	—
	09/01/92	—	—	—	—	—	—	—	—	—	3.0	—	—	—	NA	NA	NA	—
	01/28/93	—	—	—	—	—	—	—	—	—	1.7	—	—	—	NA	NA	NA	—
	07/08/93	NA	NA	NA	NA	—	—	—	—	—	3.1	—	—	—	NA	—	NA	—
	01/16/94	—	—	—	—	—	—	0.76	1.1	—	2.4	—	—	—	NA	NA	NA	—
	07/07/94	NA	NA	NA	NA	—	—	2.2Js	2.4Js	—	2.2Js	—	—	—	NA	NA	NA	—
	01/23/95	NA	NA	NA	NA	—	—	3	4.7	—	3.4	—	—	—	NA	NA	NA	—

SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
 ORGANIC COMPOUNDS (ug/l)
 UNION PACIFIC RAILROAD YARD
 SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1 ⁽¹⁾	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-28	02/15/90	—	—	—	—	—	—	5.8	1	—	0.7	—	—	—	NA	—	NA	—
	05/21/90	—	—	—	—	—	—	9.5	—	—	—	—	—	—	—	—	NA	—
	09/19/90	—	—	—	—	—	—	9	4	—	—	—	—	—	—	—	NA	—
	02/01/91	—	—	—	—	—	—	13	4.3	—	—	—	—	—	NA	NA	NA	—
	04/30/91	—	—	—	—	—	—	8.1	3.9	—	—	—	—	—	NA	NA	NA	—
	08/13/91	—	—	—	—	—	—	13	—	—	—	—	—	—	NA	NA	NA	—
	11/05/91	—	—	—	—	—	—	14	9.4	—	—	—	—	—	NA	NA	NA	—
	01/30/92	—	—	—	—	—	—	17	24	—	—	—	—	—	NA	NA	NA	—
	05/28/92	—	—	—	—	—	—	9.5	6.0	—	—	—	—	—	NA	NA	NA	—
	08/31/92	—	—	—	—	—	—	20	31	—	—	—	—	—	NA	NA	NA	—
	10/22/92	—	—	—	—	—	—	18	21	—	—	—	—	—	NA	NA	NA	—
	01/13/93	—	—	—	—	—	—	13	22	—	—	—	—	—	NA	NA	NA	—
	04/12/93	—	—	—	—	—	—	12	11	—	—	—	—	—	NA	NA	NA	—
	06/30/93	—	—	—	—	—	—	4.1	—	—	—	—	—	—	NA	NA	NA	—
	09/28/93	—	—	—	—	—	—	8.6	8.7	—	—	—	—	—	NA	NA	NA	—
	01/11/94	—	—	—	—	—	—	5.9	4.2	—	—	—	—	—	NA	NA	NA	—
	04/25/94	—	—	—	—	—	—	10	17	—	—	—	—	—	NA	NA	NA	—
	07/01/94	—	—	—	—	—	—	4.6	4.2	—	—	—	—	—	NA	NA	NA	—
	10/31/94	—	—	—	—	—	—	6.3	7.0	—	—	—	—	—	—	—	—	—
	01/20/95	—	—	—	—	—	—	9	—	14	—	—	—	—	NA	NA	NA	—
MW-29	02/15/90	—	—	—	—	8.5	—	10	190	22	1.8	—	0.9	—	NA	50	NA	—
	04/23/90	—	—	—	—	5.0	—	14	72	16	1.2	—	0.87	—	NA	NA	NA	—
	05/25/90	6.2	—	—	—	4.6	—	4.1	8.6	14	—	—	—	—	—	—	NA	—
	09/06/90	—	—	—	—	3.2	—	4.4	38	11	1.3	—	0.76	1.3	—	—	NA	—
	02/01/91	—	—	—	—	—	—	1.9	33	4.7	—	—	—	—	NA	NA	NA	—
	04/30/91	—	—	—	—	—	—	2.4	16	6.6	0.57	—	—	0.68	NA	NA	NA	—
	08/07/91	—	—	—	—	1.3	—	4.5	29	11	0.9	—	0.9	1.0	NA	NA	NA	—
	11/05/91	—	—	—	—	1.4	—	3.7	21	7.1	1.0	—	0.8	1.1	NA	NA	NA	—
	01/30/92	—	—	—	—	0.7	—	2.0	26	5.2	1.2	—	0.7	1.5	NA	NA	NA	—
	05/29/92	—	—	—	—	1.1	—	4.3	19	—	0.8	—	1.2	—	NA	NA	NA	—
	08/31/92	—	—	—	—	0.91	—	3.9	27	7.9	1.3	—	0.8	—	NA	NA	NA	—
	10/22/92	—	—	—	—	0.87	—	2.3	18	6.1	0.56	—	—	—	NA	NA	NA	—
	01/14/93	—	—	—	—	—	—	1.1	13	3.2	—	—	—	—	—	—	NA	—
	04/12/93	—	—	—	—	—	—	1.2	5.0	3.0	—	—	0.51	—	NA	NA	NA	—
	06/30/93	—	—	—	—	—	—	—	—	2.3	—	—	—	—	NA	NA	NA	—
	09/28/93	—	—	—	—	—	—	0.81	8.8	2.6	—	—	0.66	—	NA	NA	NA	—
	01/11/94	—	—	—	—	—	—	0.73	7.9	2.3	—	—	0.68	—	NA	NA	NA	—
	04/25/94	—	—	—	—	—	—	1.1	9.0	2.7	2.0	—	—	1.6	NA	NA	NA	—
	07/01/94	—	—	—	—	—	—	0.73	3.6	1.6	4.0	—	0.59	3.7	NA	NA	NA	—
	10/31/94	—	—	—	—	—	—	—	3.4	1.5	1.7	—	—	1.3	—	—	—	—
	01/20/95	—	—	—	—	—	—	0.87	5	2.5	1.9	—	0.54	1.9	NA	NA	NA	—

SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995

ORGANIC COMPOUNDS (ug/l)

UNION PACIFIC RAILROAD YARD

SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1 ⁽¹⁾	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-30	02/15/90	—	—	—	—	4.5	2.3	18	820	—	1.5	—	4.8	—	NA	60	NA	—
	04/23/90	1.1	—	—	—	30.0	—	12	470	31	—	—	8.2	—	NA	NA	NA	—
	05/24/90	2.4	—	—	—	22.0	3	19	48	4.8	1.1	—	6.8	—	—	60	NA	—
	09/05/90	1.2	—	—	—	14.0	—	11	150	—	—	—	—	—	—	—	NA	—
	02/04/91	—	—	—	—	6.3	—	8.2	160	—	—	—	—	—	NA	NA	NA	—
	04/30/91	—	—	—	—	5.9	—	9.0	75	—	—	—	—	—	NA	NA	NA	—
	08/15/91	—	—	—	—	4.4	—	6.8	84	—	—	—	6.4	—	NA	NA	NA	—
	11/05/91	—	—	—	—	8.5	—	11	88	—	—	—	9.4	—	NA	NA	NA	—
	01/31/92	—	—	—	—	1.8	—	7.0	140	—	—	0.8	8.0	—	NA	NA	NA	—
	05/28/92	—	—	—	—	3.0	—	10	61	—	—	—	9.5	—	NA	NA	NA	—
	08/31/92	—	—	—	—	6.9	—	14	130	—	—	—	10	—	NA	NA	NA	—
	10/22/92	—	—	—	—	3.3	—	17	116	—	—	—	10	—	NA	NA	NA	—
	01/14/93	—	—	—	—	1.3	—	6.2	93	—	—	—	6.3	—	NA	NA	NA	—
	04/12/93	—	—	—	—	1.9	—	8.7	46	—	—	—	8.1	—	NA	NA	NA	—
	07/06/93	—	—	—	—	1.3	—	8.6	78	—	—	—	7.2	—	NA	NA	NA	—
	09/28/93	—	—	—	—	—	—	12	99	—	—	—	6.4	—	NA	NA	NA	—
	01/10/94	—	—	—	—	—	—	7.7	99	—	—	—	6.5	—	NA	NA	NA	—
	04/25/94	—	—	—	—	1.4	—	4.9	66	—	—	—	8.6	—	NA	NA	NA	—
	07/01/94	—	—	—	—	0.67	—	3.3	44	—	—	—	7.7	—	NA	NA	NA	—
	10/31/94	—	—	—	—	—	—	2.0	45	—	—	—	8.3	—	—	—	—	—
	01/27/95	—	—	—	—	1.2	—	2.0	31	—	—	—	8.6	—	NA	NA	NA	—
MW-31	05/24/90	1.1	—	—	—	39	2.7	22	54	0.6	1.7	—	10	—	—	60	NA	—
	09/19/90	0.63	—	—	—	20	—	15	160	—	—	—	7.6	—	—	—	NA	—
	02/01/91	—	—	—	—	—	—	7.6	150	—	—	—	—	—	NA	NA	NA	—
	05/01/91	—	—	—	—	5.9	—	12	110	—	—	—	7.3	—	NA	NA	NA	—
	08/15/91	—	—	—	—	6.2	—	10	120	—	—	—	6.6	—	NA	NA	NA	—
	11/22/91	—	—	—	—	6.3	—	17	140	—	—	0.62	9.3	—	NA	NA	NA	—
	01/31/91	—	—	—	—	4.3	0.6	16	310	—	0.6	1.1	12	—	NA	NA	NA	—
	05/28/92	—	—	—	—	3.5	—	10	130	—	—	—	12	—	NA	NA	NA	—
	08/31/92	—	—	—	—	5.5	—	9.6	170	—	—	—	10	—	NA	NA	NA	—
	10/21/92	—	—	—	—	—	—	7.5	121	—	—	—	11	—	NA	NA	NA	—
	01/21/93	—	—	—	—	2.1	—	8.5	82	—	—	—	12	—	NA	NA	NA	—
	04/12/93	—	—	—	—	1.7	—	4.2	46	—	—	—	8.2	—	NA	NA	NA	—
	07/07/93	—	—	—	—	1.7	—	5.3	43	—	—	0.71	14	—	NA	NA	NA	—
	09/28/93	—	—	—	—	—	—	—	50	—	—	—	—	—	NA	NA	NA	—
	01/11/94	—	—	—	—	—	—	—	54	—	—	—	7.8	—	NA	NA	NA	—
	04/26/94	—	—	—	—	0.65	—	2.5	53	—	—	0.89	11	—	NA	NA	NA	—
	07/01/94	—	—	—	—	0.50	—	1.6	40	—	—	—	9	—	NA	NA	NA	—
	10/31/94	—	—	—	—	0.78	—	2.0	40	—	—	—	11	—	—	—	—	—
	01/20/95	—	—	—	—	0.95	—	1.4	34	—	—	0.71	11	—	NA	NA	NA	—

SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
 ORGANIC COMPOUNDS (ug/l)
 UNION PACIFIC RAILROAD YARD
 SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1(1)	T 1000	X 1,750	E 650	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-32	05/24/90	—	—	—	—	20	0.9	21	45	—	0.9	0.6	13	—	—	60	NA	—
	09/19/90	—	—	—	—	15	—	18	180	—	—	—	11	—	—	—	NA	—
	02/01/91	—	—	—	—	—	—	6.1	130	—	—	—	5.0	—	NA	NA	NA	—
	05/01/91	—	—	—	—	6.4	—	11	160	—	—	—	11	—	NA	NA	NA	—
	08/16/91	—	—	—	—	5.2	—	7.5	140	—	—	—	8.8	—	NA	NA	NA	—
	11/22/91	—	—	—	—	4.0	—	7.4	88	—	—	—	8.9	—	NA	NA	NA	—
	01/29/92	—	—	—	—	3.3	—	8.7	240	—	—	0.9	16	—	NA	NA	NA	—
	05/29/92	—	—	—	—	3.9	—	8.6	90	—	—	—	15	—	NA	NA	NA	—
	09/04/92	—	—	—	—	—	—	7.1	155	—	—	—	11	—	NA	NA	NA	—
	10/22/92	—	—	—	—	—	—	—	98	—	—	—	11	—	NA	NA	NA	—
	01/26/93	—	—	—	—	1.2	—	4.5	58	—	—	—	8.9	—	NA	NA	NA	—
	04/15/93	—	—	—	—	2	—	3.1	47	—	—	—	9.6	—	NA	—	NA	—
	04/18/93	—	—	—	—	1.4	—	2.8	37	—	—	0.5	6.5	—	NA	—	NA	—
	04/23/93	—	—	—	—	1.6	—	3.1	40	—	—	—	6.9	—	NA	—	NA	—
	04/30/93	—	—	—	—	1.3	—	3.2	45	—	—	—	6.7	—	NA	NA	NA	—
	05/16/93	—	—	—	—	1.3	—	3.8	45	—	—	—	7.3	—	NA	—	NA	—
	05/14/93	—	—	—	—	—	—	3.6	44	—	—	—	6.9	—	NA	—	NA	—
	06/17/93	—	—	—	—	—	—	3.1	43	—	—	—	7.4	—	NA	—	NA	—
	07/12/93	—	—	—	—	0.72	—	2.6	46	—	—	—	5.9	—	NA	—	NA	—
	08/03/93	—	—	—	—	—	—	2.7	44	—	—	—	5.3	—	NA	—	NA	—
	09/10/93	—	—	—	—	0.90	—	2.8	38	—	—	—	5.1	—	NA	—	NA	—
	09/27/93	NA	NA	NA	NA	—	1.3	4.0	43	—	—	4.6	7.5	—	NA	NA	NA	—
	10/07/93	—	—	—	—	1.3	—	4.2	52	0.60	—	—	7.2	—	NA	—	NA	—
	11/08/93	—	—	—	—	1.4	—	4.0	49	0.70	—	—	7.2	—	NA	—	NA	—
	01/14/94	—	—	—	—	—	—	—	44	—	—	—	—	—	—	NA	—	—
	02/11/94	—	—	—	—	1.4	—	4.5	58	0.53	—	0.53	7.4	—	—	—	—	—
	03/02/94	—	—	—	—	1.2	—	4.3	41	0.70	—	—	7.2	—	—	—	—	—
	04/07/94	—	—	—	—	1.2	—	4.0	52	—	—	—	6.8	—	NA	—	NA	—
	05/05/94	—	—	—	—	0.67	—	3.7	33	—	—	—	6.5	—	—	—	—	—
	06/08/94	—	—	—	—	0.81	—	4.0	39	0.65	—	—	6.2	—	—	—	—	—
	07/08/94	—	—	—	—	1.0	—	3.8	44	0.98	—	—	4.9	—	NA	—	NA	—
	08/14/94	—	—	—	—	0.50	—	0.80	19	—	—	—	4.10	—	—	—	—	—
	10/10/94	—	—	—	—	0.86	—	2.0	26	—	—	—	6.3	—	—	—	—	—
	11/08/94	—	—	—	—	—	—	1.4	25	—	—	—	5.4	—	—	—	—	—
	12/07/94	—	—	—	—	0.93	—	4.2	39	—	—	—	6.5	—	—	—	—	—

T
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1 ⁽¹⁾	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-33	05/18/90	—	—	—	—	17	—	8.1	38	—	—	—	1.4	—	—	—	NA	—
	09/14/90	—	—	—	—	10	—	—	120	—	—	—	—	—	—	—	NA	—
	01/30/91	—	—	—	—	3.4	—	2.0	31	—	—	—	—	—	NA	NA	NA	—
	04/30/91	—	—	—	—	2.4	—	2.1	33	—	—	—	—	—	NA	NA	NA	—
	08/07/91	—	—	—	—	6.7	—	5.4	85	—	—	—	1.0	—	NA	NA	NA	—
	11/05/91	—	—	—	—	8.1	—	6.2	100	—	—	—	—	—	NA	NA	NA	—
	01/24/92	—	—	—	—	3.0	—	2.7	97	—	—	—	—	—	NA	NA	NA	—
	06/02/92	—	—	—	—	4.4	—	4.6	95	—	—	—	0.8	—	NA	NA	NA	—
	08/26/92	—	—	—	—	3.4	—	7.0	170	—	—	—	1.6	—	NA	NA	NA	—
	10/20/92	—	—	—	—	4.1	—	2.6	131	—	—	—	—	—	NA	NA	NA	—
	01/14/93	—	—	—	—	—	—	—	6.1	—	—	—	—	—	NA	NA	NA	—
	04/09/93	NA	NA	NA	NA	—	—	—	7.6	—	—	—	—	—	NA	NA	NA	—
	07/02/93	—	—	—	—	2.1	—	3.3	110	—	—	—	—	—	NA	NA	NA	—
	09/22/93	NA	NA	NA	NA	2.1	—	3.5	92	—	—	—	—	—	NA	NA	NA	—
	01/06/94	—	—	—	—	1.5	—	2.5	75	—	—	—	0.58	—	NA	NA	NA	—
	04/13/94	NA	NA	NA	NA	1.3	—	2.5	75	—	—	—	0.60	—	NA	NA	NA	—
	07/05/94	NA	NA	NA	NA	1.4Jh	NA	2.2Jh	87Jh	—	—	—	0.69Jh	—	NA	NA	NA	—
	10/26/94	—	—	—	—	0.67	—	1.60	66	—	—	—	—	—	—	—	—	—
	01/16/95	NA	NA	NA	NA	—	—	—	4.1	—	—	—	—	—	NA	NA	NA	—
MW-34	07/02/91	—	—	—	—	17	1.3	17.0	470	—	1.2	—	15	—	NA	NA	NA	—
	08/16/91	—	—	—	—	24	—	20.0	510	—	—	—	—	—	NA	NA	NA	—
	12/12/91	0.9	—	—	—	18	1.1	28.0	318	1.7	2.3	1.4	26	—	NA	NA	NA	—
	01/23/92	—	—	—	—	19	4.9	25.0	370	2.3	1.7	0.86	20	—	NA	NA	NA	—
	06/03/92	—	—	—	—	11	1.2	21	270	0.6	1.2	—	24	—	NA	NA	NA	—
	09/01/92	—	—	—	—	13	—	25	480	—	—	—	30	—	NA	NA	NA	—
	10/26/92	—	—	—	—	—	—	—	380	—	—	—	31	—	NA	NA	NA	—
	01/21/93	—	—	—	—	1.3	—	3.3	68	—	—	—	5.6	—	NA	NA	NA	—
	04/09/93	NA	NA	NA	NA	3.9	—	9.2	94	—	—	—	15	—	NA	NA	NA	—
	07/07/93	—	—	—	—	4.1	0.64	13	190	—	—	0.75	24	—	NA	NA	NA	—
	09/28/93	NA	NA	NA	NA	2.7	—	9.4	130	—	—	0.53	18	—	NA	NA	NA	—
	01/12/94	—	—	—	—	2.2UJF	—	8.7	120	—	—	0.54	17UJF	—	NA	NA	NA	—
	04/26/94	NA	NA	NA	NA	1.4	—	6.2	120	—	—	0.84	16	—	NA	NA	NA	—
	07/20/94	NA	NA	NA	NA	1.3	—	5.9	86	—	—	—	17	—	NA	NA	NA	—
	11/01/94	—	—	—	—	1.5	—	5.4	86	—	—	0.52	15	—	—	—	—	—
	02/01/95	NA	NA	NA	NA	—	—	3.4	47	—	—	—	12	—	NA	NA	NA	—

SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988-1995
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1(1)	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCl ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-35	07/02/91	—	—	—	—	6.8	—	4.8	220	—	0.7	—	3.8	—	NA	NA	NA	—
	08/08/91	—	—	—	—	40	—	41	880	—	—	—	19	—	NA	NA	NA	—
	12/12/91	—	—	—	—	2.6	—	2.8	92	—	1.9	0.7	2.6	—	NA	NA	NA	—
	01/23/92	—	—	—	—	5.4	—	5.8	140	—	1.0	—	3.9	—	NA	NA	NA	—
	06/01/92	—	—	—	—	2.4	—	2.4	49	—	0.8	—	4.8	—	NA	NA	NA	—
	09/01/92	—	—	—	—	5.8	—	—	135	—	—	—	—	—	NA	NA	NA	—
	10/26/92	—	—	—	—	—	—	—	94	—	—	—	5.8	—	NA	NA	NA	—
	01/21/93	—	—	—	—	1.3	—	2.8	58	—	—	—	3.7	—	NA	NA	NA	—
	04/09/93	NA	NA	NA	NA	1.2	—	1.2	36	—	—	—	2.7	—	NA	NA	NA	—
	07/07/93	—	—	—	—	1.2	—	1.5	45	—	—	—	4.7	—	NA	NA	NA	—
	09/28/93	NA	NA	NA	NA	0.72	—	0.78	32	—	—	—	3.0	—	NA	NA	NA	—
	01/12/94	—	—	—	—	0.66	—	0.52	27	—	—	—	3.1	—	NA	NA	NA	—
	04/26/94	NA	NA	NA	NA	—	—	—	10	—	—	—	2.2	—	NA	NA	NA	—
	07/20/94	NA	NA	NA	NA	—	—	—	7.6	—	—	—	2.0	—	NA	NA	NA	—
	11/01/94	—	—	—	—	—	—	—	3.6	—	—	—	1.5	—	—	—	—	—
MW-36	02/01/95	NA	NA	NA	NA	—	—	—	3.0	—	—	—	—	—	NA	NA	NA	—
	12/12/91	—	—	—	—	15	—	12	290	1.6	3.4	0.7	8.8	1.4	NA	NA	NA	—
	01/23/92	0.53	1.4	—	—	21	3.0	13	330	2.7	2.6	—	8.9	—	NA	NA	NA	—
	06/01/92	—	—	—	—	12	—	9.6	180	0.7	2.0	—	8.3	—	NA	NA	NA	—
	09/04/92	—	—	—	—	14	—	—	210	—	—	—	—	—	NA	NA	NA	—
	10/21/92	—	—	—	—	—	—	—	110	—	—	—	—	—	NA	NA	NA	—
	01/27/93	—	—	—	—	4.5	—	5.0	110	1.1	0.66	—	5.8	—	NA	NA	NA	—
	04/13/93	NA	NA	NA	NA	4.4	—	4.2	75	—	0.92	—	5.6	—	NA	NA	NA	—
	07/07/93	—	—	—	—	2.6	—	3.5	60	—	1.0	—	5.1	—	NA	NA	NA	—
	09/28/93	NA	NA	NA	NA	—	—	—	53	—	—	—	—	—	NA	NA	NA	—
	01/12/94	—	—	—	—	—	—	—	110	—	—	—	5.8	—	NA	NA	NA	—
	04/26/94	NA	NA	NA	NA	1.2	—	2.0	76	—	—	—	4.5	—	NA	NA	NA	—
	07/20/94	NA	NA	NA	NA	0.96	—	1.8	42	—	—	—	4.4	—	NA	NA	NA	—
	11/04/94	—	—	—	—	—	—	0.51	30	—	—	—	1.9	—	—	—	—	—
	01/31/95	NA	NA	NA	NA	—	—	1.4	53	—	—	—	4.0	—	NA	NA	NA	—
MW-37	12/12/91	—	—	—	—	1.0	—	3.6	9.3	7.1	4.6	0.6	0.6	1.3	NA	NA	NA	—
	01/23/92	—	—	—	—	—	—	4.4	8.5	9.7	3.1	—	—	1.8	NA	NA	NA	—
	06/01/92	—	—	—	—	—	—	2.6	6.0	6.2	3.8	—	0.5	1.5	NA	NA	NA	—
	09/04/92	—	—	—	—	0.95	—	3.6	16	7.4	4.2	—	—	1.4	NA	NA	NA	—
	10/21/92	—	—	—	—	1.1	—	2.9	13	4.9	2.5	—	—	0.84	NA	NA	NA	—
	01/27/93	—	—	—	—	—	—	2.7	9.2	5.5	2.3	—	—	0.61	NA	NA	NA	—
	04/13/93	NA	NA	NA	NA	—	—	2.9	8.0	6.5	3.9	—	—	0.99	NA	NA	NA	—
	07/07/93	—	—	—	—	—	—	2.8	7.9	5.8	3.1	—	—	0.78	NA	NA	NA	—
	09/28/93	NA	NA	NA	NA	0.55	—	3.2	16	5.8	2.8	—	0.50	0.84	NA	NA	NA	—
	01/12/94	—	—	—	—	—	—	3.7	20	6.2	2.4	—	0.57	0.61	NA	NA	NA	—
	04/26/94	NA	NA	NA	NA	—	—	3.1	20	7.7	2.5	—	—	0.55	NA	NA	NA	—
	07/20/94	NA	NA	NA	NA	0.51	—	4.3	31	7.2	2.7	—	0.75	0.57	NA	NA	NA	—
	11/04/94	—	—	—	—	—	—	5.0	40	9.5	2.5	—	0.98	—	—	—	—	—
	01/31/95	NA	NA	NA	NA	—	—	3.1	27	4.0	1.9	—	—	—	NA	NA	NA	—

TABLE 3

SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 - 1995

ORGANIC COMPOUNDS (ug/l)

UNION PACIFIC RAILROAD YARD

SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1 ⁽¹⁾	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-38	12/12/91	—	—	—	—	13	—	9.1	260	4.0	4.2	—	8.6	2.2	NA	NA	NA	—
	01/24/92	—	—	—	—	11	—	5.7	250	2.7	2.8	—	5.7	1.3	NA	NA	NA	—
	06/03/92	—	—	—	—	14	—	8.6	150	2.2	3.6	—	8.7	1.9	NA	NA	NA	—
	09/04/92	—	—	—	—	21	—	—	350	—	—	—	—	—	NA	NA	NA	—
	10/27/92	—	—	—	—	22	—	13	230	—	—	—	14	—	NA	NA	NA	—
	01/26/93	—	—	—	—	10	—	7.3	140	1.7	2.4	—	7.7	1.3	NA	NA	NA	—
	04/09/93	NA	NA	NA	NA	9.4	—	7.1	84	1.3	3.4	—	6.3	1.3	NA	NA	NA	—
	07/06/93	—	—	—	—	4.5	—	2.9	140	0.52	1.3	—	4.2	0.76	NA	NA	NA	—
	09/27/93	NA	NA	NA	NA	8.0	—	—	130	—	—	—	—	—	NA	NA	NA	—
	01/10/94	—	—	—	—	—	—	—	120	—	—	—	—	—	NA	NA	NA	—
	04/15/94	NA	NA	NA	NA	6.2	—	6.6	130	0.89	2.1 J	—	7.7	0.85	NA	NA	NA	—
	07/14/94	NA	NA	NA	NA	4.7	—	5.8	130	0.88	1.9	—	7.4	0.86	NA	NA	NA	—
	11/01/94	—	—	—	—	3.5	—	4.9	150	0.54	1.6	—	6.3	1.0	—	—	—	—
	01/24/95	NA	NA	NA	NA	—	4.0	6.1	140	—	2.2	—	7.3	—	NA	NA	NA	—
	06/28/91	—	—	—	—	0.6	—	—	0.7	2.9	4.0	—	—	1.8	NA	NA	NA	—
	08/06/91	—	—	—	—	0.6	—	1.0	1.0	2.1	3.3	—	—	2.4	NA	NA	NA	—
	12/12/91	—	—	—	—	1.0	—	1.2	3.2	2.5	4.9	0.6	—	2.4	NA	NA	NA	—
MW-39	01/24/92	—	—	—	—	0.7	—	0.8	4.1	1.6	3.1	—	—	1.4	NA	NA	NA	—
	06/03/92	—	—	—	—	1.1	—	1.3	4.1	1.6	3.1	—	—	2.0	NA	NA	NA	—
	09/04/92	—	—	—	—	1.6	—	1.7	12	1.8	4.2	—	—	2.8	NA	NA	NA	—
	10/21/92	—	—	—	—	1.6	—	1.2	7.7	—	2.3	—	—	1.8	NA	NA	NA	—
	01/27/93	—	—	—	—	1.4	—	1.6	11	1.6	2.7	—	—	1.9	NA	NA	NA	—
	04/09/93	NA	NA	NA	NA	1.7	—	1.5	10	1.1	2.7	—	0.83	1.7	NA	NA	NA	—
	07/06/93	—	—	—	—	1.4	—	1.5	18	0.92	2.0	—	—	1.4	NA	NA	NA	—
	09/27/93	NA	NA	NA	NA	2.0	—	2.0	20	0.95	2.5	—	0.73	1.4	NA	NA	NA	—
	01/12/94	—	—	—	—	2.3	—	2.6	34	1.3	2.5	—	—	1.1	NA	NA	NA	—
	04/15/94	NA	NA	NA	NA	2.5	—	2.8	34	1.2	2.6 JC	—	1.4	1.8	NA	NA	NA	—
	07/14/94	NA	NA	NA	NA	2.4	—	3.0	41	1.0	2.5	—	1.5	1.5	NA	NA	NA	—
	11/02/94	—	—	—	—	2.9	—	3.3	64	0.91	2.5	—	2.3	1.8	—	—	—	—
	01/19/95	—	—	—	—	2.9	—	4.1	70	1.7	2.9	—	2.5	1.6	NA	NA	NA	—
	06/28/91	—	—	—	—	4.0	—	19	110	—	—	—	46	—	NA	NA	NA	—
	08/15/91	—	—	—	—	3.8	—	15	140	—	—	—	30	—	NA	NA	NA	—
	11/22/91	—	—	—	—	2.4	—	12	95	—	—	—	27	—	NA	NA	NA	—
	01/29/92	—	—	—	—	4.2	—	25	190	—	0.6	—	40	—	NA	NA	NA	—
	05/29/92	—	—	—	—	5.2	—	25	170	—	0.6	—	38	—	NA	NA	NA	—
MW-40	08/31/92	—	—	—	—	8.4	—	35	370	—	—	—	52	—	NA	NA	NA	—
	10/22/92	—	—	—	—	6.9	—	—	220	29	—	—	49	—	NA	NA	NA	—
	01/26/93	—	—	—	—	3.3	—	27	170	—	—	—	32	—	NA	NA	NA	—
	04/13/93	NA	NA	NA	NA	3.7	—	26	120	—	—	—	38	—	NA	NA	NA	—
	07/15/93	NA	NA	NA	NA	1.7	—	17	110	—	—	—	16	—	NA	NA	NA	—
	09/27/93	NA	NA	NA	NA	—	—	15	120	—	—	16	—	—	NA	NA	NA	—
	01/11/94	—	—	—	—	—	—	11	100	—	—	16	—	—	NA	NA	NA	—
	04/25/94	NA	NA	NA	NA	0.87	—	11	120	—	—	—	12	—	NA	NA	NA	—
	06/30/94	NA	NA	NA	NA	0.81	—	10	93	—	—	—	13	—	NA	NA	NA	—
	11/01/94	—	—	—	—	1.8	—	17	160	—	—	—	21	—	—	—	—	—
	01/24/95	NA	NA	NA	NA	—	—	16	160	—	—	—	17	—	NA	NA	NA	—

SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 - 1995

ORGANIC COMPOUNDS (ug/l)

UNION PACIFIC RAILROAD YARD

SACRAMENTO, CALIFORNIA

Well	Date Sampled	B 1 ⁽¹⁾	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL ₄ 0.5	TPH NE	TPH/Gas NE	TPH/D NE	Vinyl Chloride
MW-41	06/28/91	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	08/12/91	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	11/05/91	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/31/92	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	05/26/92	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	08/25/92	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	10/20/92	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/20/93	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	06/30/93	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	09/22/93	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/07/94	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	04/13/94	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	07/05/94	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	10/26/94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/23/95	NA	NA	NA	NA	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
MW-42	06/28/91	—	—	—	—	11	—	110	340	—	20	—	4.0	—	NA	NA	NA	—
	08/08/91	6.3	—	—	—	420	8.1	370	1500	—	8.7	—	19.0	—	NA	NA	NA	—
	11/07/91	1.2	—	—	—	6.9	1.9	69	270	—	1.4	1.1	3.9	—	NA	NA	NA	—
	02/07/92	1.6	—	—	—	8.7	2.2	100	480	0.7	2.5	1.6	5.5	—	NA	NA	NA	—
	06/04/92	3.3	—	—	—	7.0	2.6	80	220	0.9	2.0	3.4	5.8	—	NA	NA	NA	—
	08/25/92	1.2	—	—	—	5.5	2.6	110	260	1.6	1.9	4.2	7.2	—	NA	NA	NA	—
	10/27/92	—	—	—	—	—	—	110	340	—	—	28	—	—	NA	NA	NA	—
	01/19/93	—	—	—	—	5.3	1.2	60	180	—	1.1	3.0	4.3	—	NA	NA	NA	—
	04/08/93	—	—	—	—	5.9	1.7	44	95	0.54	1.4	2.9	3.8	—	NA	NA	NA	—
	07/01/93	0.72	—	—	—	3.1	0.89	50	120	—	0.76	2.7	—	—	NA	NA	NA	—
	09/21/93	—	—	—	—	3.5	1.1	45	120	—	0.80	2.6	—	—	NA	NA	NA	—
	01/05/94	0.51	—	—	—	4.3	1.8	54	130	—	0.84	4.0	3.2	—	NA	NA	NA	—
	04/12/94	0.54	—	—	—	4.5	1.8	50	120	—	0.90	4.8	3.6	—	NA	NA	NA	—
	07/07/94	—	—	—	—	3.1	1.7	46	92	—	0.78	3.3	2.6	—	NA	NA	NA	—
	10/26/94	0.70	—	—	—	2.8	0.88	89	50	—	—	3.6	2.3	—	—	—	—	—
	01/13/95	0.65	—	—	—	4.3	2.9	61	110	—	1.1	5.2	3.5	—	NA	NA	NA	—
MW-43	06/28/91	—	—	—	—	—	—	330	33	—	—	—	—	—	NA	NA	NA	—
	08/16/91	—	—	—	—	—	—	200	21	—	—	—	—	—	NA	NA	NA	—
	11/07/91	—	—	—	—	—	2.0	170	30	1.9	—	0.6	2.5	—	NA	NA	NA	5.6
	02/07/92	—	—	—	—	0.7	2.2	220	45	2.3	—	1.4	4.3	—	NA	NA	NA	7.4
	06/02/92	—	—	—	—	—	2.5	210	32	2.5	—	—	4.7	—	NA	NA	NA	10.0
	08/25/92	0.6	—	—	—	—	1.9	260	—	2.0	—	1.1	5.4	—	NA	NA	NA	7.9
	10/22/92	—	—	—	—	—	—	240	28	—	—	—	—	—	NA	NA	NA	—
	01/19/93	—	—	—	—	—	1.0	110	24	1.1	—	0.9	2.8	—	NA	NA	NA	—
	04/08/93	—	—	—	—	—	3.3	210	33	3.2	—	1.0	4.9	—	NA	NA	NA	5.7
	07/01/93	—	—	—	—	—	—	—	25	—	—	—	—	—	NA	NA	NA	11.0
	09/21/93	0.70	—	—	—	—	2.8	220	23	2.8	—	0.98	—	—	NA	NA	NA	—
	01/05/94	—	—	—	—	—	1.0	290	25	—	—	—	3.7	—	NA	NA	NA	7.6
	04/12/94	0.55	—	—	—	—	4.3	310	43	3.9	—	1.3	7.4	—	NA	NA	NA	10.0
	07/13/94	—	—	—	—	—	3.3	260	37	2.9	—	1.0	6.2	—	NA	NA	NA	8.1
	10/26/94	0.52	—	—	—	—	2.1	200	15	2.2	—	1.4	6.4	—	—	—	—	9.2
	01/13/95	—	—	—	—	—	2.1	150	17	2.3	—	—	4.3	—	NA	NA	NA	3.8

THE

Well	Date Sampled	B	T	X	E	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,1-DCE	1,2-DCA	Chloroform	PCE	TCE	CCl ₄	TPH	TPH/Gas	TPH/D	Vinyl
		1 ⁽¹⁾	1000	1,750	680	200	32	5	6	0.5	100	5	5	0.5	NE	NE	NE	Chloride
MW-44	10/27/92	—	—	—	—	—	—	0.69	2.0	4.3	7.2	—	—	9.6	NA	NA	NA	—
	01/26/93	—	—	—	—	—	—	—	0.96	1.9	3.6	—	—	4.1	NA	NA	NA	—
	04/09/93	NA	NA	NA	NA	—	—	—	0.79	2.5	5.1	—	—	5.3	NA	NA	NA	—
	07/06/93	—	—	—	—	—	—	—	—	2.4	3.6	—	—	5.6	NA	NA	NA	—
	09/27/93	NA	NA	NA	NA	—	—	—	1.2	2.4	4.4	4.5	—	5.9	NA	NA	NA	—
	01/10/94	—	—	—	—	—	—	—	0.77	2.1	3.6	—	—	3.9	NA	NA	NA	—
	04/15/94	NA	NA	NA	NA	—	—	—	1.1	2.5	4.4 JC	—	—	6.1	NA	NA	NA	—
	07/14/94	NA	NA	NA	NA	—	—	—	1.2	1.9	4.0	—	—	4.9	NA	NA	NA	—
	11/01/94	—	—	—	—	—	—	—	—	1.7	2.8	—	—	5.1	—	—	—	—
01/24/95	NA	NA	NA	NA	—	—	—	—	—	3.6	—	—	4.7	NA	NA	NA	—	
MW-45	07/20/94	—	—	—	—	—	—	—	—	0.55	2.2	—	—	1.3	NA	NA	NA	—
	11/02/94	—	—	—	—	—	—	—	—	0.76	1.7	—	—	1.4	—	—	—	—
	01/18/95	—	—	—	—	—	—	—	—	—	2.2	—	—	1.4	NA	NA	NA	—
MW-46	07/20/94	—	—	—	—	—	—	—	—	—	2.6	—	—	0.89	NA	NA	NA	—
	11/01/94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	11/02/94	—	—	—	—	—	—	—	—	—	2.2	—	—	0.79	—	—	—	—
	01/24/95	—	—	—	—	—	—	—	—	—	3.1	—	—	—	NA	NA	NA	—
MW-47	07/21/94	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	11/94/94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	01/30/95	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
	01/31/95	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	NA	NA	—
MW-48	07/21/94	—	—	—	—	—	—	—	—	—	—	—	—	—	NA	—	—	—
	11/03/94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	02/08/95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—	430	NA

(1) – Values in shaded row are drinking water Maximum Contaminant Levels (MCL) established by DHS or EPA, whichever is more stringent.

NE - Not Established

+ - Detections of Benzene, Toluene, and Xylene appear to be due to field contamination. Analysis of duplicate sample showed no detections.

++ - Detections of Benzene, Toluene, Xylene, and Ethylbenzene appear to be due to field contamination.

Analysis of samples from other monitoring rounds were mostly non-detection for these constituents.

-- - Not Detected.

NA - Not Analyzed.

* - At or near detection limits.

UJf,UJh,Jc,Uz,Jh – See Table 9 for key to data qualifiers.

B — Benzene

T - Toluene

X - Xylene

E - Ethylbenzene

TCA - Trichloroethane

DCA - Dichloroethane

DCE - Dichloroethene

PCE - Tetrachloroethene

CCl_4 – Carbon Tetrachloride

TPH – Total Petroleum Hydrocarbons

TPH/gas – Total Petroleum Hydrocarbon as gasoline

TPH/D – Total Petroleum Hydrocarbon as diesel

TABLE 4
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
METALS
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

ANALYTE	MCL	SAMPLE	MW-07	MW-07	MW-11	MW-12	MW-13	MW-17	MW-19
		DATE QA	02/04/95	02/04/95 DUPLICATE SAMPLE	01/16/95	01/23/95	01/30/95	02/04/95	01/25/95
ARSENIC	50	-	-	-	-	-	36.0	-	-
CHROMIUM	50	11.0	10.0	32.0	-	-	-	-	-
LEAD	50	-	-	-	-	-	-	-	-
NICKEL	100	64.0	54.0	-	92.0	-	87.0	120.0	-

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. DATE refers to date sampled. - = Parameter not analyzed.

< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.

MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."

Lab flag/Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 4 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
METALS
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MW-21 02/04/95	MW-23 02/04/95	MW-24 02/04/95	MW-25 01/25/95	MW-26 01/17/95	MW-34 02/01/95	MW-36 01/31/95
ANALYTE	MCL						
ARSENIC	50	-	-	-	-	-	-
CHROMIUM	50	-	-	-	-	-	-
LEAD	50	-	-	-	-	-	-
NICKEL	100	110.0	170.0	100.0	150.0	100.0	45.0

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. DATE refers to date sampled. - = Parameter not analyzed.

< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.

MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."

Lab flag/Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 4 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
METALS
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

ANALYTE	MCL	SAMPLE DATE QA	MW-36	MW-37	MW-39	MW-40	MW-42	MW-43	MW-45
			01/31/95 DUPLICATE SAMPLE	01/31/95	01/19/95	01/24/95	01/13/95	01/13/95	01/18/95
ARSENIC	50	-	-	-	-	-	-	-	< 5.0
CHROMIUM	50	-	-	-	-	-	-	-	26.0
LEAD	50	-	-	-	-	-	-	-	< 3.0
NICKEL	100	50.0	< 5.0	71.0	51.0	50.0	260.0	38.0	

All units reported as ug/L (ppb)

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MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 4 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
METALS
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

ANALYTE	MCL	SAMPLE				
		DATE	QA	DATE	QA	DATE
		MW-46	MW-47	MW-47	RB-01	RB-02
		01/24/95	01/31/95	01/31/95	01/17/95	01/25/95
				DUPLICATE	RINSATE	RINSATE
				SAMPLE	BLANK	BLANK
ARSENIC	50	< 5.0	5.1	< 5.0	-	-
CHROMIUM	50	8.8	12.0	13.0	-	-
LEAD	50	< 3.0	< 3.0	< 3.0	-	-
NICKEL	100	59.0	< 5.0	< 5.0	< 5.0	< 5.0

All units reported as ug/L (ppb)

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< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 5 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MW-30 01/27/95	MW-31 01/20/95	MW-33 01/16/95	MW-34 02/01/95	MW-35 02/01/95	MW-36 01/31/95	MW-36 01/31/95 DUPLICATE SAMPLE	MW-37 01/31/95
ANALYTE	MCL							
CHLOROFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.90
CHLOROMETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CIS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
DIBROMOCHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
METHYLENE CHLORIDE	5.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TETRACHLOROETHENE	5.0	< 0.50	0.71	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRANS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRICHLOROETHENE	5.0	8.60	11.00	< 0.50	12.00	< 0.50	4.00	5.90
TRICHLOROFLUOROMETHANE	150.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
VINYL CHLORIDE	0.5	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 5 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MW-38 01/24/95	MW-39 01/19/95	MW-40 01/24/95	MW-41 01/23/95	MW-42 01/13/95	MW-43 01/13/95	MW-44 01/24/95	MW-45 01/18/95	
ANALYTE	MCL								
1,1,1-TRICHLOROETHANE	200.0	< 0.50	2.90	< 0.50	< 0.50	4.30	< 0.50	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	4.00	< 0.50	< 0.50	< 0.50	2.90	2.10	< 0.50	< 0.50
1,1-DICHLOROETHANE	5.0	6.10	4.10	16.00	< 0.50	61.00	150.00	< 0.50	< 0.50
1,1-DICHLOROETHENE	6.0	140.00	70.00	160.00	< 0.50	110.00	17.00	< 0.50	< 0.50
1,2-DICHLOROBENZENE	600.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHANE	0.5	< 0.50	1.70	< 0.50	< 0.50	< 0.50	2.30	< 0.50	< 0.50
1,2-DICHLOROETHENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	6.40	< 0.50	< 0.50
1,2-DICHLOROPROPANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 0.50	< 1.00	< 0.50	< 0.50	< 1.00	< 1.00	< 0.50	< 1.00
CARBON TETRACHLORIDE	0.5	< 0.50	1.60	< 0.50	< 0.50	< 0.50	< 0.50	4.70	1.40
CHLOROBENZENE	30.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

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Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 5 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MW-38 01/24/95	MW-39 01/19/95	MW-40 01/24/95	MW-41 01/23/95	MW-42 01/13/95	MW-43 01/13/95	MW-44 01/24/95	MW-45 01/18/95	
ANALYTE	MCL								
CHLOROFORM	100.0	2.20	2.90	< 0.50	< 0.50	1.10	< 0.50	3.60	2.20
CHLOROMETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CIS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
DIBROMOCHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
METHYLENE CHLORIDE	5.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TETRACHLOROETHENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	5.20	< 0.50	< 0.50	< 0.50
TRANS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRICHLOROETHENE	5.0	7.30	2.50	17.00	< 0.50	3.50	4.30	< 0.50	< 0.50
TRICHLOROFLUOROMETHANE	150.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
VINYL CHLORIDE	0.5	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.80	< 1.00	< 1.00

All units reported as ug/L (ppb)

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MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 5 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MW-46 01/24/95	MW-47 01/31/95	MW-47 01/31/95 DUPLICATE SAMPLE	RB-01 01/17/95 RINSATE BLANK	RB-02 01/25/95 RINSATE BLANK	RB-03 02/04/95 RINSATE BLANK	TB-01 01/13/95 TRIP BLANK	TB-02 01/17/95 TRIP BLANK
ANALYTE	MCL							
1,1,1-TRICHLOROETHANE	200.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHENE	6.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROBENZENE	600.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHANE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROPROPANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 1.00	< 1.00	< 1.00	< 0.50	< 1.00	< 1.00	< 1.00
CARBON TETRACHLORIDE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROBENZENE	30.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
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Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 5 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE		TB-03	TB-04	TB-05	TB-06	TB-07	TB-08	TB-09
DATE		01/19/95	01/23/95	01/25/95	01/27/95	01/30/95	02/01/95	02/04/95
QA		TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP
		BLANK	BLANK	BLANK	BLANK	BLANK	BLANK	BLANK
ANALYTE	MCL							
1,1,1-TRICHLOROETHANE	200.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHENE	6.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROBENZENE	600.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHANE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROPROPANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 0.50	< 0.50
CARBON TETRACHLORIDE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROBENZENE	30.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

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< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 5 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

ANALYTE	MCL	SAMPLE	TB-03	TB-04	TB-05	TB-06	TB-07	TB-08	TB-09
		DATE	01/19/95	01/23/95	01/25/95	01/27/95	01/30/95	02/01/95	02/04/95
		QA	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP
			BLANK	BLANK	BLANK	BLANK	BLANK	BLANK	BLANK
CHLOROFORM	100.0	<	0.50	<	0.50	<	0.50	<	0.50
CHLOROMETHANE	-	<	1.00	<	1.00	<	1.00	<	1.00
CIS-1,3-DICHLOROPROPENE	-	<	0.50	<	0.50	<	0.50	<	0.50
DIBROMOCHLOROMETHANE	100.0	<	0.50	<	0.50	<	0.50	<	0.50
METHYLENE CHLORIDE	5.0	<	1.00	<	1.00	<	1.00	<	1.00
TETRACHLOROETHENE	5.0	<	0.50	<	0.50	<	0.50	<	0.50
TRANS-1,3-DICHLOROPROPENE	-	<	0.50	<	0.50	<	0.50	<	0.50
TRICHLOROETHENE	5.0	<	0.50	<	0.50	<	0.50	<	0.50
TRICHLOROFLUOROMETHANE	150.0	<	1.00	<	1.00	<	1.00	<	1.00
VINYL CHLORIDE	0.5	<	1.00	<	1.00	<	1.00	<	1.00

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QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 6
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
AROMATIC COMPOUNDS (EPA METHOD 602)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

ANALYTE	MCL	SAMPLE		FB-01	FB-02	MW-12	MW-13	MW-14	MW-14	MW-28	MW-29	
		DATE		01/16/95	01/25/95	01/23/95	01/30/95	01/30/95	01/30/95	01/20/95	01/20/95	
		QA		FIELD	FIELD				DUPLICATE			
				BLANK	BLANK				SAMPLE			
BENZENE	1	<	0.50	<	0.50	<	0.50	2600.00	<	0.50	<	0.50
ETHYL BENZENE	680	<	0.50	<	0.50	<	0.50	180.00	<	0.50	<	0.50
TOLUENE	1000	<	0.50	<	0.50	<	0.50	99.00	<	0.50	<	0.50
XYLENE	1750	<	0.50	<	0.50	<	0.50	170.00	<	0.50	<	0.50

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
 < = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
 MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
 Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 6 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
AROMATIC COMPOUNDS (EPA METHOD 602)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	ANALYTE	MCL	MW-30	MW-31	MW-39	MW-42	MW-43	MW-45	MW-46	MW-47
			01/27/95	01/20/95	01/19/95	01/13/95	01/13/95	01/18/95	01/24/95	01/31/95
	BENZENE	1	< 0.50	< 0.50	< 0.50	0.65	< 0.50	< 0.50	< 0.50	< 0.50
	ETHYL BENZENE	680	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	TOLUENE	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	XYLENE	1750	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 6 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
AROMATIC COMPOUNDS (EPA METHOD 602)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

ANALYTE	SAMPLE		MW-47	RB-02	TB-01	TB-02	TB-03	TB-04	TB-05	TB-06	
	DATE		01/31/95	01/25/95	01/13/95	01/17/95	01/19/95	01/23/95	01/25/95	01/27/95	
	QA		DUPLICATE	RINSATE	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	
			SAMPLE	BLANK	BLANK	BLANK	BLANK	BLANK	BLANK	BLANK	
BENZENE	1	<	0.50	<	0.50	<	0.50	<	0.50	<	0.50
ETHYL BENZENE	680	<	0.50	<	0.50	<	0.50	<	0.50	<	0.50
TOLUENE	1000	<	0.50	<	0.50	<	0.50	<	0.50	<	0.50
XYLENE	1750	<	0.50	<	0.50	<	0.50	<	0.50	<	0.50

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.

< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.

MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."

Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 6 (cont.)
 1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
 AROMATIC COMPOUNDS (EPA METHOD 602)
 UNION PACIFIC RAILROAD YARD
 SACRAMENTO, CALIFORNIA

ANALYTE	SAMPLE		MCL		
	DATE	QA			
				TB-07	
				01/30/95	
				TRIP	
				BLANK	
BENZENE			1	<	0.50
ETHYL BENZENE			680	<	0.50
TOLUENE			1000	<	0.50
XYLENE			1750	<	0.50

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
 < = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
 MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
 Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 7
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
FIELD PARAMETERS, TPH GASOLINE, AND TPH DIESEL
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE	DATE	TEMPERATURE	EC-F	pH-F	TURBIDITY	TPH/GASOLINE	TPH/DIESEL
		degrees C	umhos/cm		ntu	ug/L (ppb)	ug/L (ppb)
FB-03	01/27/95	-	-	-	-	< 50	< 50
FB-04	02/08/95	-	-	-	-	<150	< 50
MW-02	01/13/95	66.7	676	7.40	0.49	-	-
MW-07	02/04/95	69.1	998	7.21	<10.00	-	-
MW-08	01/25/95	67.8	759	7.38	<10.00	-	-
MW-11	01/16/95	66.9	1047	7.30	0.61	-	-
MW-12	01/23/95	66.5	1216	7.72	<10.00	-	-
MW-13	01/30/95	66.5	871	6.01	<10.00	-	-
MW-14	01/30/95	67.0	1109	7.02	<10.00	-	-
MW-15	01/25/95	68.8	440	6.85	>11.00	-	-
MW-16	01/17/95	66.8	765	7.58	0.19	-	-
MW-17	02/04/95	66.2	438	7.68	-	-	-
MW-18	01/17/95	66.8	1014	7.72	0.37	-	-
MW-19	01/25/95	67.9	826	7.48	<10.00	-	-
MW-20	01/17/95	66.8	949	7.72	0.57	-	-
MW-21	02/04/95	69.1	857	7.53	8.91	-	-
MW-23	02/04/95	69.3	838	7.19	<10.00	-	-
MW-24	02/04/95	70.0	845	7.20	<10.00	-	-
MW-25	01/25/95	69.2	918	7.70	>11.00	-	-
MW-26	01/17/95	67.5	917	7.39	0.99	-	-
MW-27	01/23/95	67.1	936	7.69	<10.00	-	-
MW-28	01/20/95	66.4	1189	7.04	<10.00	-	-
MW-29	01/20/95	67.8	899	7.03	<10.00	-	-
MW-30	01/27/95	67.0	1063	6.91	<10.00	-	-
MW-31	01/20/95	67.1	1101	7.13	<10.00	-	-
MW-33	01/16/95	67.3	330	7.29	0.51	-	-
MW-34	02/01/95	69.1	1074	7.25	<10.00	-	-
MW-35	02/01/95	68.8	880	7.38	<10.00	-	-
MW-36	01/31/95	64.8	719	7.88	<10.00	-	-
MW-37	01/31/95	64.8	802	7.44	<10.00	-	-
MW-38	01/24/95	63.8	779	7.29	<10.00	-	-
MW-39	01/19/95	64.2	914	7.69	<10.00	-	-
MW-40	01/24/95	66.5	1141	7.39	<10.00	-	-
MW-41	01/23/95	66.1	829	7.56	<10.00	-	-
MW-42	01/13/95	68.5	648	7.41	1.67	-	-
MW-43	01/13/95	67.7	3120	7.17	6.91	-	-

DATE refers to date sampled.
- = Parameter not analyzed.

TABLE 7 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
FIELD PARAMETERS, TPH GASOLINE, AND TPH DIESEL
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE	DATE	TEMPERATURE	EC-F	pH-F	TURBIDITY	TPH/GASOLINE	TPH/DIESEL
		degrees C	umhos/cm		ntu	ug/L (ppb)	ug/L (ppb)
MW-44	01/24/95	64.6	737	7.60	<10.00	-	-
MW-45	01/18/95	65.9	772	7.56	<10.00	-	-
MW-46	01/24/95	65.4	661	6.99	<10.00	-	-
MW-47	01/31/95	64.6	869	7.79	<10.00	-	-
MW-48	02/08/95	65.8	1022	7.20	25.00	<150	430 Ja
P-10	02/08/95	65.8	1100	7.50	50.00	<150	< 50
P-11	01/27/95	66.6	984	7.57	<10.00	< 50	< 50

DATE refers to date sampled.

- = Parameter not analyzed.

TABLE 8
 1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
 TPH QUANTIFIED IDENTIFICATION (EPA METHOD 8015M)
 UNION PACIFIC RAILROAD YARD
 SACRAMENTO, CALIFORNIA

SAMPLE	DATE	QA	JET FUEL	KEROSENE	MINERAL SPIRITS	WASTE OIL
			ug/L (ppb)	ug/L (ppb)	ug/L (ppb)	ug/L (ppb)
FB-04	02/08/95	B	<50	<50	<150	<500
MW-48	02/08/95		<50	<50	<150	<500
P-10	02/08/95		<50	<50	<150	<500

B - Field Blank

TABLE 9
EXPLANATION OF DATA QUALIFIERS PRESENTED
IN THE TABLES OF ANALYTICAL RESULTS
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

KEY →	A	B	C
Example Data →	<	5.200	UJ

KEY

- A < Signifies that analyte level is less than indicated value.
- B Indicated value in units as noted in table footnote.
- C Data qualifier(s) assigned by data validation team.

Validation Data Qualifier Explanations

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- R The sample results are unreliable due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- UJ The analyte was not detected above the reported sample 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.
- c Calibration verification failure.
- f Field replicate or duplicate imprecision.
- l Laboratory control sample recovery failure.

TABLE 5
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA		FB-01 01/16/95 FIELD BLANK	FB-02 01/25/95 FIELD BLANK	MW-02 01/13/95	MW-07 02/04/95	MW-07 02/04/95 DUPLICATE SAMPLE	MW-08 01/25/95	MW-11 01/16/95	MW-12 01/23/95
ANALYTE	MCL								
1,1,1-TRICHLOROETHANE	200.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHANE	5.0	< 0.50	< 0.50	< 0.50	1.50	1.30	< 0.50	< 0.50	14.00
1,1-DICHLOROETHENE	6.0	< 0.50	< 0.50	< 0.50	8.30	7.80	< 0.50	12.00	40.00
1,2-DICHLOROBENZENE	600.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHANE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROPROPANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 1.00	< 1.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.00
CARBON TETRACHLORIDE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROBENZENE	30.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

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 Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 5 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA		FB-01 01/16/95 FIELD BLANK	FB-02 01/25/95 FIELD BLANK	MW-02 01/13/95	MW-07 02/04/95	MW-07 02/04/95 DUPLICATE SAMPLE	MW-08 01/25/95	MW-11 01/16/95	MW-12 01/23/95
ANALYTE	MCL								
CHLOROFORM	100.0	< 0.50	< 0.50	< 0.50	1.10	0.87	< 0.50	< 0.50	< 0.50
CHLOROMETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CIS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
DIBROMOCHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
METHYLENE CHLORIDE	5.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TETRACHLOROETHENE	5.0	< 0.50	< 0.50	< 0.50	1.80	7.00	3.00	< 0.50	< 0.50
TRANS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRICHLOROETHENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.00	4.80
TRICHLOROFLUOROMETHANE	150.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
VINYL CHLORIDE	0.5	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag/Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 5 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA		MW-13 01/30/95	MW-14 01/30/95	MW-14 01/30/95 DUPLICATE SAMPLE	MW-15 01/25/95	MW-16 01/17/95	MW-17 02/04/95	MW-18 01/17/95	MW-19 01/25/95
ANALYTE	MCL								
1,1,1-TRICHLOROETHANE	200.0	< 5.00	0.68	0.98	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHANE	5.0	24.00	14.00	17.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHENE	6.0	89.00	66.00	69.00	< 0.50	< 0.50	< 0.50	3.30	9.70
1,2-DICHLOROBENZENE	600.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHANE	0.5	32.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHENE	-	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROPROPANE	5.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 10.00	< 1.00	< 1.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CARBON TETRACHLORIDE	0.5	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROBENZENE	30.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 10.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 5 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	ANALYTE	MCL	MW-13	MW-14	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19
			01/30/95	01/30/95	01/30/95 DUPLICATE SAMPLE	01/25/95	01/17/95	02/04/95	01/17/95	01/25/95
	CHLOROFORM	100.0	< 5.00	< 0.50	< 0.50	< 0.50	0.55	< 0.50	< 0.50	< 0.50
	CHLOROMETHANE	-	< 10.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	CIS-1,3-DICHLOROPROPENE	-	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	DIBROMOCHLOROMETHANE	100.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	METHYLENE CHLORIDE	5.0	< 10.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	TETRACHLOROETHENE	5.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	TRANS-1,3-DICHLOROPROPENE	-	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	TRICHLOROETHENE	5.0	12.00	4.80	5.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	TRICHLOROFLUOROMETHANE	150.0	< 10.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	VINYL CHLORIDE	0.5	< 10.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 5 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MW-20 01/17/95	MW-21 02/04/95	MW-23 02/04/95	MW-25 01/25/95	MW-26 01/17/95	MW-27 01/23/95	MW-28 01/20/95	MW-29 01/20/95
ANALYTE	MCL							
1,1,1-TRICHLOROETHANE	200.0	< 0.50	< 0.50	< 0.50	< 0.50	1.40	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHANE	5.0	< 0.50	1.40	< 0.50	5.40	8.20	3.00	9.00
1,1-DICHLOROETHENE	6.0	< 0.50	15.00	< 0.50	6.70	12.00	4.70	< 0.50
1,2-DICHLOROBENZENE	600.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHANE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	14.00
1,2-DICHLOROETHENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROPROPANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.00
CARBON TETRACHLORIDE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROBENZENE	30.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

TABLE 5 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MW-20 01/17/95	MW-21 02/04/95	MW-23 02/04/95	MW-25 01/25/95	MW-26 01/17/95	MW-27 01/23/95	MW-28 01/20/95	MW-29 01/20/95	
ANALYTE	MCL								
CHLOROFORM	100.0	< 0.50	< 0.50	< 0.50	3.10	3.50	3.40	< 0.50	1.90
CHLOROMETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CIS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
DIBROMOCHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
METHYLENE CHLORIDE	5.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TETRACHLOROETHENE	5.0	< 0.50	3.00	2.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRANS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRICHLOROETHENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.54
TRICHLOROFLUOROMETHANE	150.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
VINYL CHLORIDE	0.5	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag/Validation qualifier. See Table 9 for key to data qualifiers.

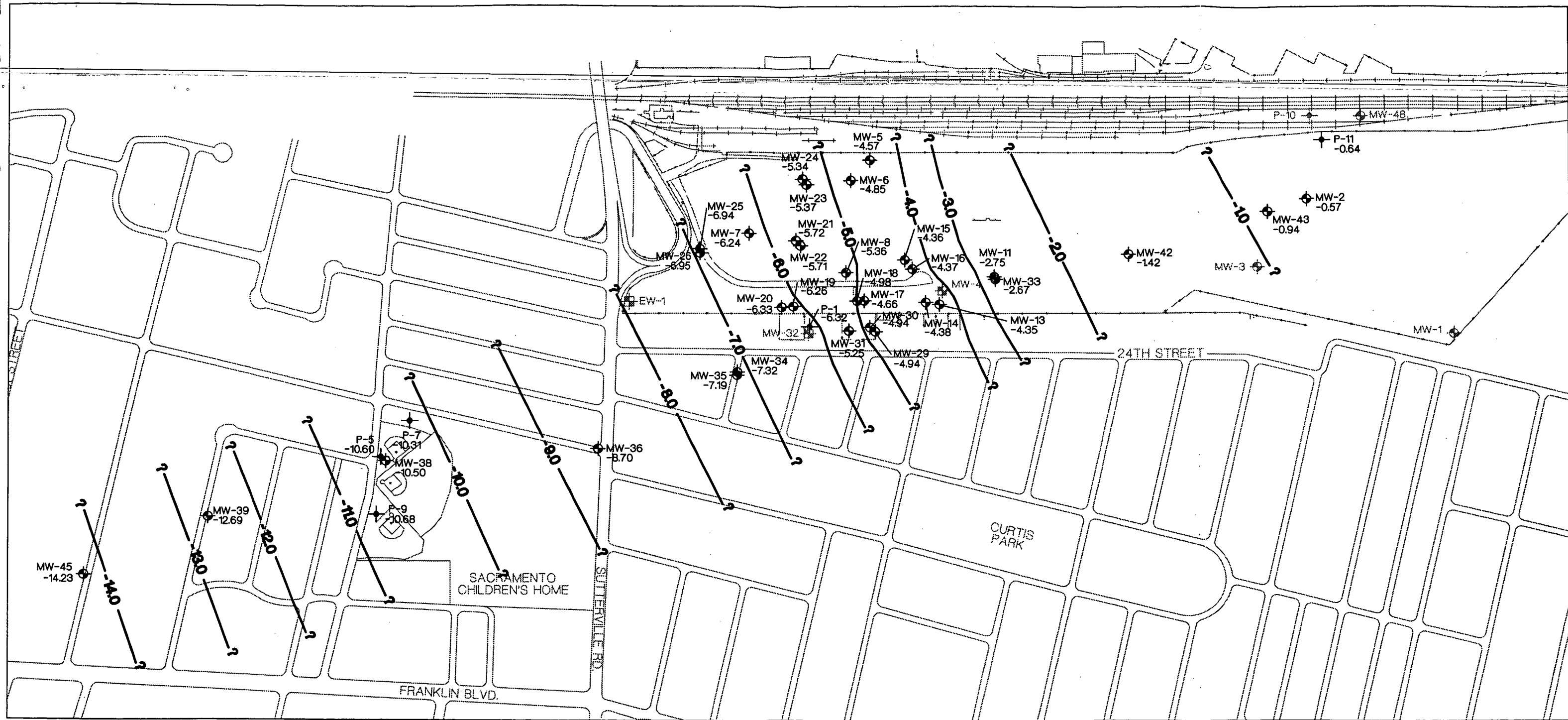
TABLE 5 (cont.)
1995 FIRST QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MW-30 01/27/95	MW-31 01/20/95	MW-33 01/16/95	MW-34 02/01/95	MW-35 02/01/95	MW-36 01/31/95	MW-36 01/31/95 DUPLICATE SAMPLE	MW-37 01/31/95
ANALYTE	MCL							
1,1,1-TRICHLOROETHANE	200.0	1.20	0.95	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHANE	5.0	2.00	1.40	< 0.50	3.40	< 0.50	1.40	2.40
1,1-DICHLOROETHENE	6.0	31.00	34.00	4.10	47.00	3.00	53.00	48.00
1,2-DICHLOROBENZENE	600.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHANE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.00
1,2-DICHLOROETHENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROPROPANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 1.00	< 1.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CARBON TETRACHLORIDE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROBENZENE	30.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 9 for key to data qualifiers.

FIGURES



EXPLANATION

- Fence Line
- ⊕ Monitoring Well Locations
- ⊕ Extraction Well Locations
- ⊕ Piezometer Locations
- 10--- Approximate Groundwater Contour
- 14.23 Groundwater Elevation for First Hydrostratigraphic Zone Wells in Feet MSLD
- ⊕ First Hydrostratigraphic Zone Wells or Piezometers not Measured

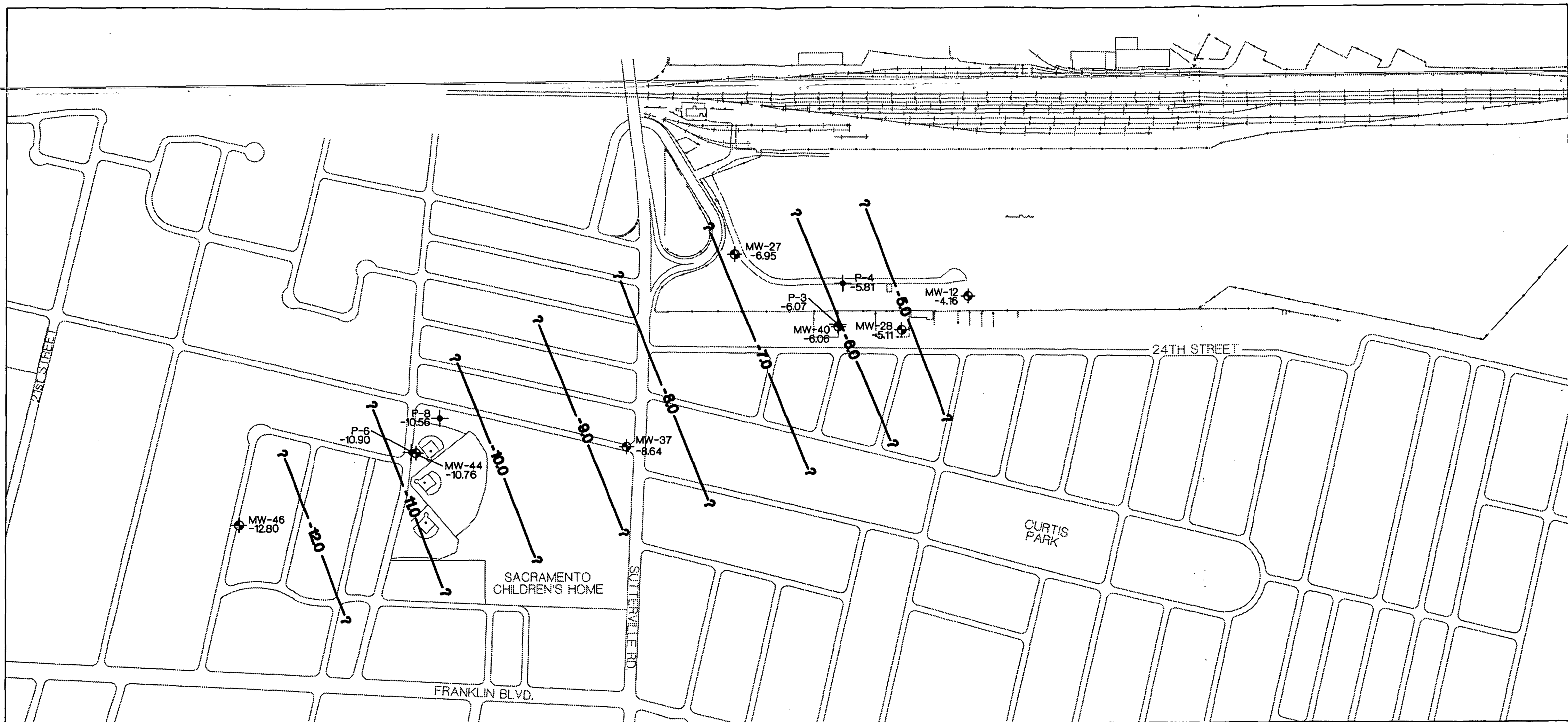
0 400
Scale in Feet

**FIRST HYDROSTRATIGRAPHIC ZONE
GROUNDWATER CONTOURS**

JANUARY 1995

Union Pacific Railroad Yard
Sacramento, California

FIGURE 1



EXPLANATION

- Fence Line
- ⊕ Monitoring Well Locations
- ⊞ Extraction Well Locations
- ⊕ Piezometer Locations
- 5.0--- Approximate Groundwater Contour
- 8.64 Groundwater Elevation for Second Hydrostratigraphic Zone Wells in Feet MSLD

0 400
Scale in Feet

N

SECOND HYDROSTRATIGRAPHIC CONTOURS GROUNDWATER CONTOURS

JANUARY 1995

Union Pacific Railroad Yard
Sacramento, California

FIGURE 2

Data
Reports

Rebours
Carter



3700 Lakeville Highway, Petaluma, CA 94954
Telephone: (707) 763-8245
FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

January 27, 1995

Customer Project: 00173-080-044 UPRR, Sacramento
Laboratory Job: L9501098

On January 17, 1995 we received 7 sample(s) for analysis.
Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 601/SW 8010A)

Halogenated & Aromatic Vols (EPA 601&602/SW 8010A&8020A)

Chromium (EPA 7191)

Nickel (EPA 7521)

Donna Denney
Project Manager

Robert A. Peak
Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-2
Lab Id: L9501098-1

Collected: 13-JAN-95
Received: 17-JAN-95
Reported: 27-JAN-95

Parameter	Value	REL	Units	Extracted	Analyzed
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromoform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromomethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloroethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Chloroform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Methylene Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trichloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95

Surrogate:

4-Bromofluorobenzene

94.2

%

24-JAN-95 24-JAN-95

Comments:

None

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-43
Lab Id: L9501098-2

Collected: 13-JAN-95
Received: 17-JAN-95
Reported: 27-JAN-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Metals by Graphite Furnace/Cold Vapor/Flame AA

Nickel - EPA 7521	0.26	1.0	mg/L	18-JAN-95	18-JAN-95
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8010/8020

Benzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromodichloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromoform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromomethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloroethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Chloroform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethane	150	5.0	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethane	2.3	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethene	17.	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethene (Total)	6.4	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Ethyl Benzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Methylene Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Toluene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,2-Trichloroethane	2.1	0.50	ug/L	24-JAN-95	24-JAN-95
Trichloroethene	4.3	0.50	ug/L	24-JAN-95	24-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Vinyl Chloride	3.8	1.0	ug/L	24-JAN-95	24-JAN-95
Xylenes (Total)	ND <	0.50	ug/L	24-JAN-95	24-JAN-95

Surrogate:

4-Bromofluorobenzene (8010)	91.7	-	%	24-JAN-95	24-JAN-95
4-Bromofluorobenzene (8020)	95.0	-	%	24-JAN-95	24-JAN-95

Comments:

None.

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-42
Lab Id: L9501098-3

Collected: 13-JAN-95
Received: 17-JAN-95
Reported: 27-JAN-95

Parameter	Value	BDL	Units	Extracted	Analyzed
Metals by Graphite Furnace/Cold Vapor/Flame AA					
Nickel - EPA 7521	0.050	0.0050	mg/L	18-JAN-95	18-JAN-95
8010/8020					
Benzene	0.65	0.50	ug/L	24-JAN-95	24-JAN-95
Bromodichloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromoform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromomethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloroethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Chloroform	1.1	0.50	ug/L	24-JAN-95	24-JAN-95
Chloromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethane	61.	5.0	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethene	110	5.0	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Ethyl Benzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Methylene Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Tetrachloroethene	5.2	0.50	ug/L	24-JAN-95	24-JAN-95
Toluene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,1-Trichloroethane	4.3	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,2-Trichloroethane	2.9	0.50	ug/L	24-JAN-95	24-JAN-95
Trichloroethene	3.5	0.50	ug/L	24-JAN-95	24-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Xylenes (Total)	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene (8010)	94.7	-	%	24-JAN-95	24-JAN-95
4-Bromofluorobenzene (8020)	96.5	-	%	24-JAN-95	24-JAN-95
Comments:	None.				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-33
Lab Id: L9501098-4

Collected: 16-JAN-95
Received: 17-JAN-95
Reported: 27-JAN-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromoform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromomethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloroethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Chloroform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethene	4.1	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Methylene Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trichloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95

Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	86.3	-	%	24-JAN-95	24-JAN-95

Comments: None

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: MW-11
 Lab Id: L9501098-5

Collected: 16-JAN-95
 Received: 17-JAN-95
 Reported: 27-JAN-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Metals by Graphite Furnace/Cold Vapor/Flame AA					
Chromium - EPA 7191	0.032	0.0050	mg/L	18-JAN-95	18-JAN-95
Volatile Halogenated Hydrocarbons					
Bromodichloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromoform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromomethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloroethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Chloroform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethene	12.	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Methylene Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trichloroethene	3.0	0.50	ug/L	24-JAN-95	24-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	93.0	-	%	24-JAN-95	24-JAN-95
Comments:	None	-	-	-	-

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: FB-1
Lab Id: L9501098-6

Collected: 16-JAN-95
Received: 17-JAN-95
Reported: 27-JAN-95

Parameter	Value	RDL	Units	Extracted	Analyzed
8010/8020					
Benzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromodichloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromoform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromomethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloroethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Chloroform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Ethyl Benzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Methylene Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Toluene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trichloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Xylenes (Total)	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene (8010)	94.7	-	%	24-JAN-95	24-JAN-95
4-Bromofluorobenzene (8020)	95.9	-	%	24-JAN-95	24-JAN-95
Comments:	None.				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: TB-1
Lab Id: L9501098-7

Collected: 13-JAN-95
Received: 17-JAN-95
Reported: 27-JAN-95

Parameter	Value	RDL	Units	Extracted	Analyzed
8010/8020					
Benzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromodichloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromoform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Bromomethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloroethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Chloroform	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Chloromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1-Dichloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Ethyl Benzene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Methylene Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Toluene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trichloroethene	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	24-JAN-95	24-JAN-95
Xylenes (Total)	ND <	0.50	ug/L	24-JAN-95	24-JAN-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene (8010)	90.0	-	%	24-JAN-95	24-JAN-95
4-Bromofluorobenzene (8020)	92.5	-	%	24-JAN-95	24-JAN-95
Comments:	None.				

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 Fax: (707) 763-4065

L9501098

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name DAMES & MOORE Phone (916) 387-8800
Address 8801 FOLSOM BLVD
City, State, Zip SACRAMENTO, CA. 95826

Client's or Representative's Signature _____
(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO.		PROJECT NAME																	
00173-080		ULP SACRAMENTO																	
SAMPLERS (Signature)																			
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS													
2	1-13-95	1338			MW-2	3	✓												
43	1	1507			MW-43	5	✓		✓										
42	✓	1552			MW-42	5	✓		✓										
33	1-16-95	1140			MW-33	4	✓												
11	1	1503			MW-11	5	✓	✓											
FB-1	✓	1000			Field Blank	4	✓												
TR-1	1-15-95	0800			Travel Blank	4	✓												
SAMPLES RECEIVED IN GOOD CONDITION NO BROKEN OR LEAKING CONTAINERS COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐ COOLER TEMPERATURE <u>COOL</u> °C																			
27VOA + 31-2 <u>Lab Poly</u>																			
Relinquished by: (Signature)		DATE		TIME		Received by: (Signature)		General Remarks:											
<u>[Signature]</u>		1-16-95		1730		<u>FedX #3084125284</u>		Metals samples are field filtered & preserved w/ HNO3											
Relinquished by: (Signature)		DATE		TIME		Received by: (Signature)		601/602 Samples preserved w/ HCl											
<u>[Signature]</u>						<u>[Signature]</u>		Send results to TONY MINOYING											
Relinquished by: (Signature)		DATE		TIME		Received by: (Signature)													

PART ONE - CLIENT COPY



3700 Lakeville Highway, Petaluma, CA 94954

Telephone: (707) 763-8245

FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

February 3, 1995

Customer Project: 00173-080-044 UPRR, Sacramento
Laboratory Job: L9501131

On January 19, 1995 we received 7 sample(s) for analysis.
Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 601/SW 8010A)

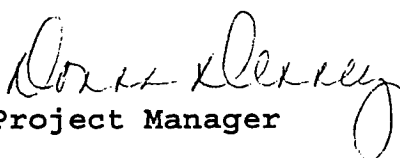
Halogenated & Aromatic Vols (EPA 601&602/SW 8010A&8020A)

Arsenic (EPA 7060)

Chromium (EPA 7191)

Nickel (EPA 7521)

Lead (EPA 7421)


Project Manager


Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-16
Lab Id: L9501131-1

Collected: 17-JAN-95
Received: 19-JAN-95
Reported: 27-JAN-95

Parameter	Value	REL	Units	Extracted	Analyzed
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromoform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromomethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloroethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Chloroform	0.55	0.50	ug/L	25-JAN-95	25-JAN-95
Chloromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Methylene Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95

Surrogate:

4-Bromofluorobenzene	84.8	-	%	25-JAN-95	25-JAN-95
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Comments:

None

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044 UPRR, Sacramento

Sample Id: MW-18

Lab Id: L9501131-2

Collected: 17-JAN-95

Received: 19-JAN-95

Reported: 27-JAN-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Volatile Halogenated Hydrocarbons					
Bromodichloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromoform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromomethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloroethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Chloroform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethene	3.3	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Methylene Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	78.4	-	%	25-JAN-95	25-JAN-95
Comments:	None	-	-	-	-

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-20
Lab Id: L9501131-3

Collected: 17-JAN-95
Received: 19-JAN-95
Reported: 27-JAN-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
Bromoform	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
Bromomethane	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
Chlorobenzene	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
Chloroethane	ND <	1.0	ug/L	26-JAN-95	26-JAN-95
Chloroform	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
Chloromethane	ND <	1.0	ug/L	26-JAN-95	26-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
1,1-Dichloroethane	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
1,1-Dichloroethene	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
Methylene Chloride	ND <	1.0	ug/L	26-JAN-95	26-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
Trichloroethene	ND <	0.50	ug/L	26-JAN-95	26-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	26-JAN-95	26-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	26-JAN-95	26-JAN-95

Surrogate:

4-Bromofluorobenzene

89.8

%

26-JAN-95

26-JAN-95

Comments:

None

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-26
Lab Id: L9501131-4

Collected: 17-JAN-95
Received: 19-JAN-95
Reported: 03-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Graphite Furnance AA					
Nickel - EPA 7521	0.10	0.025	mg/L	24-JAN-95	26-JAN-95
Volatile Halogenated Hydrocarbons					
Bromodichloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromoform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromomethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloroethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Chloroform	3.5	0.50	ug/L	25-JAN-95	25-JAN-95
Chloromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethane	8.2	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethene	12.	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Methylene Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,1-Trichloroethane	1.4	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
-	-	-	-	-	-
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	92.4	-	%	25-JAN-95	25-JAN-95
-	-	-	-	-	-
Comments:	None	-	-	-	-
-	-	-	-	-	-

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: ER-01
Lab Id: L9501131-5

Collected: 17-JAN-95
Received: 19-JAN-95
Reported: 03-FEB-95

Parameter	Value	REL	Units	Extracted	Analyzed
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Graphite Furnance AA

Nickel - EPA 7521	ND <	0.0050	mg/L	24-JAN-95	25-JAN-95
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromoform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromomethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloroethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Chloroform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Methylene Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95

Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	89.8	-	%	25-JAN-95	25-JAN-95

Comments:	None
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D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: MW-45
 Lab Id: L9501131-6

Collected: 18-JAN-95
 Received: 19-JAN-95
 Reported: 03-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Graphite Furnance AA					
Arsenic- EPA 7060	ND <	0.0050	mg/L	24-JAN-95	25-JAN-95
Chromium - EPA 7191	0.026	0.0050	mg/L	24-JAN-95	30-JAN-95
Lead - EPA 7421	ND <	0.0030	mg/L	24-JAN-95	25-JAN-95
Nickel - EPA 7521	0.038	0.0050	mg/L	24-JAN-95	25-JAN-95
8010/8020					
Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromodichloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromoform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromomethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Carbon Tetrachloride	1.4	0.50	ug/L	25-JAN-95	25-JAN-95
Chlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloroethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Chloroform	2.2	0.50	ug/L	25-JAN-95	25-JAN-95
Chloromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Ethyl Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Methylene Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Toluene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Xylenes (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene (8010)	103.	-	%	25-JAN-95	25-JAN-95
4-Bromofluorobenzene (8020)	102.	-	%	25-JAN-95	25-JAN-95
Comments:	None.	-	-	-	-

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: TB-2
Lab Id: L9501131-7

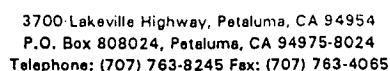
Collected: 17-JAN-95
Received: 19-JAN-95
Reported: 27-JAN-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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8010/8020

Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromodichloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromoform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromomethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloroethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Chloroform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Ethyl Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Methylene Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Toluene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Xylenes (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene (8010)	92.9	-	%	25-JAN-95	25-JAN-95
4-Bromofluorobenzene (8020)	95.8	-	%	25-JAN-95	25-JAN-95

Comments: None.



SAMPLE CHAIN OF CUSTODY / WORK ORDER

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJECT NO. 00173-080		PROJECT NAME UP SACRAMENTO										REMARKS		LAB USE ONLY LAB NO.	
SAMPLERS (Signature) <i>Dag Fernald</i>						NO. OF CON- TAINERS									
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION										
16	1-17-95	1110			MW-16	3	✓								
18	"	1250			MW-18	3	✓								
20	"	1403			MW-20	3	✓								
26	"	1516			MW-26	4	✓		✓						
ER-1	"	1600			EQUIPMENT RINSE	4	✓		✓						
45	1-18-95	1405			MW-45	5	✓	✓	✓	✓	✓	✓			
TB-2	1-17-95	0710			TRIP BLACK	4	✓	✓							
SAMPLES RECEIVED IN GOOD CONDITION NO BROKEN OR LEAKING CONTAINERS															
COOLER CUSTODY SEALS INTACT ☒ NOT INTACT ☐															
COOLER TEMPERATURE <u>5 °C</u>															
3 - 1L poly, 23 JOA 40mL															
Relinquished by: (Signature) <i>Dag Fernald</i>		DATE 1-18-95	TIME	Received by: (Signature) <i>Jed X #205417512</i>		General Remarks: <i>Metals samples are field Altered & preserved w/ HNO₃ ⇒ 601/602 Samples preserved w/ HCl ⇒ Send results to Tony Munding (SACB OFFICE)</i>									
Relinquished by: (Signature)		DATE 1-19-JAN 95	TIME 0956	Received by: (Signature) <i>K.V. Sanchez-L.</i>											
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)											

PART ONE - CLIENT COPY



3700 Lakeville Highway, Petaluma, CA 94954
Telephone: (707) 763-8245
FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

January 30, 1995

Customer Project: 00173-080-044 UPRR, Sacramento
Laboratory Job: L9501165

On January 21, 1995 we received 5 sample(s) for analysis.
Samples were analyzed by the following method(s):

Halogen. & Aromatic Volatiles (EPA 8010A/8020A)

Nickel (EPA 7521)

Doreen Dorney
Project Manager

Robert Peak
Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-39
Lab Id: L9501165-1

Collected: 19-JAN-95
Received: 21-JAN-95
Reported: 30-JAN-95

Parameter	Value	BDL	Units	Extracted	Analyzed
Graphite Furnance AA					
Nickel - EPA 7521	0.071	0.0050	mg/L	24-JAN-95	25-JAN-95
Comments:	-	-	-	-	-
8010/8020					
Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromodichloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromoform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromomethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Carbon Tetrachloride	1.6	0.50	ug/L	25-JAN-95	25-JAN-95
Chlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloroethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Chloroform	2.9	0.50	ug/L	25-JAN-95	25-JAN-95
Chloromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethane	4.1	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethane	1.7	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethene	70.	5.0	ug/L	26-JAN-95	26-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Ethyl Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Methylene Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Toluene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,1-Trichloroethane	2.9	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichloroethene	2.5	0.50	ug/L	25-JAN-95	25-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Xylenes (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene (8010)	93.8	-	%	25-JAN-95	25-JAN-95
4-Bromofluorobenzene (8020)	94.3	-	%	25-JAN-95	25-JAN-95
Comments:	None.	-	-	-	-

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-29
Lab Id: L9501165-2

Collected: 20-JAN-95
Received: 21-JAN-95
Reported: 27-JAN-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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8010/8020

Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromodichloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromoform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromomethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Carbon Tetrachloride	1.9	0.50	ug/L	25-JAN-95	25-JAN-95
Chlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloroethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Chloroform	1.9	0.50	ug/L	25-JAN-95	25-JAN-95
Chloromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethane	0.87	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethane	2.5	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethene	5.0	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Ethyl Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Methylene Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Toluene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichloroethene	0.54	0.50	ug/L	25-JAN-95	25-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Xylenes (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene (8010)	-	-	%	25-JAN-95	25-JAN-95
4-Bromofluorobenzene (8020)	-	-	%	25-JAN-95	25-JAN-95

Comments: None.

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-28
Lab Id: L9501165-3

Collected: 20-JAN-95
Received: 21-JAN-95
Reported: 27-JAN-95

Parameter	Value	RD	Units	Extracted	Analyzed
8010/8020					
Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromodichloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromoform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromomethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloroethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Chloroform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethane	9.0	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethane	14.	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Ethyl Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Methylene Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Toluene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Xylenes (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene (8010)	87.0	-	%	25-JAN-95	25-JAN-95
4-Bromofluorobenzene (8020)	90.7	-	%	25-JAN-95	25-JAN-95
Comments:	None.	-	-	-	-

D&M Laboratories.

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-31
Lab Id: L9501165-4

Collected: 20-JAN-95
Received: 21-JAN-95
Reported: 27-JAN-95

Parameter	Value	REL	Units	Extracted	Analyzed
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8010/8020

Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromodichloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromoform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromomethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloroethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Chloroform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethane	1.4	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethene	34.	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Ethyl Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Methylene Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Tetrachloroethene	0.71	0.50	ug/L	25-JAN-95	25-JAN-95
Toluene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,1-Trichloroethane	0.95	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichloroethene	11.	0.50	ug/L	25-JAN-95	25-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Xylenes (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95

Surrogate:

4-Bromofluorobenzene (8010)	94.3	-	%	25-JAN-95	25-JAN-95
4-Bromofluorobenzene (8020)	94.6	-	%	25-JAN-95	25-JAN-95

Comments:

None.

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: TB-3
Lab Id: L9501165-5

Collected: 19-JAN-95
Received: 21-JAN-95
Reported: 27-JAN-95

Parameter	Value	REL	Units	Extracted	Analyzed
8010/8020					
Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromodichloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromoform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Bromomethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Carbon Tetrachloride	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloroethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Chloroform	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Chloromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Dibromochloromethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1-Dichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,2-Dichloropropane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Ethyl Benzene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Methylene Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Tetrachloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Toluene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichloroethene	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Trichlorofluoromethane	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Vinyl Chloride	ND <	1.0	ug/L	25-JAN-95	25-JAN-95
Xylenes (Total)	ND <	0.50	ug/L	25-JAN-95	25-JAN-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene (8010)	88.3	-	%	25-JAN-95	25-JAN-95
4-Bromofluorobenzene (8020)	94.5	-	%	25-JAN-95	25-JAN-95
Comments:	None.	-	-	-	-

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 Fax: (707) 763-4065

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name JAMES E. MOORE Phone (916) 387-8800
Address 8801 FOLSOM BLVD
City, State, Zip SACRAMENTO, CA 95826
Client's or Representative's Signature TONY Minding
(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO. 00173-080 044		PROJECT NAME <u>ULP SACRAMENTO</u>						NO. OF CON- TAINERS										REMARKS LAB USE ONLY LAB NO.
SAMPLERS (Signature) <u>Greg Fernald</u>																		
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION													
39	1-19-95	1135			MW-39	4	✓	✓	✓									
29	1-20-95	1204			MW-29	4	✓	✓										
28	"	1249			MW-28	4	✓	✓										
30	"				MW-30	4	✓	✓								Not Sampled		
31	"	1324			MW-31	4	✓	✓								Not Sampled Sampled		
TB-3	1-19-95	0700			TRIP Blank	4	✓	✓								Per Greg Fernald 1/23/95		
COOLER CUSTODY SEALS INTACT ☒ NOT INTACT ☐ COOLER TEMPERATURE <u>5 °C</u>																		
SAMPLES RECEIVED IN GOOD CONDITION NO BROKEN OR LEAKING CONTAINERS																		
REC'D ENVIRONMENTAL SERVICES FBI JAN 21 AM 9 47 Fed X - 23 HOMLUGAS, 1 IL POLY																		
Relinquished by: (Signature) <u>[Signature]</u>		DATE 1-20-95		TIME 1730		Received by: (Signature)		General Remarks:										
Relinquished by: (Signature) <u>[Signature]</u>		DATE 2-1-95		TIME 0847		Received by: (Signature) <u>K. [Signature]</u>		601/602 Samples preserved w/HCl Metals samples are field filtered and preserved w/HNO3										
Relinquished by: (Signature)		DATE		TIME		Received by: (Signature)												



3700 Lakeville Highway, Petaluma, CA 94954

Telephone: (707) 763-8245

FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

February 6, 1995

Customer Project: 00173-080-044 UPRR, Sacramento
Laboratory Job: L9501191

On January 25, 1995 we received 8 sample(s) for analysis.
Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 601/SW 8010A)

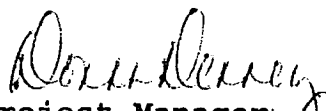
Halogenated & Aromatic Vols (EPA 601&602/SW 8010A&8020A)

Arsenic (EPA 7060)

Chromium (EPA 7191)

Nickel (EPA 7521)

Lead (EPA 7421)


Project Manager


Laboratory Director
Robert Peak

D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 07-FEB-95

Parameter	Value	REL	Units	Extracted	Analyzed
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Lab Id: L9501191-1

Sample Id: MW-41

Collected: 23-JAN-95

Received: 25-JAN-95

Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromoform	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromomethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chloroethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Chloroform	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chloromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Methylene Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trichloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
-	-	-	-	-	-
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	93.9	-	%	01-FEB-95	01-FEB-95

D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 07-FEB-95

Parameter	Value	REL	Units	Extracted	Analyzed
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Lab Id: L9501191-2

Sample Id: MW-12

Collected: 23-JAN-95

Received: 25-JAN-95

Graphite Furnance AA

Nickel - EPA 7521	0.092	0.0050	mg/L	31-JAN-95	02-FEB-95
8010/8020					
Benzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromoform	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromomethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chloroethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Chloroform	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chloromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethane	14.	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethene	40.	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Methylene Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Toluene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trichloroethene	4.8	0.50	ug/L	01-FEB-95	01-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Surrogate:					
4-Bromofluorobenzene (8010)	93.6	-	%	01-FEB-95	01-FEB-95
4-Bromofluorobenzene (8020)	84.7	-	%	01-FEB-95	01-FEB-95

D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 07-FEB-95

Parameter	Value	REL	Units	Extracted	Analyzed
Lab Id: L9501191-3	Sample Id: MW-27	Collected: 23-JAN-95	Received: 25-JAN-95		

Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromoform	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromomethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chloroethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Chloroform	3.4	0.50	ug/L	01-FEB-95	01-FEB-95
Chloromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethane	3.0	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethene	4.7	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Methylene Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trichloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Surrogate:					
4-Bromofluorobenzene	110.	-	%	01-FEB-95	01-FEB-95

D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 07-FEB-95

Parameter	Value	REL	Units	Extracted	Analyzed
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Lab Id: L9501191-4

Sample Id: MW-44

Collected: 24-JAN-95

Received: 25-JAN-95

Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromoform	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromomethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Carbon Tetrachloride	4.7	0.50	ug/L	01-FEB-95	01-FEB-95
Chlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chloroethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Chloroform	3.6	0.50	ug/L	01-FEB-95	01-FEB-95
Chloromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Methylene Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trichloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
-	-	-	-	-	-
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	110.	-	%	01-FEB-95	01-FEB-95

D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 07-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Lab Id: L9501191-5 Sample Id: MW-38 Collected: 24-JAN-95 Received: 25-JAN-95					
Volatile Halogenated Hydrocarbons					
Bromodichloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromoform	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromomethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chloroethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Chloroform	2.2	0.50	ug/L	01-FEB-95	01-FEB-95
Chloromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethane	6.1	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethene	140	5.0	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Methylene Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,2-Trichloroethane	4.0	0.50	ug/L	01-FEB-95	01-FEB-95
Trichloroethene	7.3	0.50	ug/L	01-FEB-95	01-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	91.8	-	%	01-FEB-95	01-FEB-95

D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 07-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Lab Id: L9501191-6

Sample Id: MW-46

Collected: 24-JAN-95

Received: 25-JAN-95

Graphite Furnance AA

Arsenic- EPA 7060	ND <	0.0050	mg/L	31-JAN-95	02-FEB-95
Chromium - EPA 7191	0.0088	0.0050	mg/L	31-JAN-95	02-FEB-95
Lead - EPA 7421	ND <	0.0030	mg/L	31-JAN-95	02-FEB-95
Nickel - EPA 7521	0.059	0.0050	mg/L	31-JAN-95	02-FEB-95

8010/8020

Benzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromoform	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromomethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chloroethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Chloroform	3.1	0.50	ug/L	01-FEB-95	01-FEB-95
Chloromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Methylene Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Toluene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trichloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
-	-	-	-	-	-
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene (8010)	104.	-	%	01-FEB-95	01-FEB-95
4-Bromofluorobenzene (8020)	92.2	-	%	01-FEB-95	01-FEB-95

D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 07-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Lab Id: L9501191-7 Sample Id: MW-40 Collected: 24-JAN-95 Received: 25-JAN-95					
Graphite Furnance AA					
Nickel - EPA 7521	0.051	0.0050	mg/L	31-JAN-95	02-FEB-95
Volatile Halogenated Hydrocarbons					
Bromodichloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromoform	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromomethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chloroethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Chloroform	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chloromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethane	16.	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethene	160	5.0	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Methylene Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trichloroethene	17.	0.50	ug/L	01-FEB-95	01-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
-	-	-	-	-	-
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	106.	-	%	01-FEB-95	01-FEB-95

D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 07-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Lab Id: L9501191-8

Sample Id: TB-4

Collected: 23-JAN-95

Received: 25-JAN-95

8010/8020

Benzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromoform	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Bromomethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chloroethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Chloroform	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Chloromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Methylene Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Toluene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trichloroethene	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	01-FEB-95	01-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	01-FEB-95	01-FEB-95
-	-	-	-	-	-
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene (8010)	108.	-	%	01-FEB-95	01-FEB-95
4-Bromofluorobenzene (8020)	95.3	-	%	01-FEB-95	01-FEB-95



SAMPLE CHAIN OF CUSTODY / WORK ORDER

(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PART ONE - CLIENT COPY



3700 Lakeville Highway, Petaluma, CA 94954
Telephone: (707) 763-8245
FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

February 9, 1995

Customer Project: 00173-080-044 UPRR, Sacramento
Laboratory Job: L9501222

On January 27, 1995 we received 7 sample(s) for analysis.
Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 601/SW 8010A)

Halogenated & Aromatic Vols (EPA 601&602/SW 8010A&8020A)

Nickel (EPA 7521)

Donn Lerney
Project Manager

Robert Peak
Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-15
Lab Id: L9501222-1

Collected: 25-JAN-95
Received: 27-JAN-95
Reported: 09-FEB-95

Parameter	Value	BDL	Units	Extracted	Analyzed
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromoform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromomethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloroethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Chloroform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Methylene Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Surrogate:					
4-Bromofluorobenzene	81.6	-	%	02-FEB-95	02-FEB-95

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: MW-8
 Lab Id: L9501222-2

Collected: 25-JAN-95
 Received: 27-JAN-95
 Reported: 09-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromoform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromomethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloroethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Chloroform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Methylene Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Tetrachloroethene	3.0	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Surrogate:					
4-Bromofluorobenzene	81.5	-	%	02-FEB-95	02-FEB-95

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-19
Lab Id: L9501222-3

Collected: 25-JAN-95
Received: 27-JAN-95
Reported: 09-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Graphite Furnance AA

Nickel - EPA 7521	0.12	0.010	mg/L	31-JAN-95	02-FEB-95
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromoform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromomethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloroethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Chloroform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethene	9.7	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Methylene Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
-	-	-	-	-	-
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	89.8	-	%	02-FEB-95	02-FEB-95

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: MW-25
 Lab Id: L9501222-4

Collected: 25-JAN-95
 Received: 27-JAN-95
 Reported: 09-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Graphite Furnance AA					
Nickel - EPA 7521	0.15	0.025	mg/L	31-JAN-95	02-FEB-95
Volatile Halogenated Hydrocarbons					
Bromodichloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromoform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromomethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloroethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Chloroform	3.1	0.50	ug/L	02-FEB-95	02-FEB-95
Chloromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethane	5.1	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethene	6.7	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Methylene Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	84.2	-	%	02-FEB-95	02-FEB-95

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: ER-2
 Lab Id: L9501222-5

Collected: 25-JAN-95
 Received: 27-JAN-95
 Reported: 09-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Graphite Furnance AA					
Nickel - EPA 7521	ND <	0.0050	mg/L	31-JAN-95	02-FEB-95
8010/8020					
Benzene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Bromoform	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Bromomethane	ND <	1.0	ug/L	07-FEB-95	07-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Chlorobenzene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Chloroethane	ND <	1.0	ug/L	07-FEB-95	07-FEB-95
Chloroform	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Chloromethane	ND <	1.0	ug/L	07-FEB-95	07-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Methylene Chloride	ND <	1.0	ug/L	07-FEB-95	07-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Toluene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Trichloroethene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	07-FEB-95	07-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	07-FEB-95	07-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
-					
Surrogate:					
4-Bromofluorobenzene (8010)	120.	-	%	07-FEB-95	07-FEB-95
4-Bromofluorobenzene (8020)	93.1	-	%	07-FEB-95	07-FEB-95

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: FB-2
 Lab Id: L9501222-6

Collected: 25-JAN-95
 Received: 27-JAN-95
 Reported: 09-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
8010/8020					
Benzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromoform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromomethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloroethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Chloroform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Methylene Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Toluene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
-	-	-	-	-	-
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene (8010)	81.3	-	%	02-FEB-95	02-FEB-95
4-Bromofluorobenzene (8020)	85.9	-	%	02-FEB-95	02-FEB-95

D&M Laboratories

ANALYTICAL DATA REPORT

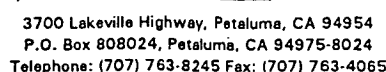
Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: TB-5
Lab Id: L9501222-7

Collected: 25-JAN-95
Received: 27-JAN-95
Reported: 09-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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8010/8020

Benzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromoform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromomethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloroethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Chloroform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Methylene Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Toluene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Surrogate:					
4-Bromofluorobenzene (8010)	88.4	-	%	02-FEB-95	02-FEB-95
4-Bromofluorobenzene (8020)	76.9	-	%	02-FEB-95	02-FEB-95



Client's Name JAMES C MOORE Phone (916) 387-8800
Address 8801 FOLSOM BLVD
City, State, Zip SACRAMENTO, CA 95826

(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PART ONE - CLIENT COPY



3700 Lakeville Highway, Petaluma, CA 94954
Telephone: (707) 763-8245
FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

February 9, 1995

Customer Project: 00173-080-044 UPRR, Sacramento
Laboratory Job: L9501233

On January 28, 1995 we received 4 sample(s) for analysis.
Samples were analyzed by the following method(s):

Halogen. & Aromatic Volatiles (EPA 8010A/8020A)

Diesel (8015 Modified)

Gasoline (8015 Modified)

Robert Derry
Project Manager

Robert Peak
Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: P-11
Lab Id: L9501233-1

Collected: 27-JAN-95
Received: 28-JAN-95
Reported: 09-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Diesel					
Diesel	ND <	0.050	mg/L	01-FEB-95	03-FEB-95
-	-				
Surrogate:	-				
o-Terphenyl	95.0	-	%	01-FEB-95	03-FEB-95
-	-				
Comments:	Hydrocarbons in the range of waste oil				
-	were detected.				
Gasoline					
Gasoline	ND <	0.050	mg/L	31-JAN-95	31-JAN-95
-	-				
Surrogate	-				
4-Bromofluorobenzene	93.	-	%	31-JAN-95	31-JAN-95

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: MW-30
 Lab Id: L9501233-2

Collected: 27-JAN-95
 Received: 28-JAN-95
 Reported: 09-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
8010/8020					
Benzene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Bromoform	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Bromomethane	ND <	1.0	ug/L	07-FEB-95	07-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Chlorobenzene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Chloroethane	ND <	1.0	ug/L	07-FEB-95	07-FEB-95
Chloroform	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Chloromethane	ND <	1.0	ug/L	07-FEB-95	07-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,1-Dichloroethane	2.0	0.50	ug/L	07-FEB-95	07-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,1-Dichloroethene	31.	0.50	ug/L	07-FEB-95	07-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Methylene Chloride	ND <	1.0	ug/L	07-FEB-95	07-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Toluene	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
1,1,1-Trichloroethane	1.2	0.50	ug/L	07-FEB-95	07-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Trichloroethene	8.6	0.50	ug/L	07-FEB-95	07-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	07-FEB-95	07-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	07-FEB-95	07-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	07-FEB-95	07-FEB-95
Surrogate:					
4-Bromofluorobenzene (8010)	114.	-	%	07-FEB-95	07-FEB-95
4-Bromofluorobenzene (8020)	96.0	-	%	07-FEB-95	07-FEB-95

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: FB-3
Lab Id: L9501233-3

Collected: 27-JAN-95
Received: 28-JAN-95
Reported: 09-FEB-95

Parameter	Value	BDL	Units	Extracted	Analyzed
Diesel					
Diesel	-	ND <	0.050	mg/L	01-FEB-95 02-FEB-95
Surrogate: o-Terphenyl	-	95.0	-	%	01-FEB-95 02-FEB-95
Gasoline					
Gasoline	-	ND <	0.050	mg/L	31-JAN-95 31-JAN-95
Surrogate 4-Bromofluorobenzene	-	92.	-	%	31-JAN-95 31-JAN-95

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ANALYTICAL DATA REPORT

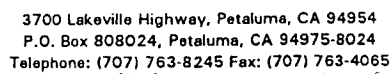
Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: TB-6
Lab Id: L9501233-4

Collected: 27-JAN-95
Received: 28-JAN-95
Reported: 09-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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8010/8020

Benzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromoform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Bromomethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloroethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Chloroform	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Chloromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Methylene Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Toluene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichloroethene	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	02-FEB-95	02-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	02-FEB-95	02-FEB-95
-	-	-	-	-	-
Surrogate:					
4-Bromofluorobenzene (8010)	74.9	-	%	02-FEB-95	02-FEB-95
4-Bromofluorobenzene (8020)	85.3	-	%	02-FEB-95	02-FEB-95



SAMPLE CHAIN OF CUSTODY / WORK ORDER

Phone (914) 387-8800

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO. 00173-080 044		PROJECT NAME UP SACRAMENTO		NO. OF CON- TAINERS		REMARKS		LAB USE ON LAB NO.										
SAMPLERS (Signature) <i>Guy Jernall</i>																		
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION													
P-11	1-27-95	1145			P-11	5	✓	✓										
30	"	1255			MW-30	3	✓											
FB-3	"	1530			Field Blank	5	✓	✓										
TB-6	"	0700			Travel Blank													
SAMPLES RECEIVED IN GOOD CONDITION NO BROKEN OR LEAKING CONTAINERS COOLER CUSTODY SEALS INTACT ☒ NOT INTACT ☐ COOLER TEMPERATURE <u>COLD</u> °C Fed X - 4 11 Amber, 12 00 AM, 1/28/95																		
										Relinquished by: (Signature) <i>Guy Jernall</i>		DATE 1-27-95	TIME 1710	Received by: (Signature) <i>Fed X #</i>		General Remarks: <i>601/602 C TPH/GAS Samples preserved w/ HCl</i>		
										Relinquished by: (Signature)		DATE 1-27-95	TIME 0458	Received by: (Signature) <i>[Signature]</i>				
										Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)				

PART ONE - CLIENT COPY



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Jim Brake
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8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

February 14, 1995

Customer Project: 00173-080-044 UPRR, Sacramento
Laboratory Job: L9502003

On February 1, 1995 we received 9 sample(s) for analysis.
Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 601/SW 8010A)

Halogenated & Aromatic Vols (EPA 601&602/SW 8010A&8020A)

Arsenic (EPA 7060)

Chromium (EPA 7191)

Nickel (EPA 7521)

Lead (EPA 7421)

Stella Hanib
Project Manager
for Donna Senney

Sept 1995
for: Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: MW-14
 Lab Id: L9502003-1

Collected: 30-JAN-95
 Received: 01-FEB-95
 Reported: 14-FEB-95

Parameter	Value	REL	Units	Extracted	Analyzed
8010/8020					
Benzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromoform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromomethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloroethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Chloroform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethane	14.	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethene	66.	5.0	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Methylene Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Toluene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,1-Trichloroethane	0.68	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trichloroethene	4.8	0.50	ug/L	09-FEB-95	09-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Surrogate:					
4-Bromofluorobenzene (8010)	73.2	-	%	09-FEB-95	09-FEB-95
4-Bromofluorobenzene (8020)	98.3	-	%	09-FEB-95	09-FEB-95

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: MW-13
 Lab Id: L9502003-2

Collected: 30-JAN-95
 Received: 01-FEB-95
 Reported: 14-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Graphite Furnance AA

Arsenic- EPA 7060	0.036	0.0050	mg/L	06-FEB-95	07-FEB-95
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8010/8020

Benzene	2600	50.	ug/L	09-FEB-95	09-FEB-95
Bromodichloromethane	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
Bromoform	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
Bromomethane	ND <	10.	ug/L	09-FEB-95	09-FEB-95
Carbon Tetrachloride	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
Chlorobenzene	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
Chloroethane	ND <	10.	ug/L	09-FEB-95	09-FEB-95
Chloroform	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
Chloromethane	ND <	10.	ug/L	09-FEB-95	09-FEB-95
Dibromochloromethane	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
1,2-Dichlorobenzene	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
1,3-Dichlorobenzene	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
1,4-Dichlorobenzene	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethane	24.	5.0	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethane	32.	5.0	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethene	89.	5.0	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethene (Total)	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloropropane	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
Cis-1,3-Dichloropropene	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
Trans-1,3-Dichloropropene	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
Ethyl Benzene	180	5.0	ug/L	09-FEB-95	09-FEB-95
Methylene Chloride	ND <	10.	ug/L	09-FEB-95	09-FEB-95
1,1,2,2-Tetrachloroethane	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
Tetrachloroethene	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
Toluene	99.	5.0	ug/L	09-FEB-95	09-FEB-95
1,1,1-Trichloroethane	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
1,1,2-Trichloroethane	ND <	5.0	ug/L	09-FEB-95	09-FEB-95
Trichloroethene	12.	5.0	ug/L	09-FEB-95	09-FEB-95
Trichlorofluoromethane	ND <	10.	ug/L	09-FEB-95	09-FEB-95
Vinyl Chloride	ND <	10.	ug/L	09-FEB-95	09-FEB-95
Xylenes (Total)	170	5.0	ug/L	09-FEB-95	09-FEB-95
Surrogate:					
4-Bromofluorobenzene (8010)	106.	-	%	09-FEB-95	09-FEB-95
4-Bromofluorobenzene (8020)	103.	-	%	09-FEB-95	09-FEB-95

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: MW-141
 Lab Id: L9502003-3

Collected: 30-JAN-95
 Received: 01-FEB-95
 Reported: 14-FEB-95

Parameter	Value	REL	Units	Extracted	Analyzed
8010/8020					
Benzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromoform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromomethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloroethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Chloroform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethane	17.	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethene	69.	5.0	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Methylene Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Toluene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,1-Trichloroethane	0.98	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trichloroethene	5.5	0.50	ug/L	09-FEB-95	09-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Surrogate:					
4-Bromofluorobenzene (8010)	99.4	-	%	09-FEB-95	09-FEB-95
4-Bromofluorobenzene (8020)	104.	-	%	09-FEB-95	09-FEB-95

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: MW-47
 Lab Id: L9502003-4

Collected: 30-JAN-95
 Received: 01-FEB-95
 Reported: 14-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Graphite Furnance AA

Arsenic- EPA 7060	0.0051	0.0050	mg/L	06-FEB-95	07-FEB-95
Chromium - EPA 7191	0.012	0.0050	mg/L	06-FEB-95	09-FEB-95
Lead - EPA 7421	ND<	0.0030	mg/L	06-FEB-95	07-FEB-95
Nickel - EPA 7521	ND<	0.0050	mg/L	06-FEB-95	09-FEB-95

8010/8020

Benzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromoform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromomethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloroethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Chloroform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Methylene Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Toluene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trichloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Surrogate:					
4-Bromofluorobenzene (8010)	101.	-	%	09-FEB-95	09-FEB-95
4-Bromofluorobenzene (8020)	101.	-	%	09-FEB-95	09-FEB-95

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-36
Lab Id: L9502003-5

Collected: 30-JAN-95
Received: 01-FEB-95
Reported: 14-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Graphite Furnance AA					
Nickel - EPA 7521	0.051	0.0050	mg/L	06-FEB-95	09-FEB-95
Volatile Halogenated Hydrocarbons					
Bromodichloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromoform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromomethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloroethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Chloroform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethane	1.4	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethene	53.	5.0	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Methylene Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trichloroethene	4.0	0.50	ug/L	09-FEB-95	09-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Surrogate:					
4-Bromofluorobenzene	91.7	-	%	09-FEB-95	09-FEB-95

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: MW-37
 Lab Id: L9502003-6

Collected: 30-JAN-95
 Received: 01-FEB-95
 Reported: 14-FEB-95

Parameter	Value	BDL	Units	Extracted	Analyzed
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Graphite Furnance AA

Nickel - EPA 7521	ND <	0.0050	mg/L	06-FEB-95	09-FEB-95
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromoform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromomethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloroethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Chloroform	1.9	0.50	ug/L	09-FEB-95	09-FEB-95
Chloromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethane	3.1	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethane	4.0	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethene	27.	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Methylene Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trichloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95

Surrogate:

4-Bromofluorobenzene	75.5	-	%	09-FEB-95	09-FEB-95
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D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: MW-136
 Lab Id: L9502003-7

Collected: 30-JAN-95
 Received: 01-FEB-95
 Reported: 14-FEB-95

Parameter	Value	REL	Units	Extracted	Analyzed
Graphite Furnance AA					
Nickel - EPA 7521	0.050	0.0050	mg/L	06-FEB-95	09-FEB-95
Volatile Halogenated Hydrocarbons					
Bromodichloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromoform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromomethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloroethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Chloroform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethane	2.4	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethene	48.	5.0	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Methylene Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trichloroethene	5.9	0.50	ug/L	09-FEB-95	09-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
-	-	-	-	-	-
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	83.6	-	%	09-FEB-95	09-FEB-95

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: MW-147
 Lab Id: L9502003-8

Collected: 30-JAN-95
 Received: 01-FEB-95
 Reported: 14-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Graphite Furnance AA

Arsenic- EPA 7060	ND<	0.0050	mg/L	06-FEB-95	07-FEB-95
Chromium - EPA 7191	0.013	0.0050	mg/L	06-FEB-95	09-FEB-95
Lead - EPA 7421	ND<	0.0030	mg/L	06-FEB-95	07-FEB-95
Nickel - EPA 7521	ND<	0.0050	mg/L	06-FEB-95	09-FEB-95

8010/8020

Benzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromoform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromomethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloroethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Chloroform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Methylene Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Toluene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trichloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Surrogate:					
4-Bromofluorobenzene (8010)	87.7	-	%	09-FEB-95	09-FEB-95
4-Bromofluorobenzene (8020)	101.	-	%	09-FEB-95	09-FEB-95

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
 Project Id: 00173-080-044 UPRR, Sacramento
 Sample Id: TRAVEL BLANK
 Lab Id: L9502003-9

Collected: 30-JAN-95
 Received: 01-FEB-95
 Reported: 14-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
8010/8020					
Benzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromodichloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromoform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Bromomethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloroethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Chloroform	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Chloromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Ethyl Benzene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Methylene Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Toluene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trichloroethene	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	09-FEB-95	09-FEB-95
Xylenes (Total)	ND <	0.50	ug/L	09-FEB-95	09-FEB-95
Surrogate:					
4-Bromofluorobenzene (8010)	89.2	-	%	09-FEB-95	09-FEB-95
4-Bromofluorobenzene (8020)	102.	-	%	09-FEB-95	09-FEB-95



3700 Lakeville Highway, Petaluma, CA 94952

P.O. Box 808024, Petaluma, CA, 94975-8024

Telephone: (707) 763-8245 FAX: (707) 763-4065

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name DAMES & MOORE Phone (916) 387-8800
Address 8801 FOLSOM BLVD
City, State, Zip SACRAMENTO, CA 95826

Client's or Representative's Signature _____

(Signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO. 0073-080 044		PROJECT NAME UP SACRAMENTO		NO. OF CON-TAINERS		REMARKS						LAB USE ONLY LAB NO.
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	601	602	As	Cr	Ni	Pb	
14	1-30-95	1108			MW-14	4	✓	✓				
13	✓	1320			MW-13	5	✓	✓	✓			
141	✓	-			MW-141	4	✓	✓				
47	1-31-95	0757			MW-47	5	✓	✓	✓	✓	✓	
36	✓	0915			MW-36	4	✓			✓		
37	✓	0954			MW-37	4	✓			✓		
136	✓	-			MW-136	4	✓			✓		
147	✓	-			MW-147	5	✓	✓	✓	✓	✓	
TB-7	1-30-95	0700			Travel Blank							2 VOAS
COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☒												
COOLER TEMPERATURE <u>12°C</u>												
6-LT. PLASTIC + 31 VOAS -												
Relinquished by: (Signature) <u>[Signature]</u>		DATE 1-31-95	TIME 1630	Received by: (Signature) <u>[Signature]</u>		General Remarks: 601/602 Samples preserved w/ HCl Metals Samples are field filtered & preserved w/ HNO ₃						
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)								
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)								

CLIENT COPY



3700 Lakeville Highway, Petaluma, CA 94954
Telephone: (707) 763-8245
FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

February 15, 1995

Customer Project: 00173-080-044 UPRR, Sacramento
Laboratory Job: L9502038

On February 3, 1995 we received 3 sample(s) for analysis.
Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 601/SW 8010A)

Nickel (EPA 7521)

Stella Harsh
Project Manager
for Donna Denney

Sept 16/95
for: Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-35
Lab Id: L9502038-1

Collected: 01-FEB-95
Received: 03-FEB-95
Reported: 15-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Bromoform	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Bromomethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Chlorobenzene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Chloroethane	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
Chloroform	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Chloromethane	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,1-Dichloroethene	3.0	0.50	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Methylene Chloride	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Trichloroethene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
-	-	-	-	-	-
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	72.1	-	%	10-FEB-95	10-FEB-95

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: MW-34
Lab Id: L9502038-2

Collected: 01-FEB-95
Received: 03-FEB-95
Reported: 15-FEB-95

Parameter	Value	REL	Units	Extracted	Analyzed
Graphite Furnance AA					
Nickel - EPA 7521	0.045	0.0050	mg/L	06-FEB-95	09-FEB-95
Volatile Halogenated Hydrocarbons					
Bromodichloromethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Bromoform	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Bromomethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Chlorobenzene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Chloroethane	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
Chloroform	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Chloromethane	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,1-Dichloroethane	3.4	0.50	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,1-Dichloroethene	47.	5.0	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Methylene Chloride	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Trichloroethene	12.	0.50	ug/L	10-FEB-95	10-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
-	-	-	-	-	-
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	81.2	-	%	10-FEB-95	10-FEB-95
-	-	-	-	-	-
Comments:	None	-	-	-	-
-	-	-	-	-	-

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR, Sacramento
Sample Id: TRIP BLANK
Lab Id: L9502038-3

Collected: 01-FEB-95
Received: 03-FEB-95
Reported: 15-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Bromoform	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Bromomethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Chlorobenzene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Chloroethane	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
Chloroform	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Chloromethane	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Methylene Chloride	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Trichloroethene	ND <	0.50	ug/L	10-FEB-95	10-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	10-FEB-95	10-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	10-FEB-95	10-FEB-95

Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	78.4	-	%	10-FEB-95	10-FEB-95

Comments:	None
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3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 Fax: (707) 763-4065

L9502038

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name James E. Moore Phone (916) 387-8800
Address 8801 FOLSOM BLVD
City, State, Zip SACRAMENTO, CA 95826

Client's or Representative's Signature _____
(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS		LAB USE ONLY											
00173-080 044		UP SACRAMENTO																	
SAMPLES (Signature)						601 MW													
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION														
35	2-1-95	1118			MW-35	3	✓												
34	"	1156			MW-34	4	✓	✓											
TB-8	"	0900			Trip Blank	2	✓												
COOLER CUSTODY SEALS INTACT ☒ NOT INTACT ☐ COOLER TEMPERATURE <u>COLD</u> °C 8 VOAs 1-12 poly SAMPLES RECEIVED IN GOOD CONDITION NO BROKEN OR LEAKING CONTAINERS										RECEIVED D&M LABORATORIES 895 FEB - 11 11 04 48									
												Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		General Remarks:	
												Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)			
												Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)			
												Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)			
												Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)			
												Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)			
												Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)			
												Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)			
												Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)			



3700 Lakeville Highway, Petaluma, CA 94954
Telephone: (707) 763-8245
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Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

February 22, 1995

Customer Project: 00173-080-044 UPRR, Sacramento
Laboratory Job: L9502070

On February 7, 1995 we received 8 sample(s) for analysis.
Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 601/SW 8010A)

Chromium (EPA 7191)

Nickel (EPA 7521)

Stella Hanis
Project Manager
for D. Denney

Robert Peak
Laboratory Director
Robert Peak

D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 22-FEB-95

Parameter	Value	REL	Units	Extracted	Analyzed
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Lab Id: L9502070-1

Sample Id: MW-21

Collected: 04-FEB-95

Received: 07-FEB-95

Graphite Furnance AA

Nickel - EPA 7521	0.11	0.010	mg/L	11-FEB-95	15-FEB-95
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromoform	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromomethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chloroethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Chloroform	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chloromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethane	1.4	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethene	15.	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Methylene Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Tetrachloroethene	3.0	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Surrogate:	-	-	-	-	-
4-Bromofluorobenzene	74.3	-	%	16-FEB-95	16-FEB-95

Lab Id: L9502070-2

Sample Id: MW-24

Collected: 04-FEB-95

Received: 07-FEB-95

Graphite Furnance AA

Nickel - EPA 7521	0.10	0.010	mg/L	11-FEB-95	15-FEB-95
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D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 22-FEB-95

Parameter	Value	REL	Units	Extracted	Analyzed
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Lab Id: L9502070-3

Sample Id: MW-23

Collected: 04-FEB-95

Received: 07-FEB-95

Graphite Furnance AA

Nickel - EPA 7521	0.17	0.020	mg/L	11-FEB-95	15-FEB-95
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromoform	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromomethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chloroethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Chloroform	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chloromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Methylene Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Tetrachloroethene	2.7	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95

Surrogate:

4-Bromofluorobenzene	76.1	-	%	16-FEB-95	16-FEB-95
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D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 22-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Lab Id: L9502070-4

Sample Id: MW-17

Collected: 04-FEB-95

Received: 07-FEB-95

Graphite Furnance AA

Nickel - EPA 7521	0.087	0.0050	mg/L	11-FEB-95	15-FEB-95
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Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromoform	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromomethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chloroethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Chloroform	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chloromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Methylene Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95

Surrogate:

4-Bromofluorobenzene	70.6	-	%	16-FEB-95	16-FEB-95
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D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 22-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Lab Id: L9502070-5 Sample Id: MW-7 Collected: 04-FEB-95 Received: 07-FEB-95					

Graphite Furnance AA

Chromium - EPA 7191	0.011	0.0050	mg/L	11-FEB-95	15-FEB-95
Nickel - EPA 7521	0.064	0.0050	mg/L	11-FEB-95	15-FEB-95

Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromoform	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromomethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chloroethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Chloroform	1.1	0.50	ug/L	16-FEB-95	16-FEB-95
Chloromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethane	1.5	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethene	8.3	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Methylene Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Tetrachloroethene	1.8	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95

Surrogate: 4-Bromofluorobenzene	70.6	-	%	16-FEB-95	16-FEB-95
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D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 22-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Lab Id: L9502070-6

Sample Id: MW-70

Collected: 04-FEB-95

Received: 07-FEB-95

Graphite Furnance AA

Chromium - EPA 7191	0.010	0.0050	mg/L	11-FEB-95	15-FEB-95
Nickel - EPA 7521	0.054	0.0050	mg/L	11-FEB-95	15-FEB-95

Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromoform	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromomethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chloroethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Chloroform	0.87	0.50	ug/L	16-FEB-95	16-FEB-95
Chloromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethane	1.3	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethene	7.8	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Methylene Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Tetrachloroethene	7.0	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95

Surrogate:

4-Bromofluorobenzene	87.0	-	%	16-FEB-95	16-FEB-95
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D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 22-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Lab Id: L9502070-7	Sample Id: EQUIPMENT RINSE	Collected: 04-FEB-95	Received: 07-FEB-95		

Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromoform	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromomethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chloroethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Chloroform	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chloromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Methylene Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Surrogate:					
4-Bromofluorobenzene	82.9	-	%	16-FEB-95	16-FEB-95

D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 22-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
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Lab Id: L9502070-8

Sample Id: TRIP BLANK

Collected: 04-FEB-95

Received: 07-FEB-95

Volatile Halogenated Hydrocarbons

Bromodichloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromoform	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Bromomethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Carbon Tetrachloride	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chloroethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Chloroform	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Chloromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Dibromochloromethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,3-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,4-Dichlorobenzene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1-Dichloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,2-Dichloropropane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Methylene Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Tetrachloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,1-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
1,1,2-Trichloroethane	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichloroethene	ND <	0.50	ug/L	16-FEB-95	16-FEB-95
Trichlorofluoromethane	ND <	1.0	ug/L	16-FEB-95	16-FEB-95
Vinyl Chloride	ND <	1.0	ug/L	16-FEB-95	16-FEB-95

Surrogate:

4-Bromofluorobenzene	81.7	-	%	16-FEB-95	16-FEB-95
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Phone: (707) 763-8245 FAX: (707) 763-4065

L9502070

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name JAMES E MOORE

Phone (916) 387-8800

Address 8801 FOLSOM BLVD

City, State, Zip SACRAMENTO, CA 95826

Client's or Representative's Signature

(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

[illegible]



3700 Lakeville Highway, Petaluma, CA 94954
Telephone: (707) 763-8245
FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

February 20, 1995

Customer Project: 00173-080-044 UPRR, Sacramento
Laboratory Job: L9502095

On February 9, 1995 we received 3 sample(s) for analysis.
Samples were analyzed by the following method(s):

TPH Quantified Identification (EPA 8015M)

Stella Warrick
Project Manager
for D. Denney

Robert Peak
Laboratory Director
Robert Peak

D&M Laboratories
ANALYTICAL DATA REPORT
Prepared for: Dames & Moore-Sacramento

Project Id: 00173-080-044

Reported: 17-FEB-95

Parameter	Value	RDL	Units	Extracted	Analyzed
Lab Id: L9502095-1	Sample Id: MW-48	Collected: 08-FEB-95	Received: 09-FEB-95		

Quantitative Petroleum Hydrocarbons

Gas	ND <	0.15	mg/L	13-FEB-95	15-FEB-95
Mineral Spirits	ND <	0.15	mg/L	13-FEB-95	15-FEB-95
Jet Fuel	ND <	0.050	mg/L	13-FEB-95	15-FEB-95
Kerosene	ND <	0.050	mg/L	13-FEB-95	15-FEB-95
Diesel	0.43	0.050	mg/L	13-FEB-95	15-FEB-95
Waste Oil	ND <	0.50	mg/L	13-FEB-95	15-FEB-95
-	-	-	-	-	-
Surrogate	-	-	-	-	-
o-Terphenyl	83.0	-	%	13-FEB-95	15-FEB-95
-	-	-	-	-	-
Comments:	Hydrocarbons in range of diesel - hydrocarbons in				
-	range of waste oil also detected at below report detection limit.				
-	See labnote 20.				
-					
-					

Lab Id: L9502095-2	Sample Id: P-10	Collected: 08-FEB-95	Received: 09-FEB-95		
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Quantitative Petroleum Hydrocarbons

Gas	ND <	0.15	mg/L	13-FEB-95	15-FEB-95
Mineral Spirits	ND <	0.15	mg/L	13-FEB-95	15-FEB-95
Jet Fuel	ND <	0.050	mg/L	13-FEB-95	15-FEB-95
Kerosene	ND <	0.050	mg/L	13-FEB-95	15-FEB-95
Diesel	ND <	0.050	mg/L	13-FEB-95	15-FEB-95
Waste Oil	ND <	0.50	mg/L	13-FEB-95	15-FEB-95
-	-	-	-	-	-
Surrogate	-	-	-	-	-
o-Terphenyl	86.0	-	%	13-FEB-95	15-FEB-95
-	-	-	-	-	-
Comments:	None				

Lab Id: L9502095-3	Sample Id: FIELD BLANK	Collected: 08-FEB-95	Received: 09-FEB-95		
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Quantitative Petroleum Hydrocarbons

Gas	ND <	0.15	mg/L	13-FEB-95	15-FEB-95
Mineral Spirits	ND <	0.15	mg/L	13-FEB-95	15-FEB-95
Jet Fuel	ND <	0.050	mg/L	13-FEB-95	15-FEB-95
Kerosene	ND <	0.050	mg/L	13-FEB-95	15-FEB-95
Diesel	ND <	0.050	mg/L	13-FEB-95	15-FEB-95
Waste Oil	ND <	0.50	mg/L	13-FEB-95	15-FEB-95
-	-	-	-	-	-
Surrogate	-	-	-	-	-
o-Terphenyl	85.0	-	%	13-FEB-95	15-FEB-95
-	-	-	-	-	-
Comments:	None				

3700 Lakeville Highway, Petaluma, CA 94952
P.O. Box 808024, Petaluma, CA, 94975-8024
Telephone: (707) 763-8245 FAX: (707) 763-4065

L9502095

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name Dames & Moore Phone (415) 387-8800
Address 8801 Folsom Blvd. Suite 200
City, State, Zip Sacramento, CA 95826

Client's or Representative's Signature Glenn J. Long
(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

[illegible]

CLIENT COPY