SFUND RECORDS CTR
44925

FINAL REMEDY REMEDIAL INVESTIGATION REPORT MOTOROLA 52ND ST.

VOLUME III OF IV
APPENDICES E3 THROUGH G

Prepared for

MOTOROLA INC.

by

Dames & Moore

February 1992

MOTOROLA INC.

March 16, 1992

Mr. Edward Z. Fox, Director
Ms. Jacqueline Maye, Project Coordinator
Arizona Department of Environmental Quality
2005 North Central Avenue
Phoenix, Arizona 85004

Final Remedy Remedial Investigation Report
Motorola 52nd St. Facility

Dear Mr. Fox and Ms. Maye:

Transmitted herewith is the Final Remedy Remedial Investigation Report, February 1992, prepared by Dames & Moore for the Motorola 52nd St. project. This document is submitted for your review pursuant to the general requirements of Article 27.0 of the Motorola 52nd St. Consent Order. This documents supersedes the draft FR RI report transmitted under cover of our letter dated September 30, 1991, and responds to agency comments submitted under cover of the ADEQ letter dated February 18, 1992 (RPU92,072).

Motorola wishes to convey its intention to cooperate fully with the agencies to actively evaluate alternative remedial actions as required. In accordance with that, Motorola proposes to proceed with the development of the Final Remedy Feasibility Study and looks forward to meeting with agency representatives as soon as possible to discuss plans for proceeding.

In addition, Motorola is continuing to investigate and remediate the area of the Southwest Parking Lot to reduce concentrations of volatile organic compounds in the vadose zone and ground water. Attachment SW to the enclosed report presents the work completed through December 1991, and will be supplemented with additional information being obtained at this time. Motorola looks forward to meeting with agency representatives to review the work presently being performed and proposed in the Southwest Parking Lot.

Discrete & Materials Technologies Group
5005 East McDowell Road Phoenix, Arizona 85008 (602) 244-6900

MOTOROLA INC.

If you have any questions regarding this report, please call me or Mr. James R. Hussey with Dames & Moore.

Sincerely,

John Seeger

John Seeger
Project Coordinator

JS/tc

Enclosure

Received by:

Mr. Edward Z. Fox, Director	Date
Ms. Jacqueline Maye, Project Coordinator	Date

cc: See attached list

FINAL REMEDY REMEDIAL INVESTIGATION REPORT
February 19, 1992

MOTOROLA INC.

52nd Street and McDowell Road
Phoenix, Arizona

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March 16, 1992

09448-139-033

Mr. John Seeger
Project Coordinator
Motorola Inc.
5005 East McDowell Road
Phoenix, Arizona 85008

Dear John:

Please find enclosed the Final Remedy Remedial Investigation Report, February 1992, for the Motorola 52nd St. Superfund project. This document contains a comprehensive characterization of the extent of ground-water contamination for the Motorola 52nd St. facility. The report forms the basis for proceeding with a Final Remedy Feasibility Study.

This report supersedes the draft FR RI report transmitted to the Arizona Department of Environmental Quality under your cover letter dated September 30, 1991. This document reflects comments received from ADEQ under cover of letter dated February 18, 1992. The responses to general and specific comments on the draft report provided by ADEQ are included behind the main text of this report, and are reflected in changes to the text, tables and figures contained herein.

Please call if you have any questions.

Sincerely,

DAMES & MOORE

James R. Hussey, P.E.
Principal

Registered Professional Engineer (Civil)
CERTIFICATE NO. 21450
JAMES R. HUSSEY
Date Signed 3/16/92
ARIZONA, U.S.A.

JRH/tc

Enclosure

cc: File 09448-140-033

FINAL REMEDY RI REPORT

MOTOROLA 52ND ST.

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FINAL REMEDY RI REPORT

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RI INORGANICS

E3.1.0 INTRODUCTION

Table E3.1 lists the results of inorganic analyses of ground-water samples collected during RI/FS sampling periods one through seven and samples collected in association with the pilot treatment plant ground-water monitoring after round 7 but before January 1987. The table includes the well name, sample date, sample code, alluvium, interface, or bedrock designation, the constituent analyzed and the result with a detected value or less than detection limit.

Round	Sample Dates
1	9/85
2	10/85
3	11/85
4A	12/85
4B	1/86
5	3/86
6	6/86
7	8/86

For locations of wells see Appendix C1.

In this table and in all reports, sampling levels at monitor wells are designated by two methods. The letters "A" through "E" are used at wells which are constructed using conventional well casing. At these wells, "A" is the shallowest level, and "D" or "E" is the deepest. At conventional single-completion wells, a sampling level is not given. Sampling levels at wells constructed using Westbay™ casing are designated by the depth of the sampling port in feet below ground surface.

The following legend explains the symbols and sample codes.

< = Less than
• = Not analyzed

Sample Code	Description
F0	Field original sample
FD	Field duplicate sample

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	4626G	AZSLD	DM101-102	DM101B	DM102-048	DM102-048	DM102-048	DM102-082	DM102-104	DM102-144
SAMPLE DATE	08/27/85	03/06/86	03/26/86	03/25/86	12/23/85	03/19/86	09/02/86	09/03/86	09/03/86	03/21/86
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	INTERFACE	BEDROCK	INTERFACE	ALLUVIUM	ALLUVIUM	ALLUVIUM	BEDROCK	BEDROCK	BEDROCK
SILVER	<0.02	<0.02	<0.02	<0.02	.	<0.02	<0.05	<0.05	<0.05	<0.02
ARSENIC	<0.02	<0.02	<0.02	<0.02	.	0.036	0.032	0.024	0.01	<0.02
BERYLLIUM	<0.5	<0.5	<0.5	<0.5	.	<0.5	<0.007	<0.007	<0.007	<0.5
CALCIUM	105	85	120	86	.	108	89	94.6	49.2	88
CADMIUM	<0.005	<0.005	<0.005	<0.005	.	<0.005	<0.003	<0.003	<0.003	<0.005
CHROMIUM	<0.02	<0.02	<0.02	<0.02	.	0.11	<0.01	<0.01	<0.01	0.026
COPPER	<0.05	<0.05	0.13	<0.05	.	0.22	0.32	<0.02	0.1	0.21
IRON	<0.1	<0.1	12	0.23	.	2.1	.	.	.	1
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	<0.001	<0.001	<0.001	<0.001	.	<0.001	0.0009	<0.0005	<0.0005	<0.001
MAGNESIUM	26	28	21	31	.	37	32.5	45.6	16.6	33
MANGANESE	<0.05	<0.05	0.96	<0.05	.	1.1	.	.	.	0.92
SODIUM	190	490	46	260	.	275	336	648	341	309
NICKEL	<0.1	<0.1	<0.1	<0.1	.	0.16	0.04	0.02	0.03	<0.1
LEAD	<0.02	<0.02	<0.02	<0.02	.	<0.02	0.017	0.003	0.003	<0.02
ANTIMONY	<0.05	<0.05	<0.05	<0.05	.	<0.05	<0.005	<0.005	<0.005	<0.05
SELENIUM	<0.01	<0.01	<0.01	<0.01	.	<0.01	<0.006	<0.006	<0.006	<0.01
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	<0.05	<0.05	<0.05	<0.05	.	<0.05	.	.	.	<0.05
ZINC	<0.05	0.2	0.5	<0.05	.	0.59	0.77	0.34	0.15	0.71
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	303	374	399	275	.	346	.	.	.	455
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	248	307	327	225	.	284	403	854	580	373
CHLORIDE	219	298	98	256	293	349	465	552	177	322
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	242	590	37	277	265	380	342	176	74.4	280
TDS	980	1740	642	1140	.	1370	1751	2144	1051	1300
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	<0.05	<0.05	<0.05	<0.05	.	<0.05	<0.03	<0.03	<0.03	<0.05
FLUORIDE	6.1	4.8	0.5	.	5.6	7.7	8.27	4.85	3.34	6.5
AMMONIA	.	<0.1	2.2	<0.1	.	13	.	.	.	6.6
NITRATE	4.9	3.2	<0.2	24	<0.2	<0.2	<2	<2	<2	<0.2
PHOSPHORUS(TOTAL)	<0.01	<0.01	<0.01	0.01	<0.01	0.61	<0.05	0.19	0.12	0.03
BORON	0.84	3.2	0.22	3	.	1.8	1.26	2.01	0.99	1.9
BARIUM	<0.1	<0.1	0.3	<0.1	.	0.14	0.13	0.24	0.1	0.1
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	0.2	<0.01	.	0.01	<0.01	<0.01	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	8.1	3.8	2.8	6.1	.	12	.	.	.	9.7
FIELD pH	.	7.6	.	7.4	.	.	.	.	.	.
FIELD CONDUCTIVITY	.	1100	.	1800	.	.	.	.	.	.
FIELD TEMPERATURE(C)	.	26	.	30	.	.	.	.	.	.

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	DM102-299	DM107	DM111	DM112	DM113	DM114	DM115	DM117	DM118	DM119-137
SAMPLE DATE	09/04/86	03/20/86	03/25/86	03/25/86	03/06/86	03/06/86	03/04/86	05/16/86	07/29/86	09/24/86
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	BEDROCK	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
ARSENIC	<0.011	0.16	0.029	0.034	0.032	0.044	0.03	0.36	<0.01	<0.02
BERYLLIUM	<0.007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1
CALCIUM	74.9	335	130	72	76	69	216	72	130	114
CADMIUM	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	0.18	<0.1	<0.1	<0.02
COPPER	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07
IRON	.	0.11	6.2	<0.1	0.12	<0.1	0.42	1.6	<0.1	3.9
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	0.0007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MAGNESIUM	18	235	110	58	54	33	207	92	57	33
MANGANESE	.	<0.05	0.16	<0.05	0.11	<0.05	<0.05	0.46	<0.2	0.7
SODIUM	217	1670	234	262	179	155	548	256	410	341
NICKEL	0.04	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1
LEAD	0.004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
ANTIMONY	<0.005	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	.	.	<0.05
SELENIUM	<0.006	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	.	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05
ZINC	0.52	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.11
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	.	314	423	514	453	351	309	816	348	322
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	437	257	347	421	371	288	253	669	285	264
CHLORIDE	216	2290	286	289	156	116	1380	323	310	266
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	123	2200	470	180	186	151	202	23	570	364
TDS	985	7390	1570	1290	924	770	3220	1300	1760	1260
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
FLUORIDE	14.38	4.9	6	6.5	3.6	2.4	4.1	2.3	7.2	3.5
AMMONIA	.	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.4	<0.1	0.4
NITRATE	<2	48	3.8	6.4	5.1	2.9	12	<0.2	3.9	0.2
PHOSPHORUS(TOTAL)	<0.05	0.03	0.54	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	0.03
BORON	0.07	8.9	0.8	1	0.69	0.64	1.2	2	2.8	2
BARIUM	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	0.16	1.6	<0.1	0.11
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	24	9.5	5.7	6.8	4.7	26.7	12	6	5
FIELD pH	.	.	7.3	7.8	.	6.9	7.1	.	7.1	.
FIELD CONDUCTIVITY	.	.	1450	1650	.	1015	4670	.	2400	.
FIELD TEMPERATURE(C)	.	.	23	22.5	.	26.3	25.5	.	26	.

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	DM119-244	DM120	DM121-125	DM121-219	DM122-A	DM122-B	DM123-056	DM124	DM125-046	DM125-076
SAMPLE DATE	09/24/86	07/30/86	09/19/86	09/22/86	07/31/86	07/31/86	10/01/86	07/30/86	10/03/86	09/26/86
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	BEDROCK	INTERFACE	INTERFACE	BEDROCK	ALLUVIUM	INTERFACE	INTERFACE	INTERFACE	ALLUVIUM	INTERFACE
SILVER	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	.	<0.02
ARSENIC	<0.02	<0.01	<0.02	<0.02	0.02	0.02	<0.02	0.04	.	<0.02
BERYLLIUM	<0.1	<0.5	<0.1	<0.1	<0.5	<0.5	<0.1	<0.5	.	0.1
CALCIUM	21	27	20	28	41	92	53	130	80	81
CADMIUM	<0.005	<0.005	<0.005	0.008	<0.005	<0.005	<0.005	<0.005	.	<0.005
CHROMIUM	<0.02	<0.1	<0.02	<0.02	<0.1	<0.1	<0.02	<0.1	.	<0.02
COPPER	0.09	<0.05	0.13	0.39	<0.05	<0.05	0.1	<0.05	.	0.09
IRON	0.17	0.15	1	3.5	0.28	<0.1	3.7	<0.1	.	4.4
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	.	<0.001
MAGNESIUM	1.7	8	7.8	8.7	26	43	26	36	32	32
MANGANESE	0.05	<0.2	<0.2	0.08	<0.2	<0.2	0.22	0.05	.	0.28
SODIUM	160	410	407	275	470	520	198	280	312	314
NICKEL	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	.	<0.1
LEAD	<0.02	0.02	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	.	<0.02
ANTIMONY	<0.05	.	<0.05	<0.05	.	.	<0.05	.	.	<0.05
SELENIUM	<0.01	<0.02	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	.	<0.01
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	.	<0.05
ZINC	0.08	<0.5	0.34	0.5	<0.5	<0.5	0.08	<0.5	.	0.31
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	225	378	484	266	525	410	303	516	442	440
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	184	310	397	218	430	336	248	423	362	361
CHLORIDE	128	290	253	240	320	475	211	250	246	218
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	32	280	190	86	300	590	104	260	.	292
TDS	476	1340	1160	820	1550	2060	768	1310	1140	1260
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	.	<0.05
FLUORIDE	5.4	7.5	7.6	3.8	5.6	4.6	4.3	3.6	.	5
AMMONIA	0.1	0.1	0.2	0.9	0.1	0.1	0.3	0.1	.	1.7
NITRATE	<0.2	6.8	6.3	1.5	7.5	10	<0.2	6.3	.	3.2
PHOSPHORUS(TOTAL)	0.04	0.04	0.07	0.19	0.06	0.03	<0.01	0.03	.	<0.01
BORON	0.3	2	1.4	1.3	1.9	3	0.82	1.2	.	1.3
BARIUM	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	.	<0.1
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	.	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	1.6	3	2.4	3.7	<10	.	5.8	.	.	7.5
FIELD pH	.	8	.	.	7.6	7.3	.	7	.	.
FIELD CONDUCTIVITY	.	2200	.	.	2600	3000	.	2200	.	.
FIELD TEMPERATURE(C)	.	24.2	.	.	26	26	.	27.4	.	.

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	DM125-270	DM125-270	DM126	DM201	DM202	DM301	DM301	DM301	DM301	DM301
SAMPLE DATE	10/01/86	10/02/86	08/22/86	08/13/85	02/28/86	05/13/86	08/29/86	09/25/86	10/17/86	10/30/86
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	BEDROCK	BEDROCK	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	.	<0.05	.
ARSENIC	<0.02	<0.02	<0.02	0.13	<0.02	0.057	0.048	0.007	0.17	0.058
BERYLLIUM	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	.	.	.	.
CALCIUM	58	110	140	278	53	323	361	.	190	.
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.002	.	0.059	.
CHROMIUM	<0.02	<0.02	<0.02	<0.1	<0.02	1.9	0.14	0.1	41.8	4.6
COPPER	0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.02	.	1.6	.
IRON	0.27	0.79	6.8	0.1	<0.1	<0.1	.	.	.	.
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	.	<0.001	.
MAGNESIUM	15	22	48	120	29	136	32.5	.	484	.
MANGANESE	0.37	0.1	0.16	0.2	<0.05	4.1	.	.	.	.
SODIUM	194	232	460	1000	245	455	336	.	742	.
NICKEL	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.03	0.05	27.8	4.4
LEAD	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.006	.	0.05	.
ANTIMONY	<0.05	<0.05	<0.05	<0.5	<0.05	.	<0.005	.	<0.02	.
SELENIUM	<0.01	<0.01	<0.01	<0.02	<0.01	<0.02	<0.006	.	0.026	.
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	.	.	.	.
ZINC	0.07	0.16	<0.05	3.5	0.1	<0.5	0.23	.	12.2	.
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	306	235	339	353	416	383	.	.	.	.
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	251	193	278	289	341	314	325	401	<1	20
CHLORIDE	194	151	360	1150	174	863	882	2440	8835	1470
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	91	444	710	1440	189	810	886	900	1030	752
TDS	756	1130	2020	4700	950	3220	3168	7240	15031	3791
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	<0.05	<0.05	<0.05	<0.05	<0.05	1.6	.	<0.01	<0.03	<0.03
FLUORIDE	4.3	4.8	0.3	4.8	5	3.2	13.7	4.44	1.34	18
AMMONIA	0.3	0.5	2.7	.	<0.1	47	.	.	.	.
NITRATE	1.4	4.6	4.3	43	3.8	35	39.3	27.1	64.8	63.4
PHOSPHORUS(TOTAL)	<0.01	<0.01	0.17	<0.01	<0.01	78	0.19	0.14	2.93	<0.05
BORON	0.69	0.96	7	4.5	0.84	2.4	2.8	3.7	2.7	3
BARIUM	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.01	0.24	0.03
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	7.2	6	6	20	6.4	30	.	.	.	.
FIELD pH	.	.	6.9	.	.	.	7.62	6.4	1.6	5.65
FIELD CONDUCTIVITY	.	.	3200	.	.	.	4900	9400	10000	6100
FIELD TEMPERATURE(C)	.	.	25	.	.	.	29	27	27	26.5

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	DM302	DM302	DM302	DM302	DM302	MP03-A	MP03-C	MP03-C	MP03-C	MP03-C
SAMPLE DATE	05/14/86	08/28/86	11/13/86	11/26/86	12/19/86	12/19/85	08/28/86	09/24/86	10/16/86	10/29/86
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	ALLUVIUM	BEDROCK	BEDROCK	BEDROCK	BEDROCK
SILVER	<0.02	<0.05	<0.05	.	<0.05	.	.	.	.	.
ARSENIC	0.044	0.029	0.026	0.025	<0.01	.	0.027	0.04	0.019	0.033
BERYLLIUM	<0.5	<0.02	<0.003	.	0.11	.	.	.	.	.
CALCIUM	390	372	406	.	375	.	.	.	.	.
CADMIUM	<0.005	<0.002	0.009	.	<0.01	.	.	.	.	.
CHROMIUM	<0.1	<0.01	0.64	0.21	0.02	.	<0.01	0.03	0.01	<0.01
COPPER	<0.05	<0.02	<0.02	.	<0.02	.	.	.	.	.
IRON	<0.1	.	.	.	.	.	.	.	.	.
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	<0.001	0.0005	<0.0002	.	<0.0002	.	.	.	.	.
MAGNESIUM	164	174	173	.	175	.	.	.	.	.
MANGANESE	3	.	.	.	.	.	.	.	.	.
SODIUM	637	730	734	.	634	.	.	.	.	.
NICKEL	0.12	0.14	0.17	0.13	0.09	.	0.02	0.02	0.02	0.03
LEAD	<0.02	<0.006	<0.004	.	<0.002	.	.	.	.	.
ANTIMONY	.	.	<0.02	.	<0.02	.	.	.	<0.02	.
SELENIUM	<0.02	<0.006	<0.01	.	<0.01	.	.	.	.	.
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	<0.05	.	.	.	.	.	.	.	.	.
ZINC	<0.5	0.02	1.88	.	1.48	.	.	.	.	.
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	188	.	.	.	.	.	.	.	.	.
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	154	153	173	176	166	.	306	281	325	323
CHLORIDE	1110	1380	1180	1250	1280	554	302	236	277	296
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	970	1127	1080	1010	1160	412	112	100	124	96
TDS	4080	4201	4190	4420	4270	.	1250	1030	1290	1190
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	<0.05	<0.03	<0.03	<0.03	<0.03	.	<0.03	<0.03	<0.03	<0.03
FLUORIDE	3.3	15.3	14	14.2	25.9	46	3.81	4.46	4.52	4.1
AMMONIA	17	.	.	.	.	.	.	.	.	.
NITRATE	92	96.5	73.1	74.5	88.1	8.3	4.71	0.17	4.9	<0.1
PHOSPHORUS(TOTAL)	200	2.3	1.05	1.14	1.46	0.47	0.19	0.13	0.44	3.51
BORON	3.2	3.3	3.4	3.4	3.6	.	0.49	0.6	<0.5	0.6
BARIUM	0.12	0.14	0.08	0.02	0.022	.	0.11	0.2	0.05	0.06
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	<0.01	<0.05	<0.01	.	<0.01	<0.01	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	15	.	.	.	.	.	.	.	.	.
FIELD pH	.	.	6.4	6.95	.	6.4	9.68	9.4	9.2	.
FIELD CONDUCTIVITY	.	.	6050	6700	.	3950	2100	1800	2000	.
FIELD TEMPERATURE(C)	.	.	26	26	.	23.8	28.7	28	27	.

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	MP03-C	MP03-C	MP03-C	MP03-D	MP03-D	MP03-D	MP03-D	MP09-A	MP09-A	MP09-A
SAMPLE DATE	11/12/86	11/24/86	12/19/86	08/28/86	10/16/86	11/13/86	12/17/86	08/27/86	09/24/86	10/15/86
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	BEDROCK	BEDROCK	BEDROCK	BEDROCK	BEDROCK	BEDROCK	BEDROCK	ALLUVIUM	ALLUVIUM	ALLUVIUM
SILVER	<0.05	.	<0.05	.	.	.	.	<0.05	.	<0.01
ARSENIC	0.023	0.011	0.024	0.032	0.021	0.03	0.015	0.13	0.164	0.088
BERYLLIUM	0.03	.	<0.01	0.03	.	.	.	<0.02	.	<0.01
CALCIUM	18.6	.	8.33	.	.	.	.	274	.	187
CADMIUM	0.003	.	<0.01	.	.	.	.	<0.002	.	0.006
CHROMIUM	<0.01	<0.01	<0.02	<0.01	0.21	<0.01	<0.01	0.325	0.15	0.05
COPPER	<0.02	.	<0.02	.	.	.	.	<0.02	.	<0.02
IRON	.	.	.	.	.	.	.	.	.	.
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	<0.0005	.	<0.0002	.	.	.	.	<0.0002	.	0.0025
MAGNESIUM	2.9	.	1.46	.	.	.	.	127	.	41.1
MANGANESE	.	.	.	.	.	.	.	.	.	.
SODIUM	466	.	270	.	.	.	.	680	.	608
NICKEL	<0.01	0.16	<0.01	0.03	0.03	0.02	0.05	0.04	0.04	<0.06
LEAD	<0.004	.	<0.002	.	.	.	.	0.003	.	<0.01
ANTIMONY	<0.002	.	<0.02	.	<0.02	.	.	.	.	<0.02
SELENIUM	<0.01	.	<0.01	.	.	.	.	<0.008	.	<0.005
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	.	.	.	.	.	.	.	.	.	.
ZINC	<0.01	.	<0.01	.	.	.	.	<0.01	.	0.01
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	.	.	.	.	.	.	.	.	.	.
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	371	252	247	236	259	230	246	172	271	300
CHLORIDE	260	346	188	210	243	70.8	344	1080	1110	931
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	119	109	119	107	108	62	136	1092	1000	887
TDS	1310	1270	849	905	1090	690	953	3564	3190	3320
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	<0.03	<0.03	<0.03	<0.03	<0.03	.	<0.03	0.15	<0.03	<0.03
FLUORIDE	4.25	4.4	6.49	4.57	4.61	5.1	6.26	19.7	16.1	17.4
AMMONIA	.	.	.	.	.	.	.	.	.	.
NITRATE	3.86	<1.5	5.7	5.09	4.93	<0.1	31.4	78.7	37.6	48.5
PHOSPHORUS(TOTAL)	0.14	0.17	0.13	0.09	0.87	0.09	0.11	0.83	0.59	0.73
BORON	0.6	0.7	<0.5	0.4	<0.5	0.5	0.5	2.83	2.6	3
BARIUM	0.04	0.08	0.03	.	<0.01	0.01	0.04	0.1	0.11	<0.01
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	.	.	.	.	.	.	.
FIELD pH	8.9	8	.	.	10.1	.	8.5	6.5	7.05	6.9
FIELD CONDUCTIVITY	2100	2000	.	.	1600	.	1600	5400	4700	5000
FIELD TEMPERATURE(C)	27	25	.	.	27	.	24.5	27	26.5	28

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	MP09-A	MP09-A	MP09-A	MP09-A	MP09-B	MP09-B	MP09-B	MP09-B	MP09-C	MP09-C
SAMPLE DATE	10/29/86	11/12/86	11/24/86	12/16/86	08/27/86	10/15/86	11/12/86	12/16/86	08/27/86	10/15/86
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	INTERFACE	INTERFACE	INTERFACE	INTERFACE	BEDROCK	BEDROCK
SILVER	.	<0.05	.	<0.05	.	.	.	.	.	.
ARSENIC	0.16	0.13	0.084	0.197	0.031	0.025	0.042	0.036	0.022	0.013
BERYLLIUM	.	0.03	.	<0.01	.	.	.	.	<0.02	.
CALCIUM	.	273	.	226	.	.	.	.	.	.
CADMIUM	.	0.005	.	0.006	.	.	.	.	.	.
CHROMIUM	<0.01	<0.01	<0.01	<0.01	0.03	0.03	0.02	<0.01	<0.03	<0.02
COPPER	.	<0.02	.	<0.02	.	.	.	.	.	.
IRON	.	.	.	.	.	.	.	.	.	.
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	.	<0.0005	.	<0.0002	.	.	.	.	.	.
MAGNESIUM	.	107	.	97.8	.	.	.	.	.	.
MANGANESE	.	.	.	.	.	.	.	.	.	.
SODIUM	.	551	.	391	.	.	.	.	.	.
NICKEL	0.07	0.05	0.03	0.05	0.06	0.88	0.29	0.25	0.14	0.04
LEAD	.	<0.002	.	<0.002	.	.	.	.	.	.
ANTIMONY	.	<0.002	.	<0.02	.	.	.	.	.	.
SELENIUM	.	<0.01	.	<0.01	.	.	.	.	.	.
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	.	.	.	.	.	.	.	.	.	.
ZINC	.	<0.01	.	<0.01	.	.	.	.	.	.
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	.	.	.	.	.	.	.	.	.	.
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	670	386	425	565	311	295	382	512	365	364
CHLORIDE	481	820	866	745	458	756	857	796	255	255
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	435	874	815	631	431	632	847	796	410	390
TDS	2270	2860	3200	2620	1750	2781	3060	3010	1398	1480
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
FLUORIDE	12.2	14	14.8	9.68	10.21	12.81	10.6	7.73	9.31	9.95
AMMONIA	.	.	.	.	.	.	.	.	.	.
NITRATE	<1.5	<1.5	<1.5	<0.1	12	38.6	32.4	<0.1	<2	2.25
PHOSPHORUS(TOTAL)	1.08	0.53	0.41	0.6	0.22	0.1	<0.05	0.07	<0.05	<0.05
BORON	2.2	2.3	2.6	2.1	1.17	2.2	2.2	2.1	1.52	1.5
BARIUM	0.08	0.08	0.1	0.08	0.05	0.09	0.06	0.1	0.05	0.06
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	.	.	.	.	.	.	.
FIELD pH	.	6.9	7	7.05	6.7	7.5	7.2	7.6	.	.
FIELD CONDUCTIVITY	.	4700	4700	4350	3000	4300	4800	5100	.	.
FIELD TEMPERATURE(C)	.	27.5	25	26	28	26.5	28	26	.	.

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	MP09-C	MP09-C	MP11-A	MP11-A	MP11-A	MP11-A	MP11-A	MP11-A	MP11-B	MP11-B
SAMPLE DATE	11/12/86	12/16/86	09/04/85	12/13/85	08/28/86	10/14/86	11/11/86	12/18/86	12/13/85	08/28/86
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	BEDROCK	BEDROCK	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	INTERFACE	INTERFACE
SILVER	.	.	<0.02	.	.	.	.	.	.	<0.05
ARSENIC	0.015	0.012	0.028	0.03	0.037	0.052	0.046	0.033	0.05	0.027
BERYLLIUM	.	.	<0.5	.	.	.	.	.	.	<0.02
CALCIUM	.	.	53	.	.	.	.	.	.	101
CADMIUM	.	.	<0.005	.	.	.	.	.	.	<0.002
CHROMIUM	<0.01	<0.01	<0.02	<0.02	<0.01	0.01	<0.01	<0.01	0.038	<0.01
COPPER	.	.	<0.05	.	.	.	.	.	.	<0.02
IRON	.	.	0.31	.	.	.	.	.	.	.
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	.	.	<0.001	.	.	.	.	.	.	0.0005
MAGNESIUM	.	.	28	.	.	.	.	.	.	52.3
MANGANESE	.	.	0.14	.	.	.	.	.	.	.
SODIUM	.	.	77	.	.	.	.	.	.	424
NICKEL	0.08	0.01	0.2	<0.1	0.19	0.19	0.22	0.15	<0.1	0.02
LEAD	.	.	0.03	.	.	.	.	.	.	<0.006
ANTIMONY	.	.	<0.05	.	.	<0.02	<0.002	.	.	<0.006
SELENIUM	.	.	<0.01	.	.	.	.	.	.	<0.006
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	.	.	<0.05	.	.	.	.	.	.	.
ZINC	.	.	<0.05	.	.	.	.	.	.	0.05
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	.	.	205	.	.	.	.	.	.	.
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	361	393	168	.	232	212	230	221	.	129
CHLORIDE	272	253	131	.	472	500	520	596	.	509
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	405	355	58	.	522	623	643	675	.	718
TDS	1450	1480	520	.	1795	2130	2110	2030	.	1940
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	<0.03	<0.03	<0.05	.	<0.03	<0.03	<0.03	<0.03	.	<0.03
FLUORIDE	9.04	6.443	2.9	3	3.7	4.15	4.13	6.08	4.5	3.33
AMMONIA	.	.	.	.	.	.	.	.	.	.
NITRATE	<1.5	<0.1	5.3	.	20.6	23.3	21.9	<0.1	.	12.5
PHOSPHORUS(TOTAL)	<0.05	<0.05	0.14	0.01	0.07	0.1	<0.05	<0.05	0.04	0.07
BORON	2.9	1.4	0.19	.	1.2	1.3	1.4	1.4	.	1.6
BARIUM	0.06	0.06	0.13	.	0.11	0.12	<0.01	0.09	.	0.19
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	0.06	.	0.45	0.44	0.05	0.07	.	0.45
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	7.1	.	.	.	.	.	.	.
FIELD pH	.	.	7.3	7.4	7.08	7.05	7.2	7.1	.	8.71
FIELD CONDUCTIVITY	.	.	773	1350	2400	3000	3000	2800	.	3100
FIELD TEMPERATURE(C)	.	.	25.2	22.4	26	25	25.5	25	.	27

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	MP11-B	MP11-B	MP11-B	MP11-C	MP13-A	MP13-B	MP13-B	MP13-D	MP16-A	MP16-B
SAMPLE DATE	10/14/86	11/11/86	12/18/86	09/04/85	12/13/85	12/13/85	03/19/86	03/19/86	06/12/86	03/20/86
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	INTERFACE	INTERFACE	BEDROCK	ALLUVIUM	INTERFACE	INTERFACE	BEDROCK	ALLUVIUM	INTERFACE
SILVER	.	.	.	<0.02	.	.	0.02	<0.02	<0.02	<0.02
ARSENIC	0.032	0.0264	0.026	0.022	<0.02	0.04	0.023	<0.02	<0.02	0.086
BERYLLIUM	.	.	.	<0.5	.	.	<0.5	<0.5	<0.5	<0.5
CALCIUM	.	.	.	70	.	.	34	67	162	5.4
CADMIUM	.	.	.	<0.005	.	.	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	0.056	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
COPPER	.	.	.	0.07	.	.	<0.05	<0.05	<0.05	<0.05
IRON	.	.	.	15	.	.	0.27	0.1	<0.1	0.12
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	.	.	.	<0.001	.	.	<0.001	<0.001	<0.001	<0.001
MAGNESIUM	.	.	.	8	.	.	5.4	15	80	0.5
MANGANESE	.	.	.	0.51	.	.	0.07	0.05	0.19	<0.05
SODIUM	.	.	.	280	.	.	265	36	610	353
NICKEL	0.14	0.06	0.07	0.13	<0.1	<0.1	<0.1	<0.1	0.14	<0.1
LEAD	.	.	.	0.065	.	.	0.16	0.079	0.042	0.053
ANTIMONY	<0.02	<0.002	.	<0.05	.	.	<0.05	<0.05	<0.02	<0.05
SELENIUM	.	.	.	<0.01	.	.	<0.01	<0.01	<0.01	<0.01
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	.	.	.	<0.05	.	.	<0.05	<0.05	<1	<0.05
ZINC	.	.	.	0.41	.	.	0.19	<0.05	0.46	<0.05
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	.	.	.	380	.	.	234	276	365	392
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	63	<1	141	312	.	.	192	226	299	451
CHLORIDE	110	406	494	83	.	.	156	34	736	95
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	129	664	820	320	.	.	330	15	710	180
TDS	578	1760	1750	930	.	.	1010	342	2770	1100
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	<0.03	<0.03	<0.03	<0.05	.	.	<0.05	<0.05	<0.05	<0.05
FLUORIDE	2.87	2.64	5.41	11.6	5.5	2.6	6	3.2	7.1	16
AMMONIA	.	.	.	.	.	.	0.2	0.2	<0.1	0.7
NITRATE	<1.5	<6	<6	3.7	.	.	2.3	2.1	15	2.5
PHOSPHORUS(TOTAL)	0.1	0.06	0.21	1.5	<0.01	0.25	<0.01	<0.01	<0.01	0.21
BORON	0.9	1.5	1.2	1.3	.	.	2	0.22	4.2	2.9
BARIUM	0.18	0.07	0.12	0.2	.	.	<0.1	<0.1	<0.1	<0.1
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	0.05	<0.01	.	.	<0.01	<0.01	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	12	.	.	4.6	6.9	30	12
FIELD pH	8.6	9	8.4	8.9	7.4	7.9	.	.	7.2	9
FIELD CONDUCTIVITY	2300	2950	2300	1012	530	1500	.	.	4000	1400
FIELD TEMPERATURE(C)	25	25.5	25	27.8	23	22.5	.	.	30.4	24

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	MP16-D	MP20-A	MP20-C	MP28-B	MP28-D	MP30-A	MP30-D	MP36-A	MP36-A	MP36-A
SAMPLE DATE	03/20/86	03/17/86	03/17/86	08/30/85	08/30/85	03/19/86	03/19/86	08/30/85	12/13/85	08/28/86
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	BEDROCK	INTERFACE	BEDROCK	BEDROCK	BEDROCK	ALLUVIUM	BEDROCK	ALLUVIUM	ALLUVIUM	ALLUVIUM
SILVER	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	.	.
ARSENIC	<0.02	0.044	<0.02	<0.02	<0.02	0.04	<0.02	0.097	0.03	0.018
BERYLLIUM	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	.	.
CALCIUM	16	66	25	103	150	92	49	163	.	.
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	.	.
CHROMIUM	<0.02	<0.02	<0.02	0.025	0.063	<0.02	<0.02	<0.02	<0.02	<0.01
COPPER	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	.	.
IRON	0.23	<0.1	0.17	0.38	0.38	<0.1	0.17	0.44	.	.
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	.	.
MAGNESIUM	3	23	1.1	27	22	57	14	86	.	.
MANGANESE	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2	.	.
SODIUM	279	440	290	570	270	160	150	260	.	.
NICKEL	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.04
LEAD	0.026	<0.02	<0.02	0.09	<0.02	<0.02	<0.02	<0.02	.	.
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	.	.
SELENIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	.	.
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	.	.
ZINC	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	.	.
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	505	279	<2	137	188	500	237	670	.	.
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	414	229	68	112	154	410	194	550	.	365
CHLORIDE	84	364	288	184	171	154	99	361	.	426
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	140	437	288	1350	690	128	170	220	.	427
TDS	840	1590	1040	2160	1500	892	662	1640	.	1760
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	.	<0.03
FLUORIDE	16	6.2	2.2	3.8	3.2	5	5	6.4	6.5	7.06
AMMONIA	<0.1	<0.1	0.4	.	.	<0.1	<0.1	.	.	.
NITRATE	<0.2	3.3	2.2	3.9	3.9	1	2.2	11.4	.	33.6
PHOSPHORUS(TOTAL)	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	0.11	<0.01	<0.05
BORON	2.7	1.8	5.1	4.6	2.1	0.3	0.41	1.5	.	1.4
BARIUM	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	.	0.09
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	.	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	3.7	8.5	9.2	12	5.4	3.8	3.8	18	.	.
FIELD pH	.	8.3	11.1	.	6.9	7	.	.	6.9	6.79
FIELD CONDUCTIVITY	.	4020	2950	.	2290	840	.	.	304	2900
FIELD TEMPERATURE(C)	.	20	21	.	29.4	19	.	.	29.7	26

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	MP36-A	MP36-A	MP36-A	MP36-B	MP36-B	MP36-B	MP36-B	MP36-B	MP36-C	MP48-D
SAMPLE DATE	10/14/86	11/11/86	12/15/86	12/13/85	08/27/86	10/14/86	11/11/86	12/15/86	08/30/85	08/27/85
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	ALLUVIUM	ALLUVIUM	ALLUVIUM	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	BEDROCK	BEDROCK
SILVER	.	.	.	.	.	.	.	.	<0.02	<0.02
ARSENIC	0.022	0.019	0.0183	0.086	1.2	0.094	0.108	0.085	0.049	<0.02
BERYLLIUM	.	.	.	.	.	.	.	.	<0.5	<0.5
CALCIUM	.	.	.	.	.	.	.	.	51	38
CADMIUM	.	.	.	.	.	.	.	.	<0.005	<0.005
CHROMIUM	0.01	<0.01	<0.01	<0.02	<0.03	<0.01	<0.01	<0.01	<0.02	<0.02
COPPER	.	.	.	.	.	.	.	.	<0.05	<0.05
IRON	.	.	.	.	.	.	.	.	0.11	<0.1
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	.	.	.	.	.	.	.	.	<0.001	<0.001
MAGNESIUM	.	.	.	.	.	.	.	.	21	9.2
MANGANESE	.	.	.	.	.	.	.	.	0.73	<0.05
SODIUM	.	.	.	.	.	.	.	.	300	340
NICKEL	0.08	0.08	0.06	<0.1	0.03	0.05	0.04	0.09	0.11	<0.1
LEAD	.	.	.	.	.	.	.	.	0.02	<0.02
ANTIMONY	<0.02	<0.002	.	.	.	<0.02	<0.002	.	<0.05	<0.05
SELENIUM	.	.	.	.	.	.	.	.	<0.01	<0.01
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	.	.	.	.	.	.	.	.	<0.05	<0.05
ZINC	.	.	.	.	.	.	.	.	<0.05	<0.05
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	.	.	.	.	.	.	.	.	275	347
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	338	376	371	.	170	153	168	184	225	284
CHLORIDE	336	336	406	.	1200	1340	1370	1770	199	252
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	439	391	455	.	1108	1030	1050	1320	310	226
TDS	1740	1650	1550	.	3866	3740	4130	4000	1080	1100
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	<0.03	<0.03	<0.03	.	<0.03	<0.03	<0.03	<0.03	<0.05	<0.05
FLUORIDE	6.44	7.75	8.25	30	22	17.9	20.63	29.4	9.2	4
AMMONIA	.	.	.	.	.	.	.	.	.	.
NITRATE	30.9	26.2	37.7	.	88.9	78.1	71	113	3.4	2.3
PHOSPHORUS(TOTAL)	<0.05	<0.05	<0.05	0.99	1.22	0.97	1.1	1.11	0.22	<0.01
BORON	1.3	1.3	1.2	.	2.87	2.8	1.5	2.9	0.89	3.3
BARIUM	0.08	<0.01	<0.1	.	0.12	0.12	<0.01	<0.1	<0.1	<0.1
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	<0.01	.	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	.	.	.	.	.	11	6.4
FIELD pH	6.7	7.05	7.1	.	6.41	6.4	6.55	6.6	.	7.4
FIELD CONDUCTIVITY	2650	2600	2600	.	6100	5900	6400	6200	.	1596
FIELD TEMPERATURE(C)	27	25.5	26	.	26	27	25.5	26	.	28

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	MP49-B	MP49-D	MP50-B	MP50-D	MP51-B	MP51-D	MP52-B	MP52-C	MP53-B	MP53-D
SAMPLE DATE	03/11/86	03/11/86	08/26/85	08/27/85	03/13/86	03/13/86	03/17/86	03/13/86	08/23/85	08/23/85
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	BEDROCK	ALLUVIUM	BEDROCK	ALLUVIUM	BEDROCK	INTERFACE	BEDROCK	INTERFACE	BEDROCK
SILVER	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
ARSENIC	0.024	<0.02	<0.02	<0.02	0.063	<0.02	<0.02	<0.02	0.087	0.027
BERYLLIUM	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CALCIUM	44	22	36	71	14	80	153	52	36	16
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.054	<0.02
COPPER	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
IRON	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.12	<0.1	0.15	0.27
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MAGNESIUM	23	5	38	13	14.1	13.4	62	7.6	38	15
MANGANESE	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SODIUM	270	163	200	220	460	270	670	260	590	150
NICKEL	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
LEAD	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.11	<0.02	<0.02	<0.02
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ZINC	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	329	288	322	245	529	214	237	351	467	256
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	270	236	264	201	434	175	194	288	383	210
CHLORIDE	223	67	241	169	315	191	418	137	438	50
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	193	98	100	230	192	292	1240	165	562	125
TDS	984	566	820	940	1340	1050	2710	996	1950	470
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
FLUORIDE	2.5	3.8	7	4	3.3	4.1	3.2	2.2	6.5	4.6
AMMONIA	<0.1	<0.1	.	.	<0.1	<0.1	<0.1	<0.1	.	.
NITRATE	4.9	4.1	2.3	5	5	7.2	7.1	5	3.2	6.6
PHOSPHORUS(TOTAL)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
BORON	0.88	0.61	0.54	1.35	1.3	1.1	4.4	1.4	2.2	0.36
BARIUM	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	7.4	4.8	13	5.3	3.1	4.6	9.1	6.6	9.4	2.7
FIELD pH	7.1	7.4	7.5	7.5	.	.	7.8	.	7.3	7.3
FIELD CONDUCTIVITY	1969	1113	1700	1201	.	.	5320	.	3280	656
FIELD TEMPERATURE(C)	22.7	23.5	27.7	26.9	.	.	23.3	.	29.6	28.6

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	PZ01	PZ02	PZ03	PZ04	PZ05	PZ06	PZ07	PZ08	PZ09	PZ10
SAMPLE DATE	12/16/85	12/17/85	12/16/85	12/17/85	12/16/85	12/13/85	12/17/85	12/16/85	12/18/85	12/18/85
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM
SILVER	.	.	.	.	.	.	.	.	.	.
ARSENIC	0.046	0.02	<0.02	0.03	0.16	0.04	0.29	<0.02	0.14	0.07
BERYLLIUM	.	.	.	.	.	.	.	.	.	.
CALCIUM	.	.	.	.	.	.	.	.	.	.
CADMIUM	.	.	.	.	.	.	.	.	.	.
CHROMIUM	<0.02	<0.02	0.1	<0.02	<0.02	0.025	<0.02	0.025	<0.02	<0.02
COPPER	.	.	.	.	.	.	.	.	.	.
IRON	.	.	.	.	.	.	.	.	.	.
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	.	.	.	.	.	.	.	.	.	.
MAGNESIUM	.	.	.	.	.	.	.	.	.	.
MANGANESE	.	.	.	.	.	.	.	.	.	.
SODIUM	.	.	.	.	.	.	.	.	.	.
NICKEL	<0.1	<0.1	0.11	<0.1	0.2	<0.1	0.11	0.2	<0.1	0.14
LEAD	.	.	.	.	.	.	.	.	.	.
ANTIMONY	.	.	.	.	.	.	.	.	.	.
SELENIUM	.	.	.	.	.	.	.	.	.	.
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	.	.	.	.	.	.	.	.	.	.
ZINC	.	.	.	.	.	.	.	.	.	.
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	.	.	.	.	.	.	.	.	.	.
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	.	.	.	.	.	.	.	.	.	.
CHLORIDE	.	.	.	.	.	.	.	.	.	.
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	.	.	.	.	.	.	.	.	.	.
TDS	.	.	.	.	.	.	.	.	.	.
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	.
FLUORIDE	4.7	3	2	14	7.1	12	8.4	7.1	7.1	10
AMMONIA	.	.	.	.	.	.	.	.	.	.
NITRATE	.	.	.	.	.	.	.	.	.	.
PHOSPHORUS(TOTAL)	0.05	<0.01	0.18	0.06	0.12	<0.01	0.13	0.9	<0.01	<0.01
BORON	.	.	.	.	.	.	.	.	.	.
BARIUM	.	.	.	.	.	.	.	.	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	.	.	.	.	.	.	.	.
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	.	.	.	.	.	.	.
FIELD pH	7.3	7.3	7.2	7.5	6.9	7.1	6.8	.	6.9	6.9
FIELD CONDUCTIVITY	2900	1300	680	2230	1400	4010	2950	.	2100	2400
FIELD TEMPERATURE(C)	24.5	23	24	26.1	25	27.2	25	.	26	28

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1	SW-1
SAMPLE DATE	08/01/85	08/08/85	10/18/85	03/26/86	08/27/86	09/24/86	10/17/86	10/30/86	11/13/86	11/26/86
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	.	<0.02	<0.02	<0.02	<0.05	.	<0.05	.	<0.05	.
ARSENIC	.	<0.02	0.045	0.023	2.6	0.45	0.032	0.044	0.048	0.029
BERYLLIUM	.	<0.5	<0.1	<0.5	<0.02	.	.	.	<0.003	.
CALCIUM	.	240	260	160	299	.	197	.	318	.
CADMIUM	.	<0.005	<0.005	<0.005	0.002	.	0.006	.	0.009	.
CHROMIUM	1.9	0.6	3.2	0.64	1.26	0.14	0.22	0.2	0.06	0.08
COPPER	.	<0.05	<0.05	<0.05	<0.02	.	<0.02	.	<0.02	.
IRON	.	0.19	2.4	20	.	.	.	.	.	.
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	.	<0.001	<0.001	<0.001	<0.0005	.	<0.001	.	<0.0002	.
MAGNESIUM	.	87	114	68	122	.	136	.	129	.
MANGANESE	.	2.8	2.8	1.7	.	.	.	.	.	.
SODIUM	.	507	630	310	729	.	759	.	687	.
NICKEL	.	0.12	<0.1	<0.1	0.07	0.01	<0.06	0.07	0.04	0.05
LEAD	.	<0.02	<0.02	0.023	0.0046	.	0.02	.	<0.004	.
ANTIMONY	.	<0.5	<0.05	<0.05	<0.005	.	<0.02	.	<0.02	.
SELENIUM	.	<0.01	<0.01	<0.01	<0.008	.	<0.005	.	<0.01	.
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	.	<0.05	<0.05	<0.05	.	.	.	.	.	.
ZINC	.	<0.05	0.05	0.1	0.11	.	0.09	.	<0.025	.
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	.	451	211	255	.	.	.	.	.	.
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	.	370	173	209	145	240	415	429	425	375
CHLORIDE	.	615	725	560	1200	738	1140	1350	1010	1000
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	.	880	1040	510	1155	534	880	824	966	905
TDS	2830	2470	3210	2180	3923	2210	3640	3589	3600	3610
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	0.77	<0.05	3.5	<0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03
FLUORIDE	19	12	9	12	15.3	9.47	14.3	13.8	16	16.7
AMMONIA	.	.	.	12	.	.	.	.	.	.
NITRATE	.	7.5	33	7.1	102	<1.5	<3.1	<0.1	<0.1	<0.1
PHOSPHORUS(TOTAL)	.	135	0.71	0.85	0.3	0.09	<0.05	1.94	0.6	1.93
BORON	.	2.7	3.3	1.7	2.99	2.1	3	3	2.9	2.8
BARIUM	.	<0.5	0.12	0.1	0.14	0.23	0.15	0.18	0.16	0.11
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	0.02	0.07	0.02	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	17	14	7.7	.	.	.	.	.	.
FIELD pH	.	.	7	6.8	6.3	6.85	6.6	6.9	6.8	7.3
FIELD CONDUCTIVITY	.	.	4600	3250	5900	4100	5100	5600	4800	5600
FIELD TEMPERATURE(C)	.	.	27.9	26.6	28	26	27	26.6	26.5	24

TABLE E3.1
RI (1985-1986) INORGANICS IN PPM

WELL	SW-1
SAMPLE DATE	12/19/86
SAMPLE CODE	FO
ZONE	INTERFACE
SILVER	<0.05
ARSENIC	0.015
BERYLLIUM	<0.01
CALCIUM	292
CADMIUM	<0.01
CHROMIUM	0.01
COPPER	<0.02
IRON	.
HARDNESS	.
MERCURY	<0.0002
MAGNESIUM	122
MANGANESE	.
SODIUM	761
NICKEL	0.03
LEAD	0.007
ANTIMONY	<0.02
SELENIUM	<0.01
SILICA	.
THALLIUM	.
ZINC	0.02
CARBONATE	.
BICARBONATE	.
HYDROXIDE	.
ALKALINITY	414
CHLORIDE	1040
pH	.
SULFATE	948
TDS	3410
BOD	.
CHROMIUM(HEX)	<0.03
FLUORIDE	25.1
AMMONIA	.
NITRATE	<0.1
PHOSPHORUS(TOTAL)	0.55
BORON	2.7
BARIUM	0.14
PHOSPHATE(ORTHO)	.
CYANIDE(TOTAL)	<0.01
CONDUCTIVITY	.
POTASSIUM	.
FIELD pH	7.35
FIELD CONDUCTIVITY	5200
FIELD TEMPERATURE(C)	26

TABLE E3.2
RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)
40&VB	03/06/86	800	7.30	25.10
40&VB	06/04/86	3000	7.50	24.50
4626G	03/06/86	900	6.10	24.60
4626G	06/04/86	1700	7.10	25.00
48&VB	10/03/85	1056	6.80	27.70
48&VB	03/06/86	800	7.10	26.30
48&VB	06/04/86	980	7.00	24.00
AZNGD	10/03/85	1014	7.30	29.70
AZNGD	03/05/86	297	7.50	27.50
AZNGD	06/03/86	960	7.00	30.00
AZNGD_N	03/05/86	1880	11.80	25.90
AZNGD_N	06/03/86	2550	11.10	29.50
AZNGD_S	03/05/86	1360	7.20	27.10
AZNGD_S	06/03/86	1300	7.10	28.10
AZSLD	10/03/85	2610	7.60	25.50
AZSLD	03/06/86	1100	7.60	26.00
AZSLD	06/04/86	2700	7.50	26.00
DM101-045	09/25/85	1169	6.90	28.70
DM101-045	10/10/85	1128	7.20	26.00
DM101-045	11/14/85	900	7.60	23.00
DM101-045	03/25/86	1200	6.90	28.70
DM101-045	06/27/86	1200	6.70	30.40
DM101-094	09/25/85	922	6.60	28.40
DM101-094	10/10/85	907	6.40	26.00
DM101-094	11/14/85	650	7.10	23.00
DM101-102	03/25/86	1000	7.20	28.50
DM101-102	06/27/86	1200	5.90	29.80
DM101-140	09/25/85	937	6.90	28.60
DM101-140	10/10/85	848	7.10	26.00
DM101-140	11/14/85	800	6.90	23.00
DM101-140	03/25/86	980	6.30	29.40
DM101-140	06/27/86	1050	6.70	29.50
DM101B	10/02/85	2400	7.20	29.10
DM101B	11/21/85	1623	7.30	28.30
DM101B	12/20/85	1970	7.20	30.50
DM101B	01/30/86	1800	7.30	26.50
DM101B	03/25/86	1800	7.40	30.00
DM101B	06/19/86	2300	7.40	29.50
DM102-048	09/27/85	1721	6.90	26.30
DM102-048	10/22/85	1895	7.30	25.60
DM102-048	11/14/85	2400	7.30	20.00
DM102-048	03/24/86	2200	7.50	27.30
DM102-048	06/27/86	2200	7.10	30.10
DM102-065	03/24/86	2000	6.80	27.10
DM102-065	06/27/86	4800	6.90	30.50
DM102-119	09/27/85	1333	6.90	26.70
DM102-119	10/22/85	1275	7.20	25.20
DM102-119	11/14/85	1200	7.10	20.00
DM102-144	03/24/86	2200	6.90	27.30
DM102-144	06/27/86	1600	6.90	30.50
DM102-191	09/27/85	975	7.50	27.10
DM102-191	10/22/85	965	7.70	26.10
DM102-191	11/14/85	1000	7.50	21.00
DM102-233	10/22/85	780	7.70	26.20
DM102-233	03/24/86	1800	6.80	28.30
DM102-233	06/27/86	2000	7.00	31.50
DM102-299	09/30/85	895	6.70	28.00
DM102-299	11/14/85	800	7.20	22.00
DM102-319	10/22/85	908	7.00	26.70
DM102-319	03/24/86	1800	7.30	28.20

TABLE E3.2
RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)
DM102-319	06/27/86	1950	6.80	30.40
DM102-377	09/30/85	888	6.50	28.00
DM102-377	10/22/85	811	6.80	27.10
DM102-377	11/14/85	800	6.90	22.00
DM102-489	09/30/85	819	6.60	28.50
DM102-489	10/22/85	883	7.40	28.20
DM102-489	11/14/85	900	7.10	21.50
DM102-489	03/25/86	2000	7.50	27.00
DM102-489	06/27/86	2200	6.50	31.60
DM103-032	08/22/85	1412	7.20	29.90
DM103-047	10/07/85	1569	7.10	27.50
DM103-047	12/02/85	1500	7.50	21.00
DM103-047	06/23/86	1750	6.80	28.60
DM103-064	03/18/86	1600	7.10	21.90
DM103-064	06/23/86	2100	7.30	28.60
DM103-123	08/22/85	1620	7.30	28.80
DM103-123	10/07/85	1679	7.60	28.60
DM103-123	12/02/85	1600	7.90	22.00
DM103-163	06/23/86	2000	6.80	29.00
DM103-178	10/07/85	1659	7.10	29.20
DM103-178	12/02/85	1600	7.00	22.00
DM103-178	03/18/86	1750	7.20	22.90
DM103-203	08/22/85	1248	6.80	27.90
DM103-243	10/07/85	1608	7.20	29.70
DM103-243	12/02/85	1600	7.20	22.00
DM103-243	06/23/86	1500	7.10	29.00
DM103-289	03/18/86	1025	7.40	23.90
DM103-304	08/22/85	970	7.20	29.90
DM103-304	10/07/85	1236	7.30	28.00
DM103-324	12/02/85	300	7.60	22.00
DM103-389	08/22/85	720	7.20	29.80
DM103-389	10/07/85	912	7.20	27.00
DM103-389	12/02/85	660	7.30	22.00
DM103-389	03/18/86	800	7.10	25.10
DM103-389	06/23/86	1200	7.20	30.10
DM104-052	09/12/85	1664	7.60	24.00
DM104-052	10/18/85	1743	7.50	23.30
DM104-052	11/21/85	1750	8.10	23.00
DM104-052	03/13/86	1750	7.20	20.20
DM104-052	06/20/86	2000	7.70	28.70
DM104-101	03/13/86	2000	7.60	21.50
DM104-101	06/20/86	2300	7.60	28.50
DM104-124	11/21/85	1450	8.00	23.00
DM104-146	09/12/85	1667	7.50	24.50
DM104-146	10/18/85	1501	7.40	24.50
DM104-146	06/20/86	2200	7.40	28.60
DM104-158	03/13/86	2000	7.10	22.80
DM104-191	09/12/85	1771	6.90	26.20
DM104-191	10/18/85	1684	7.00	24.10
DM104-191	11/21/85	1700	7.30	23.00
DM104-191	03/13/86	1975	7.10	22.80
DM104-191	06/20/86	2200	7.00	28.40
DM104-261	10/18/85	1632	7.20	25.90
DM104-281	03/13/86	2000	7.40	22.00
DM104-281	06/20/86	2400	7.30	27.40
DM104-293	09/12/85	1726	7.10	26.30
DM104-293	11/21/85	1800	7.70	23.50
DM106-040	03/28/86	1600	7.10	27.60
DM106-040	06/25/86	1750	7.30	30.60
DM106-062	09/25/85	1428	7.60	23.00

TABLE E3.2
RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)
DM106-062	10/09/85	1241	7.50	24.00
DM106-062	12/02/85	1700	7.20	23.00
DM106-118	03/28/86	2100	7.10	27.30
DM106-118	06/25/86	2200	7.10	30.50
DM106-140	09/25/85	1344	7.80	23.50
DM106-140	06/25/86	1600	7.50	29.20
DM106-160	12/02/85	1750	7.10	23.00
DM106-205	09/25/85	1672	6.90	24.00
DM106-205	10/09/85	1899	6.90	26.30
DM106-205	12/02/85	1800	7.10	24.00
DM106-205	03/28/86	2000	6.90	28.60
DM106-205	06/25/86	2200	7.10	29.30
DM106-267	09/25/85	1674	7.00	25.00
DM106-267	10/09/85	1874	6.90	27.20
DM106-267	12/02/85	1800	7.20	24.00
DM106-267	06/25/86	2200	7.10	30.60
DM106-332	03/28/86	1400	7.00	30.30
DM106-332	06/25/86	1750	6.90	29.40
DM106-347	09/25/85	997	7.30	25.20
DM106-347	12/02/85	880	7.20	24.00
DM107	06/18/86	7100	6.90	30.70
DM111	03/25/86	1450	7.30	23.00
DM111	06/19/86	2200	7.30	26.30
DM112	03/25/86	1650	7.80	22.50
DM112	06/20/86	2200	7.10	26.70
DM113	03/05/86	1275	7.20	26.00
DM113	06/20/86	1200	7.10	26.00
DM114	03/06/86	1015	6.90	26.30
DM114	06/20/86	1000	7.20	26.00
DM115	03/04/86	4670	7.10	25.50
DM115	06/18/86	5200	6.90	27.20
DM117	06/20/86	2200	6.90	27.10
DM117	08/21/86	2100	6.70	27.00
DM118	07/29/86	2400	7.10	26.00
DM118	08/21/86	2700	6.70	26.00
DM119-072	10/07/86	2400	7.40	27.60
DM119-137	10/07/86	2425	7.20	27.50
DM119-244	10/07/86	960	6.90	29.30
DM120	07/30/86	2200	8.00	24.20
DM120	08/12/86	1900	7.40	27.00
DM120	08/19/86	2000	7.40	26.50
DM120	09/08/86	2000	7.50	28.20
DM121-043	10/07/86	1400	7.10	30.10
DM121-125	10/07/86	1850	7.40	28.60
DM121-219	10/07/86	1200	7.30	29.20
DM121-284	10/07/86	1600	7.50	30.70
DM122-A	07/31/86	2600	7.60	26.00
DM122-A	08/20/86	2500	7.40	26.00
DM122-B	07/31/86	3000	7.30	26.00
DM122-B	08/20/86	2300	7.10	25.00
DM123-056	10/07/86	1175	7.20	31.20
DM123-135	10/07/86	1500	6.90	31.20
DM123-285	10/07/86	1400	6.90	30.50
DM124	07/30/86	2200	7.00	27.40
DM124	08/19/86	2050	6.80	28.00
DM125-046	10/07/86	2000	7.10	31.40
DM125-076	10/07/86	2000	7.20	28.20
DM125-155	10/07/86	2425	6.90	27.50
DM125-270	10/07/86	1650	6.80	28.30
DM126	08/22/86	3200	6.90	25.00

TABLE E3.2
RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)
DM126	09/02/86	3000	6.90	25.40
DM301	06/16/86	.	8.30	29.10
DM301	08/29/86	4900	7.62	29.00
DM301	09/25/86	9400	6.40	27.00
DM301	10/17/86	10000	1.60	27.00
DM301	10/30/86	6100	5.65	26.50
DM301	11/12/86	6050	6.70	25.00
DM302	06/16/86	5600	6.60	28.30
DM302	08/20/86	5700	6.56	29.60
DM302	11/13/86	6050	6.40	26.00
DM302	11/26/86	6700	6.95	26.00
DW-1	09/11/85	785	7.50	27.70
DW-1	10/02/85	614	8.60	27.20
DW-1	11/20/85	765	8.20	30.60
DW-1	12/19/85	619	8.60	22.60
DW-1	01/28/86	630	8.40	28.00
DW-1	03/26/86	400	8.10	29.30
MP03-A	09/09/85	1885	6.40	26.60
MP03-A	10/17/85	1908	6.50	25.20
MP03-A	11/18/85	3980	6.50	24.80
MP03-A	12/19/85	3950	6.40	23.80
MP03-B	09/05/85	4650	6.10	26.80
MP03-B	10/18/85	4720	6.10	26.40
MP03-B	11/21/85	4690	6.10	30.10
MP03-B	12/18/85	5650	6.10	26.60
MP03-B	03/24/86	3400	5.90	23.00
MP03-B	03/27/86	3050	5.90	27.70
MP03-B	06/19/86	6000	6.00	26.00
MP03-C	09/06/85	1484	11.10	32.70
MP03-C	10/16/85	680	10.00	25.10
MP03-C	11/18/85	1091	10.60	24.70
MP03-C	12/20/85	1212	10.00	25.10
MP03-C	03/24/86	1300	9.10	23.00
MP03-C	08/28/86	2100	9.68	28.70
MP03-C	09/24/86	1800	9.40	28.00
MP03-C	10/16/86	2000	9.20	27.00
MP03-C	10/28/86	1900	9.10	26.00
MP03-C	11/12/86	2100	8.90	27.00
MP03-C	11/24/86	2000	8.00	25.00
MP03-C	12/17/86	1700	8.80	24.50
MP03-D	09/05/85	1129	9.40	27.30
MP03-D	10/18/85	885	9.70	26.20
MP03-D	11/21/85	825	8.70	28.50
MP03-D	12/18/85	1028	8.10	25.50
MP03-D	03/24/86	680	8.80	28.00
MP03-D	06/19/86	1300	9.90	29.00
MP03-D	08/27/86	1400	9.94	31.60
MP03-D	10/16/86	1600	10.10	27.00
MP03-D	11/12/86	1200	9.10	29.00
MP03-D	12/17/86	1600	8.50	24.50
MP09-A	09/10/85	2830	6.90	27.60
MP09-A	10/18/85	1954	7.00	27.30
MP09-A	11/20/85	5170	7.00	25.30
MP09-A	12/19/85	1904	7.30	25.40
MP09-A	03/24/86	3200	7.00	29.30
MP09-A	03/27/86	3100	6.90	27.30
MP09-A	06/18/86	4900	6.90	28.00
MP09-A	08/27/86	5400	6.50	27.00
MP09-A	09/24/86	4700	7.05	26.50
MP09-A	10/15/86	5000	6.90	28.00

TABLE E3.2
RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)
MP09-A	10/28/86	3850	6.85	26.00
MP09-A	11/12/86	4700	6.90	27.50
MP09-A	11/24/86	4700	7.00	25.00
MP09-A	12/16/86	4350	7.05	26.00
MP09-B	09/11/85	3240	7.30	27.80
MP09-B	10/17/85	1822	7.20	25.40
MP09-B	11/18/85	3720	7.10	25.00
MP09-B	12/18/85	1834	7.10	25.70
MP09-B	08/27/86	3000	6.70	28.00
MP09-B	10/15/86	4300	7.50	26.50
MP09-B	11/12/86	4800	7.20	28.00
MP09-B	12/16/86	5100	7.60	26.00
MP09-C	09/10/85	1568	7.40	27.00
MP09-C	10/18/85	1663	7.50	26.60
MP09-C	11/20/85	2970	7.20	24.10
MP09-C	12/19/85	1666	6.30	24.50
MP09-D	09/09/85	1631	7.10	28.40
MP09-D	10/16/85	1734	7.20	24.40
MP09-D	11/18/85	3300	7.00	25.00
MP09-D	12/18/85	1890	7.10	25.30
MP09-D	03/24/86	1800	7.30	26.00
MP09-D	06/18/86	3100	7.00	28.00
MP11-A	09/04/85	773	7.30	25.20
MP11-A	10/15/85	1054	7.50	25.30
MP11-A	11/14/85	1288	7.30	23.30
MP11-A	12/13/85	1350	7.40	22.40
MP11-A	03/21/86	3210	7.30	25.90
MP11-A	06/13/86	2000	6.80	27.30
MP11-A	08/28/86	2400	7.08	26.00
MP11-A	10/14/86	3000	7.05	25.00
MP11-A	11/11/86	3000	7.20	25.50
MP11-A	12/18/86	2800	7.10	25.00
MP11-B	10/09/85	977	8.60	25.70
MP11-B	11/12/85	1184	11.10	20.20
MP11-B	12/12/85	1368	9.60	17.30
MP11-B	01/24/86	1505	10.90	21.70
MP11-B	03/20/86	1514	10.50	24.30
MP11-B	06/13/86	2000	10.10	29.90
MP11-B	08/28/86	3100	8.71	27.00
MP11-B	10/14/86	2300	8.60	25.00
MP11-B	11/11/86	2950	9.00	25.50
MP11-B	12/18/86	2300	8.40	25.00
MP11-C	09/04/85	1012	8.90	27.80
MP11-C	10/15/85	1386	8.70	28.50
MP11-C	11/14/85	1313	8.70	24.40
MP11-C	12/12/85	1268	8.70	27.80
MP11-C	03/21/86	1518	8.40	26.60
MP11-C	06/13/86	1600	8.30	28.20
MP11-D	09/05/85	728	8.10	27.60
MP11-D	10/09/85	738	8.20	27.20
MP11-D	11/12/85	726	8.40	26.60
MP11-D	12/12/85	781	8.80	21.90
MP11-D	01/24/86	929	8.30	24.70
MP11-D	03/20/86	1058	8.40	26.60
MP11-D	06/13/86	820	8.30	27.60
MP13-A	09/09/85	1337	6.90	25.50
MP13-A	10/08/85	1100	6.90	26.10
MP13-A	11/11/85	850	7.20	23.00
MP13-A	12/13/85	530	7.40	23.00
MP13-A	01/24/86	690	7.20	23.00

TABLE E3.2
RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)
MP13-A	03/19/86	340	9.40	20.00
MP13-A	06/19/86	980	7.00	25.00
MP13-B	09/06/85	1387	7.80	28.60
MP13-B	10/10/85	1600	7.60	27.10
MP13-B	11/13/85	1430	8.00	23.80
MP13-B	12/10/85	1204	8.20	21.20
MP13-B	12/13/85	1500	7.90	22.50
MP13-B	03/18/86	1756	8.10	20.60
MP13-B	06/19/86	1600	8.10	26.00
MP13-C	09/09/85	550	7.30	26.50
MP13-C	10/08/85	510	7.30	27.20
MP13-C	11/11/85	520	7.50	24.50
MP13-C	12/13/85	530	7.50	23.50
MP13-C	01/24/86	495	7.40	24.50
MP13-D	09/06/85	553	7.10	27.10
MP13-D	10/10/85	490	7.30	25.30
MP13-D	11/13/85	569	7.40	25.00
MP13-D	12/10/85	458	7.30	22.80
MP13-D	03/18/86	380	7.60	22.00
MP13-D	06/16/86	520	7.20	27.30
MP16-A	08/29/85	5050	7.00	29.80
MP16-A	10/11/85	4000	7.00	33.30
MP16-A	11/15/85	5100	7.20	26.40
MP16-A	12/17/85	1885	7.30	26.20
MP16-A	03/20/86	4200	7.20	23.00
MP16-A	06/12/86	4000	7.20	30.40
MP16-B	10/08/85	1000	9.00	29.00
MP16-B	11/13/85	1313	9.70	29.70
MP16-B	12/18/85	1300	9.20	26.00
MP16-B	01/27/86	1200	9.40	27.00
MP16-B	03/20/86	1400	9.00	24.00
MP16-B	06/12/86	1550	8.80	31.40
MP16-B	08/29/86	1700	9.00	29.40
MP16-C	09/03/85	1640	7.60	28.90
MP16-C	10/11/85	1500	7.90	27.80
MP16-C	11/15/85	1687	8.10	26.20
MP16-C	12/17/85	1604	7.90	24.90
MP16-C	01/29/86	1500	8.30	27.00
MP16-C	08/29/86	2200	7.70	28.10
MP16-D	10/08/85	950	7.60	27.90
MP16-D	11/13/85	1021	7.60	25.30
MP16-D	12/12/85	1375	7.80	22.60
MP16-D	03/19/86	2140	7.80	28.40
MP16-D	06/12/86	1600	7.20	30.60
MP16-D	06/13/86	1700	7.60	29.60
MP20-A	10/04/85	2470	8.60	28.10
MP20-A	11/08/85	1675	8.20	25.50
MP20-A	12/09/85	1817	8.30	22.60
MP20-A	03/17/86	4020	8.30	20.00
MP20-A	06/10/86	2500	7.70	27.50
MP20-B	10/07/85	3480	7.90	26.20
MP20-B	11/12/85	2800	8.30	24.00
MP20-B	12/10/85	1706	8.10	23.50
MP20-B	03/17/86	4140	8.90	20.50
MP20-B	06/10/86	3100	8.20	27.00
MP20-C	10/04/85	1740	9.50	27.30
MP20-C	11/08/85	1585	9.60	27.70
MP20-C	12/09/85	1817	9.40	24.40
MP20-C	03/17/86	2950	11.10	21.00
MP20-C	06/10/86	2200	9.70	27.20

TABLE E3.2
RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)
MP25-A	08/29/85	4320	11.30	32.90
MP25-A	08/30/85	5600	11.60	32.50
MP25-A	10/11/85	4460	11.20	28.00
MP25-A	11/15/85	1820	11.10	32.00
MP25-A	12/19/85	.	11.60	26.00
MP25-A	03/19/86	6220	11.50	29.40
MP25-A	06/12/86	4300	11.40	30.50
MP25-B	08/29/85	1557	8.60	30.60
MP25-B	10/09/85	1338	8.80	28.80
MP25-B	11/11/85	1094	9.20	27.00
MP25-B	12/16/85	1127	9.30	25.70
MP25-B	03/19/86	1835	9.20	28.40
MP25-B	06/11/86	1600	9.40	30.00
MP25-D	08/28/85	468	7.40	29.90
MP25-D	10/09/85	681	7.70	27.40
MP25-D	10/11/85	612	7.00	27.90
MP25-D	10/14/85	543	7.90	28.60
MP25-D	11/11/85	540	7.50	26.60
MP25-D	12/16/85	597	7.50	25.20
MP25-D	03/19/86	761	7.60	28.60
MP25-D	06/12/86	545	7.70	31.10
MP28-A	08/28/85	1940	10.90	33.90
MP28-A	10/10/85	1301	11.10	28.60
MP28-A	11/12/85	1327	11.50	18.30
MP28-A	12/20/85	1192	11.10	27.40
MP28-A	03/18/86	2350	11.40	25.00
MP28-A	06/11/86	1600	10.90	36.00
MP28-B	08/29/85	3280	7.70	29.50
MP28-B	10/08/85	1724	7.80	27.30
MP28-B	11/08/85	2000	8.40	26.00
MP28-B	12/10/85	1800	8.60	25.50
MP28-B	03/18/86	3930	8.30	25.00
MP28-B	06/11/86	2850	8.10	28.70
MP28-C	08/28/85	1980	7.40	29.99
MP28-C	10/10/85	1639	7.40	27.40
MP28-C	11/12/85	1714	7.40	23.10
MP28-C	12/12/85	1513	7.30	24.10
MP28-C	03/18/86	3090	7.50	25.30
MP28-C	06/11/86	2000	7.30	27.70
MP28-D	08/29/85	1770	7.00	30.30
MP28-D	08/30/85	2290	6.90	29.40
MP28-D	10/08/85	1687	7.10	28.30
MP28-D	11/08/85	1700	7.40	27.00
MP28-D	12/10/85	1750	7.60	25.00
MP28-D	03/17/86	1100	7.00	24.20
MP28-D	06/11/86	2100	7.10	29.10
MP30-A	09/03/85	1336	6.90	24.80
MP30-A	10/07/85	1362	6.90	26.40
MP30-A	11/08/85	1431	7.00	22.80
MP30-A	12/10/85	1738	7.30	20.70
MP30-A	03/19/86	840	7.00	19.00
MP30-A	06/12/86	1260	8.60	25.00
MP30-B	08/30/85	2450	9.80	26.10
MP30-B	10/09/85	1800	9.50	23.00
MP30-B	11/13/85	1475	9.00	23.20
MP30-B	12/12/85	1900	8.50	17.00
MP30-B	03/18/86	1200	8.90	19.00
MP30-B	06/10/86	1900	8.60	25.00
MP30-C	09/03/85	916	7.60	25.60
MP30-C	10/07/85	1000	7.00	29.90

TABLE E3.2
RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)
MP30-C	11/08/85	897	7.70	22.80
MP30-C	12/10/85	1003	8.20	20.80
MP30-C	03/19/86	560	8.00	19.00
MP30-C	06/12/86	880	8.80	26.00
MP30-D	08/30/85	960	7.30	28.00
MP30-D	10/09/85	1100	8.00	24.00
MP30-D	11/13/85	1081	7.50	23.70
MP30-D	12/12/85	980	8.00	22.00
MP30-D	03/18/86	670	7.60	20.50
MP30-D	06/10/86	1500	7.60	26.00
MP36-A	10/10/85	2840	6.70	26.10
MP36-A	11/14/85	2480	7.00	23.20
MP36-A	12/13/85	304	6.90	29.70
MP36-A	03/24/86	1900	7.10	22.00
MP36-A	06/17/86	2900	6.70	27.70
MP36-A	08/28/86	2900	6.79	26.00
MP36-A	10/14/86	2650	6.70	27.00
MP36-A	11/11/86	2600	7.05	25.50
MP36-A	12/15/86	2600	7.10	26.00
MP36-B	10/15/85	4100	6.80	24.50
MP36-B	11/15/85	1925	6.60	26.50
MP36-B	12/16/85	.	.	26.00
MP36-B	03/25/86	3400	6.70	28.40
MP36-B	06/17/86	5100	6.60	29.00
MP36-B	08/27/86	6100	6.41	26.00
MP36-B	10/14/86	5900	6.40	27.00
MP36-B	11/11/86	6400	6.55	25.50
MP36-B	12/15/86	6200	6.60	26.00
MP36-C	10/10/85	2220	7.90	25.70
MP36-C	11/14/85	3140	7.30	23.00
MP36-C	12/13/85	259	7.40	27.40
MP36-C	03/24/86	3000	7.30	22.00
MP36-C	06/17/86	5100	6.50	27.20
MP36-D	10/11/85	1126	8.00	26.20
MP36-D	10/14/85	1200	7.80	30.20
MP36-D	11/15/85	1322	8.00	27.10
MP36-D	12/16/85	1152	7.80	26.30
MP36-D	03/25/86	1000	8.00	28.20
MP36-D	06/17/86	1700	7.50	28.90
MP37-C	10/14/85	.	8.60	27.10
MP37-C	11/15/85	1160	8.40	30.50
MP37-C	12/17/85	1037	8.10	24.20
MP37-C	03/21/86	6800	8.00	22.00
MP37-C	06/13/86	1200	8.10	27.80
MP48-C	08/27/85	1931	8.50	27.70
MP48-C	10/04/85	3090	8.60	27.80
MP48-C	11/07/85	1724	8.50	25.10
MP48-C	12/06/85	3200	8.60	22.40
MP48-C	01/22/86	1850	8.60	25.00
MP48-C	01/23/86	2630	8.70	23.90
MP48-C	03/13/86	1500	8.30	25.70
MP48-C	06/09/86	2600	8.70	26.00
MP48-D	08/27/85	1596	7.40	28.00
MP48-D	10/02/85	1635	7.30	27.00
MP48-D	11/06/85	1499	7.60	25.30
MP48-D	12/05/85	1569	7.40	23.90
MP48-D	01/21/86	1535	7.70	24.10
MP48-D	03/17/86	1000	7.70	23.00
MP48-D	06/09/86	1850	7.60	27.00
MP48-E	08/20/85	1689	6.80	27.20

TABLE E3.2
RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)
MP48-E	08/22/85	1578	6.90	27.60
MP48-E	10/07/85	1640	7.15	27.50
MP48-E	11/07/85	1626	7.16	25.80
MP48-E	12/06/85	1833	7.30	23.70
MP48-E	01/20/86	1600	7.30	25.00
MP48-E	03/13/86	1000	6.70	24.10
MP48-E	06/09/86	2150	7.20	27.00
MP49-A	08/21/85	1459	7.30	27.00
MP49-A	10/01/85	2200	7.00	27.90
MP49-A	11/05/85	1265	7.90	25.10
MP49-A	12/04/85	1083	8.00	26.00
MP49-A	01/21/86	975	8.20	24.10
MP49-A	03/07/86	600	7.60	25.10
MP49-A	06/06/86	1100	7.80	26.50
MP49-B	08/22/85	1953	7.60	28.70
MP49-B	09/30/85	1800	8.90	27.10
MP49-B	10/04/85	1706	8.00	26.40
MP49-B	11/06/85	1500	8.20	25.00
MP49-B	12/04/85	1378	8.00	25.20
MP49-B	01/24/86	1465	7.40	23.30
MP49-B	03/11/86	1969	7.10	22.70
MP49-B	06/06/86	1950	7.50	26.10
MP49-B	08/26/86	1900	7.30	25.50
MP49-C	08/21/85	1914	11.60	29.80
MP49-C	10/01/85	2800	11.40	28.60
MP49-C	11/05/85	1632	11.50	24.80
MP49-C	12/05/85	2860	11.60	23.40
MP49-C	01/21/86	2780	11.60	24.20
MP49-C	03/07/86	1000	11.50	26.30
MP49-C	06/06/86	2400	11.00	27.10
MP49-C	08/26/86	2300	10.70	26.00
MP49-D	08/23/85	818	7.50	27.00
MP49-D	09/30/85	850	7.70	27.50
MP49-D	11/04/85	811	7.80	27.50
MP49-D	12/04/85	798	7.80	25.00
MP49-D	01/22/86	1038	7.90	25.40
MP49-D	03/11/86	1113	7.40	23.50
MP49-D	06/06/86	800	7.70	26.60
MP50-A	08/27/85	1568	7.40	27.10
MP50-A	10/02/85	1714	7.70	26.60
MP50-A	11/06/85	1900	7.80	25.00
MP50-A	12/05/85	1155	7.30	25.30
MP50-A	01/27/86	1950	7.90	26.00
MP50-A	03/06/86	2370	7.10	26.60
MP50-A	06/09/86	1700	7.40	26.40
MP50-B	08/26/85	1700	7.50	27.70
MP50-B	09/30/85	1400	7.50	26.20
MP50-B	11/04/85	1345	7.60	25.40
MP50-B	12/05/85	1320	7.70	24.70
MP50-B	01/21/86	1100	8.10	25.50
MP50-B	03/06/86	1313	7.60	26.90
MP50-B	06/09/86	1600	7.60	26.60
MP50-B	08/26/86	1650	7.30	26.00
MP50-D	08/27/85	1201	7.50	26.90
MP50-D	09/30/85	1600	7.20	26.40
MP50-D	11/04/85	1332	7.40	25.90
MP50-D	12/17/85	1300	7.40	25.00
MP50-D	01/21/86	1000	8.10	25.50
MP50-D	03/07/86	1284	7.10	26.90
MP50-D	06/09/86	1450	7.30	26.70

TABLE E3.2
RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)
MP50-D	08/26/86	1500	7.10	27.00
MP51-A	08/21/85	2810	7.70	27.80
MP51-A	10/01/85	2300	8.00	27.60
MP51-A	11/05/85	2530	7.60	25.50
MP51-A	12/04/85	1799	8.20	24.90
MP51-A	01/22/86	1900	8.00	25.00
MP51-A	03/10/86	2600	7.20	23.70
MP51-A	06/05/86	2200	8.00	26.00
MP51-B	08/21/85	1707	8.70	28.80
MP51-B	08/22/85	1740	8.00	28.20
MP51-B	10/02/85	1940	8.40	26.00
MP51-B	11/06/85	1817	8.30	25.70
MP51-B	12/05/85	2000	8.60	25.00
MP51-B	01/23/86	1600	8.60	25.00
MP51-B	01/24/86	1652	7.90	24.50
MP51-B	03/12/86	3240	7.30	24.80
MP51-B	06/05/86	2000	7.90	26.00
MP51-C	08/21/85	1653	7.80	29.10
MP51-C	10/01/85	1784	7.80	26.80
MP51-C	11/05/85	1824	7.70	24.70
MP51-C	12/04/85	1858	7.40	23.30
MP51-C	01/22/86	1400	7.90	25.00
MP51-C	03/10/86	1873	7.30	23.60
MP51-C	06/05/86	1900	7.40	26.00
MP51-C	08/25/86	2050	7.50	27.00
MP51-D	08/20/85	1421	7.30	28.80
MP51-D	10/02/85	1518	8.00	26.50
MP51-D	11/06/85	1463	7.40	26.20
MP51-D	12/05/85	1400	7.70	26.00
MP51-D	01/23/86	1300	7.90	26.00
MP51-D	03/12/86	2400	6.90	25.70
MP51-D	06/05/86	1800	7.40	26.00
MP51-D	08/25/86	1600	7.20	27.00
MP52-B	11/05/85	3400	7.70	26.00
MP52-B	12/04/85	3430	7.70	26.20
MP52-B	01/23/86	4200	7.90	26.10
MP52-B	03/17/86	5320	7.80	23.30
MP52-B	06/05/86	3650	7.50	26.60
MP52-B	08/26/86	3600	7.40	27.80
MP52-C	08/26/85	1001	7.60	28.90
MP52-C	11/07/85	1500	7.40	26.50
MP52-C	12/17/85	1285	7.40	25.20
MP52-C	01/23/86	1568	7.30	26.50
MP52-C	03/12/86	900	7.60	24.90
MP52-C	06/05/86	1500	7.60	27.50
MP52-C	08/26/86	1450	7.30	27.60
MP53-B	08/23/85	3280	7.30	29.60
MP53-B	09/30/85	3110	7.00	27.40
MP53-B	11/05/85	2800	7.60	27.00
MP53-B	12/03/85	1762	7.60	25.10
MP53-B	01/20/86	3520	7.60	25.80
MP53-B	03/10/86	1950	7.70	25.00
MP53-B	06/06/86	3200	7.00	27.00
MP53-B	08/29/86	3000	7.50	27.00
MP53-C	08/26/85	812	9.00	29.10
MP53-C	10/02/85	848	10.00	28.20
MP53-C	11/11/85	653	9.40	27.30
MP53-C	12/09/85	866	9.40	24.10
MP53-C	01/27/86	887	9.50	20.03
MP53-C	03/13/86	1126	8.60	27.70

TABLE E3.2
RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)
MP53-C	06/06/86	800	8.80	28.00
MP53-C	08/29/86	810	9.20	27.00
MP53-D	08/23/85	656	7.30	28.60
MP53-D	09/30/85	725	7.10	28.00
MP53-D	11/04/85	640	7.90	26.50
MP53-D	12/03/85	7410	7.80	25.20
MP53-D	01/20/86	779	8.00	25.50
MP53-D	03/10/86	4200	8.80	23.00
MP53-D	06/06/86	730	7.20	27.00
PZ01	10/15/85	2300	7.50	26.00
PZ01	11/18/85	1797	7.30	25.00
PZ01	12/16/85	2900	7.30	24.50
PZ01	03/21/86	5740	7.50	25.60
PZ01	06/18/86	3900	7.10	26.00
PZ02	10/18/85	770	7.20	27.20
PZ02	11/21/85	1226	7.00	22.80
PZ02	12/17/85	1300	7.30	23.00
PZ03	10/14/85	741	7.50	26.50
PZ03	10/17/85	281	7.30	24.30
PZ03	11/13/85	740	7.20	23.50
PZ03	12/16/85	680	7.20	24.00
PZ03	01/27/86	1102	7.00	18.40
PZ03	03/21/86	1920	7.30	26.00
PZ03	06/16/86	1000	6.70	26.00
PZ04	10/15/85	1247	7.60	26.30
PZ04	11/18/85	1443	7.70	25.10
PZ04	12/17/85	2230	7.50	26.10
PZ05	10/15/85	1501	7.00	27.10
PZ05	11/19/85	1518	7.00	23.60
PZ05	12/16/85	1400	6.90	25.00
PZ05	01/28/86	1364	7.10	18.50
PZ06	08/30/85	3240	6.90	28.30
PZ06	10/15/85	1911	7.00	26.30
PZ06	11/14/85	1776	7.10	27.10
PZ06	12/13/85	4010	7.10	27.20
PZ06	01/28/86	3960	7.00	19.40
PZ06	03/20/86	6410	7.00	25.50
PZ06	06/18/86	4900	6.90	28.00
PZ07	10/17/85	1815	7.00	26.20
PZ07	11/13/85	2400	6.80	26.00
PZ07	11/19/85	3130	6.90	23.40
PZ07	12/17/85	2950	6.80	25.00
PZ07	01/27/86	2990	6.80	19.70
PZ07	03/21/86	4970	6.90	25.60
PZ07	06/16/86	3100	6.40	27.90
PZ08	10/15/85	1900	7.70	28.00
PZ08	11/13/85	1200	7.10	21.00
PZ08	12/13/85	1300	6.80	25.00
PZ08	01/27/86	1300	7.30	24.00
PZ08	03/25/86	.	7.10	23.50
PZ08	06/17/86	2200	6.90	30.50
PZ09	10/17/85	1670	6.90	27.20
PZ09	11/19/85	2840	6.90	23.80
PZ09	12/18/85	2100	6.90	26.00
PZ09	01/28/86	2300	7.30	25.00
PZ10	09/10/85	1786	6.50	26.50
PZ10	10/17/85	2700	6.80	28.20
PZ10	11/19/85	3370	6.80	22.60
PZ10	12/18/85	2400	6.90	28.00
PZ10	01/28/86	2450	7.20	24.00

TABLE E3.2
RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)
SW-1	09/10/85	4230	6.80	30.70
SW-1	10/18/85	4600	7.00	27.90
SW-1	11/19/85	1854	6.70	30.30
SW-1	12/20/85	5190	7.30	24.60
SW-1	01/30/86	4000	7.00	25.00
SW-1	03/26/86	3250	6.80	26.60
SW-1	08/27/86	5900	6.30	28.00
SW-1	09/24/86	4100	6.85	26.00
SW-1	10/17/86	5100	6.60	27.00
SW-1	10/30/86	5600	6.90	26.60
SW-1	11/13/86	4800	6.80	26.50
SW-1	11/26/86	5600	7.30	24.00
SW-1	12/19/86	5200	7.35	26.00
TURNA	10/03/85	1813	7.40	25.00
TURNA	03/05/86	1885	7.50	25.00
WILLIS	10/03/85	2540	6.70	26.10
WILLIS	03/05/86	2490	7.10	25.60
WILLIS	06/03/86	2400	7.40	26.00

APPENDIX E4

POST-RI INORGANICS

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APPENDIX E4

POST-RI INORGANICS

E4.1.0 INTRODUCTION

Table E4.1 lists the results of VOC analyses of ground-water samples collected during Post-RI sampling periods eight through eighteen. The table includes the well name, sample date, sample code, alluvium or bedrock designation, the constituent analyzed and the result with a detected value or less than detection limit. A letter next to the result (either 'A' or 'R') designates data as 'A' Acceptable for use with quantification or 'R' Rejected. These qualifiers and the quality control criterion are explained in Appendix E5.

Round	Sample Dates
8	5/87-6/87
9	11/87-1/88
10	9/88-10/88
11	1/89
12	11/89-12/89
12A	6/90-7/90
13	11/90
13A	12/90-1/91
14	1/91
14A	2/91-6/91
15	6/91-7/91
15a	7/91-8/91
16	7/91-12/91
17	9/91-11/91
18	10/91-12/91

For locations of wells see Appendix C1.

In this table and in all reports, sampling levels at monitor wells are designated by two methods. The letters "A" through "E" are used at wells which are constructed using conventional well casing. At these wells, "A" is the shallowest level, and "D" or "E" is the

deepest. At conventional single-completion wells, a sampling level is not given. Sampling levels at wells constructed using Westbay™ casing are designated by the depth to the sampling port in feet below ground surface.

The following legend explains the symbols and sample codes used and describes any exceptions to standard sampling and/or analysis procedures.

< = Less than
• = Not analyzed

Well	Sample Code	Sample Date	Description
	F0		Field original sample
	FD		Field duplicate sample
	PT		Pump and treat - samples taken during pump and treat operations at SWPL
	AQ		Aquifer test - samples taken in association with the SWPL aquifer test
DM 117	02	11/20/90	13 day turnaround
DM 201-1560	AQ	02/15/91	Sample taken 1560 minutes into aquifer test
DM 201-2640	AQ	02/15/91	Sample taken 2640 minutes into aquifter test

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	16.9E6N	16.9E6N	40&VB	4626G	4626G	4626G	AZSLD	AZSLD	DM104-079	DM104-146
SAMPLE DATE	10/19/90	10/19/90	01/21/91	10/03/88	10/30/90	12/31/90	11/01/90	12/27/90	09/29/88	09/29/88
SAMPLE CODE	FD	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	ALLUVIUM	BEDROCK
SILVER	.	.	.	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02A	<0.02
ARSENIC	.	.	.	<0.02	0.008	0.007	0.008	0.008	0.23	<0.02
BERYLLIUM	.	.	.	.	<0.005	<0.005	<0.005	<0.005	.	.
CALCIUM	99.3	93.5	35.6	120	134	100	84.5	90.2	0.9	140
CADMIUM	.	.	.	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	.	.	.	<0.02	<0.01	<0.01	<0.01	<0.01	0.03	<0.02
COPPER	.	.	.	<0.05	<0.02	<0.02	<0.02	<0.02	0.06	0.1
IRON	.	.	.	<0.1	0.043	0.049	0.169	0.794	<0.1	1.9
HARDNESS	420	396	154	.	452	371	331	351	.	.
MERCURY	.	.	.	<0.001	<0.0002	<0.0002	<0.0002	0.0003	<0.001	<0.001
MAGNESIUM	41.9	39.6	15.9	32	28.5	29.5	29.2	30.6	7	47
MANGANESE	.	.	.	<0.05	<0.01	0.01	<0.01	<0.01	<0.05	0.46
SODIUM	474	462	490	220	204	181	525	520	540	300
NICKEL	.	.	.	.	<0.02	<0.02	<0.02	<0.02	.	.
LEAD	.	.	.	<0.02	<0.002	<0.002	0.009	0.006	<0.02	<0.02
ANTIMONY	.	.	.	.	<0.05	<0.05	<0.05	<0.05	.	.
SELENIUM	.	.	.	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01A
SILICA	.	.	.	.	27.4	26.5	24.4	26.5	.	.
THALLIUM	.	.	.	.	<0.005	<0.005	<0.005	<0.005	.	.
ZINC	.	.	.	<0.05	<0.01	<0.01	1.31	2	<0.05	<0.05
CARBONATE	0	0	0	.	<1	<1	<1	<1	.	.
BICARBONATE	228	233	243	.	284	292	304	305	.	.
HYDROXIDE	.	.	.	.	<1	<1	<1	<1	.	.
ALKALINITY	374	382	399	291	284	292	304	305	473	469
CHLORIDE	421	425	290	255	310	290	310	310	311	526
pH	.	.	.	.	7.7	7.8	8.1	8.1	.	.
SULFATE	345	347	369	200	200	130	740	720	240	<10
TDS	1557	1543	1371	1050	1130	1010	1890	1870	1360	1310
BOD	.	.	.	10	.	.	.	.	<5	10
CHROMIUM(HEX)	.	.	.	<0.05A	.	.	.	.	<0.05A	<0.05A
FLUORIDE	1.12	1.08	4.92	0.2	.	.	.	.	10.1	10.1
AMMONIA	.	.	.	0.84	.	.	.	.	<0.1	0.81
NITRATE	55.9	55	46.4	2.4A	.	.	.	.	7	<0.2
PHOSPHORUS(TOTAL)	<0.08	<0.08	0.16	<0.05	.	.	.	.	0.17	0.09
BORON	5.42	5.08	1.76	1.1	.	.	.	.	2.1	0.5
BARIUM	.	.	.	<0.1	.	.	.	.	<0.1	0.4
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	.	.	.	.	.	.	.	.
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	7.5	5.9	5	.	.	.	.	.	.	.
FIELD pH	.	.	.	.	6.99	.	7.5	7.58	.	.
FIELD CONDUCTIVITY	.	.	.	1450	1820	.	2780	2750	.	.
FIELD TEMPERATURE(C)	.	.	.	.	24.4	.	25	24	.	.

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM107	DM107	DM107	DM107	DM107	DM107	DM107	DM107	DM111	DM111
SAMPLE DATE	05/26/87	11/20/87	09/19/88	01/17/89	11/30/89	11/05/90	01/22/91	07/01/91	05/28/87	11/23/87
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	0.012	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.05	<0.02
ARSENIC	0.161	0.12	0.09	0.14	0.109	0.24	0.2	0.13	0.041	0.02
BERYLLIUM	.	.	.	.	.	<0.005	<0.005	<0.005	.	.
CALCIUM	264	350	300	360	322	53.4	192	236	36.6	41
CADMIUM	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.003	<0.005
CHROMIUM	0.025	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.03
COPPER	0.019	<0.05	<0.05	<0.05	<0.02	<0.02	0.011	<0.01	<0.01	<0.05
IRON	0.015	1.6	<0.5A	<0.1	0.037	<0.01	0.023	<0.01	<0.01	3.4
HARDNESS	.	.	.	.	.	282	1390	995	.	.
MERCURY	<0.0002	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001
MAGNESIUM	168	180	150	170	160	36	220	98.5	46	34
MANGANESE	0.013	0.12	<0.05	<0.05	<0.01	<0.01	0.028	<0.01	<0.01	0.11
SODIUM	1169	1300	1290	1400	1550	744	2920	958	272	340
NICKEL	.	.	.	.	.	<0.02	<0.02	<0.02	.	.
LEAD	<0.002	<0.02	<0.02A	<0.02	0.003	0.003	0.006	<0.002	<0.002	<0.02
ANTIMONY	.	.	.	.	.	<0.05	<0.05	<0.05	.	.
SELENIUM	<0.01	<0.005	<0.01	<0.005	0.008	<0.005	0.014	0.011A	<0.01	<0.005
SILICA	.	.	.	.	.	37.2	37.9	44.3	.	.
THALLIUM	.	.	.	.	.	<0.005	0.008	0.009	.	.
ZINC	0.012	<0.05	<0.05	<0.05	<0.01	<0.01	0.074	0.01	0.25	<0.05
CARBONATE	.	.	.	.	<1	<1	<1	<1	.	.
BICARBONATE	.	.	.	.	249	442	406	266	.	.
HYDROXIDE	.	.	.	.	<1	<1	<1	<1	.	.
ALKALINITY	256	290	252	240	249	442	406	266	371	430
CHLORIDE	1492	1640	1340	1100	1400	410	2100	1100	197	184
pH	7.15	.	.	.	.	8	8	7.4	7.56	.
SULFATE	1758	1630	1500	2000	1900	700	3400	1400	201	210A
TDS	5780	5440	5330	5700	5680	2320	9230	4200	1080	1120
BOD	8	<5	<5	.	<3	.	.	<2	150	<5
CHROMIUM(HEX)	<0.03A	<0.05A	<0.05A	<0.05A	<0.02A	.	.	.	<0.03A	<0.05A
FLUORIDE	4.31	3.7	2	4.6	4.38	.	.	4.48	6.76	8.8
AMMONIA	<0.1	<0.1A	1.7	<0.2	<0.03	.	.	0.04	<0.1	<0.1A
NITRATE	78.1	90	77	68	77	.	.	35	10.6	5
PHOSPHORUS(TOTAL)	0.1	0.31	<0.05	0.11	0.07	.	.	0.08	0.08	<0.01
BORON	.	6.9	6.2	7.5	6.59	.	.	4.05	.	1.3
BARIUM	<0.05	<0.1	<0.1	<0.1	0.016	.	.	0.055	<0.03	0.1
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	<0.01	.	<0.01	<0.01	.	.	0.01	0.02	0.01
CONDUCTIVITY	.	.	.	.	.	.	.	5800	.	.
POTASSIUM	.	.	.	.	.	.	.	23.3	.	.
FIELD pH	.	7.2	7.16	7.71	6.8	7.5	7.05	7.06	7.7	7.5
FIELD CONDUCTIVITY	.	7000	10440	8600	4480	3180	10060	5820	1500	1600
FIELD TEMPERATURE(C)	.	27	18	15	23	29	26	31	26	25

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM111	DM111	DM111	DM111	DM111	DM111	DM112	DM112	DM113	DM114
SAMPLE DATE	09/22/88	01/24/89	12/04/89	11/02/90	01/22/91	09/12/91	11/08/90	01/25/91	12/01/89	10/30/90
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.04	0.03	0.037	0.033	0.032	0.04	0.031	0.03	0.04	0.048
BERYLLIUM	.	.	.	<0.005	<0.005	<0.005	<0.005	<0.005	.	<0.005
CALCIUM	54	58	56.1	50.3	52.1	35	106	96.3	78.2	79.3
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.02	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.05	<0.05	<0.02	<0.02	<0.01	<0.01	<0.02	<0.01	<0.02	<0.02
IRON	<0.5	0.6	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	0.877	<0.01
HARDNESS	.	.	.	126	289	208	592	536	.	368
MERCURY	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	47	47	42.7	39.6	38.7	29.2	79.7	70.6	51.7	41.3
MANGANESE	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	0.013	<0.01	0.557	0.01
SODIUM	290	250	256	227	194	227	308	300	221	158
NICKEL	.	.	.	<0.02	<0.02	<0.02	<0.02	<0.02	.	<0.02
LEAD	<0.02	0.04	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.01	<0.002
ANTIMONY	.	.	.	<0.05	<0.05	<0.05	<0.05	<0.05	.	<0.05
SELENIUM	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SILICA	.	.	.	34.9	33.8	16.3	40.7	43.2	.	55.5
THALLIUM	.	.	.	<0.005	<0.005	<0.005	<0.005	<0.005	.	<0.005
ZINC	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	0.026
CARBONATE	.	.	<1	<1	<1	<1	<1	<1	<1	<1
BICARBONATE	.	.	321	269	248	241	353	354	377	305
HYDROXIDE	.	.	<1	<1	<1	<1	<1	<1	<1	<1
ALKALINITY	366	340	321	269	248	241	353	354	377	305
CHLORIDE	211	210	230	250	260	230	330	340	190	170
pH	.	.	.	8	8	7.8	7.5	7.9	.	7.5
SULFATE	210	230	220	130	110	120	360	350	178	150
TDS	1070	1100	1020	920	890	850	1500	1540	970	850
BOD	<5	<5	<2	.	.	.	.	.	<3	.
CHROMIUM(HEX)	<0.05A	<0.05A	<0.02A	.	.	.	.	.	<0.02A	.
FLUORIDE	10.9	6.8	7	.	.	8.09	.	.	4.69	.
AMMONIA	0.25	<0.2	0.04	.	.	.	.	.	0.23	.
NITRATE	10	19	7.7	.	.	5.2	.	.	4.6	.
PHOSPHORUS(TOTAL)	<0.05	<0.01	0.05	.	.	.	.	.	0.09	.
BORON	0.8	0.9	0.76	.	.	.	.	.	0.71	.
BARIUM	<0.1	0.1	0.06	.	.	.	.	.	0.115	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	<0.01	<0.01	.	.	.	.	.	<0.01	.
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	.	.	.	.	.	.	.
FIELD pH	7.06	7.96	7.96	7.4	7.38	7.52	7.08	7.21	7.4	7.16
FIELD CONDUCTIVITY	1839	2000	1480	1510	1380	1470	7410	2180	1870	1370
FIELD TEMPERATURE(C)	14	11	27	26	25	27	25	22	41	25

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM114	DM115	DM115	DM115	DM115	DM117	DM117	DM117	DM117	DM117
SAMPLE DATE	01/02/91	11/30/89	11/06/90	01/23/91	09/11/91	05/26/87	11/25/87	09/22/88	01/25/89	12/04/89
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.02	<0.02	<0.02	<0.01
ARSENIC	0.039	0.033	0.033	0.026	0.032	0.26	0.28	0.35	0.19	0.31
BERYLLIUM	<0.005	.	<0.005	<0.005	<0.005	.	.	.	.	.
CALCIUM	77.5	259	281	289	304	49.3	68	66	64	61.3
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	0.12	0.09	0.133	0.106	<0.01	<0.02	<0.02	<0.05	<0.01
COPPER	0.02	<0.02	<0.02	<0.01	0.013	<0.01	<0.05	<0.05	<0.05	<0.02
IRON	0.266	<0.01	<0.01	<0.02	0.024	1.55	0.3	1.9	1.2	1.34
HARDNESS	355	.	1830	1710	1620	.	.	.	.	.
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.0002
MAGNESIUM	39.2	237	275	240	210	74	71	79	67	65.8
MANGANESE	<0.01	0.018	0.014	<0.01	0.014	0.369	0.31	0.35	0.27	0.343
SODIUM	147	1280	1300	1380	1480	233	260	240	200	218
NICKEL	<0.02	.	<0.02	<0.02	<0.02	.	.	.	.	.
LEAD	<0.002	0.002	0.002	0.005	0.018	<0.002	<0.02	<0.02	<0.02	<0.002
ANTIMONY	<0.05	.	<0.05	<0.05	<0.05	.	.	.	.	.
SELENIUM	<0.005	<0.005	<0.005	0.007	0.009	<0.01	<0.005	<0.01	<0.005	<0.005
SILICA	56.5	.	43.6	47.3	26.1	.	.	.	.	.
THALLIUM	<0.005	.	0.014	0.011	0.007	.	.	.	.	.
ZINC	<0.01	<0.01	<0.01	0.017	0.043	<0.01	<0.05	<0.05	<0.05	<0.01
CARBONATE	<1	<1	<1	<1	<1	.	.	.	.	<1
BICARBONATE	306	269	283	299	334	.	.	.	.	500
HYDROXIDE	<1	<1	<1	<1	<1	.	.	.	.	<1
ALKALINITY	306	269	283	299	334	560	550	520	490	500
CHLORIDE	160	2100	2500	2800	2400	238	270	239	220	250
pH	7.7	.	7.9	7.9	7.2	7.14	.	.	.	.
SULFATE	160	780	610	760	1000	102	89	66	62	75
TDS	840	4570	5650	6310	6200	1100	1040	972	1300	960
BOD	.	<3	.	.	.	44	<5	<5	<5	<2
CHROMIUM(HEX)	.	0.15A	.	.	.	<0.03A	<0.05A	<0.05A	<0.05A	<0.02A
FLUORIDE	.	4.26	.	.	4.48	5.78	6	5.5	5.5	5.3
AMMONIA	.	<0.03	.	.	.	<0.1	1.3A	1.7	0.7	0.41
NITRATE	.	32	.	.	57	2.82	0.9	1A	1.1	0.59
PHOSPHORUS(TOTAL)	.	<0.05	.	.	.	.	0.03	0.14	0.02	0.14
BORON	.	3.81	.	.	.	.	1.2	1	1	0.88
BARIUM	.	0.036	.	.	.	0.72	1	1.1	1.2	1.19
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	<0.01	.	.	.	<0.01	<0.01	.	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	.	.	.	.	.	.	.
FIELD pH	7.18	7	6.81	6.92	7.09	.	7.5	7.09	7.93	7
FIELD CONDUCTIVITY	1432	6550	7560	4610	8630	.	1800	2070	2000	1620
FIELD TEMPERATURE(C)	23	22	24	23	26	.	25	14	12	23

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM117	DM117	DM117	DM117	DM117	DM118	DM118	DM118	DM120	DM120
SAMPLE DATE	11/20/90	11/20/90	01/23/91	07/02/91	09/11/91	10/30/90	12/31/90	06/27/91	05/26/87	11/24/87
SAMPLE CODE	F0	02	F0	F0	F0	F0	F0	F0	F0	F0
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
ARSENIC	0.35	0.34	0.16	0.36	0.03	0.012	0.01	0.009	0.019	<0.02
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	.	.
CALCIUM	53.3	61.5	62	54.9	50.2	118	114	112	12.8	16
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.003	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
COPPER	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.01	<0.05
IRON	0.883	1.12	0.741	1.32	1.45	<0.01	0.016	<0.02	<0.01	0.4
HARDNESS	418	408	414	416	402	497	484	479	.	.
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001
MAGNESIUM	69.1	61.8	62.9	67.7	67.2	49.3	48.3	48.5	8.2	7
MANGANESE	0.331	0.274	0.247	0.378	0.382	<0.01	<0.01	<0.01	<0.01	0.05
SODIUM	219	172	182	190	196	372	355	362	376	460
NICKEL	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	.	.
LEAD	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.02
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	.	.
SELENIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	0.008	<0.01	<0.005
SILICA	32	33.4	33.8	29.5	13.8	55.6	57.8	56.3	.	.
THALLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	.	.
ZINC	0.025	<0.01	0.021	0.012	0.014	0.081	<0.01	0.036	<0.01	0.1
CARBONATE	<1	<1	<1	<1	<1	<1	<1	<1	.	.
BICARBONATE	651	536	507	460	459	317	326	312	.	.
HYDROXIDE	<1	<1	<1	<1	<1	<1	<1	<1	.	.
ALKALINITY	651	536	507	460	459	317	326	312	321	330
CHLORIDE	250	200	240	250	240	430	390	370	260	310
pH	7.8	7.9	8	7.6	7.5	7.5	7.4	7.5	7.93	.
SULFATE	46	69	62	64	64	430	430	440	335	230
TDS	990	870	960	990	960	1640	1620	1600	1220	1240
BOD	.	.	.	<2	.	.	.	<2	14	<5
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	<0.03A	<0.05A
FLUORIDE	.	.	.	5.96	6.17	.	.	7.09	7.02	7.5
AMMONIA	.	.	.	0.62	.	.	.	<0.03	<0.1	<0.1A
NITRATE	.	.	.	0.37	0.06	.	.	4.6	6.11	7.2
PHOSPHORUS(TOTAL)	.	.	.	0.13	.	.	.	<0.05	0.05	0.05
BORON	.	.	.	0.81	.	.	.	2.42	.	2.3
BARIUM	.	.	.	0.689	.	.	.	0.025	<0.05	<0.1
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	.	<0.01	.	.	.	<0.01	<0.01	<0.01
CONDUCTIVITY	.	.	.	1596	.	.	.	2400	.	.
POTASSIUM	.	.	.	6.8	.	.	.	5.7	.	.
FIELD pH	7.25	.	7.19	7.79	7.4	.	6.96	7.02	.	.
FIELD CONDUCTIVITY	1240	.	1290	1850	1411	.	2540	1790	.	.
FIELD TEMPERATURE(C)	23	.	25	29	26.5	.	24	25	.	.

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM120	DM120	DM120	DM120	DM120	DM120	DM120	DM120	DM120	DM122-A
SAMPLE DATE	09/19/88	01/16/89	02/09/89	11/30/89	11/01/90	11/20/90	01/22/91	06/28/91	07/17/91	11/28/89
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	ALLUVIUM
SILVER	<0.02	<0.02	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	.	<0.01
ARSENIC	<0.02	<0.02	<0.02	0.022	0.023	0.024	0.019	0.024	.	0.022
BERYLLIUM	.	.	.	.	<0.005	<0.005	<0.005	<0.005	.	.
CALCIUM	32	17	17	16.8	17.8	20.2	17.2	16	.	28.6
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	.	<0.005
CHROMIUM	<0.02	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	.	<0.01
COPPER	<0.05	<0.05	<0.05	<0.02	<0.02	<0.02	<0.01	<0.01	.	<0.02
IRON	<0.5A	<0.1	<0.1	<0.01	<0.01	<0.01	<0.02	<0.01	.	0.012
HARDNESS	.	.	.	.	78.8	88.3	75.9	70.4	.	.
MERCURY	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002
MAGNESIUM	14	8	7	8.3	8.3	9.2	8	7.4	.	25.5
MANGANESE	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	.	<0.01
SODIUM	450	450	420	507	435	446	445	446	.	573
NICKEL	.	.	.	.	<0.02	<0.02	<0.02	<0.02	.	.
LEAD	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	0.003	<0.002	.	<0.002
ANTIMONY	.	.	.	.	<0.05	<0.05	<0.05	<0.05	.	.
SELENIUM	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005A	.	<0.005
SILICA	.	.	.	.	24.1	26	25.5	24.6	.	.
THALLIUM	.	.	.	.	<0.005	<0.005	<0.005	<0.005	.	.
ZINC	<0.05	<0.05	<0.05	<0.01	<0.01	0.094	0.041	0.014	.	<0.01
CARBONATE	.	.	.	<1	<1	<1	2	<1	.	<1
BICARBONATE	.	.	.	311	348	393	345	341	.	451
HYDROXIDE	.	.	.	<1	<1	<1	<1	<1	.	<1
ALKALINITY	320	320	320	311	348	393	347	341	.	451
CHLORIDE	295	320	310	330	340	320	330	310	.	340
pH	.	.	.	.	8.3	8.1	8.4	8.1	.	.
SULFATE	230	240	230	230	250	230	230	220	.	330
TDS	1430	1300	1100	1250	1260	1230	1270	1200	.	1530
BOD	<5	.	<5	<3	.	.	.	.	<2	<3
CHROMIUM(HEX)	<0.05A	<0.05A	<0.05A	<0.02A	.	.	.	.	.	<0.02A
FLUORIDE	3.1	6.8	7.4	6.53	.	.	.	6.46	.	5.4
AMMONIA	0.5	<0.2	<0.5	0.03	.	.	.	0.04	.	<0.03
NITRATE	6.9	8.2	6	73	.	.	.	7	.	7.1
PHOSPHORUS(TOTAL)	0.25	<0.01	<0.1	0.08	.	.	.	<0.05	.	0.07
BORON	1.7	1.6	1.7	1.58	.	.	.	1.42	.	1.87
BARIUM	<0.1	<0.1	<0.1	0.025	.	.	.	0.026	.	0.04
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	<0.01	<0.01	<0.01	.	.	.	<0.01	.	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	2040	.	.
POTASSIUM	.	.	.	.	.	.	.	2	.	.
FIELD pH	7.4	8.42	.	7.6	7.8	7.65	7.18	7.64	7.61	7.6
FIELD CONDUCTIVITY	2240	4400	.	1700	1870	2010	2120	1480	2170	2310
FIELD TEMPERATURE(C)	25	12	.	23	25	24.5	25.1	26	26.4	20

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM122-A	DM122-A	DM122-B	DM122-B	DM122-B	DM122-B	DM122-B	DM122-B	DM122-B	DM124
SAMPLE DATE	11/01/90	01/22/91	05/26/87	11/23/87	09/15/88	01/13/89	11/28/89	01/22/91	06/27/91	10/30/90
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	ALLUVIUM	ALLUVIUM	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.02	0.017	0.28	0.04	2.3	0.02	0.025	0.02	0.03	0.052
BERYLLIUM	<0.005	<0.005	.	.	.	.	.	<0.005	<0.005	<0.005
CALCIUM	30.4	30.5	74	97	88	85	77.3	87.7	78.4	115
CADMIUM	<0.005	<0.005	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.02	0.24	<0.05	<0.01	<0.01	<0.01	<0.01
COPPER	<0.02	<0.01	<0.01	<0.05	<0.05	<0.05	<0.02	<0.01	<0.01	<0.02
IRON	0.014	<0.02	0.015	0.6	<0.5	0.1	0.12	<0.02	0.029	<0.01
HARDNESS	181	188	.	.	.	.	.	395	370	441
MERCURY	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	25.4	27.1	48	49	48	52	40.8	42.7	42.4	37.6
MANGANESE	<0.01	<0.01	0.01	0.05	<0.05	<0.05	<0.01	<0.01	<0.01	0.025
SODIUM	508	492	486	560	380	520	608	488	469	299
NICKEL	<0.02	<0.02	.	.	.	.	.	<0.02	<0.02	<0.02
LEAD	<0.002	0.003	<0.002	<0.02	<0.02	<0.02	0.005	<0.002	<0.002	<0.002
ANTIMONY	<0.05	<0.05	.	.	.	.	.	<0.05	<0.05	<0.05
SELENIUM	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	0.006	<0.005
SILICA	33.7	35.5	.	.	.	.	.	38.1	35.7	69.4
THALLIUM	<0.005	<0.005	.	.	.	.	.	<0.005	<0.005	<0.005
ZINC	<0.01	<0.01	<0.01	0.18	<0.05A	<0.05	0.018	0.044	0.044	<0.01
CARBONATE	<1	<1	.	.	.	.	<1	<1	<1	<1
BICARBONATE	455	420	.	.	.	.	346	468	334	382
HYDROXIDE	<1	<1	.	.	.	.	<1	<1	<1	<1
ALKALINITY	455	420	352	380	345	340	346	468	334	382
CHLORIDE	340	350	359	390	338	340	340	330	330	310
pH	8.1	7.7	7.46	.	.	.	.	8.2	7.8	7.4
SULFATE	340	300	577	610	550	620	650	590	560	250
TDS	1550	1510	1980	1040	1820	1700	1800	1770	1700	1350
BOD	.	.	9	<5	<5	<10	<3	.	<2	.
CHROMIUM(HEX)	.	.	<0.03A	<0.05A	<0.05A	<0.05A	<0.02A	.	.	.
FLUORIDE	.	.	4.86	5	6.7	5	5	.	5.45	.
AMMONIA	.	.	<0.1	<0.1A	<0.1	<0.2	0.03	.	<0.03	.
NITRATE	.	.	10.6	8.2	8.2	8.9	7.6	.	7.3	.
PHOSPHORUS(TOTAL)	.	.	<0.05	0.03	0.28	0.04	0.1	.	<0.05	.
BORON	.	.	.	3.4	2.4	2.6	2.18	.	2.26	.
BARIUM	.	.	<0.05	<0.1	<0.1	<0.1	0.024	.	0.026	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	<0.01	<0.01	.	<0.01	<0.01	.	<0.01	.
CONDUCTIVITY	.	.	.	.	.	.	.	.	2580	.
POTASSIUM	.	.	.	.	.	.	.	.	3.9	.
FIELD pH	.	7.63	7.4	7.3	7.58	8.11	7.6	7.49	7.42	6.98
FIELD CONDUCTIVITY	.	2340	2200	2800	3310	5500	2320	2660	1950	1850
FIELD TEMPERATURE(C)	.	20	25	23	14	9	22	21.1	27	26

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM124	DM124	DM124	DM201	DM201	DM201-1560	DM201-2640	DM202	DM202	DM202-OB1
SAMPLE DATE	01/02/91	06/28/91	07/17/91	10/31/90	01/18/91	02/15/91	02/16/91	11/29/89	07/10/90	07/10/90
SAMPLE CODE	FO	FO	FO	FO	FO	AQ	AQ	FO	FO	FO
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE			INTERFACE	INTERFACE	INTERFACE
SILVER	<0.01	<0.01	.	<0.01	<0.01	.	.	<0.01	<0.01	<0.01
ARSENIC	0.042	0.025	.	0.07	0.046	.	.	0.012	0.01	0.009
BERYLLIUM	<0.005	<0.005	.	<0.005	<0.005	.	.	.	<0.005	<0.005
CALCIUM	110	103	.	256	259	.	.	64.4	55.9	68.4
CADMIUM	<0.005	<0.005	.	<0.005	<0.005	.	.	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	.	<0.01	<0.01	.	.	<0.01	<0.01	<0.01
COPPER	<0.02	<0.01	.	<0.02	<0.01	.	.	<0.02	<0.02	<0.02
IRON	0.115	0.073	.	0.191	0.904	.	.	<0.01	0.013	0.02
HARDNESS	426	397	.	1150	1051	.	.	.	247	322
MERCURY	<0.0002	<0.0002	.	<0.0002	<0.0002	.	.	<0.0002	<0.0002	<0.0002
MAGNESIUM	36.7	33.9	.	125	98.2	.	.	28.1	26	36.7
MANGANESE	0.039	0.024	.	0.023	0.056	.	.	<0.01	<0.01	<0.01
SODIUM	282	264	.	799	767	.	.	139	122	297
NICKEL	<0.02	<0.02	.	<0.02	<0.02	.	.	.	<0.02	<0.02
LEAD	<0.002	<0.002	.	<0.002	0.004	.	.	<0.002	<0.002	<0.002
ANTIMONY	<0.05	<0.05	.	<0.05	<0.05	.	.	.	<0.05	<0.05
SELENIUM	<0.005	<0.005A	.	<0.005	<0.005	.	.	<0.005	<0.005	<0.005
SILICA	71.7	66.7	.	60.9	59.5	.	.	.	23.8	40.8
THALLIUM	<0.005	<0.005	.	<0.005	<0.005	.	.	.	<0.005	<0.005
ZINC	0.012	0.011	.	0.297	0.288	.	.	<0.01	<0.01	<0.01
CARBONATE	<1	<1	.	<1	<1	.	.	<1	<1	<1
BICARBONATE	387	305	.	337	363	.	.	198	227	310
HYDROXIDE	<1	<1	.	<1	<1	.	.	<1	<1	<1
ALKALINITY	387	305	.	337	363	.	.	198	227	310
CHLORIDE	310	320	.	950	950	.	.	200	120	240
pH	7.7	7.4	.	7.6	7.9	.	.	7.8	8	7.8
SULFATE	250	200	.	1200	1200	1200	1200	77	82	230
TDS	1300	1200	.	3830	3880	4000	4100	650	560	1090
BOD	.	.	<2	.	.	.	.	<3	.	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	<0.02A	.	.
FLUORIDE	.	4.06	.	.	.	.	.	4.22	4.68	5.32
AMMONIA	.	<0.03	.	.	.	.	.	0.03	.	.
NITRATE	.	7.7	.	.	.	48	50	3.2	2.2	8.3
PHOSPHORUS(TOTAL)	.	<0.05	.	.	.	.	.	<0.05	.	.
BORON	.	0.67	.	.	.	.	.	0.27	.	.
BARIUM	.	0.039	.	.	.	.	.	0.097	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	<0.01	.	.	.	.	.	<0.01	.	.
CONDUCTIVITY	.	1810	.	.	.	.	.	.	.	.
POTASSIUM	.	3.2	.	.	.	.	.	.	.	.
FIELD pH	7.07	7.69	6.54	6.8	7.1	.	.	7.2	.	.
FIELD CONDUCTIVITY	1880	1390	1970	4830	4800	.	.	1030	.	.
FIELD TEMPERATURE(C)	25	26	29	30	27	.	.	21	.	.

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM202-OB2	DM303	DM303	DM303	DM303	DM304	DM304	DM304	DM304	DM305
SAMPLE DATE	07/10/90	06/13/90	11/07/90	01/24/91	11/22/91	06/13/90	11/08/90	01/25/91	11/22/91	11/26/91
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.015	0.053	0.063	0.052	0.068	0.059	0.08	0.069	0.084	0.017
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CALCIUM	37.2	171	168	169	121	215	222	90.6	205	79.8
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.02	0.05	<0.02	<0.01	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01
IRON	0.015	0.016	0.016	<0.02	<0.02	<0.01	0.024	<0.02	0.051	<0.02
HARDNESS	166	651	647	649	476	851	896	412	815	352
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	17.8	54.5	55.3	55.1	42.3	76.4	82.9	34.4	73.7	37
MANGANESE	<0.01	1.18	1.28	1.53	1.12	1.99	2.14	0.424	2.17	0.012
SODIUM	161	594	559	462	453	663	637	401	570	286
NICKEL	<0.02	0.04	0.03	0.031	<0.02	0.04	0.04	<0.02	0.035	<0.02
LEAD	<0.002	0.007	<0.002	0.002	0.003	0.009	<0.002	<0.002	0.005	<0.002A
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM	<0.005	<0.005	<0.005	<0.005	0.005	0.009	<0.005	<0.005	0.009	<0.005
SILICA	21.8	18	40.2	45.3	18.6	18.5	37.7	35.1	17.3	15.5
THALLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ZINC	<0.01	<0.01	0.013	0.014	<0.01	<0.01	0.033	0.025	0.015	0.011
CARBONATE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BICARBONATE	235	242	253	233	218	274	293	433	241	296
HYDROXIDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ALKALINITY	235	242	253	233	218	274	293	433	241	296
CHLORIDE	100	650	580	610	450	880	800	520	680	280
pH	8.1	7.7	7.6	7.8	7.5	7.5	7.5	8.1	7.2	7.8
SULFATE	100	661	650	620	490	759	800	470	810	270
TDS	580	2520	2490	2350	1900	3070	3030	2080	2900	1200
BOD	.	<2	.	.	.	<2	.	.	.	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	.
FLUORIDE	4.23	.	.	.	12.9	.	.	.	18.2	3.42
AMMONIA	.	.	.	.	.	.	.	.	.	.
NITRATE	2	.	.	.	37	.	.	.	66	8.6
PHOSPHORUS(TOTAL)	.	.	.	.	.	.	.	.	.	.
BORON	.	.	.	.	.	.	.	.	.	.
BARIUM	.	.	.	.	.	.	.	.	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	.	.	.	.	.	.	.	.
CONDUCTIVITY	.	3910	.	.	.	4400	.	.	.	.
POTASSIUM	.	10.6	.	.	10.1	17.1	.	.	18.1	7.2
FIELD pH	.	.	7.5	6.02	6.47	.	6.92	7.01	6.19	7.27
FIELD CONDUCTIVITY	.	.	3160	2910	2920	.	4530	4060	4270	1830
FIELD TEMPERATURE(C)	.	.	25	25	23	.	24	23	23	23

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM306	DM307	DM307	DM308	DM309	DM310	DM311-B	DM312	DM313	DM503
SAMPLE DATE	11/25/91	11/25/91	11/25/91	11/26/91	11/26/91	11/25/91	11/25/91	11/24/91	11/24/91	01/02/91
SAMPLE CODE	FO	FD	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	INTERFACE
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.009	0.006	0.006	0.006	0.018	0.052	0.18	0.012	0.07	0.01
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CALCIUM	64.1	52.8	52.6	47.7	32.8	19.1	3	42.4	17.1	87.7
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.019	0.011	<0.01	<0.01
COPPER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
IRON	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.053	0.294
HARDNESS	352	388	387	313	123	68.7	14.9	240	90.9	398
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	46.7	62.2	62.2	47	9.9	5.1	1.8	32.7	11.7	43.5
MANGANESE	0.018	0.017	0.016	<0.01	0.018	<0.01	<0.01	0.01	0.02	0.056
SODIUM	290	229	231	273	449	400	518	668	661	487
NICKEL	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
LEAD	<0.002A	<0.002A	<0.002A	<0.002A	<0.002A	<0.002A	<0.002A	<0.002A	<0.002A	<0.002
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	<0.005
SILICA	17.5	20.9	21	16.6	17.2	13.8	9.4	17.1	14.3	49
THALLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ZINC	0.011	0.012	0.013	<0.01	<0.01	<0.01	<0.01	0.012	0.016	0.078
CARBONATE	<1	<1	<1	<1	<1	<1	84	<1	<1	<1
BICARBONATE	299	395	394	280	450	405	297	352	432	280
HYDROXIDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ALKALINITY	299	395	394	280	450	405	381	352	432	280
CHLORIDE	300	220	220	270	310	260	360	560	430	330
pH	7.7	7.5	7.6	7.8	7.8	8.1	9.1	8	8.1	7.9
SULFATE	240	190	190	220	200	160	200	470	380	990
TDS	1200	1100	1100	1100	1300	1200	1400	2100	1900	2350
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	.
FLUORIDE	4.45	5.8	5.75	6.54	4.62	6.3	8.78	7.73	9.55	.
AMMONIA	.	.	.	.	.	.	.	.	.	.
NITRATE	7.9	6.2	6.4	11	4.1	4.3	8.5	19	10.2	.
PHOSPHORUS(TOTAL)	.	.	.	.	.	.	.	.	.	.
BORON	.	.	.	.	.	.	.	.	.	.
BARIUM	.	.	.	.	.	.	.	.	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	.	.	.	.	.	.	.	.
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	10.6	17.9	17.9	19.8	6.3	3.7	21.7	17.7	6.9	.
FIELD pH	7.28	.	7.16	7.45	7.41	7.68	9.05	7.71	7.54	7.31
FIELD CONDUCTIVITY	1930	.	1820	1840	2110	1910	2610	3640	3250	3320
FIELD TEMPERATURE(C)	23	.	24	23	24	24	23	23	22	24

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM503	DM503	DM503	DM503	DM503	DM504	DM504	DM504	DM504	DM504-7200
SAMPLE DATE	01/08/91	01/17/91	06/17/91	06/28/91	07/17/91	12/31/90	01/17/91	06/18/91	07/02/91	08/01/91
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	AQ
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	<0.01	<0.01	<0.01	<0.01	.	<0.01	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.014	0.013	0.044	0.04	.	0.021	0.008	0.008	0.007	0.007A
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	.	<0.005	<0.005	<0.005	<0.005	<0.005
CALCIUM	74.8	109	72	61.5	.	19.4	29.9	39.8	35.8	36.6
CADMIUM	<0.005	<0.005	<0.005	<0.005	.	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	.	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.02	<0.01	<0.01	<0.01	.	0.03	<0.01	<0.01	<0.01	<0.01
IRON	0.041	0.028	<0.02	0.012	.	5.48	0.032	<0.02	<0.02A	<0.02
HARDNESS	307	444	314	263	.	87.2	122	162	144	148
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	.	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	30.7	41.7	32.7	26.6	.	9.4	11.5	15.1	13.3	13.8
MANGANESE	0.033	0.417	0.41	0.408	.	0.543	0.03	0.048	0.034	<0.01
SODIUM	505	535	770	734	.	359	354	400	382	368
NICKEL	<0.02	<0.02	<0.02	<0.02	.	<0.02	<0.02	<0.02	<0.02	<0.02
LEAD	0.002	0.003	0.002	<0.002	.	0.018	<0.002	<0.002	<0.002A	0.005
ANTIMONY	<0.05	<0.05	<0.05	<0.05	.	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM	<0.005	<0.005	<0.005	<0.005A	.	<0.005	<0.005	<0.005	<0.005	<0.005
SILICA	37.1	48.6	47	43.6	.	154	25.5	26.6	25.2	24
THALLIUM	<0.005	<0.005	<0.005	0.005	.	<0.005	<0.005	<0.005	<0.005	<0.005
ZINC	0.058	0.065	0.022	0.011	.	0.112	0.016	0.03	0.058	0.034
CARBONATE	<1	<1	<1	<1	.	88	<1	<1	<1	<1
BICARBONATE	302	327	312	305	.	209	376	384	368	370
HYDROXIDE	<1	<1	<1	<1	.	<1	<1	<1	<1	<1
ALKALINITY	302	327	312	305	.	297	376	384	368	370
CHLORIDE	360	360	400	400	.	280	290	300	310	290
pH	7.9	8.1	8	7.9	.	8.9	8.3	8.2	8	7.9
SULFATE	1000	1100	1100	960	.	200	160	140	160	160
TDS	2440	2480	2500	2500	.	1090	1140	1100	1200	1100
BOD	.	.	<2	.	<2	.	.	<2	<2	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	.
FLUORIDE	.	.	6.18	6.18	.	.	.	8.08	7.94	8.03
AMMONIA	.	.	0.15	0.2	.	.	.	0.96	0.55	.
NITRATE	.	.	9.1	6.6	.	.	.	3.6	5.8	.
PHOSPHORUS(TOTAL)	.	.	<0.05	<0.05	.	.	.	<0.05	<0.05	.
BORON	.	.	3.54	3.16	.	.	.	1.38	1.27	1.32
BARIUM	.	.	0.04	0.039	.	.	.	0.042	0.046	0.045
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	<0.01	<0.01	.	.	.	<0.01	<0.01	.
CONDUCTIVITY	.	.	3530	3500	.	.	.	1860	1915	1860
POTASSIUM	.	.	5.4	4.3	.	.	.	3.8	4	4.2
FIELD pH	7.58	7.19	7.51	7.89	7.38	7.72	7.44	7.39	.	.
FIELD CONDUCTIVITY	3520	3140	2680	2480	3770	2040	1910	1790	.	.
FIELD TEMPERATURE(C)	23	24	26	26	27.2	23	23	26	.	.

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM505	DM505	DM505	DM505	DM508	DM508	DM509	DM509	DM601-085	DM601-200	DM602
SAMPLE DATE	01/11/91	01/17/91	06/13/91	06/27/91	06/14/91	06/26/91	06/18/91	07/01/91	09/26/91	09/20/91	09/06/91
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO	FD
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	BEDROCK	BEDROCK	INTERFACE
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ARSENIC	<0.005	<0.005	<0.005	<0.005	0.015	0.014	0.012	0.008	0.009A	0.006	0.013
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CALCIUM	301	192	102	106	35.6	38.0	17.2	15.8	23.1	63.2	62
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	0.013	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.01	<0.01	<0.01	<0.01	0.021	<0.010	<0.01	<0.01	0.024	0.013	<0.01
IRON	0.113	0.02	<0.02	<0.02	9.37	0.575	<0.02	0.018	0.2	1.26	0.02
HARDNESS	1120	681	376	383	134	164	83	79.8	96	213	275
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	88.5	49	29.4	28.7	11	18.2	9.8	9.8	9.3	13.4	29.2
MANGANESE	0.018	0.17	<0.01	<0.01	0.185	0.027	<0.01	<0.01	0.02	0.046	0.03
SODIUM	328	233	152	152	351	364	275	245	467	193	207
NICKEL	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
LEAD	<0.002	<0.002	<0.002	<0.002	0.006	<0.002	<0.002	<0.002	<0.002A	<0.002	<0.002
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005A	<0.005	<0.005	<0.005A
SILICA	26.5	15.2	36.1	34	190	222	40.1	29.7	11	12.7	17.2
THALLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ZINC	0.016	0.022	0.02	0.078	0.087	0.012	<0.01	0.011	0.013	0.027	0.022
CARBONATE	<1	<1	<1	<1	22	<1	66	24	2	<1	<1
BICARBONATE	169	100	136	135	238	314	99	137	208	165	286
HYDROXIDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ALKALINITY	169	100	136	135	260	314	165	161	210	165	286
CHLORIDE	470	310	280	300	280	260	240	240	380	20	180
pH	7.9	8.1	7.7	7.9	8.8	8.3	9.3	8.7	8.4	7.8	7.6
SULFATE	1000	700	150	160	170	190	160	180	320	150	160
TDS	2510	1610	860	890	1100	1100	840	820	1400	830	880
BOD	.	.	<2	<2	<2	<2	<2	6	.	.	.
CHROMIUM(HEX)	.	.	<0.02	.	<0.02	.	.	.	.	.	.
FLUORIDE	.	.	2.36	2.39	2.91	3.25	0.36	0.4	5.21	2.64	7.5
AMMONIA	.	.	0.07	<0.03	0.1	0.04	0.12	0.2	.	.	.
NITRATE	.	.	0.42	0.8	4.4	5.5	1.9	0.47	16	4	3.4
PHOSPHORUS(TOTAL)	.	.	<0.05	<0.05	0.4	0.18	<0.05	<0.05	.	.	.
BORON	.	.	0.17	0.14	1.12	1.13	1.57	1.26	.	.	.
BARIUM	.	.	0.162	0.158	0.064	0.039	0.037	0.023	.	.	.
PHOSPHATE(ORTHO)	.	.	.	.	<0.05	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	.	.	.
CONDUCTIVITY	.	.	1390	1380	1530	1610	1320	1350	.	.	.
POTASSIUM	.	.	4.8	4.2	7.7	7.2	16.2	18.5	.	.	.
FIELD pH	7.26	.	7.47	7.29	.	8.00	9.15	.	.	.	.
FIELD CONDUCTIVITY	2960	.	1540	1010	.	1320	1230	.	.	.	.
FIELD TEMPERATURE(C)	24	.	24	24	.	24	26.7	.	.	.	.

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM602	DM602	DM603-115	DM603-245	DM604	DM604	DM605-105	DM605-290	DM606-045	DM606-045
SAMPLE DATE	09/06/91	11/18/91	09/26/91	09/25/91	09/06/91	11/18/91	09/30/91	09/27/91	11/19/91	11/19/91
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FD	FO
ZONE	INTERFACE	INTERFACE	INTERFACE	BEDROCK	INTERFACE	INTERFACE	INTERFACE	BEDROCK	INTERFACE	INTERFACE
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.014	0.011	<0.005A	<0.005	0.032	0.016	<0.005	<0.005A	<0.005	<0.005
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CALCIUM	62.5	62.5	28.1	110	38.5	38.6	5.3	50.2	63.4	63
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.01	<0.01	0.032	0.053	<0.01	0.024	0.029	0.042	0.011	0.017
IRON	<0.02	<0.02	0.68	0.4	0.929	<0.02	0.039	<0.02	0.384	0.39
HARDNESS	277	280	109	340	213	230	1784	168	372	369
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	29.3	30.1	9.5	15.9	28.3	32.5	0.6	10.3	51.8	51.5
MANGANESE	0.029	0.015	0.087	0.016	0.016	<0.01	<0.01	<0.01	0.103	0.112
SODIUM	210	179	227	326	266	203	424	314	192	190
NICKEL	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
LEAD	<0.002	<0.002A	<0.002A	0.002	<0.002	<0.002A	<0.002	<0.002A	<0.002	<0.002
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM	<0.005A	<0.005	<0.005	<0.005	<0.005A	<0.005	<0.005	<0.005	<0.005	<0.005
SILICA	17.7	15.2	11	17.6	20	14.9	17.2	16.7	20.1	19.8
THALLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ZINC	0.02	0.02	0.013	0.015	0.045	0.028	<0.01	<0.01	<0.01	0.01
CARBONATE	<1	<1	<1	<1	<1	<1	35	<1	<1	<1
BICARBONATE	286	275	153	164	336	299	292	194	530	348
HYDROXIDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ALKALINITY	286	275	153	164	336	299	327	194	530	348
CHLORIDE	180	200	190	310	200	180	260	210	290	280
pH	7.6	7.8	8.2	8.2	7.9	7.9	8.8	8.1	8	7.9
SULFATE	160	136	160	410	140	114	180	270	104	106
TDS	880	820	740	1300	940	770	1100	1100	980	960
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	.
FLUORIDE	7.54	7.38	4.34	2.45	4.46	5.98	3.88	4.34	6.17	6.19
AMMONIA	.	.	.	.	.	.	.	.	.	.
NITRATE	3.4	3.6	1.5	1.32	6.2	4.8	1.9	11	1.25	1.24
PHOSPHORUS(TOTAL)	.	.	.	.	.	.	.	.	.	.
BORON	.	.	.	.	.	.	.	.	.	.
BARIUM	.	.	.	.	.	.	.	.	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	.	.	.	.	.	.	.	.
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	7.6	.	.	.	11.7	.	.	12.5	12.3
FIELD pH	8	7.08	.	.	7.58	7.67	.	.	.	.
FIELD CONDUCTIVITY	1630	1590	.	.	1580	1740	.	.	.	.
FIELD TEMPERATURE(C)	25	22	.	.	24.5	22	.	.	.	.

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	DM606-370	DM701	MP03-B	MP03-B	MP03-B	MP03-B	MP03-B	MP03-B	MP03-B	MP03-B
SAMPLE DATE	11/19/91	12/19/91	05/29/87	12/03/87	09/26/88	02/01/89	12/06/89	11/12/90	01/29/91	09/16/91
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	BEDROCK	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	<0.01	<0.01	0.019	<0.02	<0.02A	<0.02	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.006	0.017	0.018	<0.02	0.03	<0.05	0.024	0.031	0.026	0.024
BERYLLIUM	<0.005	<0.005	.	.	.	.	.	<0.005	<0.005	<0.005
CALCIUM	59.9	200	493	500	590	480	596	557	495	349
CADMIUM	<0.005	<0.005	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	0.043	<0.02	<0.02	<0.05	<0.01	<0.01	<0.01	<0.01
COPPER	<0.01	<0.01	0.024	<0.05	<0.05	<0.05	<0.02	<0.02	<0.01	0.017
IRON	1	<0.02	0.029	0.2	<0.5	0.1	<0.01	0.011	<0.02	0.042
HARDNESS	208	762	.	.	.	.	.	2240	1940	1430
MERCURY	<0.0002	<0.0002	0.0016	<0.001	<0.001	<0.01	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	14.2	63.7	152	150	160	140	195	206	171	135
MANGANESE	0.332	<0.01	4.19	2.8	3.8	3.7	4.61	8.13	7.5	3.93
SODIUM	277	639	848	780	850	560	836	802	636	818
NICKEL	<0.02	<0.02	.	.	.	.	.	0.12	0.107	0.067
LEAD	<0.002	<0.002A	<0.002	<0.02	0.02	0.03	0.022	0.026	0.031	0.013
ANTIMONY	<0.05	<0.05	.	.	.	.	.	<0.05	<0.05	<0.05
SELENIUM	<0.005	<0.005A	<0.01	<0.005	<0.01	<0.005	0.006	0.007	0.011	0.009
SILICA	12.2	25.4	.	.	.	.	.	40.4	44.7	21.4
THALLIUM	<0.005	0.007	.	.	.	.	.	<0.005	0.006	0.007
ZINC	0.099	<0.01	0.036	<0.05	<0.05	0.09	0.035	0.036	0.039	0.026
CARBONATE	<1	<1	.	.	.	.	<1	<1	<1	<1
BICARBONATE	326	278	.	.	.	.	283	364	349	205
HYDROXIDE	<1	<1	.	.	.	.	<1	<1	<1	<1
ALKALINITY	326	278	166	180	248	230	283	364	349	205
CHLORIDE	280	470	1450	1300	1550	1200	1580	1500	1400	1100
pH	8	7.8	6.82	.	.	.	.	6.8	6.8	6.8
SULFATE	58	1300	1280	1120A	1000	890	1280	1400	1300	1200
TDS	1000	2700	4940	4750	5190	3900	4770	5190	4830	4200
BOD	.	.	160	<5	10	<5	5	.	.	.
CHROMIUM(HEX)	.	.	<0.03A	<0.05A	<0.05A	0.07A	<0.02A	.	.	.
FLUORIDE	5.54	4.03	17	15	14.2	12.5	14	.	.	17.4
AMMONIA	.	.	11.7	8.1	5.4	11	15.2	.	.	.
NITRATE	0.16	13.9	104	100	71	54	78	.	.	94
PHOSPHORUS(TOTAL)	.	.	0.56	0.5	0.26	0.34	0.43	.	.	.
BORON	.	.	0.9	4.9	4.1	3.1	3.81	.	.	.
BARIUM	.	.	<0.03	<0.1	0.1	0.4	0.088	.	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	<0.01	<0.05	.	0.01	<0.01	.	.	.
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	10	6	.	.	.	.	.	.	.	.
FIELD pH	.	.	6.6	6.5	5.53	6.12	6.2	6.12	6.31	6.2
FIELD CONDUCTIVITY	.	.	5500	5800	8140	4500	5380	6140	5880	5620
FIELD TEMPERATURE(C)	.	.	26	26	15	25	23	26	22	27.1

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	MP03-C	MP03-C	MP03-D	MP03-D	MP03-D	MP09-A	MP09-A	MP09-A	MP09-A	MP09-A
SAMPLE DATE	11/12/90	01/29/91	11/12/90	01/30/91	09/19/91	05/29/87	12/03/87	09/23/88	01/30/89	12/06/89
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	BEDROCK	BEDROCK	BEDROCK	BEDROCK	BEDROCK	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	0.016	<0.02	<0.02	<0.02	<0.01
ARSENIC	0.03	0.023	<0.005	0.03	0.028	0.072	0.11	0.35	<0.02	0.019
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	.	.	.	.	.
CALCIUM	18.5	19.8	19.7	16.9	15.9	327	280	280	330	362
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	0.051	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	0.043	<0.02	<0.02	<0.05	<0.01
COPPER	<0.02	<0.01	<0.02	<0.01	<0.01	0.019	<0.05	<0.05	<0.05	<0.02
IRON	0.016	<0.02	<0.01	0.049	0.06	0.037	0.6	2.3	1.7	0.016
HARDNESS	49.3	52.7	55.6	50	46.7	.	.	.	.	.
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.0002
MAGNESIUM	0.8	0.8	1.6	1.9	1.7	115	110	130	130	133
MANGANESE	<0.01	<0.01	0.018	0.031	0.03	3.76	3.5	4.1	5.3	2.23
SODIUM	485	372	347	244	313	608	500	234	500	845
NICKEL	<0.02	<0.02	0.03	<0.02	0.024	.	.	.	.	.
LEAD	0.005	0.005	0.009	0.043	0.028	<0.002	<0.02	<0.02	<0.02	<0.002
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	.	.	.	.	.
SELENIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005
SILICA	37.2	38.5	30.5	29.8	14.9	.	.	.	.	.
THALLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	.	.	.	.	.
ZINC	<0.01	<0.01	<0.01	0.011	0.01	0.046	<0.05	<0.05	<0.05	<0.01
CARBONATE	50	62	46	32	29	.	.	.	.	<1
BICARBONATE	229	184	156	160	167	.	.	.	.	261
HYDROXIDE	<1	<1	<1	<1	<1	.	.	.	.	<1
ALKALINITY	279	246	202	192	196	342	480	688	380	261
CHLORIDE	420	410	290	200	240	936	780	616	800	1090
pH	9.2	9.5	9.2	9.1	9	7.25	.	.	.	.
SULFATE	120	110	110	100	100	869	750A	200	820	1100
TDS	1330	1400	1150	840	1000	3350	2760	2200	3000	3670
BOD	.	.	.	.	.	170	79	400	<5	<2
CHROMIUM(HEX)	.	.	.	.	.	<0.03A	<0.05A	<0.05A	<0.05A	<0.02A
FLUORIDE	.	.	.	.	3.76	16.4	13	13.2	15.5	13.3
AMMONIA	.	.	.	.	.	39	28	34.9	49	33.4
NITRATE	.	.	.	.	3.1	27.2	0.6	0.4A	0.5	59
PHOSPHORUS(TOTAL)	.	.	.	.	.	0.55	0.6	0.35	<0.01	0.07
BORON	.	.	.	.	.	4.6	2.7	1.9	2.5	3.13
BARIUM	.	.	.	.	.	<0.03	<0.1	0.2	0.2	0.102
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	.	.	.	<0.01	<0.05	.	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	.	.	.	.	.	.	.
FIELD pH	9.02	9.35	8.56	.	.	6.65	6.9	6.04	6.9	8
FIELD CONDUCTIVITY	1910	1800	6380	.	.	4200	3900	3990	3000	4390
FIELD TEMPERATURE(C)	26	24	26	.	.	27	26	16	27	21

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	MP09-A	MP09-A	MP09-A	MP09-B	MP09-B	MP09-C	MP09-C	MP09-D	MP09-D	MP09-D
SAMPLE DATE	11/07/90	01/24/91	07/08/91	09/13/91	11/19/91	11/07/90	01/24/91	09/16/91	11/19/91	11/19/91
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FD	FO
ZONE	ALLUVIUM	ALLUVIUM	ALLUVIUM	INTERFACE	INTERFACE	BEDROCK	BEDROCK	BEDROCK	BEDROCK	BEDROCK
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.026	0.032	0.046	0.026	0.046	0.024	0.012	0.037	0.033	0.032
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CALCIUM	358	359	370	45.2	196	66	60.1	71.1	117	69.8
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.02	<0.01	<0.01	<0.01	0.012	<0.02	<0.01	<0.01	0.011	<0.01
IRON	<0.01	<0.02	0.05	0.027	<0.02	0.517	0.321	0.4	0.238	0.233
HARDNESS	1530	1460	1580	205	839	266	243	309	493	294
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	155	138	159	22.5	84.9	24.6	22.5	32	48.8	29.2
MANGANESE	2.81	3.29	3.77	0.24	1.08	1.57	1.4	0.802	0.939	0.936
SODIUM	694	612	638	739	828	432	373	392	402	402
NICKEL	0.03	0.031	0.043	0.032	0.028	0.02	<0.02	0.036	0.162	0.141
LEAD	0.002	0.005	<0.002	0.01	<0.002	<0.002	<0.002	0.008	<0.002	<0.002
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM	<0.005	0.007	0.007	<0.005A	0.008	<0.005	<0.005	<0.005	<0.005	<0.005
SILICA	21.4	26.7	30.6	16.5	14.9	51.1	50.9	21.5	22.6	20.2
THALLIUM	<0.005	<0.005	0.0009	0.006	0.007	<0.005	<0.005	<0.005	<0.005	<0.005
ZINC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	<0.01
CARBONATE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BICARBONATE	283	259	330	321	249	715	667	436	544	427
HYDROXIDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ALKALINITY	283	259	330	321	249	715	667	436	544	427
CHLORIDE	940	1030	950	750	900	310	340	370	510	350
pH	7.4	7.7	7.3	7.7	7.8	7.6	8	7.8	7.5	7.7
SULFATE	1100	1100	1100	380	1200	34	86	230	230	260
TDS	3820	3920	3700	2100	3500	1390	1320	1500	1600	1400
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	.
FLUORIDE	.	.	11.9	7.47	9.41	.	.	6.5	6.5	6.47
AMMONIA	.	.	31.6	.	.	.	.	.	.	.
NITRATE	.	.	83	8.1	78	.	.	3.3	0.56	0.54
PHOSPHORUS(TOTAL)	.	.	0.25	.	.	.	.	.	.	.
BORON	.	.	3.38	.	.	.	.	.	.	.
BARIUM	.	.	0.097	.	.	.	.	.	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	0.06	.	.	.	.	.	.	.
CONDUCTIVITY	.	.	5280	.	.	.	.	.	.	.
POTASSIUM	.	.	21.9	.	26.8	.	.	.	15.4	12
FIELD pH	6.96	6.76	8.5	6.82	8.12	7.1	7.04	6.97	.	7.69
FIELD CONDUCTIVITY	5040	4940	5320	3800	6040	2250	2030	2390	.	2780
FIELD TEMPERATURE(C)	26	24	27	27	22	25	24	29	.	22

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	MP11-A	MP11-A	MP11-A	MP11-B	MP11-B	MP11-B	MP11-B	MP11-B	MP11-B	MP11-B
SAMPLE DATE	12/05/89	11/06/90	01/23/91	05/21/87	11/19/87	09/22/88	01/30/89	12/05/89	11/08/90	01/23/91
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	ALLUVIUM	ALLUVIUM	ALLUVIUM	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	<0.01	<0.01	<0.01	<0.05	0.18	<0.02	<0.02	<0.01	<0.01	<0.01
ARSENIC	0.17	0.064	0.048	0.026	<0.02	0.29	2.6	2.4	1	0.6
BERYLLIUM	.	<0.005	<0.005	.	.	.	.	.	<0.005	<0.005
CALCIUM	232	251	263	69	35	50	21	7.2	10.9	11.2
CADMIUM	<0.005	<0.005	<0.005	<0.003	<0.005	<0.005	<0.005	0.024	<0.005	<0.01
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.05	<0.01	<0.01	<0.01
COPPER	<0.02	<0.02	<0.01	0.01	0.05	<0.05	<0.05	0.05	0.03	0.015
IRON	0.028	<0.01	0.099	0.018	0.5	<0.5	<0.1	0.095	0.075	0.061
HARDNESS	.	1300	1220	.	.	.	.	.	29.3	29.2
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002
MAGNESIUM	131	164	138	17.4	3	8	73	1.1	0.5	0.3
MANGANESE	0.731	0.929	0.912	0.031	0.06	0.09	<0.05	<0.01	<0.01	<0.01
SODIUM	780	801	692	247	46	330	670	1470	456	702
NICKEL	.	0.06	0.063	.	.	.	.	.	0.03	0.033
LEAD	0.003	0.003	0.009	<0.002	0.13	0.02	0.06	0.035	0.004	0.007
ANTIMONY	.	<0.05	<0.05	.	.	.	.	.	<0.05	<0.05
SELENIUM	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005
SILICA	.	26.3	31.4	.	.	.	.	.	50	62.2
THALLIUM	.	0.005	<0.005	.	.	.	.	.	<0.005	<0.005
ZINC	0.017	0.014	0.018	<0.01	0.14	<0.05	<0.05	0.017	<0.01	0.014
CARBONATE	<1	<1	<1	.	.	.	.	1150	306	254
BICARBONATE	185	173	184	.	.	.	.	<1	75	30
HYDROXIDE	<1	<1	<1	.	.	.	.	225	<1	<1
ALKALINITY	185	173	184	52	90	837	560	1375	381	284
CHLORIDE	940	990	1000	249	33	280	230	583	230	540
pH	.	7.8	7.9	9.23	.	.	.	.	10	10.1
SULFATE	1040	1100	1100	380	41	530	440	850	240	550
TDS	3230	3970	3980	1130	183	2330	1900	3920	630	2310
BOD	<2	.	.	25	<5	<5	<5	6	.	.
CHROMIUM(HEX)	<0.02A	.	.	<0.03A	<0.05A	<0.05A	<0.05A	<0.02A	.	.
FLUORIDE	7	.	.	3.32	3	14.2	16	25	.	.
AMMONIA	14.8	.	.	3.64	0.8A	11.5	9.7	17	.	.
NITRATE	60	.	.	9.7	1.2	2.4A	3.6	27	.	.
PHOSPHORUS(TOTAL)	0.11	.	.	0.14	0.84	0.93	<0.05	1.19	.	.
BORON	2.96	.	.	.	0.4	1.2	2	2.78	.	.
BARIUM	0.04	.	.	<0.05	<0.1	<0.1	0.1	0.023	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	0.01	.	.	0.02	<0.01	.	0.04	0.21	.	.
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	.	.	.	.	.	.	.
FIELD pH	7	6.99	6.14	8	9.6	9.46	8.76	7.5	.	8.85
FIELD CONDUCTIVITY	4660	5410	4840	1600	1400	3630	1600	4550	.	974
FIELD TEMPERATURE(C)	20	25	25	26	25	14	24	31	.	24

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	MP11-B	MP11-C	MP11-C	MP11-D	MP11-D	MP13-B	MP13-B	MP13-B	MP13-C	MP13-C
SAMPLE DATE	09/19/91	11/06/90	01/23/91	09/19/91	11/21/91	11/07/90	01/29/91	07/08/91	11/07/90	01/24/91
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	BEDROCK	BEDROCK	BEDROCK	BEDROCK	INTERFACE	INTERFACE	INTERFACE	BEDROCK	BEDROCK
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.43	0.027	0.027	0.028	0.033	0.04	0.045	0.039	0.012	0.01
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CALCIUM	12.1	15.4	16.4	8.4	7.3	34.2	58.6	59	72.3	70.4
CADMIUM	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	0.019	<0.02	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.02	<0.01
IRON	0.036	0.075	0.047	<0.01	<0.02	0.205	0.026	<0.02	<0.01	<0.02
HARDNESS	30.6	49.6	52.1	27.6	24	108	184	184	253	247
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	0.1	2.7	2.7	1.6	1.4	5.4	9.2	8.9	17.7	17.2
MANGANESE	<0.01	0.011	0.01	<0.01	<0.01	0.639	0.648	0.222	0.207	0.212
SODIUM	1140	224	238	187	176	152	201	274	25.8	22.5
NICKEL	0.02	0.22	0.118	0.03	0.028	0.04	0.116	0.046	<0.02	<0.02
LEAD	0.008	0.005	0.015	0.063	0.033	0.011	0.005	<0.002	<0.002	<0.002
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SILICA	49.1	24.8	27.3	15.2	14.2	53	60.5	59.7	52	53.9
THALLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ZINC	<0.01	0.054	0.051	<0.01	<0.01	0.011	0.025	<0.01	<0.01	<0.01
CARBONATE	190	6	15	<1	11	<1	<1	<1	<1	<1
BICARBONATE	<1	217	231	307	306	223	292	279	277	282
HYDROXIDE	107	<1	<1	<1	<1	<1	<1	<1	<1	<1
ALKALINITY	297	223	246	307	317	223	292	279	277	282
CHLORIDE	710	97	100	25	27	80	130	150	8.9	8.3
pH	10.7	8.4	8.6	8.3	8.6	7.9	7.8	7.8	7.7	8.2
SULFATE	750	160	190	33	45	99	220	260	9.1	9
TDS	3300	650	750	520	510	580	920	950	320	340
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	.
FLUORIDE	7.23	.	.	11.2	11.4	.	.	5.39	.	.
AMMONIA	.	.	.	.	.	.	.	0.75	.	.
NITRATE	74	.	.	2.6	2.91	.	.	0.45	.	.
PHOSPHORUS(TOTAL)	.	.	.	.	.	.	.	<0.05	.	.
BORON	.	.	.	.	.	.	.	1.38	.	.
BARIUM	.	.	.	.	.	.	.	0.055	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	.	.	.	.	.	<0.01	.	.
CONDUCTIVITY	.	.	.	.	.	.	.	1440	.	.
POTASSIUM	.	.	.	.	5.7	.	.	12.1	.	.
FIELD pH	.	7.72	8.09	.	8.45	7.58	7.4	.	7.16	5.88
FIELD CONDUCTIVITY	.	1070	1152	.	990	6220	1330	.	4730	454
FIELD TEMPERATURE(C)	.	25	24	.	22	24	23	.	24	24

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	MP16-A	MP16-A	MP16-A	MP16-A	MP16-A	MP16-A	MP16-A	MP16-A	MP16-C	MP16-C
SAMPLE DATE	05/20/87	11/18/87	09/19/88	01/17/89	11/29/89	11/02/90	01/18/91	07/03/91	11/02/90	01/18/91
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	BEDROCK	BEDROCK
SILVER	0.011	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.016	0.03	0.025	0.02	0.042	0.03	0.038	0.053	0.023	0.032
BERYLLIUM	.	.	.	.	.	<0.005	<0.005	<0.005	<0.005	<0.005
CALCIUM	224	290	300	280	46.8	41.3	70.1	22	12.8	6.5
CADMIUM	0.004	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	0.04	<0.02	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	0.015	<0.05	<0.05	<0.05	<0.02	<0.02	<0.01	<0.01	<0.02	<0.01
IRON	0.084	0.2	<0.5A	0.3	0.57	<0.01	<0.02	<0.02	<0.01	<0.02
HARDNESS	.	.	.	.	.	163	287	90.3	47.2	24.9
MERCURY	<0.0002	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	113	146	130	120	19	14.6	27.3	8.6	3.7	2.1
MANGANESE	0.332	0.1	0.09	0.05	0.055	0.048	0.012	0.021	0.018	<0.01
SODIUM	737	1010	1050	1100	651	801	701	778	387	286
NICKEL	.	.	.	.	.	0.13	0.106	0.093	<0.02	<0.02
LEAD	<0.002	<0.02	<0.02	<0.02	<0.002	<0.002	0.004	<0.002	<0.002	<0.002
ANTIMONY	.	.	.	.	.	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM	<0.01	<0.005	<0.01A	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005
SILICA	.	.	.	.	.	29.1	34.4	27.8	32.5	34.7
THALLIUM	.	.	.	.	.	<0.005	<0.005	0.006	<0.005	<0.005
ZINC	<0.01	<0.05	<0.05	<0.05	<0.01	<0.1	0.01	<0.01	<0.01	<0.01
CARBONATE	.	.	.	.	<1	<1	<1	<1	6	17
BICARBONATE	.	.	.	.	364	355	320	365	351	420
HYDROXIDE	.	.	.	.	<1	<1	<1	<1	<1	<1
ALKALINITY	318	302	298	290	364	355	320	365	357	437
CHLORIDE	889	1030	1030	800	320	460	520	460	140	63
pH	7.51	.	.	.	7.9	8.3	8.3	8.3	8.4	8.5
SULFATE	1040	1250A	1400	1500	600	800	810	690	290	170
TDS	3660	4190	4340	3900	1860	2410	2500	2200	1080	870
BOD	16	<5	<5	.	<3	.	.	.	.	.
CHROMIUM(HEX)	<0.03A	<0.05A	<0.05A	<0.05A	<0.02A	.	.	.	.	.
FLUORIDE	8.29	8	8.5	8.3	13.06	.	.	10.5	.	.
AMMONIA	<0.1	<0.1	<0.1	<0.2	<0.03	.	.	<0.03	.	.
NITRATE	46.8	53	48	46	12.6	.	.	22	.	.
PHOSPHORUS(TOTAL)	<0.05	<0.01	<0.05	<0.01	<0.05	.	.	<0.05	.	.
BORON	.	5.3	5.3	5.8	2.83	.	.	4	.	.
BARIUM	<0.05	<0.1	<0.1	<0.1	0.014	.	.	0.025	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	0.01	.	<0.01	<0.01	.	.	<0.01	.	.
CONDUCTIVITY	.	.	.	.	.	.	.	3460	.	.
POTASSIUM	.	.	.	.	.	.	.	7.3	.	.
FIELD pH	6.9	7.2	6.84	7.85	7.6	.	7.95	8.1	7.9	8.22
FIELD CONDUCTIVITY	4100	5100	1812	7200	2380	.	3320	3240	1710	1270
FIELD TEMPERATURE(C)	28	28	16	16	23	.	24	29	26	23

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	MP20-A	MP20-A	MP20-B	MP20-B	MP20-C	MP20-C	MP25-D	MP28-A	MP28-A	MP28-B
SAMPLE DATE	11/06/90	01/23/91	11/06/90	01/23/91	11/06/90	01/23/91	11/02/90	11/12/90	01/29/91	10/31/90
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	INTERFACE	BEDROCK	BEDROCK	BEDROCK	BEDROCK	BEDROCK	INTERFACE	INTERFACE	BEDROCK
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.029	0.018	0.1	0.087	<0.005	<0.005	0.018	<0.005	0.01	0.011
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CALCIUM	118	101	12.3	12.4	9.9	16	29	61.6	69.1	64.9
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.02	<0.01	<0.02	<0.01	<0.02	<0.01	<0.02	<0.02	<0.01	<0.02
IRON	<0.01	<0.02	<0.01	0.071	<0.01	<0.02	<0.01	<0.01	<0.02	<0.01
HARDNESS	295	451	48	47.8	37.5	57.7	94.6	155	175	235
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	54.2	48.2	4.2	4.1	3.1	4.3	5.4	0.2	0.5	17.7
MANGANESE	0.038	0.035	<0.01	0.01	<0.01	<0.01	0.034	<0.01	<0.01	<0.01
SODIUM	494	427	713	614	503	419	74.1	289	231	545
NICKEL	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.14	<0.02	<0.02	<0.02
LEAD	0.002	0.002	0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SILICA	81.3	77.9	50.9	50.9	23.3	31.7	46.2	27.6	43.0	3
THALLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ZINC	<0.01	<0.01	<0.01	<0.01	<0.01	0.055	<0.01	<0.01	<0.01	<0.01
CARBONATE	<1	<1	16	20	94	80	<1	46	48	2
BICARBONATE	333	320	335	350	30	96	176	<1	<1	93
HYDROXIDE	<1	<1	<1	<1	<1	<1	0	50	90	<1
ALKALINITY	333	320	351	370	124	176	176	96	138	95
CHLORIDE	440	450	430	460	390	370	24	260	230	160
pH	7.8	8.2	8.5	8.5	9.9	9.5	8.2	10.8	11.3	8.4
SULFATE	550	550	540	530	420	390	32	250	240	1100
TDS	1970	1920	1960	1940	1410	1470	330	930	1000	1960
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	.
FLUORIDE	.	.	.	.	.	.	.	.	.	.
AMMONIA	.	.	.	.	.	.	.	.	.	.
NITRATE	.	.	.	.	.	.	.	.	.	.
PHOSPHORUS(TOTAL)	.	.	.	.	.	.	.	.	.	.
BORON	.	.	.	.	.	.	.	.	.	.
BARIUM	.	.	.	.	.	.	.	.	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	.	.	.	.	.	.	.	.
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	.	.	.	.	.	.	.
FIELD pH	7.28	7.47	8.12	8.1	9.83	9.53	7.8	10.54	.	8.6
FIELD CONDUCTIVITY	2830	2600	2900	2830	1990	2180	4470	1500	.	2600
FIELD TEMPERATURE(C)	25	23	25	24	25	24.4	26	28	.	28

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	MP28-B	MP28-C	MP28-C	MP28-D	MP28-D	MP30-A	MP30-A	MP30-B	MP30-C	MP30-D
SAMPLE DATE	01/21/91	10/31/90	01/21/91	10/31/90	01/21/91	11/05/90	07/03/91	11/05/90	11/05/90	11/05/90
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	BEDROCK	BEDROCK	BEDROCK	BEDROCK	BEDROCK	ALLUVIUM	ALLUVIUM	INTERFACE	BEDROCK	BEDROCK
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01
ARSENIC	0.01	0.01	0.01	0.005	<0.005	0.026	0.03	0.11	0.023	0.015
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CALCIUM	63.6	97.1	105	140	147	99.7	105	5	24.5	46.7
CADMIUM	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
COPPER	<0.01	<0.02	<0.01	<0.02	<0.01	<0.02	<0.01	<0.02	<0.02	<0.02
IRON	<0.02	<0.01	<0.02	<0.01	<0.02	<0.01	<0.02	0.292	<0.01	<0.01
HARDNESS	230	334	353	433	451	497	514	65.2	110	169
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	17.3	22.3	22.1	20.4	20.4	60.3	61.1	0.2	11.8	12.8
MANGANESE	<0.01	<0.01	<0.01	<0.01	0.028	0.031	0.039	<0.01	<0.01	0.054
SODIUM	498	266	239	269	249	134	133	295	147	118
NICKEL	<0.02	<0.02	<0.02	<0.02	0.182	<0.02	0.026	0.04	0.03	0.09
LEAD	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.014	0.08	0.006
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SILICA	33.8	44.9	47.7	41.9	42.8	59.2	64.2	37.6	40.2	34
THALLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ZINC	<0.01	<0.01	<0.01	<0.01	0.012	<0.01	<0.01	<0.01	<0.01	<0.01
CARBONATE	2	<1	<1	<1	<1	<1	<1	168	<1	<1
BICARBONATE	104	182	292	162	166	394	370	44	189	168
HYDROXIDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ALKALINITY	106	182	292	162	166	394	370	212	189	168
CHLORIDE	160	180	180	170	160	250	260	160	100	100
pH	8.4	7.8	8.1	7.6	8	7.9	7.7	10	8.2	8
SULFATE	990	460	430	590	570	100	120	210	83	100
TDS	1900	1200	1190	1350	1360	970	980	820	520	520
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	.
FLUORIDE	.	.	.	.	.	.	4	.	.	.
AMMONIA	.	.	.	.	.	.	<0.03	.	.	.
NITRATE	.	.	.	.	.	.	3.03	.	.	.
PHOSPHORUS(TOTAL)	.	.	.	.	.	.	<0.05	.	.	.
BORON	.	.	.	.	.	.	0.36	.	.	.
BARIUM	.	.	.	.	.	.	0.092	.	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	.	.	.	.	<0.01	.	.	.
CONDUCTIVITY	.	.	.	.	.	.	1540	.	.	.
POTASSIUM	.	.	.	.	.	.	4.8	.	.	.
FIELD pH	8.16	7.2	7.52	7	7.41	7.2	7.4	10.4	8.1	7.6
FIELD CONDUCTIVITY	2380	1620	1340	1820	1690	1610	1950	1150	9260	9240
FIELD TEMPERATURE(C)	25	28	25	28	25	21	23	21	22	21

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	MP36-A	MP36-A	MP36-A	MP36-A	MP36-B	MP36-B	MP36-B	MP36-B	MP36-B	MP36-B
SAMPLE DATE	12/05/89	06/13/90	11/08/90	01/25/91	05/21/87	11/30/87	09/23/88	01/31/89	12/05/89	06/13/90
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	<0.01	<0.01	<0.01	<0.01	0.015	<0.02	<0.02	<0.02	<0.01	<0.01
ARSENIC	0.048	0.051	0.072	0.094	0.081	0.08	0.12	0.1	0.097	0.084
BERYLLIUM	.	<0.005	<0.005	<0.005	.	.	.	.	.	<0.005
CALCIUM	57	49.9	60.4	57.1	432	440	310	350	353	330
CADMIUM	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	0.013	<0.02	<0.02	<0.05	<0.01	<0.01
COPPER	<0.02	<0.02	<0.02	<0.01	0.018	<0.05	<0.05	<0.05	<0.02	<0.02
IRON	<0.01	<0.01	<0.01	0.047	0.041	<0.1	<0.5	<0.1	<0.01	<0.01
HARDNESS	.	204	243	237	.	.	.	.	.	1260
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.0002	<0.0002
MAGNESIUM	23.6	19.4	22.5	20.9	188	180	120	140	143	106
MANGANESE	0.394	0.339	0.416	0.945	7.89	6.4	4.2	4.7	4.62	4.38
SODIUM	300	234	312	300	764	850	740	800	834	783
NICKEL	.	<0.02	<0.02	0.03	.	.	.	.	.	0.06
LEAD	0.003	0.003	<0.002	<0.002	<0.002	<0.02	<0.02	<0.02	0.004	0.011
ANTIMONY	.	<0.05	<0.05	<0.05	.	.	.	.	.	<0.05
SELENIUM	<0.01	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	0.022
SILICA	.	18.8	40.5	41.7	.	.	.	.	.	17.8
THALLIUM	.	<0.005	<0.005	<0.005	.	.	.	.	.	0.005
ZINC	<0.01	<0.01	<0.01	0.019	<0.01	<0.05	<0.05	<0.05	<0.01	<0.01
CARBONATE	<1	<1	<1	<1	.	.	.	.	<1	<1
BICARBONATE	290	264	280	276	.	.	.	.	216	199
HYDROXIDE	<1	<1	<1	<1	.	.	.	.	<1	<1
ALKALINITY	290	264	280	276	150	170	219	200	216	199
CHLORIDE	212	220	240	240	1570	1260	913	1000	1150	1150
pH	.	7.9	7.8	7.7	6.8	.	.	.	.	7.2
SULFATE	300	250	270	270	1140	1100	840	1100	1140	773
TDS	1050	1010	1110	1110	4670	4600	4660	3900	4040	4050
BOD	<2	<2	.	.	14	<5	<5	<5	<2	<2
CHROMIUM(HEX)	<0.02A	.	.	.	<0.03A	<0.05A	<0.05A	<0.05A	<0.02A	.
FLUORIDE	10.7	.	.	.	18.8	22	18.4	24	18.4	.
AMMONIA	13.8	.	.	.	26.8	23	13.4	21	19.5	.
NITRATE	3.4	.	.	.	102	96	67	85	92	.
PHOSPHORUS(TOTAL)	<0.05	.	.	.	0.86	<0.01	0.53	1	1.04	.
BORON	1.31	.	.	.	.	4.6	3.9	4	4.18	.
BARIUM	0.036	.	.	.	<0.05	0.1	<0.1	0.1	0.082	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	.	.	.	<0.01	<0.05	.	<0.01	<0.01	.
CONDUCTIVITY	.	1680	.	.	.	.	.	.	.	1730
POTASSIUM	.	10.9	.	.	.	.	.	.	.	17.4
FIELD pH	7.6	.	7.39	7.33	6.8	6.6	6.51	6.82	6.8	.
FIELD CONDUCTIVITY	1550	.	1900	1680	5400	6000	6100	4800	4780	.
FIELD TEMPERATURE(C)	24	.	25	24	25	25	15	26	23	.

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	MP36-B	MP36-B	MP36-B	MP36-B	MP36-C	MP36-C	MP36-C	MP36-D	MP36-D	MP36-D
SAMPLE DATE	11/08/90	11/21/90	01/25/91	09/17/91	06/13/90	11/08/90	01/25/91	06/14/90	06/14/90	11/08/90
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FD	FO	FO
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	BEDROCK	BEDROCK	BEDROCK	BEDROCK	BEDROCK	BEDROCK
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.143	0.116	0.113	0.094	0.053	0.042	0.076	0.051	0.016	0.013
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CALCIUM	355	304	338	285	330	357	342	330	101	92.2
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.02	<0.02	<0.01	0.012	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02
IRON	<0.01	<0.01	<0.02	<0.02	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01
HARDNESS	1170	1270	1390	1230	1260	1440	1410	1260	370	331
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	68.7	123	133	126	106	133	135	105	28.5	24.4
MANGANESE	4.4	4.04	4.37	3.69	4.21	4.09	4.12	4.01	0.747	0.329
SODIUM	404	750	797	816	749	796	782	745	163	212
NICKEL	0.05	0.05	0.063	0.046	0.06	0.08	0.066	0.06	0.04	<0.02
LEAD	<0.002	<0.002	0.002	0.003	0.011	0.002	0.002	0.012	0.018	0.018
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SELENIUM	0.006	0.012	0.008	0.008	0.024	0.006	0.007	0.024	<0.005	<0.005
SILICA	35.8	35.6	38.7	17.5	19.9	44.7	47.7	20.2	17.1	43.6
THALLIUM	<0.005	<0.005	<0.005	0.007	0.007	<0.005	<0.005	0.007	<0.005	<0.005
ZINC	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
CARBONATE	<1	<1	<1	<1	24	<1	<1	<1	<1	<1
BICARBONATE	194	248	176	172	215	222	210	222	164	162
HYDROXIDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ALKALINITY	194	248	176	172	239	222	210	222	164	162
CHLORIDE	1100	1000	1100	960	1140	1100	1100	1140	280	160
pH	7	7.4	7.6	6.9	7.3	7.3	7.7	7.3	8	8
SULFATE	1100	970	1100	1100	1100	1200	1100	1090	370	320
TDS	4110	3690	4190	3800	3960	4950	4110	3990	1260	980
BOD	.	.	.	.	<2	.	.	<2	<2	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	.
FLUORIDE	.	.	.	19.5	.	.	.	.	.	.
AMMONIA	.	.	.	.	.	.	.	.	.	.
NITRATE	.	.	.	98	.	.	.	.	.	.
PHOSPHORUS(TOTAL)	.	.	.	.	.	.	.	.	.	.
BORON	.	.	.	.	.	.	.	.	.	.
BARIUM	.	.	.	.	.	.	.	.	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	.	.	.	.	.	.	.	.
CONDUCTIVITY	.	.	.	.	5510	.	.	5590	1900	.
POTASSIUM	.	.	.	.	17.1	.	.	17	9.2	.
FIELD pH	6.58	6.7	5.48	6.17	.	6.74	6.74	.	.	7.65
FIELD CONDUCTIVITY	5420	5380	5080	5360	.	5390	4940	.	.	1410
FIELD TEMPERATURE(C)	25	25	24	26	.	25	24	.	.	25

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	MP36-D	MP36-D	MP37-C	MP37-C	MP49-A	MP49-A	MP49-B	MP49-B	MP49-B	MP49-C
SAMPLE DATE	01/28/91	09/17/91	09/19/91	11/22/91	12/04/89	07/10/90	12/04/89	07/10/90	07/10/90	07/10/90
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FD	FO	FO
ZONE	BEDROCK	BEDROCK	BEDROCK	BEDROCK	ALLUVIUM	ALLUVIUM	INTERFACE	INTERFACE	INTERFACE	BEDROCK
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ARSENIC	0.015	0.013	0.022	0.027	0.013	0.012	0.019	0.014	0.014	0.052
BERYLLIUM	<0.005	<0.005	<0.005	<0.005	.	<0.005	.	<0.005	<0.005	<0.005
CALCIUM	134	115	5.1	6.3	55.7	38.6	51.2	51.1	49.4	1.3
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.01	0.016	0.024	0.018	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
IRON	<0.02	<0.02	0.151	0.035	<0.01	0.034	<0.01	0.013	0.032	0.025
HARDNESS	484	416	18.1	22.3	.	196	.	252	245	3.2
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	36.2	31.4	1.3	1.6	31.3	24.2	30	30.1	29.5	<0.1
MANGANESE	0.816	0.557	0.118	0.028	<0.01	<0.01	<0.01	0.012	0.011	<0.01
SODIUM	244	247	266	270	131	109	310	312	313	484
NICKEL	0.03	<0.02	0.202	0.045	.	<0.02	.	0.03	0.03	<0.02
LEAD	0.009	0.018	0.053	0.009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
ANTIMONY	<0.05	<0.05	<0.05	<0.05	.	<0.05	.	<0.05	<0.05	<0.05
SELENIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005
SILICA	45.1	20.6	17.2	14.3	.	27.6	.	47.2	45.8	77.1
THALLIUM	<0.005	<0.005	<0.005	<0.005	.	<0.005	.	<0.005	<0.005	<0.005
ZINC	0.044	0.013	0.034	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
CARBONATE	<1	<1	22	22	<1	<1	<1	<1	<1	256
BICARBONATE	188	174	408	487	172	226	299	297	298	<1
HYDROXIDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	226
ALKALINITY	188	174	430	509	172	226	299	297	298	482
CHLORIDE	340	240	24	18	210	66	260	205	210	170
pH	8.1	7.9	8.6	8.6	.	8.1	.	8.1	8	11.5
SULFATE	420	370	56	71	82	78	250	250	230	160
TDS	1480	1200	690	720	650	470	1140	1070	1090	1190
BOD	.	.	.	.	<2	.	<2	.	.	.
CHROMIUM(HEX)	.	.	.	.	<0.02A	.	<0.02A	.	.	.
FLUORIDE	.	4.93	11.7	10.51	2.8	2.97	5.6	6.17	6.19	13.5
AMMONIA	.	.	.	.	0.03	.	0.06	.	.	.
NITRATE	.	16	0.75	2.27	1.83	0.83	8	7.3	7.63	7.6
PHOSPHORUS(TOTAL)	.	.	.	.	<0.05	.	<0.05	.	.	.
BORON	.	.	.	.	0.18	.	0.96	.	.	.
BARIUM	.	.	.	.	0.062	.	0.049	.	.	.
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	.	.	.	<0.01	.	<0.01	.	.	.
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	4.2	.	.	.	.	.	.
FIELD pH	7.92	6.86	8.63	8.5	7.2	.	7.2	.	.	.
FIELD CONDUCTIVITY	1740	1720	1090	1200	1060	.	1580	.	.	.
FIELD TEMPERATURE(C)	25	28.3	25.9	22	20	.	22	.	.	.

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	MP49-D	MP50-A	MP50-B	MP51-A	MP51-B	MP51-B	MP51-B	MP51-B	MP51-B	MP51-B
SAMPLE DATE	07/10/90	11/27/89	11/27/89	11/27/89	05/20/87	11/18/87	09/21/88	01/18/89	11/17/89	11/27/89
SAMPLE CODE	FO	FO	FD	FO	FO	FO	FO	FO	FO	FO
ZONE	BEDROCK	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM
SILVER	<0.01	<0.01	<0.01	<0.01	<0.05	<0.02	<0.02	<0.02	<0.01	<0.01
ARSENIC	0.006	0.013	0.015	0.014	0.04	0.04	0.03	0.03	0.026	0.027
BERYLLIUM	<0.005	.	.	.	.	.	.	.	.	.
CALCIUM	18.4	23	43.6	62.6	6	22	34	22	18.9	20.3
CADMIUM	<0.005	<0.005	<0.005	<0.005	0.003	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.02	<0.05	<0.01	<0.01
COPPER	<0.02	<0.02	<0.02	<0.02	<0.01	<0.05	<0.05	<0.05	<0.02	<0.02
IRON	0.02	<0.01	<0.01	<0.01	0.016	0.2	<0.5	<0.1	0.019	0.156
HARDNESS	62.8	.	.	.	.	.	.	.	.	.
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.0002	<0.0002
MAGNESIUM	4.1	31.6	60.3	21.8	9.4	21	31	22	18.3	20.7
MANGANESE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.01	<0.01
SODIUM	185	259	332	530	419	480	410	370	293	344
NICKEL	<0.02	.	.	.	.	.	.	.	.	.
LEAD	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.02	<0.02	0.002	0.004
ANTIMONY	<0.05	.	.	.	.	.	.	.	.	.
SELENIUM	<0.005	<0.005	<0.005	0.012	<0.01	<0.005	<0.01A	<0.005	<0.005	<0.005
SILICA	35.5	.	.	.	.	.	.	.	.	.
THALLIUM	<0.005	.	.	.	.	.	.	.	.	.
ZINC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.01	<0.01
CARBONATE	<1	10	<1	<1	.	.	.	.	<1	18
BICARBONATE	228	343	525	202	.	.	.	.	420	400
HYDROXIDE	<1	<1	<1	<1	.	.	.	.	<1	<1
ALKALINITY	228	353	525	202	447	430	442	390	420	418
CHLORIDE	54	200	240	470	276	310	261	200	190	175
pH	8.3	.	.	.	8.3	.	.	.	.	.
SULFATE	76	110	210	330	171	180A	190	340	130	170
TDS	520	830	1180	1330	1350	2440	1400	1100	960	670
BOD	.	<2	<2	<2	23	<5	<5	<5	.	<2
CHROMIUM(HEX)	.	<0.02A	<0.02A	<0.02A	<0.03A	<0.05A	<0.05A	<0.05A	<0.02A	<0.02A
FLUORIDE	6.45	7.64	6.14	9.13	8.03	8.4	7.7	9.8	10.64	10.67
AMMONIA	.	<0.03	<0.03	0.05	<0.1	<0.1	0.67	<0.2	<0.03	<0.03
NITRATE	6.3	4.7	11	27.7	6.59	11	8.4	2.8	5.9	6.2
PHOSPHORUS(TOTAL)	.	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.01	<0.05	<0.05
BORON	.	0.8	1.13	1.88	.	1.5	1.3	1.2	1	1.01
BARIUM	.	0.042	0.09	0.045	<0.05	<0.1	<0.1	<0.1	0.033	0.034
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	.	<0.01	<0.01	<0.01	<0.01	0.01	.	<0.01	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	.	.	.	.	.	.	.
FIELD pH	.	7.8	.	8.8	7.2	7.8	7.29	8.5	8	7.2
FIELD CONDUCTIVITY	.	1170	.	2100	1650	1850	2370	.	1330	1240
FIELD TEMPERATURE(C)	.	24	.	24	26	26	15	14	25	26

TABLE E4.1
POST-RI (1987-1991) INORGANICS IN PPM

WELL	MP52-B	MP52-B	MP52-B	MP52-B	MP52-B	MP52-B	MP53-B	WILLIS
SAMPLE DATE	05/26/87	11/18/87	09/16/88	01/16/89	11/17/89	11/22/89	11/22/89	12/11/89
SAMPLE CODE	FO	FO	FO	FO	FO	FO	FO	FO
ZONE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE	INTERFACE
SILVER	<0.01	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01
ARSENIC	<0.01	<0.02	<0.02	<0.02	0.008	0.008	0.09	0.007
BERYLLIUM	.	.	.	.	.	.	.	.
CALCIUM	154	150	140	140	138	142	38.3	62.3
CADMIUM	0.004	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM	<0.01	<0.02	<0.02	<0.05	<0.01	<0.01	<0.01	<0.01
COPPER	0.012	<0.05	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02
IRON	0.021	<0.1	<0.5A	<0.1	0.021	<0.01	<0.01	10.5
HARDNESS	.	.	.	.	.	.	.	.
MERCURY	<0.0002	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	<0.0002
MAGNESIUM	65	63	58	58	48.4	53.8	39.8	15.6
MANGANESE	0.013	0.05	<0.05	<0.05	<0.01	<0.01	<0.01	0.052
SODIUM	588	680	500	620	589	748	668	539
NICKEL	.	.	.	.	.	.	.	.
LEAD	<0.002	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	0.003
ANTIMONY	.	.	.	.	.	.	.	.
SELENIUM	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
SILICA	.	.	.	.	.	.	.	.
THALLIUM	.	.	.	.	.	.	.	.
ZINC	<0.01	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	0.068
CARBONATE	.	.	.	.	<1	<1	<1	<1
BICARBONATE	.	.	.	.	310	307	371	209
HYDROXIDE	.	.	.	.	<1	<1	<1	<1
ALKALINITY	310	290	257	250	310	307	371	209
CHLORIDE	386	390	391	460	440	430	470	351
pH	7.57	.	.	.	.	.	.	.
SULFATE	993	960A	1000	1100	1050	1100	640	420
TDS	2590	2490	2310	2200	2560	2550	2020	1380
BOD	9	<5	<5	.	.	<2	<2	<5
CHROMIUM(HEX)	<0.03A	<0.05A	<0.05A	<0.05A	<0.02A	<0.02A	<0.02A	<0.02A
FLUORIDE	3.25	2.4	3.7	3.8	3.9	3.8	7.27	4.2
AMMONIA	<0.1	<0.1	0.59	<0.2	<0.03	0.04	0.04	0.32
NITRATE	10.9	13	7.1	16	11.5	9.5	13.2	9.3
PHOSPHORUS(TOTAL)	<0.05	<0.01	<0.05	0.13	<0.05	<0.05	0.08	0.06
BORON	.	3.9	3.4	3.8	2.87	2.92	1.91	1.52
BARIUM	<0.05	<0.1	<0.1	<0.1	0.028	0.029	0.032	0.034
PHOSPHATE(ORTHO)	.	.	.	.	.	.	.	.
CYANIDE(TOTAL)	<0.01	0.01	.	<0.01	<0.01	<0.01	<0.01	<0.01
CONDUCTIVITY	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	.	.	.	.	.
FIELD pH	7.2	7.5	7.22	8.07	7.6	7.4	7.6	7.2
FIELD CONDUCTIVITY	3000	3000	4280	6800	2840	2300	1650	940
FIELD TEMPERATURE(C)	24	26	14	13	22	25	18	23

TABLE E4.2
POST-RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)	DISSOLVED OXYGEN (PPM)
4626G	05/28/87	1300	7.40	25.00	.
4626G	10/03/88	1450	.	.	.
4626G	10/30/90	1820	6.99	24.40	.
4626G	12/31/90	.	7.06	22.80	.
AZSLD	11/01/90	2780	7.50	25.00	.
AZSLD	12/27/90	2750	7.58	24.00	.
DM107	05/27/87	6300	7.20	26.50	.
DM107	11/20/87	7000	7.20	27.00	.
DM107	09/19/88	10440	7.16	18.00	.
DM107	01/17/89	8600	7.71	15.00	.
DM107	11/30/89	4480	6.80	23.00	.
DM107	11/05/90	3180	7.50	29.00	.
DM107	01/22/91	10060	7.05	26.00	.
DM107	07/01/91	5820	7.06	31.00	5.9
DM111	05/28/87	1500	7.70	26.00	.
DM111	11/23/87	1600	7.50	25.00	.
DM111	09/22/88	1839	7.06	14.00	.
DM111	01/24/89	2000	7.96	11.00	.
DM111	12/04/89	1480	7.96	27.00	.
DM111	11/02/90	1510	7.40	26.00	.
DM111	01/22/91	1380	7.38	25.00	.
DM111	09/12/91	1470	7.52	27.00	.
DM112	11/08/90	7410	7.08	25.00	.
DM112	01/25/91	2180	7.21	22.00	.
DM113	05/28/87	1200	7.50	25.00	.
DM113	11/20/87	1140	7.20	26.00	.
DM113	09/21/88	1863	7.34	13.00	.
DM113	01/24/89	1500	7.79	12.00	.
DM113	12/01/89	1870	7.40	41.00	.
DM114	10/30/90	1370	7.16	25.00	.
DM114	01/02/91	1432	7.18	23.00	.
DM115	05/28/87	3050	7.30	25.00	.
DM115	11/20/87	3200	7.10	23.00	.
DM115	09/20/88	5070	5.07	15.00	.
DM115	01/19/89	4800	8.17	11.00	.
DM115	11/30/89	6550	7.00	22.00	.
DM115	11/06/90	7560	6.81	24.00	.
DM115	01/23/91	4610	6.92	23.00	.
DM115	09/11/91	8630	7.09	26.00	.
DM117	05/27/87	1550	7.90	26.00	.
DM117	11/25/87	1800	7.50	25.00	.
DM117	09/22/88	2070	7.09	14.00	.
DM117	01/25/89	2000	7.93	12.00	.
DM117	12/04/89	1620	7.00	23.00	.
DM117	12/14/89	1590	7.20	22.00	.
DM117	11/20/90	1240	7.25	23.00	.
DM117	01/23/91	1290	7.19	25.00	.
DM117	07/02/91	1850	7.79	29.00	2.8
DM117	09/11/91	1411	7.40	26.50	.
DM117	11/18/91	2130	7.78	22.00	.
DM118	10/24/90	2600	6.91	24.00	.
DM118	12/31/90	2540	6.96	24.00	.
DM118	06/27/91	1790	7.02	25.00	5.1
DM120	05/27/87	1700	7.30	24.50	.
DM120	11/27/87	2200	7.60	23.00	.
DM120	09/19/88	2240	7.40	25.00	.
DM120	01/16/89	4400	8.42	12.00	.
DM120	11/30/89	1700	7.60	23.00	.
DM120	12/12/89	1890	8.00	23.00	.

TABLE E4.2
POST-RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)	DISSOLVED OXYGEN (PPM)
DM120	11/01/90	1870	7.80	25.00	.
DM120	11/20/90	2010	7.65	24.50	.
DM120	01/22/91	2120	7.18	25.10	.
DM120	06/28/91	1480	7.64	26.00	5.7
DM120	07/17/91	2170	7.61	26.40	.
DM122-A	05/26/87	1900	7.10	26.00	.
DM122-A	11/23/87	2040	7.40	23.00	.
DM122-A	09/15/88	3030	7.62	14.00	.
DM122-A	01/13/89	5000	8.16	10.00	.
DM122-A	11/28/89	2310	7.60	20.00	.
DM122-A	11/01/90	2500	8.50	28.00	.
DM122-A	01/22/91	2340	7.63	20.00	.
DM122-A	06/27/91	1940	7.15	27.00	7.4
DM122-B	05/26/87	2200	7.40	25.00	.
DM122-B	11/23/87	2800	7.30	23.00	.
DM122-B	09/15/88	3310	7.58	14.00	.
DM122-B	01/13/89	5500	8.11	9.00	.
DM122-B	11/28/89	2320	7.60	22.00	.
DM122-B	01/22/91	2660	7.49	21.10	.
DM122-B	06/27/91	1950	7.42	27.00	5.4
DM124	10/30/90	1850	6.98	26.00	.
DM124	01/02/91	1880	7.07	25.00	.
DM124	06/28/91	1390	7.69	26.00	7.1
DM124	07/17/91	1970	6.54	29.00	.
DM126	05/27/87	2500	7.10	23.00	.
DM126	11/24/87	2800	7.30	23.00	.
DM126	09/16/88	3900	6.99	11.00	.
DM126	01/16/89	5900	7.75	10.00	.
DM126	11/21/89	2570	7.20	22.00	.
DM126	11/28/89	2570	8.20	21.00	.
DM201	01/17/89	7900	7.85	10.00	.
DM201	10/31/90	4830	6.80	30.00	.
DM201	01/18/91	4800	7.10	27.00	.
DM201	03/13/91	4810	7.30	28.40	.
DM201	03/15/91	4810	7.30	27.10	.
DM201	03/18/91	4840	7.19	29.00	.
DM201	03/20/91	5080	6.88	26.50	.
DM201	03/22/91	5840	6.87	28.70	.
DM201	03/25/91	5580	7.16	28.60	.
DM201	03/28/91	6290	7.12	27.50	.
DM201	04/01/91	4770	6.52	28.50	.
DM201	04/03/91	4390	7.14	29.40	.
DM201	04/08/91	5500	7.00	29.30	.
DM201	04/12/91	4370	6.90	28.30	.
DM201-OB1	02/28/91	5400	7.06	26.00	.
DM201-OB1	03/20/91	5680	6.83	26.90	.
DM201-OB1	03/29/91	5350	7.09	27.20	.
DM201-OB1	04/03/91	4760	6.93	28.90	.
DM201-OB1	04/12/91	4800	6.80	27.90	.
DM201-OB2	03/01/91	4660	7.19	26.00	.
DM201-OB2	03/20/91	4550	7.06	27.00	.
DM201-OB2	03/29/91	4650	7.16	27.70	.
DM201-OB2	04/03/91	4110	6.89	28.00	.
DM201-OB2	04/12/91	4370	6.87	28.00	.
DM201-OB3	03/01/91	2220	8.00	26.00	.
DM201-OB3	03/20/91	2280	8.08	27.30	.
DM201-OB3	03/29/91	2210	7.90	25.40	.
DM201-OB3	04/03/91	2131	7.80	28.50	.
DM201-OB3	04/12/91	2260	7.72	26.20	.

TABLE E4.2
POST-RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)	DISSOLVED OXYGEN (PPM)
DM202	01/23/89	1000	8.40	11.00	.
DM202	11/29/89	1030	7.20	21.00	.
DM202-OB1	01/23/89	1700	8.30	14.00	.
DM202-OB2	01/23/89	1400	8.25	11.00	.
DM303	11/07/90	3160	7.50	25.00	.
DM303	01/24/91	2910	6.02	25.00	.
DM303	11/22/91	2920	6.47	23.00	.
DM304	11/08/90	4530	6.92	24.00	.
DM304	01/25/91	4060	7.01	23.00	.
DM304	11/22/91	4270	6.19	23.00	.
DM305	11/26/91	1830	7.27	23.00	.
DM305	12/05/91	1700	7.27	22.60	.
DM306	11/25/91	1930	7.28	23.00	.
DM306	12/05/91	1550	7.35	23.10	.
DM307	11/25/91	1820	7.16	24.00	.
DM307	12/10/91	1600	7.22	24.30	.
DM308	11/26/91	1840	7.45	23.00	.
DM308	12/06/91	1600	7.50	24.90	.
DM309	11/26/91	2110	7.41	24.00	.
DM309	12/06/91	2150	7.93	24.70	.
DM310	11/25/91	1910	7.68	24.00	.
DM310	12/09/91	1600	7.79	24.30	.
DM311	11/25/91	2610	9.05	23.00	.
DM311	12/09/91	2400	8.78	25.30	.
DM312	11/24/91	3640	7.71	23.00	.
DM312	12/09/91	3600	7.60	24.10	.
DM313	11/24/91	3250	7.54	22.00	.
DM313	12/09/91	3000	7.93	23.70	.
DM503	01/02/91	3320	7.31	24.00	.
DM503	01/08/91	3520	7.58	23.00	.
DM503	01/17/91	3140	7.19	24.00	.
DM503	06/17/91	2680	7.51	26.00	.
DM503	06/28/91	2480	7.89	26.00	2.9
DM503	07/17/91	3770	7.38	27.20	.
DM504	12/31/90	2040	7.72	23.00	.
DM504	01/08/91	1970	7.23	22.00	.
DM504	01/17/91	1910	7.44	23.00	.
DM504	06/18/91	1790	7.39	26.00	.
DM504	07/02/91	2020	7.75	26.00	3.7
DM505	01/11/91	2960	7.26	24.00	.
DM505	01/18/91	1360	7.29	23.00	.
DM505	06/13/91	1540	7.47	24.00	.
DM505	06/27/91	1010	7.29	24.00	2.8
DM508	06/19/91	1710	8.50	24.00	.
DM508	06/26/91	1320	8.00	24.00	.
DM509	06/18/91	1230	9.15	26.70	.
DM509	07/01/91	1500	8.69	25.00	3.3
DM602	09/06/91	1630	8.00	25.00	.
DM602	11/18/91	1590	7.08	22.00	.
DM604	09/06/91	1580	7.58	24.50	.
DM604	11/18/91	1740	7.67	22.00	.
DM606-045	11/19/91	1600	7.70	.	.
DM606-370	11/19/91	1600	7.92	.	.
DM701	11/07/91	3000	7.13	23.00	.
DM701	12/05/91	3360	7.19	23.00	.
DM701	12/19/91	3690	6.93	23.00	.
MP03-B	05/29/87	5500	6.60	26.00	.
MP03-B	12/03/87	5800	6.50	26.00	.
MP03-B	09/26/88	8140	5.53	15.00	.

TABLE E4.2
POST-RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)	DISSOLVED OXYGEN (PPM)
MP03-B	02/01/89	4500	6.12	25.00	.
MP03-B	12/06/89	5380	6.20	23.00	.
MP03-B	11/12/90	6140	6.12	26.00	.
MP03-B	01/29/91	5880	6.31	22.00	.
MP03-B	09/16/91	5620	6.20	27.10	.
MP03-B	11/21/91	6620	6.25	22.00	.
MP03-C	11/12/90	1910	9.02	26.00	.
MP03-C	01/29/91	1800	9.35	24.00	.
MP03-C	07/09/91	1900	8.89	27.90	.
MP03-D	11/09/90	2930	7.10	26.00	.
MP03-D	11/12/90	6380	8.56	26.00	.
MP03-D	01/29/91	1130	7.69	23.00	.
MP03-D	09/16/91	1720	8.11	27.00	.
MP09-A	05/29/87	4200	6.65	27.00	.
MP09-A	12/03/87	3900	6.90	26.00	.
MP09-A	09/23/88	3990	6.04	16.00	.
MP09-A	01/30/89	3000	6.90	27.00	.
MP09-A	12/06/89	4390	8.00	21.00	.
MP09-A	11/07/90	5040	6.96	26.00	.
MP09-A	01/24/91	4940	6.76	24.00	.
MP09-A	07/08/91	5320	8.50	27.00	2.6
MP09-B	09/13/91	3800	6.82	27.00	.
MP09-B	11/19/91	6040	8.12	22.00	.
MP09-C	05/28/87	2200	6.90	27.00	.
MP09-C	12/03/87	2200	7.40	26.00	.
MP09-C	09/23/88	2500	7.28	14.00	.
MP09-C	01/30/89	1700	6.46	26.00	.
MP09-C	12/06/89	2190	7.80	23.00	.
MP09-C	11/07/90	2250	7.10	25.00	.
MP09-C	01/24/91	2030	7.04	24.00	.
MP09-C	07/08/91	2410	7.63	27.00	.
MP09-D	09/16/91	2390	6.97	29.00	.
MP09-D	11/19/91	2780	7.69	22.00	.
MP11-A	05/21/87	2500	7.40	26.00	.
MP11-A	11/19/87	1380	7.25	25.00	.
MP11-A	09/22/88	1190	6.96	14.00	.
MP11-A	01/30/89	2400	7.05	23.00	.
MP11-A	12/05/89	4660	7.00	20.00	.
MP11-A	11/06/90	5410	6.99	25.00	.
MP11-A	01/23/91	4840	6.14	25.00	.
MP11-B	05/21/87	1600	8.00	26.00	.
MP11-B	11/19/87	1400	9.60	25.00	.
MP11-B	09/22/88	3630	9.46	14.00	.
MP11-B	01/30/89	1600	8.76	24.00	.
MP11-B	12/05/89	4550	7.50	31.00	.
MP11-B	11/06/90	1580	9.24	24.00	.
MP11-B	01/23/91	974	8.85	24.00	.
MP11-B	09/18/91	2790	9.80	25.00	.
MP11-C	05/21/87	1200	8.20	26.00	.
MP11-C	11/19/87	1400	8.60	25.00	.
MP11-C	09/22/88	1670	8.16	14.00	.
MP11-C	01/30/89	1000	7.83	24.00	.
MP11-C	12/05/89	1430	8.40	21.00	.
MP11-C	11/06/90	1070	7.72	25.00	.
MP11-C	01/23/91	1152	8.09	24.00	.
MP11-D	09/18/91	710	8.18	27.00	.
MP11-D	11/21/91	990	8.45	22.00	.
MP13-B	01/24/89	1400	8.63	12.00	.
MP13-B	11/07/90	6220	7.58	24.00	.

TABLE E4.2
POST-RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)	DISSOLVED OXYGEN (PPM)
MP13-B	01/24/91	1140	6.62	24.00	.
MP13-B	01/29/91	1330	7.40	23.00	.
MP13-B	07/03/91	1056	7.58	26.00	2.8
MP13-C	01/24/89	600	8.23	11.00	.
MP13-C	11/07/90	4730	7.16	24.00	.
MP13-C	01/24/91	454	5.88	24.00	.
MP13-C	07/03/91	630	7.05	27.00	2.5
MP16-A	05/20/87	4100	6.90	28.00	.
MP16-A	11/18/87	5100	7.20	28.00	.
MP16-A	09/19/88	1812	6.84	16.00	.
MP16-A	01/17/89	7200	7.85	16.00	.
MP16-A	11/29/89	2380	7.60	23.00	.
MP16-A	11/01/90	3530	7.80	28.00	.
MP16-A	01/18/91	3320	7.95	24.00	.
MP16-A	07/03/91	3240	8.10	29.00	2.2
MP16-C	05/20/87	1350	7.30	27.00	.
MP16-C	11/17/87	1600	8.40	26.00	.
MP16-C	09/19/88	1512	7.81	16.00	.
MP16-C	01/17/89	1600	8.64	15.00	.
MP16-C	11/29/89	1420	9.00	19.00	.
MP16-C	12/13/89	1800	8.00	23.00	.
MP16-C	11/02/90	1710	7.90	26.00	.
MP16-C	01/18/91	1270	8.22	23.00	.
MP20-A	11/06/90	2830	7.28	25.00	.
MP20-A	01/23/91	2600	7.47	23.00	.
MP20-B	11/06/90	2900	8.12	25.00	.
MP20-B	01/23/91	2830	8.10	24.00	.
MP20-C	11/06/90	1990	9.83	25.00	.
MP20-C	01/23/91	2180	9.53	24.40	.
MP25-D	11/02/90	4470	7.80	26.00	.
MP25-D	07/09/91	570	7.32	20.00	.
MP28-A	10/31/90	1600	11.00	28.00	.
MP28-A	11/12/90	1500	10.54	28.00	.
MP28-A	01/21/91	1680	11.19	25.00	.
MP28-A	07/01/91	2060	10.99	33.00	2.2
MP28-B	10/31/90	2600	8.60	28.00	.
MP28-B	01/21/91	2380	8.16	25.00	.
MP28-C	10/31/90	1620	7.20	28.00	.
MP28-C	01/21/91	1340	7.52	25.00	.
MP28-C	07/01/91	1900	7.54	33.00	4.1
MP28-D	10/31/90	1820	7.00	28.00	.
MP28-D	01/21/91	1690	7.41	25.00	.
MP30-A	11/05/90	1610	7.20	21.00	.
MP30-A	07/03/91	1950	7.40	23.00	2.0
MP30-B	11/05/90	1150	10.40	21.00	.
MP30-C	11/05/90	9260	8.10	22.00	.
MP30-C	07/03/91	1100	8.49	25.00	2.5
MP30-D	11/05/90	9240	7.60	21.00	.
MP36-A	05/21/87	1900	6.95	27.00	.
MP36-A	11/30/87	2100	7.10	25.00	.
MP36-A	09/23/88	2620	6.75	15.00	.
MP36-A	01/31/89	1100	7.24	26.00	.
MP36-A	12/05/89	1550	7.60	24.00	.
MP36-A	11/08/90	1900	7.39	25.00	.
MP36-A	01/25/91	1680	7.33	24.00	.
MP36-A	07/08/91	2050	8.02	26.10	.
MP36-B	05/21/87	5400	6.80	25.00	.
MP36-B	11/30/87	6000	6.60	25.00	.
MP36-B	09/23/88	6100	6.51	15.00	.

TABLE E4.2
POST-RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)	DISSOLVED OXYGEN (PPM)
MP36-B	01/31/89	4800	6.82	26.00	.
MP36-B	12/05/89	4780	6.80	23.00	.
MP36-B	11/08/90	5420	6.58	25.00	.
MP36-B	11/21/90	5380	6.70	25.00	.
MP36-B	01/25/91	5080	5.48	24.00	.
MP36-B	09/17/91	5360	6.17	26.00	.
MP36-C	05/21/87	5400	6.82	28.00	.
MP36-C	11/30/87	6000	7.80	25.00	.
MP36-C	09/23/88	7120	6.45	15.00	.
MP36-C	01/31/89	4800	6.78	26.00	.
MP36-C	12/05/89	4490	6.60	24.00	.
MP36-C	11/08/90	5390	6.74	25.00	.
MP36-C	01/25/91	4940	6.74	24.00	.
MP36-D	05/21/87	1400	7.20	28.00	.
MP36-D	11/30/87	1900	7.50	25.00	.
MP36-D	09/23/88	2400	7.40	16.00	.
MP36-D	01/31/89	1500	7.72	25.00	.
MP36-D	12/05/89	1620	7.40	23.00	.
MP36-D	11/08/90	1410	7.65	25.00	.
MP36-D	01/25/91	1710	7.15	23.00	.
MP36-D	01/28/91	1740	7.92	25.00	.
MP36-D	07/08/91	1700	7.60	28.80	.
MP36-D	09/17/91	1720	6.86	28.30	.
MP37-B	09/18/91	3760	10.66	25.00	.
MP37-C	09/19/91	1090	8.63	25.90	.
MP37-C	11/22/91	1200	8.50	22.00	.
MP38-D	09/19/91	5970	12.40	27.00	.
MP49-A	01/27/89	600	7.84	22.00	.
MP49-A	12/04/89	1060	7.20	20.00	.
MP49-B	05/22/87	1500	6.90	24.50	.
MP49-B	11/19/87	1800	8.00	23.00	.
MP49-B	09/21/88	2100	7.75	12.00	.
MP49-B	01/27/89	1500	7.59	22.00	.
MP49-B	12/04/89	1580	7.20	22.00	.
MP49-C	05/22/87	1800	11.10	25.00	.
MP49-C	11/19/87	2250	11.60	23.00	.
MP49-C	09/21/88	2760	11.53	12.00	.
MP49-C	01/26/89	1700	11.48	24.00	.
MP49-C	12/04/89	2680	11.00	24.00	.
MP49-D	01/26/89	800	8.30	.	.
MP49-D	12/04/89	730	7.60	20.00	.
MP50-A	01/19/89	2200	8.84	14.00	.
MP50-A	11/20/89	1030	8.40	25.00	.
MP50-A	11/27/89	1170	7.80	24.00	.
MP50-B	01/19/89	2500	8.03	13.00	.
MP50-B	11/20/89	1470	7.60	24.00	.
MP50-B	11/27/89	1720	6.80	22.00	.
MP50-D	01/20/89	1500	8.32	14.00	.
MP50-D	11/20/89	1270	7.80	28.00	.
MP50-D	11/27/89	1360	7.50	23.00	.
MP51-A	01/18/89	2900	8.64	11.00	.
MP51-A	11/20/89	2130	8.40	23.00	.
MP51-A	11/27/89	2100	8.80	24.00	.
MP51-B	05/20/87	1650	7.20	26.00	.
MP51-B	11/18/87	1850	7.80	26.00	.
MP51-B	09/21/88	2370	7.29	15.00	.
MP51-B	01/18/89	.	8.50	14.00	.
MP51-B	11/17/89	1330	8.00	25.00	.
MP51-B	11/27/89	1240	7.20	26.00	.

TABLE E4.2
POST-RI FIELD PARAMETER DATA

WELL	DATE	CONDUCTIVITY (umhos/cm)	pH	TEMPERATURE (C)	DISSOLVED OXYGEN (PPM)
MP51-C	11/18/87	1900	7.40	26.00	.
MP51-C	09/21/88	2260	8.13	15.00	.
MP51-C	01/18/89	2000	8.33	14.00	.
MP51-C	11/17/89	1880	8.20	17.00	.
MP51-C	11/27/89	1660	7.30	25.00	.
MP51-D	01/18/89	1900	8.44	14.00	.
MP51-D	11/17/89	1320	7.60	25.00	.
MP51-D	11/27/89	1480	6.40	23.00	.
MP52-B	05/26/87	3000	7.20	24.00	.
MP52-B	11/18/87	3000	7.50	26.00	.
MP52-B	09/16/88	4280	7.22	14.00	.
MP52-B	01/16/89	6800	8.07	13.00	.
MP52-B	11/17/89	2840	7.60	22.00	.
MP52-B	11/22/89	2300	7.40	25.00	.
MP53-B	05/20/87	2400	6.80	27.00	.
MP53-B	11/17/87	2800	7.90	26.00	.
MP53-B	09/16/88	3700	7.63	15.00	.
MP53-B	01/13/89	6800	7.45	14.00	.
MP53-B	11/16/89	2530	7.80	27.00	.
MP53-B	11/22/89	1650	7.60	18.00	.
MP53-C	05/20/87	1100	8.40	27.00	.
MP53-C	11/17/87	820	9.00	26.00	.
MP53-C	09/16/88	1060	9.05	15.00	.
MP53-C	01/12/89	2100	9.57	11.00	.
MP53-C	11/16/89	740	9.40	24.00	.
MP53-C	11/22/89	680	9.20	23.00	.
MP53-D	01/12/89	1900	7.51	24.00	.
MP53-D	11/16/89	660	8.00	27.00	.
MP53-D	11/22/89	600	9.60	23.00	.
WILLIS	12/11/89	940	7.20	23.00	.

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E5.1 INTRODUCTION

Ground water has been sampled from monitor wells on and near the Phoenix, Arizona Motorola 52nd St. Facility since 1982. Data obtained prior to 1987 were published in previous reports, including the Draft RI published in June 1987. The 15 sampling episodes reported on herein (Rounds 8 through 18) were collected between May 1987 and December 1991.

The sampling of the monitor wells after completion of the 1987 Draft RI Report can be divided into 11 discrete rounds plus 4 periods in which a smaller subset of the wells were sampled (rounds 12A, 13A, 14A, and 15A). The round 12A subset of wells was sampled 1) prior to the well abandonment task outlined in Proposed Work Plan, Well Abandonment and Sample Collection MP 49, DM 202, DM 202OB1, DM 202OB2, Motorola 52nd St. Facility, dated July 31, 1990, and 2) in association with the installation of wells DM 303 and DM 304. The round 13A subset was sampled, in part, as a confirmation of analytical results observed in the November 1990 sampling round, and in association with well installation for the plume definition task. The November 1990 (round 12) water quality and associated quality assurance/quality control (QA/QC) data has been transmitted to the agencies under separate cover, dated February 15, 1991. The round 14A subset was sampled as part of the plume definition task. The round 15A subset was data collected as part of the DM 504 pump test. A draft of this report was submitted to the agencies on April 19, 1991. This appendix is an update of the April 1991 report, and includes data from June through December 1991 (rounds 15, 15A, 16, 17, and 18).

These results along with a summary of supporting QA/QC information have also been incorporated into this appendix. This appendix is an evaluation of the overall quality for sampling rounds 8 through 18, dated as follows:

Round	Sample Date
8	May - June 1987
9	November, December 1987 and January 1988
10	September and October 1988
11	January 1989
12	November and December 1989
12A	June and July 1990 (MP 49, DM 202, DM 2020B1, DM 2020B2)
13	November 1990
13A	December 1990 and January 1991 (Plume Definition)
14	January 1991
14A	April, May and June 1991 (Plume Definition)
15	June and July 1991
15A	July and August 1991 (DM 504 pump test)
16	February - December 1991 (Southwest Parking Lot)
17	September - November 1991 (OU Baseline)
18	October - December 1991 (OU Baseline)

The data for all of these rounds are included as Appendices E2 and E4.

The adequacy of documentation supporting the sampling and analysis process was evaluated together with the potential effects of these processes on the precision and accuracy of the data set. The QA/QC assessment included review of documentation, data sources, analytical methods and detection limits, data, and data quality indicators. Specific requirements for each of these criteria will be discussed, along with an evaluation of the adequacy of the data to meet these requirements.

The qualifiers utilized throughout this assessment and presented in the data summary tables are defined as follows: "A" - acceptable for use with qualification, and "R" - rejected. Sample results presented that are not followed by a qualifier are considered valid for all uses based on the information evaluated.

E5.2 DOCUMENTATION

The QA/QC criterion used for documentation requires that the sample results are related to a specific geographic location through the sampling and analytical records. Additional supporting information includes the use of standard operation procedures, Chain-of-Custody Records, and field and analytical records.

The sampling and analysis procedures that were followed for all rounds are documented in the following documents:

- "Draft Task Specification for Water Sampling and Analysis", November 27, 1985
- "Final Task Specification for Ground-Water Level Monitoring Program, Remedial Investigation/Feasibility Study, Motorola Inc., 52nd St. and McDowell Road, Phoenix, Arizona", May 24, 1985
- "Task Specification Long Term Ground-Water Sampling Program, 52nd St. RI/FS, Phoenix, Arizona for Motorola Inc., May 12, 1987
- "Draft Sample Collection and Analysis Plan, Final Remedy RI/FS Motorola 52nd St., Phoenix, Arizona for Motorola Inc.", October 25, 1990
- "Quality Assurance Program Plan, Final Remedy RI/FS Motorola 52nd St. Consent Order", October 25, 1990

Well Data Records and Water Sample Summary Field Data sheets which include field measurements, problems encountered (e.g. inability to collect a sample because of insufficient water), and specific procedures employed for well evacuation, sample collection, and decontamination were completed for each monitor well during the sampling event and identified by well number and zone. Additionally, Chain-of-Custody Records identifying individual samples (by well number and zone) were completed and accompanied each sample shipment.

The completed Well Data Records, Water Sample Summary Field Data sheets, and Chain-of-Custody Records are on file at the Dames & Moore Phoenix office.

The samples were analyzed for selected inorganics and volatile organics in all sampling rounds, as indicated on the Chain-of-Custody Records. The individual sample results were reported according to the unique well and zone identification, as well as individual laboratory identification numbers. Samples were analyzed in batches and were assigned batch identification numbers. The analytical quality control information was reported by laboratory batch.

The sampling and analysis documentation practices described above and implemented throughout the sampling ensured that the sample results were related to a specific geographic location. The criterion for adequate documentation has been successfully met for the data set.

E5.3 DATA SOURCES

EPA Method 601 (volatile organic compounds) and/or Method 602 (BTEX compounds) were conducted for the samples collected in most rounds; Method 624 (volatile organic compounds) was conducted for a few samples in round 16. Metals analyses utilizing inductively coupled plasma techniques and specific metals analysis utilizing graphite furnace or flame atomic absorption techniques were employed to identify potential contamination at select monitor wells and zones. Additionally, water quality indicators such as total dissolved solids and anions were also analyzed at select monitor wells and zones at the Motorola 52nd St. Facility. Parameters, methods of analyses, and method detection limits are summarized in Table E5.1.

E5.4 ANALYTICAL METHODS AND DETECTION LIMITS

As previously indicated, analytical methods and method detection limits are summarized in Table E5.1. The methods employed and target detection limits are suitable and yield comparable analytical results. Sample specific quantitation limits (where appropriate) are reported in the data summary tables.

E5.5 DATA QUALITY REVIEW SUMMARY

As part of the sampling investigations, quality assurance/quality control (QA/QC) procedures were followed for the purpose of monitoring ongoing precision and accuracy of water quality results. The following aspects of QC and results of QC sample analyses were evaluated:

Volatile Organics:

- Laboratory reagent blanks (to assess potential bias from the laboratory procedure).
- Travel blanks (to assess potential bias from handling and transport procedures).
- Field blanks (to assess potential bias from field sampling and transport procedures).
- Equipment blanks (to assess potential bias from field sampling).
- Field duplicates (to assess sampling and analytical precision).
- Laboratory duplicates (to assess analytical precision).
- Laboratory spikes (to assess analytical accuracy and potential sample matrix effects).
- Duplicate laboratory spikes (to further assess laboratory precision and accuracy).

- Field sample spikes (to provide support to the assessment of field procedures for accuracy).
- Field blank spikes (to further support the assessment of field accuracy).
- Holding times (to assess the potential for false negatives or low bias in sample results potentially caused by an exceedance in holding time outlined in the appropriate laboratory methods).
- Calibration data and/or procedures (to ensure the instrument is capable of producing acceptable quantitative data).

Inorganics

- Laboratory reagent blanks (to assess potential bias from the laboratory procedure).
- Laboratory duplicates (to assess analytical precision).
- Laboratory spikes (to assess analytical accuracy and potential sample matrix effects).
- Holding times (to assess the potential for false negatives or low bias in sample results potentially caused by an exceedance in holding time outlined in the appropriate laboratory methods).
- Calibration data and/or procedures (to ensure the instrument is capable of producing acceptable quantitative data).

A summary of each sample round including sampling dates, number and type of QC samples, and general analyses performed is presented in Table E5.2 and Table E5.3. The results of the field and laboratory QC samples, in addition to results of internal laboratory QC procedures, were evaluated to assess the following usability criteria: 1) sampling and analytical accuracy and precision, and 2) correctness of the analytical result.

Evaluation criteria (i.e. acceptance limits for accuracy and precision) were either taken from the analytical method or extracted from EPA validation guidelines. When a deviation

from a criterion occurred, the analytical result(s) was qualified as "A", acceptable for use with qualification, or "R", unusable.

For the purpose of this assessment, when a data point is qualified "A", the precision and/or accuracy of the analytical result is considered suspect. As a result, the analytical concentration is considered qualitative; however, the direction of bias or analyte variability can be quantified. Data qualified as "R" are not usable because the limitations are not quantifiable. The criteria applied for this data review and a summary of the data qualified are summarized in the following sections.

E5.5.1 BLANK ANALYSES

Potential bias introduced through the sampling and analysis process was evaluated per round. Travel, equipment, and field blank samples were analyzed for potential volatile organic contamination as were laboratory reagent blank samples. Some reagent blanks were also analyzed with the metals and water quality indicator parameters.

Analytical data for blanks indicate whether contamination resulted in bias (but are not estimates of accuracy). Ideally, contaminants would not be detected in any of the blanks associated with a sampling event or laboratory batch. However, some volatile organics, such as methylene chloride, are commonly observed in blank analysis and are, therefore considered "common laboratory contaminants".

All blanks associated with the samples were evaluated using the following guidelines:

- If a compound (organic or inorganic) was found in the blank, but not observed in the sample, no action was taken.
- The result of any inorganic or organic compound (other than methylene chloride) detected in the sample and also detected in any associated blank

was qualified if the sample concentration was less than five times the blank concentration (referred to hereafter as the 5X Rule). For methylene chloride, the results were qualified if the sample concentration was less than 10 times the blank concentration (referred to hereafter as the 10X rule).

E5.5.1.1 Reagent Blanks

Reagent blanks (also known as method blanks) were analyzed for volatile organic compounds by EPA Method 601 and/or 602 or 624, to determine the integrity of laboratory analysis procedures and to assess the potential for laboratory contamination of samples. Detections in reagent blanks and associated companion samples which are potentially biased because of the potential for contamination are summarized in Table E5.4 and discussed below.

Methylene chloride was detected in several reagent blanks associated with the sampling efforts, however, most sample results for methylene chloride were either 1) not detected, or 2) were detected at levels greater than 10X the observed blank concentration. An exception to this was round 13 samples DM 125-46 and MP 03-B. The methylene chloride concentration for this sample was qualified "A", acceptable for use with qualification, because of the potential for positive bias resulting from reagent blank contamination. Similarly, chloroform was detected in several reagent blanks. Of the four companion samples in which chloroform was also detected, round 12 sample MP 53-B was qualified for use because the observed sample concentration did not exceed 5 times the observed reagent blank concentration. Trichloroethene in round 14 sample DM 501-387 was also qualified "A" because of reagent blank contamination. Two samples of DM 201 in round 16 were qualified for methylene chloride and trichlorotrifluoroethane based on reagent blank detections.

Reagent blank analyses were also conducted for the metals and water quality indicator parameters reported in rounds 9, 10, and 11. Nitrate as nitrogen was detected in the reagent blanks prepared with the round 10 samples resulting in potential bias in samples 4626G,

DM 117, MP 9-A, and MP 11-B. Nitrate as nitrogen results for these samples were qualified "A", acceptable for use with qualification.

Reagent blank analysis was not reported for the inorganic and water quality parameters in the remaining rounds; however, review of the Analytical Technologies, Inc. (ATI) Quality Assurance Plan and Internal Quality Control Procedures indicates reagent blank analysis as part of their internal quality control measures. According to the ATI plan, the corrective action for blank contamination above the detection limit (DL) is to clean the system until an acceptable blank result is achieved followed by the reanalysis of samples from the last clean blank result. According to ATI, these internal protocols were followed by the laboratory during the analysis of the samples.

E5.5.1.2 Travel Blanks

Analytical results from travel blanks were used to assess whether the samples were exposed to volatile contaminants during handling and transit, and whether samples were potentially cross-contaminated. The travel blanks were analyzed for volatile organic compounds by EPA Method 601 and/or 602 or 624. Application of the 5X Rule identifies suspect positive results as identified in Table E5.4 and summarized below.

Trichloroethene in round 8 sample MP-53-C and toluene in round 8 sample DM 119-204 were detected at levels less than 5 times the associated travel blank concentration and were qualified accordingly. Round 12 samples MP 49-A and MP 51-A chloroform results are also qualified because of travel blank contamination as is 1,2-dichloroethene in sample MP 51-A. Methylene chloride was detected in a round 14 travel blank resulting in the qualification of samples DM 123-135, DM 123-85, and DM 123-56. Two samples of DM 201 were qualified in round 16 for methylene chloride and trichloroetrifluoroethane based on travel blank contamination. Round 16 sample MP-16A was qualified 'A' for chloroform based on a trip blank detection. Chloroform was detected in a round 17 travel blank thus qualifying samples DM

601-200, DM 601-135, DM 601-85, and DM 601-40. The analytical results for these respective samples are potentially false positive or exhibiting high bias.

E5.5.1.3 Field Blanks

Field blanks were prepared to assess potential sample contamination of volatile organics during field preparation and handling. Field blanks were prepared for all sampling rounds with the exception of rounds 12A, 14A, 15, and 15A and were analyzed by Method 601 and/or 602. Table E5.4 provides the constituents detected and associated companion samples potentially biased due to the contamination.

E5.5.1.4 Equipment Blanks

Equipment blanks were collected with rounds 14, 14A, 15, 16, 17, and 18 samples to assess the potential for cross contamination of volatile organics from the sampling equipment. Table E5.4 presents the constituents which exceeded the 5X Rule and the qualified companion samples.

Methylene chloride and trichloroethene were detected in the equipment blank for round 14, resulting in the qualification of samples DM 125-155, DM 125-125, and DM 125-76. Trichloroethene was detected in round 15 sample DM 508 at levels less than 5 times the associated equipment blank contamination and was qualified accordingly. Sample DM 2010B2 was qualified for 1,1-dichloroethene (total) based on equipment blank contamination in round 16. Trichloroethene was detected in round 16 equipment blanks resulting in qualification of samples DM 2010B2, DM 2010B1, DM 201, and DM 201 FD. Trichloroethene was also detected in equipment blanks in round 17 resulting in the qualification of DM 603-68 and the associated field duplicate, DM 313, and DM 313-B. Round 17 samples DM 312 and DM 311-B were qualified for 1,2-dichloroethene (total) based on an associated equipment blank detection. Chloroform was detected in round 17 sample DM 115 at levels less than 5 times the associated

equipment blank contaminations and was qualified accordingly. Trichloroethene was detected in a round 18 equipment blank, thus qualifying samples DM 602 and the associated field duplicate. Round 18 samples DM 601-85, DM 601-40, and DM 601-135 were qualified for 1,1,1-trichloroethane based on an associated equipment blank detection.

E5.5.2 DUPLICATE ANALYSES

Field duplicate samples were analyzed for volatile organics as an indication of overall precision. These samples provide information on combined field and laboratory precision; therefore, the results have more variability than laboratory duplicates that measure only lab performance. Laboratory duplicates were analyzed routinely for metals and water quality indicator analyses. Laboratory duplicates were analyzed for volatile organics in rounds 9, 10, and 11.

Estimates of field and laboratory precision for duplicate samples and their matching peer samples were calculated by using the following laboratory precision estimate formula:

$$Precision = \frac{|A-B|}{(A+B)} x200$$

where A and B are the results to be compared, and $|A - B|$ is the absolute difference between A and B. The result is referred to as Relative Percent Difference (RPD). For the purposes of this usability assessment, the acceptable RPD for field and laboratory duplicates is 20 percent. If the RPD exceeds the acceptable limit, the associated data are qualified "A", acceptable for use with qualification. The only exception to this application is for concentrations at or near the detection limit (DL). If the observed sample concentrations do not exceed 5 times the detection limit, acceptable precision is then defined as ± DL. If the observed sample concentrations are less than the DL, then the RPD is considered "noncalculable".

E5.5.2.1 Field Duplicates

Table E5.5 presents the results for the volatile organic field duplicate analyses which exceeded the 20 percent criterion. These data represent the combined field and laboratory effects on precision that may have resulted in measured concentrations that do not represent the actual sample concentrations. As a result, the field original sample and field duplicate sample concentrations are qualified as "A" for the constituent exceeding the 20 percent RPD criterion.

E5.5.2.2 Laboratory Duplicates

Laboratory duplicate analyses were performed for the rounds 9, 10, and 11 volatile organics. The RPD between duplicates was greater than 20 percent for tetrachloroethene and trichloroethene in round 9 sample DM 126; trans-1,2-dichloroethene in round 9 sample DM 104-40; and 1,1,1-trichloroethane in round 9 sample MP 36-A. The compound-specific results were qualified "A" for these samples. Additionally, tetrachloroethene in round 11 sample MP-11C was qualified because the laboratory duplicate precision exceeded the acceptable limit. Tables E5.7, E5.8, and E5.9 present the RPD for the volatile organic laboratory duplicates.

Laboratory duplicate analyses of metals and water quality indicator parameters were also conducted for each of the rounds as part of the routine quality control procedures. The results were assessed for each metal and water quality indicator parameter utilizing the 20 percent criterion as applied above. Round 9 ammonia results for samples DM 107, MP 11-B, DM 122-B, DM 111, DM 120, and DM 117 were qualified because of duplicate precision at 26 percent. Round 10 iron results for samples DM 107, MP 52-B, MP 16-A, and DM 120 were qualified "A" because of duplicate precision at 33 percent. Sample DM 504 was qualified for round 15 lead results as the result of duplicate precision at 40 percent. All other duplicate analysis results were either within the 20 percent range or noncalculable due to concentrations below the detection limit.

E5.5.2.3 Matrix Spike Duplicates

Laboratory precision and sample matrix effects for the volatile organics were routinely assessed by the analysis of matrix spikes/matrix spike duplicate samples. Duplicate precision between spiked duplicate samples was evaluated and expressed as RPD. Again, for the purpose of this usability assessment, an RPD of 20 percent was considered an acceptable level of precision.

As illustrated on Table E5.2, spike duplicate analyses were performed routinely in rounds 8, 12, 12A, 13, 13A, and 14, 14A, 15, 15A, 16, 17, and 18. The results and related RPDs are presented for each of these rounds in Table E5.6 and Tables E5.10 through E5.20. One trichlorofluoromethane value in round 8 required qualification because the 20 percent level of acceptance was exceeded. Trichlorofluoromethane in sample DM 104-079 was qualified "A" because the RPD of that spiked compound was 40 percent. All other analyses were acceptable.

E5.5.3 SPIKED SAMPLE ANALYSES

E5.5.3.1 Matrix Spikes

Laboratory spikes of volatile organic compounds, metals, and water quality indicator parameters were analyzed, and the results evaluated to estimate method accuracy and potential sample matrix effects. The following formula was used to estimate method accuracy:

$$P = 100 | S - A | / T$$

where A is the concentration of a given chemical in a water sample, S is the concentration in an aliquot of the same sample after spiking with a known quantity of the chemical, T is true concentration of the spiking solution, and P is the percent recovered.

For the volatile organic analyses conducted, spike percent recovery results were evaluated against the QC acceptance criteria ranges presented in the method (40 Code of Federal Regulation, Part 136, Appendix A, Method 601, Table 2). All recoveries were found to be within the acceptable accuracy range, and thus qualification of analytical results based on this criterion was not necessary.

Tables E5.6 through E5.20 present the volatile organic laboratory spike percent recovery data for round 8 through round 18. In addition to spike percent recovery, these tables also present the relative percent difference between the two spike samples as discussed in Section E5.5.2.3, Matrix Spike Duplicates.

Matrix spikes were also analyzed for each metal and water quality indicator parameter, where appropriate. For the purpose of this assessment, a percent recovery range of 75 to 125 was considered acceptable for the inorganic parameter analytical results. Table E5.21 summarizes the constituents and results for which the accuracy criterion was not met, along with the specific samples requiring qualification.

E5.5.3.2 Surrogate Spikes

Spike surrogate recovery is a method to evaluate laboratory accuracy and sample matrix effects. A known amount of analyte not in the sample is injected into the sample. For the purpose of this assessment, the acceptable range for spike surrogate recovery was 80 to 120 percent recovery. It should also be noted that surrogate spike recovery results were not supplied by the laboratory for sample round 9, 10, and 11.

Table E5.22 summarizes those samples and compounds considered to be potentially biased because the surrogate recovery was not within the acceptable range.

E5.5.3.3 Field Spikes

Field spikes are not normally employed as a means of assessing field and sampling accuracy because of the potential for error introduced by performing such a sensitive task in the field. Because of this, the field spike accuracy data were not utilized for qualifying the data in this Appendix. The field spike information is presented in Table E5.23 through E5.28 and discussed generally below.

Field spikes were made in the field by sampling personnel. There were two types of field spikes collected: field sample spikes and field blank spikes. Field sample spikes were made by injecting a known amount of analyte into the sample. The same amount of analyte was injected into clean water to make the field blank spike.

Recovery was evaluated by comparing the original sample, the spiked sample and the spiked blank using the formula below:

$$P = 100 | S - A | / T$$

E5.5.4 CALIBRATION

Instrument calibration information was submitted, where appropriate, with the quality control information for round 9, 10, and 11 analyses. A three- or four-point calibration (including a reagent blank) was generally utilized for calibrating the analytical instrumentation utilized for sample analysis in these rounds. Selected volatile organic compounds were used for calibrating the gas chromatograph. Instrumentation utilized for the metals and water quality indicator parameters were calibrated for the analyte of interest. Correlation coefficients were calculated by the analytical laboratory and evaluated for this assessment. The correlation coefficients were considered acceptable if they were greater than or equal to 0.995. Table E5.29 summarizes the organic samples qualified as "A" because the correlation coefficient was less than 0.995. The correlation coefficients for the inorganic parameters were all above 0.995.

Laboratory and method-specific calibration information for the remaining rounds is summarized in the ATI Quality Assurance Plan and Internal Quality Control Procedures. The plan calls for recalibration in the event the correlation coefficient is below 0.995. ATI indicated that these internal protocols were followed during the analysis of the samples from rounds 8, 12, 12A, 13, 13A, 14, 14A, 15, 15A, 16, 17, and 18, or "R", rejected, if the holding time was exceeded by more than 30 days.

E5.5.5 HOLDING TIMES

Holding times were assessed by comparing the sampling date with the date of analysis. The following holding times were evaluated: volatile organics (14 days); hexavalent chromium (24 hours); biological oxygen demand (48 hours); alkalinity and cyanide (14 days); ammonia, mercury, chloride, fluoride, nitrate, phosphate, sulfate, and conductivity (28 days); and all other metals and hardness (6 months). If a holding time exceedance was observed, the appropriate analyte(s) was qualified "A", acceptable for use with qualification, or "R", rejected, if the holding time was exceeded by more than 30 days.

Results for volatile organics samples which were qualified based on holding time exceedance are summarized in Table E5.30. Hexavalent chromium holding times were missed for rounds 8 through 14. The phosphate holding time for round 14A sample DM 508 was missed and was qualified accordingly. All other holding times were met.

E5.5.6 MISCELLANEOUS

One additional problem identified during the review of the analytical round 14 data resulted from the use of contaminated hydrochloric acid preservative in the volatile organic samples. The acid was contaminated with chloromethane and, as a result, erroneous sample and blank concentrations were observed. These data points were rejected for use as false positive and are identified with the qualifier "R", rejected, in the data summary tables.

E5.6 CONCLUSION

The objective of this usability assessment was to qualify the water quality data for use in the Final Remedy Remedial Investigation. The results of the assessment are summarized in the text of this appendix and Table E5.31, are identified on the data summary tables with the use of data qualifiers.

E5.7 REFERENCES

Dames & Moore, 1985b. Final Task Specification for Ground-Water Level Monitoring Program, Remedial Investigation/Feasibility Study, Motorola Inc., 52nd St. and McDowell Road, Phoenix, Arizona. May 24, 1985.

____, 1985m. Draft Task Specification for Water Sampling and Analysis. November 27, 1985.

____, 1987a. Task Specification Long Term Ground-Water Sampling Program, 52nd St. RI/FS, Phoenix, Arizona for Motorola Inc. May 12, 1987.

____, 1990j. Draft Sample Collection and Analysis Plan, Final Remedy RI/FS Motorola 52nd St., Phoenix, Arizona for Motorola Inc. October 25, 1990.

____, 1990k. Quality Assurance Program Plan, Final Remedy RI/FS Motorola 52nd St. Consent Order. October 25, 1990.

Table E5.1

METHOD DETECTION LIMITS FOR METHODS 601 AND 602

Parameter	MDL, µg/L	
ORGANICS:	**Methods 601**	**Method 624**
Acetone	NA	10
Benzene	NA	1
Bromodichloromethane	0.10	1
Bromoform	0.20	5
Bromomethane	1.18	10
2-Butanone (MEK)	NA	10
Carbon Disulfide	NA	1
Carbon Tetrachloride	0.12	1
Chlorobenzene	0.25	1
Chloroethane	0.52	1
2-Chloroethyl Vinyl Ether	0.13	10
Chloroform	0.05	1
Chloromethane	0.08	10
Dibromochloromethane	0.09	1
1,2-Dichlorobenzene	0.15	NA
1,3-Dichlorobenzene	0.32	NA
1,4-Dichlorobenzene	0.24	NA
1,4 & 1,2-Dichlorobenzene	0.5	NA
Dichlorodifluoromethane	1.81	NA
1,1-Dichloroethane	0.07	1
1,2-Dichloroethane	0.03	1
1,1-Dichloroethene	0.13	1
1,2-Dichloroethene (Total)	0.2	1
Trans-1,2-Dichloroethene	0.10	NA
1,2-Dichloropropane	0.04	1
Cis-1,3-Dichloropropene	0.34	1
Trans-1,3-Dichloropropene	0.2	1

Table E5.1 (Continued)

Parameter	MDL, µg/L	
ORGANICS:	**Methods 601**	**Method 624**
Ethylbenzene	NA	1
2-Hexanone (MBK)	NA	10
4-Methyl-2-Pentanone (MIBK)	NA	10
Methylene Chloride	0.25	5
Styrene	NA	1
1,1,2,2-Tetrachloroethane	0.2	1
1,1,2,2-Tetrachloroethene	0.03	NA
Tetrachloroethene	0.03	1
Toluene	NA	1
Total Xylenes	NA	1
1,1,1-Trichloroethane	0.03	1
1,1,2-Trichloroethane	0.02	1
Trichloroethene	0.12	1
Trichlorofluoromethane	0.5	NA
Trichlorotrifluoroethane	0.5	NA
Vinyl Acetate	NA	10
Vinyl Chloride	0.18	1
m-xylene	1.5	NA
O,P-xylene	1.8	NA
Total Xylenes	0.5	NA

Table E5.1 (Continued)

Parameter	MDL, mg/L	Methods
METALS:		
Antimony	0.032	200.7
Arsenic	0.001	206.2
Barium	0.1	208.1, 200.7
Beryllium	0.0003	200.7
Boron	0.005	200.7
Cadmium	0.0001	213.2, 200.7
Calcium	0.01	215.1, 200.7
Chromium	0.05	218.2, 200.7
Copper	0.02	220.1, 200.7
Iron	0.03	236.1, 200.7
Lead	0.001	239.2
Magnesium	0.001	242.1, 200.7
Manganese	0.01	243.1, 200.7
Mercury	0.0002	245.1
Nickel	0.015	200.7
Potassium	a	200.7
Selenium	0.002	270.2, 270.3
Silica	0.058	200.7
Silver	0.0002	272.2, 272.3, 200.7
Sodium	0.002	273.1, 200.7
Thallium	0.001	279.2
Zinc	0.005	289.1, 200.7
WATER QUALITY INDICATORS:		
Alkalinity	5	310.1
Ammonia	0.05	350.3, 350.2
Bicarbonate	5	310.1
Biological Oxygen Demand	NR	507, 405.1
Carbonate	5	310.1
Chloride	5	300.0, 325.3, 325.2

Table E5.1 (Continued)

Parameter	MDL, mg/L	Methods
Chromium VI	0.05	312B, SW7196
Conductivity	1µmhos/cm	120.1
Cyanide	0.02	335.3, 335.2
Fluoride	0.1	340.2
Hardness	---	Calculated
Hydroxide	5	310.1
Nitrate as N	5	300.0, 418B
pH	0.01 SU	150.1
Phosphate	0.01	365.3
Sulfate	5	300.0
Total Dissolved Solids	10	160.1
Total Kjeldahl Nitrogen	0.05	351.3
Total Organic Carbon	0.05	415.2
Total Phosphorous	0.01	365.3

Note:

a = Highly dependent upon instrument operating conditions
NR = Not Reported
SU = Standard Units

Table E5.2

QA/QC ANALYSES SCHEDULE - ORGANICS

Sample Round	8	9	10	11	12	12A	13	13A	14	14a	15	15A	16	17	18
Sample Dates	5/87, 6/87	11/87, 12/87, 1/88	9/88, 10/88	1/89, 2/89	11/89, 12/89	5-7/90	11/90	12/90, 1/91	1/91	4-6/91	6/91, 7/91	7/91, 8/91	7-12/91	9-11/91	10-12/91
Laboratory	ATI	WTI	WTI	WTI	ATI	ATI	ATI	ATI	ATI	ATI	ATI	ATI	ATI	ATI	ATI
Analytical Constituents	Volatile Organics	Volatile Organics	Volatile Organics	Volatile Organics	Volatile Organics	Volatile Organics	Volatile Organics	Volatile Organics	Volatile Organics	Volatile Organics	Volatile Organics	Volatile Organics	Volatile Organics	Volatile Organics	Volatile Organics
Method	601/602	601	601	601	601	601	601	601	601	601/602	601/602	601	601/624	601/602	601
Field Original Samples Analyzed	60	61	66	69	93	20	62	34	60	42	54	4	74	49	37
Method/System/Reagent Blanks	NR	10(1)	3(1)	16(1)	43	7	29	10	37	17	25	4	45	26	11
Travel Blanks	8	8	7	17	26	8	14	10	15	12	14	4	32	17	9
Equipment Blanks	0	0	0	0	0	0	0	0	0	7	6	0	7	7	6
Field Blanks	5	6	3	2	1	0	1	1	6	0	0	0	2	1	2
Field Duplicates	13	7	10	10	18	4	6	3	5	1	6	0	11	7	2
Laboratory Surrogate Spikes	91	NR	NR	NR	191	39	62	62	136	79	105	72	17	107	67
Laboratory Spike Analysis	2	9	20	15	28	5	18	10	19	14	19	4	36	22	11
Laboratory Duplicate Spike Analysis	2	NR	NR	NR	28	5	18	10	19	14	19	4	36	22	11
Field Blank Spikes	6	6	5	5	5	0	0	0	0	0	0	0	0	0	0
Field Sample Spikes	6	6	5	5	5	0	1	0	3	0	0	0	0	0	0

Note:
NR = Not Reported
ATI = Analytical Technologies, Inc.
WTI = Western Technologies Inc.
(1) = Selected volatiles analyzed in reagent/calibration blank.

Table E5.3

QA/QC ANALYSES SCHEDULE - INORGANICS

Sample Round:	8	9	10	11	12	12A	13	13a	14	14a	15	15A	16	17	18
Sample Dates:	5/87, 6/87	11/87, 12/87, 1/88	9/88, 10/88	1/89, 2/89	11/89, 12/89	5/90, 6/90, 7/90	11/90	12/90, 1/91	1/91	4/91, 5/91, 6/91	6/91, 7/91	7/19, 8/91	7-12/91	9-11/91	10-12/91
Laboratory:	ATI	WTI	WTI	WTI	ATI	ATI	ATI	ATI	ATI	ATI	ATI	ATI	ATI	ATI	ATI
Analytical Constituents:	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics	Metals, Inorganics
Methods:	Table 1	Table 1	Table 1	Table 1	Table 1	Table 1	Table 1	Table 1	Table 1	Table 1	Table 1	Table 1	Table 1	Table 1	Table 1
Field Original Samples Analyzed	12	12	15	13	27	15	46	12	28	5	21	1	3	35	9
Method/System/ Reagent Blanks	NR	40	62	95	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Laboratory Spike Analysis	113	184	196	168	257	52	236	125	161	120	245	25	26	375	98
Laboratory Duplicate Analysis	125	218	230	204	299	70	335	177	227	162	310	33	34	486	126
Laboratory (QC Check) Control Sample	NR	254	253	267	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Calibration (where appropriate)	NR	76	64	95	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

Note: QC Parameters on an analyte specific basis
NR = Not Reported
ATI = Analytical Technologies, Inc.
WTI = Western Technologies, Inc.

Table E5.4

SUMMARY OF BLANK DETECTIONS AND ASSOCIATED POTENTIALLY BIASED COMPANION SAMPLES

Blank Type	Round	Constituent Detected	Qualified Sample Results
Reagent	12	Chloroform	MP 53-B
Reagent	13	Methylene Chloride	DM 125-46, MP 03-B
Reagent	14	Trichloroethene	DM 501-387
Reagent	10	Nitrate as Nitrogen	4626G, DM 117, MP 9-A, and MP 11-B
Reagent	16	Methylene Chloride	DM 201
Reagent	16	Trichlorotrifluoroethane	DM 201
Travel	8	Trichloroethene	MP 53-C
Travel	8	Toluene	DM 119-204
Travel	12	Chloroform	MP 49-A, MP 51-A
Travel	12	1,2-Dichloroethene	MP 51-A
Travel	14	Methylene Chloride	DM 123-135, DM 123-85, DM 123-56
Travel	16	Methylene Chloride	DM 201
Travel	16	Trichlorotrifluoroethane	DM 201
Travel	16	Chloroform	MP 16-A
Travel	17	Chloroform	DM 601-200, DM 601-135, DM 601-85, DM 601-40
Field	8	Trichloroethene	DM 119-137, DM 101-055, DM 119-204, DM 106-160 Dup, DM 106-231, DM 106-312, DM 125-076, DM 125-125, DM 125-155, DM 125-185, DM 125-270, DM 104-040, DM 104-040 Dup, DM 104-079, DM 104-079 Dup, DM 104-146
Field	8	Toluene	DM 125-076, DM 119-204, DM 125-125, DM 125-155, DM 125-185, DM 125-270, DM 104-040, DM 104-040 Dup, DM 104-079, DM 104-079 Dup, DM 104-146
Field	8	Trichlorofluoromethane	DM 125-076, DM 125-185, DM 125-270, DM 104-146

Table E5.4 (Continued)

Blank Type	Round	Constituent Detected	Qualified Sample Results
Equipment	14	Methylene Chloride	DM 125-155, DM 125-125, DM 125-76
Equipment	14	Trichloroethene	DM 125-155
Equipment	15	Trichloroethene	DM 508
Equipment	16	1,1-Dichloroethene (total)	DM 2010B2
Equipment	16	Trichloroethene	DM 201, DM 201 FD, DM 2010B1, DM 2010B2
Equipment	17	Trichloroethene	DM 603-68, DM 603-68 dup, DM 313, DM 313-B
Equipment	17	1,2-dichloroethene (total)	DM 312, DM 311-B
Equipment	17	Chloroform	DM 115
Equipment	18	Trichloroethene	DM 602, DM 602 dup
Equipment	18	1,1,1-trichloroethane	DM 601-85, DM 601-40, DM 601-135

Table E5.5

SUMMARY OF FIELD DUPLICATE PRECISION RESULTS EXCEEDING 20 PERCENT CRITERION

Well	Round	Constituent	Original, ug/L	Duplicate, ug/L	Relative Percent Difference
DM 120	8	Trichloroethene	251	313	22
DM 104-040	8	Trichlorofluoromethane	0.6	0.2	100
DM 104-079	8	Tetrachloroethene	0.20	0.40	67
DM 106-118	8	1,1-Dichloroethene	11.40	7.20	45
DM 106-118	8	Trichloroethene	3890	1970	65
DM 106-118	8	Tetrachloroethene	2.70	6.60	84
DM 106-160	8	1,1-Dichloroethane	0.90	3.50	118
DM 106-160	8	Trichloroethene	45.5	29.6	42
DM 103-178	8	1,2-Dichloroethene (Total)	5220	6680	24
DM 103-178	8	Trichloroethene	16700	30900	60
DM 103-178	8	Tetrachloroethene	637	1880	99
DM 103-178	8	1,2-Dichlorobenzene	1670	3000	57
DM 120	9	1,1,1-Trichloroethane	17.9	22.2	21
DM 126	9	Trichloroethene	1.75	2.81	46
DM 126	9	Tetrachloroethene	3.77	4.83	25
DM 106-160	9	1,2-Dichloroethene (total)	18.0	40.2	76
DM 107	10	1,1-Dichloroethene	330	32.0	165
DM 107	10	Trichloroethene	1100	440	86
MP 49C	10	1,1-Dichloroethane	70.0	55.0	24
MP 36B	10	1,1,1-Trichloroethane	780	1400	57
MP 36B	10	Trichloroethene	1300	3500	92
DM 103-178	10	1,2-Dichloroethene (total)	3800	7000	59
DM 104-146	10	1,1-Dichloroethane	1.10	3.20	98
DM 104-146	10	Trichloroethene	15.0	19.0	23
DM 122-B	11	Tetrachloroethene	0.81	1.08	28
MP 50B	11	Trichloroethene	93.0	126	30
DM 103-064	11	Trichloroethene	123	264	73

Table E5.5 (Continued)

Well	Round	Constituent	Original, ug/L	Duplicate, ug/L	Relative Percent Difference
DM 103-064	11	Chlorobenzene	214	454	53
MP 36B	11	Trichloroethene	894	1410	45
MP 53C	12	Trichloroethene	0.30	0.20	40
MP 53C	12	Trichloroethene	1.10	2.90	90
DM 106-079	12	Trichloroethene	0.40	0.30	29
DM 107	12	Trichloroethene	190	290	42
DM 120	12	Trichlorotrifluoroethane	1.5	2.1	33
DM 103-178	12	1,2-Dichloroethene (total)	6300	4700	29
DM 103-178	12	Trichloroethene	570	460	21
DM 103-178	12	Chlorobenzene	820	650	23
DM 103-064	12	Vinyl Chloride	70	120	53
DM 103-064	12	1,2-Dichloroethene (total)	2500	24.0	196
DM 103-064	12	Trichloroethene	150	3.0	192
MP 36B	12	Tetrachloroethene	550	430	25
MP 36B	12	Trichlorotrifluoroethane	200	160	22
MP 36B	12	1,2 & 1,4-Dichlorobenzene	1600	1250	25
DM 121-219	12	Trichloroethene	4.8	3.5	31
DM 103-178	12	Vinyl Chloride	430	350	21
DM 103-178	12	1,2-Dichloroethene (total)	6300	4900	25
DM 103-178	12	Trichloroethene	950	580	48
DM 103-178	12	Chlorobenzene	1000	620	47
MP 16C	12	1,2-Dichloroethene (total)	0.5	0.2	86
MP 16C	12	1,1,1-Trichloroethane	4.6	0.2	183
MP 16C	12	Tetrachloroethene	1.9	0.6	104
MP 16C	12	Trichloroethene	5.2	0.6	159
MP 49B	12A	1,1-Dichloroethene	150	190	23
MP 49D	12A	Trichloroethene	3.8	5.6	38
MP 36B	13	1,2 & 1,4-Dichlorobenzene	460	360	24
MP 36B	13	1,2 & 1,4-Dichlorobenzene	530	630	27

Table E5.5 (Continued)

Well	Round	Constituent	Original, ug/L	Duplicate, ug/L	Relative Percent Difference
MP 36B	13	Tetrachloroethene	220	290	27
MP 36B	13	1,1,1-Trichloroethane	1510	1940	25
MP 36B	13	Trichloroethene	3570	4500	23
DM 107	13	1,1-Dichloroethene	1	1.4	33
DM 103-47	13	1,2 & 1,4-Dichlorobenzene	200	250	22
DM 120	13	Tetrachloroethene	4.6	3.4	30
DM 505	13A	Trichloroethene	1.6	2.2	32
DM 501-147	13A	1,2 & 1,4-Dichlorobenzene	0.4	0.3	29
DM 501-147	13A	Trichloroethene	18.4	22.7	21
DM 504	13A	Trichloroethene	1340	990	30
DM 504	13A	1,2 & 1,4-Dichlorobenzene	120	90	29
DM 504	13A	1,2-Dichloroethene (total)	1200	950	23
DM 504	13A	Tetrachloroethene	120	80	40
DM 117	14	1,1-Dichloroethane	120	170	34
DM 117	14	1,1-Dichloroethene	120	170	34
DM 117	14	1,2 & 1,4-Dichlorobenzene	470	620	28
DM 117	14	Trichlorotrifluoroethane	131	1600	170
DM 504	14	Tetrachloroethene	90	70	25
DM 504	14	1,2 & 1,4-Dichlorobenzene	90	70	25
DM 502-119	15	Trichloroethene	3.8	25	147
DM 509	15	Bromodichloromethane	2.1	3.1	39
DM 509	15	Chloroform	6.6	9.9	40
DM 509	15	1,2-Dichloroethene (Total)	56	9	47
DM 509	15	Tetrachloroethene	.3	.6	67

Table E5.5 (Continued)

Well	Round	Constituent	Original, ug/L	Duplicate, ug/L	Relative Percent Difference
DM 501-202	15	1,4 + 1,2-Dichlorobenzene	2.5	1.6	44
DM 501-202	15	1,1-Dichloroethane	0.9	0.6	40
DM 501-202	15	1,2-Dichloroethene (total)	6.4	8.4	27
DM 501-202	15	Tetrachloroethene	1.7	1.2	34
DM 501-202	15	1,1,1-Trichloroethane	22	10	75
DM 501-202	16	Trichloroethene	10	20	67
DM 201	16	1,1-Dichloroethene (total)	40	60	40
DM 201	16	Tetrachloroethene	640	500	25
DM 201	16	Trichloroethene	40	20	67
DM 201-2640	16	1,1-Dichloroethane	30	20	40
DM 201-2640	16	1,1,1-Trichloroethane	4,600	3,500	27
DM 307-XB	17	1,2-Dichloroethene (total)	100	57	55
DM 307-XB	17	Tetrachloroethene	75	35	73
DM 603-68	17	Trichloroethene	4.4	2.3	63
DM 604	17	1,1-Dichloroethene	190	140	30
DM 605-105	17	Chlorobenzene	78	50	44
DM 605-105	17	1,4 & 1,2-Dichlorobenzene	170	130	27
DM 605-105	17	1,1-Dichloroethene	980	730	29
DM 605-105	17	Tetrachloroethene	100	60	50
DM 605-105	17	Trichloroethene	650	500	26
DM 605-105	17	Vinyl Chloride	20	10	67
DM 606-102	17	Chlorobenzene	370	270	31
DM 606-102	17	1,4 & 1,2-Dichlorobenzene	290	190	42
DM 606-102	17	1,2-Dichloroethene (total)	2500	2000	22
DM 606-102	17	Tetrachloroethene	19	15	24
DM 606-102	17	Trichloroethene	460	320	36
DM 606-102	17	Vinyl Chloride	800	600	29

Table E5.6

ROUND 8
LABORATORY SPIKES AND LABORATORY SPIKE DUPLICATES

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Percent Recovery	Relative Percent Difference
Methylene Chloride	DM 121-284	06/06/87	102	89	13
Trichlorofluoromethane	DM 121-284	06/06/87	80	79	2
1,1-Dichloroethene	DM 121-284	06/06/87	87	79	10
1,1-Dichloroethane	DM 121-284	06/06/87	88	87	1
Carbon Tetrachloride	DM 121-284	06/06/87	87	84	4
1,2-Dichloropropane	DM 121-284	06/06/87	85	79	7
Tetrachloroethene	DM 121-284	06/06/87	87	106	20
Methylene Chloride	DM 104-079	06/03/87	103	105	2
Trichlorofluoromethane	DM 104-079	06/03/87	79	118	40
1,1-Dichloroethene	DM 104-079	06/03/87	85	97	14
1,1-Dichloroethane	DM 104-079	06/03/87	95	92	3
Carbon Tetrachloride	DM 104-079	06/03/87	100	116	15
1,2-Dichloropropane	DM 104-079	06/03/87	89	91	2
Tetrachloroethene	DM 104-079	06/03/87	90	94	4
Chlorobenzene	DM 104-079	06/03/87	93	91	2

Table E5.7

ROUND 9
LABORATORY SPIKES AND LABORATORY DUPLICATES

Compound	WTI ID	Date Analyzed	Spike Percent Recovery	Duplicate Relative Percent Difference
1,1,1-Trichloroethane	8714529	12/04/87	106	0
Tetrachloroethene	8714529	12/04/87	104	23.1
Trans-1,2-Dichloroethene	8714529	12/04/87	121	0
Trichloroethene	8714529	12/04/87	84.1	34.9
1,1,1-Trichloroethane	8715132	11/23/87	103	108
1,1-Dichloroethane	8715132	11/23/87	116	0
1,1-Dichloroethene	8715132	11/23/87	131	8.7
1,2-Dichlorobenzene	8715132	11/23/87	99.5	0
Bromodichloromethane	8715132	11/23/87	117	0
Carbon Tetrachloride	8715132	11/23/87	103	0
Chlorobenzene	8715132	11/23/87	103	0
Tetrachloroethene	8715132	11/23/87	136	9
Trans-1,2-Dichloroethene	8715132	11/23/87	112	0
Trichloroethene	8715132	11/23/87	91	11
1,1,1-Trichloroethane	8715247	11/28/87	85.8	0
1,1-Dichloroethene	8715247	11/28/87	104	0
1,2-Dichlorobenzene	8715247	11/28/87	107	0
Tetrachloroethene	8715247	11/28/87	76.8	0
Trans-1,2-Dichloroethene	8715247	11/28/87	107	0
Trichloroethene	8715247	11/28/87	126	2.32
1,1,1-Trichloroethane	8715303	11/28/87	114	0
1,1-Dichloroethene	8715303	11/28/87	126	0
Tetrachloroethene	8715303	11/28/87	90	0
Trans-1,2-Dichloroethene	8715303	11/28/87	125	0
Trichloroethene	8715303	11/28/87	74	1.55
1,1-Dichloroethane	8715389	12/01/87	88.6	6.16

Table E5.7 (Continued)

Compound	WTI ID	Date Analyzed	Spike Percent Recovery	Duplicate Relative Percent Difference
1,1-Dichloroethene	8715389	12/01/87	158	10.7
1,2-Dichlorobenzene	8715389	12/01/87	107	0
Freon	8715389	12/01/87	74.1	18.5
Tetrachloroethene	8715389	12/01/87	106	5.37
Trans-1,2-Dichloroethene	8715389	12/01/87	116	3.2
Trichloroethene	8715389	12/01/87	84.7	2.55
1,1,1-Trichloroethane	8715513	12/02/87	94.8	0
Freon	8715513	12/02/87	78.2	0
Tetrachloroethene	8715513	12/02/87	84.8	0
Trans-1,2-Dichloroethene	8715513	12/02/87	99	0
Trichloroethene	8715513	12/02/87	91.9	0
1,1,1-Trichloroethane	8715648	12/05/87	116	29.6
1,1-Dichloroethene	8715648	12/05/87	131	6.32
1,2-Dichlorobenzene	8715648	12/05/87	98.3	14.5
Freon	8715648	12/05/87	93.1	0
Tetrachloroethene	8715648	12/05/87	119	10.5
Trans-1,2-Dichloroethene	8715648	12/05/87	111	9.03
Trichloroethene	8715648	12/05/87	85.6	12.6
1,1,1-Trichloroethane	8715840	12/11/87	120	0
1,2-Dichlorobenzene	8715840	12/11/87	94.1	0
Tetrachloroethene	8715840	12/11/87	100	0
Trans-1,2-Dichloroethene	8715840	12/11/87	110	40
Trichloroethene	8715840	12/11/87	106	9.2
Tetrachloroethene	8715848	12/11/87	97.7	10.1
Trans-1,2-Dichloroethene	8715848	12/11/87	102	0
Trichloroethene	8715848	12/11/87	98.6	0

Table E5.7 (Continued)

Compound	WTI ID	Date Analyzed	Spike Percent Recovery	Duplicate Relative Percent Difference
1,1,1-Trichloroethane	8715955	12/15/87	85.4	16.5
Trans-1,2-Dichloroethene	8715955	12/15/87	99.8	17.7
Trichloroethene	8715955	12/15/87	113	<1.0

Table E5.8

ROUND 10
LABORATORY SPIKES AND LABORATORY DUPLICATES

Compound	WTI ID	Date Analyzed	Spike Percent Recovery	Duplicate Relative Percent Difference
Chloroform	8816322	09/26/88	103	
Bromodichloromethane	8817371	09/27/88	94	
Dibromochloromethane	8817371	09/27/88	102	
Dichloromethane	8817383	09/27/88		0
1,1,2,2-Tetrachloroethene	8817394	09/26/88		2.6
Trans-1,2-Dichloroethylene	8817394	09/26/88		0
Chloroform	8817399	09/26/88	85	
Bromodichloromethane	8817466	10/01/88	108	
Chloroform	8817476	10/01/88		0
Bromodichloromethane	8817594	09/30/88	100	
1,1,2-Trichloroethene	8817595	09/30/88		9.5
Bromodichloromethane	8817620	10/04/88	101	
Chloroform	8817620	10/04/88	108	
1,1-Dichloroethene	8817621	10/04/88		6.5
Bromodichloromethane	8817722	10/01/88	91	
Chloroform	8817722	10/01/88	102	
1,1,2-Trichloroethene	8817859	10/05/88		0
1,1,2-Trichloroethene	8818005	10/05/88	115	
1,1,2-Trichloroethene	8818006	10/05/88	127	
1,1,2-Trichloroethene	8818007	10/05/88	120	
1,1,2-Trichloroethene	8818008	10/05/88	108	
1,1,2-Trichloroethene	8818009	10/05/88	105	
1,1,2-Trichloroethene	8818294	10/12/88		0
Bromodichloromethane	8818294	10/12/88	115	
Chloroform	8818294	10/12/88	86	

Table E5.8 (Continued)

Compound	WTI ID	Date Analyzed	Spike Percent Recovery	Duplicate Relative Percent Difference
Tetrachloroethene	8818294	10/12/88		4.9
Bromodichloromethane	8818307	10/12/88	86	
Chloroform	8818307	10/12/88	80	

Table E5.9

ROUND 11
LABORATORY SPIKES AND LABORATORY DUPLICATES

Compound	WTI ID	Date Analyzed	Spike Percent Recovery	Duplicate Relative Percent Difference
1,1-Dichloroethane	8900581	01/17/89	104	0
1,2-Dichlorobenzene	8900581	01/17/89	94	0
Trichloroethylene	8900581	01/17/89	105	3.1
Trichloroethylene	8900655	01/19/89	109	0
Trichloroethylene	8900688	01/21/89	99	9.7
Trichloroethylene	8900697	01/26/89	103	0
Tetrachloroethene	8900739	01/27/89	92	5.1
Trichloroethylene	8900739	01/27/89	85	0
1,1-Dichloroethene	8900787	01/25/89	99	0
Tetrachloroethene	8900787	01/25/89	99	19
Trichloroethylene	8900787	01/25/89	77	8.3
1,1-Dichloroethene	8900877	01/31/89	88	<1.0
Tetrachloroethene	8900877	01/31/89	92	0
Trichloroethylene	8900877	01/31/89	50	13.6
1,1-Dichloroethane	8900899	02/01/89	106	45
1,1-Dichloroethene	8900899	02/01/89	89	0
1,2-Dichlorobenzene	8900899	02/01/89	116	0
Tetrachloroethene	8900899	02/01/89	116	7.8
Trans-1,2-Dichloroethene	8900899	02/01/89	102	0
Trichloroethylene	8900899	02/01/89	106	6.9
1,1-Dichloroethane	8900937	02/07/89	102	0
1,2-Dichloroethane	8900937	02/07/89	86	0
Chlorobenzene	8900937	02/07/89	92	0
Trans-1,2-Dichloroethene	8900937	02/07/89	111	0
Trichloroethylene	8900937	02/07/89	89	39
1,1-Dichloroethane	8901024	02/04/89	104	<1.0

Table E5.9 (Continued)

Compound	WTI ID	Date Analyzed	Spike Percent Recovery	Duplicate Relative Percent Difference
1,1-Dichloroethene	8901024	02/04/89	96	0
1,2-Dichlorobenzene	8901024	02/04/89	126	18
Tetrachloroethene	8901024	02/04/89	112	0
Trichloroethylene	8901024	02/04/89	106	3.1
1,1-Dichloroethane	8901099	02/09/89	100	0
1,1-Dichloroethene	8901099	02/09/89	94	1.5
1,2-Dichlorobenzene	8901099	02/09/89	109	0
Tetrachloroethene	8901099	02/09/89	111	121
Trichloroethylene	8901099	02/09/89	50	15
1,1-Dichloroethane	8901103	02/09/89	97	7
1,1-Dichloroethene	8901103	02/09/89	99	4
1,2-Dichlorobenzene	8901103	02/09/89	115	<1.0
Chlorobenzene	8901103	02/09/89	84	0
Trans-1,2-Dichloroethene	8901103	02/09/89	85	0
Trichloroethylene	8901103	02/09/89	89	6.3
1,2-Dichlorobenzene	8901148	02/13/89	115	27
Chlorobenzene	8901148	02/13/89	102	13
Tetrachloroethene	8901148	02/13/89	86	9.6
Trichloroethylene	8901148	02/13/89	75	0
1,1,1-Trichloroethane	8901150	02/21/90	110	0
1,2-Dichlorobenzene	8901150	02/21/90	85	0
1,4-Dichlorobenzene	8901150	02/21/90	83	0
Tetrachloroethene	8901150	02/21/90	77	0
Trichloroethylene	8901150	02/21/90	74	9.7
Trichloroethylene	8901150	02/21/90	86	13

Table E5.10

ROUND 12
LABORATORY SPIKES AND LABORATORY SPIKE DUPLICATES

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1,1-Trichloroethane	911670	11/18/89	105	90	15
1,1-Dichloroethene	911670	11/18/89	110	110	0
Bromodichloromethane	911670	11/18/89	100	95	5
Chlorobenzene	911670	11/18/89	105	100	5
Chloroform	911670	11/18/89	106	101	5
Tetrachloroethene	911670	11/18/89	109	104	5
Trichloroethene	911670	11/18/89	115	110	3
1,1,1-Trichloroethane	911696	12/11/89	90	110	20
1,1-Dichloroethene	911696	12/11/89	95	115	19
Bromodichloromethane	911696	12/11/89	95	110	15
Chlorobenzene	911696	12/11/89	95	105	10
Chloroform	911696	12/11/89	95	115	19
Tetrachloroethene	911696	12/11/89	90	105	15
Trichloroethene	911696	12/11/89	105	120	13
1,1,1-Trichloroethane	911712	12/06/89	90	100	11
1,1-Dichloroethene	911712	12/06/89	90	100	11
Bromodichloromethane	911712	12/06/89	95	100	5
Chlorobenzene	911712	12/06/89	100	105	5
Chloroform	911712	12/06/89	97	107	10
Tetrachloroethene	911712	12/06/89	100	100	0
Trichloroethene	911712	12/06/89	99	110	10
1,1,1-Trichloroethane	911732	12/05/89	95	100	5
1,1-Dichloroethene	911732	12/05/89	105	105	0
Bromodichloromethane	911732	12/05/89	95	100	5
Chlorobenzene	911732	12/05/89	100	105	5
Chloroform	911732	12/05/89	100	105	5

Table E5.10 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	911732	12/05/89	115	115	0
Trichloroethene	911732	12/05/89	115	110	4
1,1,1-Trichloroethane	911742	12/06/89	90	100	11
1,1-Dichloroethene	911742	12/06/89	90	100	11
Bromodichloromethane	911742	12/06/89	95	100	5
Chlorobenzene	911742	12/06/89	100	105	5
Chloroform	911742	12/06/89	97	107	10
Tetrachloroethene	911742	12/06/89	100	100	0
Trichloroethene	911742	12/06/89	99	110	10
1,1,1-Trichloroethane	911751	12/05/89	95	100	5
1,1-Dichloroethene	911751	12/05/89	105	105	0
Bromodichloromethane	911751	12/05/89	95	100	5
Chlorobenzene	911751	12/05/89	100	105	5
Chloroform	911751	12/05/89	100	105	5
Tetrachloroethene	911751	12/05/89	115	115	0
Trichloroethene	911751	12/05/89	115	110	4
1,1,1-Trichloroethane	911771	12/08/89	100	100	0
1,1,1-Trichloroethane	911771	12/07/89	95	85	11
1,1-Dichloroethene	911771	12/08/89	90	95	5
1,1-Dichloroethene	911771	12/07/89	95	85	11
Bromodichloromethane	911771	12/07/89	100	90	11
Bromodichloromethane	911771	12/08/89	105	105	0
Chlorobenzene	911771	12/08/89	105	100	5
Chlorobenzene	911771	12/07/89	95	100	5
Chloroform	911771	12/08/89	95	105	10
Chloroform	911771	12/07/89	95	95	0
Tetrachloroethene	911771	12/07/89	95	95	0
Tetrachloroethene	911771	12/08/89	95	95	0

Table E5.10 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Trichloroethene	911771	12/08/89	110	105	5
Trichloroethene	911771	12/07/89	100	90	11
1,1,1-Trichloroethane	911779	12/09/89	90	80	12
1,1-Dichloroethene	911779	12/09/89	90	85	6
Bromodichloromethane	911779	12/09/89	95	90	5
Chlorobenzene	911779	12/09/89	80	90	12
Chloroform	911779	12/09/89	95	90	5
Tetrachloroethene	911779	12/09/89	80	80	0
Trichloroethene	911779	12/09/89	88	83	6
1,1,1-Trichloroethane	911781	12/06/89	90	100	11
1,1-Dichloroethene	911781	12/06/89	90	100	11
Bromodichloromethane	911781	12/06/89	95	100	5
Chlorobenzene	911781	12/06/89	100	105	5
Chloroform	911781	12/06/89	97	107	10
Tetrachloroethene	911781	12/06/89	100	100	0
Trichloroethene	911781	12/06/89	99	110	10
1,1,1-Trichloroethane	911793	12/08/89	100	100	0
1,1-Dichloroethene	911793	12/08/89	90	95	5
Bromodichloromethane	911793	12/08/89	105	105	0
Chlorobenzene	911793	12/08/89	105	100	5
Chloroform	911793	12/08/89	95	105	10
Tetrachloroethene	911793	12/08/89	95	95	0
Trichloroethene	911793	12/08/89	110	105	5
1,1,1-Trichloroethane	911795	12/08/89	100	100	0
1,1-Dichloroethene	911795	12/08/89	90	95	5
Bromodichloromethane	911795	12/08/89	105	105	0
Chlorobenzene	911795	12/08/89	105	100	5
Chloroform	911795	12/08/89	95	105	10

Table E5.10 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	911795	12/08/89	95	95	0
Trichloroethene	911795	12/08/89	110	105	5
1,1,1-Trichloroethane	912502	12/13/89	100	100	0
1,1-Dichloroethene	912502	12/13/89	90	95	5
Bromodichloromethane	912502	12/13/89	105	105	0
Chlorobenzene	912502	12/13/89	100	105	5
Chloroform	912502	12/13/89	100	100	0
Tetrachloroethene	912502	12/13/89	100	105	5
Trichloroethene	912502	12/13/89	95	105	10
1,1,1-Trichloroethane	912503	12/09/89	90	80	12
1,1-Dichloroethene	912503	12/09/89	90	85	6
Bromodichloromethane	912503	12/09/89	95	90	5
Chlorobenzene	912503	12/09/89	80	90	12
Chloroform	912503	12/09/89	95	90	5
Tetrachloroethene	912503	12/09/89	80	80	0
Trichloroethene	912503	12/09/89	88	83	6
1,1,1-Trichloroethane	912514	12/09/89	90	80	12
1,1-Dichloroethene	912514	12/09/89	90	85	6
Bromodichloromethane	912514	12/09/89	95	90	5
Chlorobenzene	912514	12/09/89	80	90	12
Chloroform	912514	12/09/89	95	90	5
Tetrachloroethene	912514	12/09/89	80	80	0
Trichloroethene	912514	12/09/89	88	83	6
1,1,1-Trichloroethane	912518	12/08/89	95	85	11
1,1-Dichloroethene	912518	12/08/89	95	80	17
Bromodichloromethane	912518	12/08/89	115	105	9
Chlorobenzene	912518	12/08/89	85	90	6
Chloroform	912518	12/08/89	100	90	11

Table E5.10 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	912518	12/08/89	80	80	0
Trichloroethene	912518	12/08/89	95	95	0
1,1,1-Trichloroethane	912535	12/18/89	100	95	5
1,1-Dichloroethene	912535	12/18/89	95	85	11
Bromodichloromethane	912535	12/18/89	100	95	5
Chlorobenzene	912535	12/18/89	115	110	4
Chloroform	912535	12/18/89	100	90	11
Tetrachloroethene	912535	12/18/89	110	105	5
Trichloroethene	912535	12/18/89	105	100	5
1,1,1-Trichloroethane	912536	12/16/89	90	85	6
1,1-Dichloroethene	912536	12/16/89	90	80	12
Bromodichloromethane	912536	12/16/89	95	90	5
Chlorobenzene	912536	12/16/89	100	85	16
Chloroform	912536	12/16/89	95	90	5
Tetrachloroethene	912536	12/16/89	100	90	11
Trichloroethene	912536	12/16/89	100	95	5
1,1,1-Trichloroethane	912541	12/19/89	95	100	5
1,1-Dichloroethene	912541	12/19/89	101	106	5
Bromodichloromethane	912541	12/19/89	95	95	0
Chlorobenzene	912541	12/19/89	105	105	0
Chloroform	912541	12/19/89	115	115	0
Tetrachloroethene	912541	12/19/89	100	100	0
Trichloroethene	912541	12/19/89	107	107	0
1,1,1-Trichloroethane	912543	12/18/89	100	90	11
1,1-Dichloroethene	912543	12/18/89	90	90	0
Bromodichloromethane	912543	12/18/89	105	95	10
Chlorobenzene	912543	12/18/89	100	85	16
Chloroform	912543	12/18/89	105	100	5

Table E5.10 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	912543	12/18/89	95	80	17
Trichloroethene	912543	12/18/89	105	90	15
1,1,1-Trichloroethane	912559	12/19/89	105	100	5
1,1-Dichloroethene	912559	12/19/89	95	95	0
Bromodichloromethane	912559	12/19/89	105	105	0
Chlorobenzene	912559	12/19/89	105	100	5
Chloroform	912559	12/19/89	105	105	0
Tetrachloroethene	912559	12/19/89	105	100	5
Trichloroethene	912559	12/19/89	105	100	0
1,1,1-Trichloroethane	912600	12/21/89	100	85	16
1,1-Dichloroethene	912600	12/21/89	95	85	11
Bromodichloromethane	912600	12/21/89	115	110	4
Chlorobenzene	912600	12/21/89	105	105	0
Chloroform	912600	12/21/89	105	95	10
Tetrachloroethene	912600	12/21/89	95	90	5
Trichloroethene	912600	12/21/89	95	85	11
1,1,1-Trichloroethane	912603	12/21/89	100	85	16
1,1-Dichloroethene	912603	12/21/89	95	85	11
Bromodichloromethane	912603	12/21/89	115	110	4
Chlorobenzene	912603	12/21/89	105	105	0
Chloroform	912603	12/21/89	105	95	10
Tetrachloroethene	912603	12/21/89	95	90	5
Trichloroethene	912603	12/21/89	95	85	11
1,1,1-Trichloroethane	912615	12/21/89	95	95	0
1,1-Dichloroethene	912615	12/21/89	80	80	0
Bromodichloromethane	912615	12/21/89	95	100	5
Chlorobenzene	912615	12/21/89	105	105	0
Chloroform	912615	12/21/89	95	95	0

Table E5.10 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	912615	12/21/89	105	100	5
Trichloroethene	912615	12/21/89	105	105	0
1,1,1-Trichloroethane	912633	12/23/89	95	95	0
1,1-Dichloroethene	912633	12/23/89	100	100	0
Bromodichloromethane	912633	12/23/89	105	100	5
Chlorobenzene	912633	12/23/89	100	100	0
Chloroform	912633	12/23/89	95	95	0
Tetrachloroethene	912633	12/23/89	95	95	0
Trichloroethene	912633	12/23/89	95	95	0
1,1,1-Trichloroethane	912634	12/23/89	95	95	0
1,1-Dichloroethene	912634	12/23/89	100	100	0
Bromodichloromethane	912634	12/23/89	105	100	5
Chlorobenzene	912634	12/23/89	100	100	0
Chloroform	912634	12/23/89	95	95	0
Tetrachloroethene	912634	12/23/89	95	95	0
Trichloroethene	912634	12/23/89	95	95	0
1,1,1-Trichloroethane	912645	12/23/89	95	95	0
1,1-Dichloroethene	912645	12/23/89	100	100	0
Bromodichloromethane	912645	12/23/89	105	100	5
Chlorobenzene	912645	12/23/89	100	100	0
Chloroform	912645	12/23/89	95	95	0
Tetrachloroethene	912645	12/23/89	95	95	0
Trichloroethene	912645	12/23/89	95	95	0
1,1,1-Trichloroethane	912661	12/26/89	105	100	5
1,1-Dichloroethene	912661	12/26/89	95	90	5
Bromodichloromethane	912661	12/26/89	105	105	0
Chlorobenzene	912661	12/26/89	100	110	10

Table E5.10 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Chloroform	912661	12/26/89	110	100	10
Tetrachloroethene	912661	12/26/89	95	105	10
Trichloroethene	912661	12/26/89	110	115	4

Table E5.11

ROUND 12A
LABORATORY SPIKES AND LABORATORY SPIKE DUPLICATES

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1,1-Trichloroethane	006659	06/15/90	100	105	5
1,1,1-Trichloroethane	006659	06/16/90	100	95	5
1,1-Dichloroethene	006659	06/16/90	105	100	5
1,1-Dichloroethene	006659	06/15/90	90	90	0
Bromodichloromethane	006659	06/16/90	100	95	5
Bromodichloromethane	006659	06/15/90	100	105	5
Chlorobenzene	006659	06/16/90	100	95	5
Chlorobenzene	006659	06/15/90	105	110	5
Chloroform	006659	06/15/90	105	110	5
Chloroform	006659	06/16/90	100	90	11
Tetrachloroethene	006659	06/16/90	100	95	5
Tetrachloroethene	006659	06/15/90	105	110	5
Trichloroethene	006659	06/16/90	90	90	0
Trichloroethene	006659	06/15/90	105	110	5
1,1,1-Trichloroethane	007594	07/11/90	110	110	0
1,1,1-Trichloroethane	007594	07/11/90	105	105	0
1,1-Dichloroethene	007594	07/11/90	105	105	0
1,1-Dichloroethene	007594	07/11/90	105	100	5
Bromodichloromethane	007594	07/11/90	110	105	5
Bromodichloromethane	007594	07/11/90	105	100	5
Chlorobenzene	007594	07/11/90	120	110	9
Chlorobenzene	007594	07/11/90	105	105	0
Chloroform	007594	07/11/90	110	110	0
Chloroform	007594	07/11/90	105	110	5
Tetrachloroethene	007594	07/11/90	115	110	4
Tetrachloroethene	007594	07/11/90	110	110	0

Table E5.11 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Trichloroethene	007594	07/11/90	116	111	3
Trichloroethene	007594	07/11/90	111	111	0
1,1,1-Trichloroethane	007636	07/12/90	95	100	5
1,1-Dichloroethane	007636	07/12/90	105	110	5
Bromodichloromethane	007636	07/12/90	100	105	5
Chlorobenzene	007636	07/12/90	105	100	5
Chloroform	007636	07/12/90	105	105	0
Tetrachloroethene	007636	07/12/90	105	110	5
Trichloroethene	007636	07/12/90	105	110	5

Table E5.12

ROUND 13
LABORATORY SPIKES AND LABORATORY SPIKE DUPLICATES

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1,1-Trichloroethane	011769	11/26/90	95	90	5
1,1-Dichloroethene	011769	11/26/90	105	100	5
Bromodichloromethane	011769	11/26/90	100	90	11
Chlorobenzene	011769	11/26/90	105	90	15
Chloroform	011769	11/26/90	105	100	5
Tetrachloroethene	011769	11/26/90	100	85	16
Trichloroethene	011769	11/26/90	105	95	10
1,1,1-Trichloroethane	011769	12/03/90	105	100	5
1,1-Dichloroethene	011769	12/03/90	92	92	0
Bromodichloromethane	011769	12/03/90	100	110	10
Chlorobenzene	011769	12/03/90	95	95	0
Chloroform	011769	12/03/90	105	100	5
Tetrachloroethene	011769	12/03/90	98	98	0
Trichloroethene	011769	12/03/90	99	104	4
1,1,1-Trichloroethane	011559	11/08/90	100	100	0
1,1-Dichloroethene	011559	11/08/90	115	105	9
Bromodichloromethane	011559	11/08/90	100	100	0
Chlorobenzene	011559	11/08/90	110	105	5
Chloroform	011559	11/08/90	100	105	5
Tetrachloroethene	011559	11/08/90	110	110	0
Trichloroethene	011559	11/08/90	105	100	5
1,1,1-Trichloroethane	011574	11/08/90	94	104	7
1,1-Dichloroethene	011574	11/08/90	106	106	0
Bromodichloromethane	011574	11/08/90	105	105	0
Chlorobenzene	011574	11/08/90	110	100	10
Chloroform	011574	11/08/90	102	107	4

Table E5.12 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	011574	11/08/90	110	105	3
Trichloroethene	011574	11/08/90	111	111	0
1,1,1-Trichloroethane	011732	11/20/90	105	95	10
1,1-Dichloroethene	011732	11/20/90	95	90	5
Bromodichloromethane	011732	11/20/90	105	100	5
Chlorobenzene	011732	11/20/90	100	100	0
Chloroform	011732	11/20/90	110	105	5
Tetrachloroethene	011732	11/20/90	105	100	5
Trichloroethene	011732	11/20/90	99	110	10
1,1,1-Trichloroethane	011621	11/16/90	90	90	0
1,1-Dichloroethene	011621	11/16/90	90	85	6
Bromodichloromethane	011621	11/16/90	95	95	0
Chlorobenzene	011621	11/16/90	90	85	6
Chloroform	011621	11/16/90	95	95	0
Tetrachloroethene	011621	11/16/90	95	90	5
Trichloroethene	011621	11/16/90	100	95	5
1,1,1-Trichloroethane	011647	11/16/90	90	90	0
1,1-Dichloroethene	011647	11/16/90	90	85	6
Bromodichloromethane	011647	11/16/90	95	95	0
Chlorobenzene	011647	11/16/90	90	85	6
Chloroform	011647	11/16/90	95	95	0
Tetrachloroethene	011647	11/16/90	95	90	5
Trichloroethene	011647	11/16/90	90	90	0
1,1,1-Trichloroethane	011578	11/09/90	95	100	5
1,1-Dichloroethene	011578	11/09/90	100	100	0
Bromodichloromethane	011578	11/09/90	95	100	5
Chlorobenzene	011578	11/09/90	105	105	0
Chloroform	011578	11/09/90	105	110	5

Table E5.12 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	011578	11/09/90	105	105	0
Trichloroethene	011578	11/09/90	105	110	5
1,1,1-Trichloroethane	010836	11/06/90	95	85	11
1,1-Dichloroethene	010836	11/06/90	80	80	0
Bromodichloromethane	010836	11/06/90	105	90	15
Chlorobenzene	010836	11/06/90	80	85	6
Chloroform	010836	11/06/90	95	85	11
Tetrachloroethene	010836	11/06/90	85	85	0
Trichloroethene	010836	11/06/90	95	85	11
1,1,1-Trichloroethane	010824	11/05/90	95	95	0
1,1-Dichloroethene	010824	11/05/90	90	85	6
Bromodichloromethane	010824	11/05/90	95	90	5
Chlorobenzene	010824	11/05/90	85	80	6
Chloroform	010824	11/05/90	90	90	0
Tetrachloroethene	010824	11/05/90	90	80	12
Trichloroethene	010824	11/05/90	85	80	6
1,1,1-Trichloroethane	011511	11/05/90	90	100	11
1,1-Dichloroethene	011511	11/05/90	90	95	5
Bromodichloromethane	011511	11/05/90	95	105	10
Chlorobenzene	011511	11/05/90	105	100	5
Chloroform	011511	11/05/90	100	95	5
Tetrachloroethene	011511	11/05/90	98	110	5
Trichloroethene	011511	11/05/90	90	100	11
1,1,1-Trichloroethane	011598	11/12/90	100	100	0
1,1-Dichloroethene	011598	11/12/90	100	100	0
Bromodichloromethane	011598	11/12/90	110	110	0
Chlorobenzene	011598	11/12/90	110	100	10
Chloroform	011598	11/12/90	105	105	0

Table E5.12 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	011598	11/12/90	105	105	0
Trichloroethene	011598	11/12/90	112	112	0
1,1,1-Trichloroethane	011636	11/21/90	100	105	5
1,1-Dichloroethene	011636	11/21/90	85	90	6
Bromodichloromethane	011636	11/21/90	105	110	5
Chlorobenzene	011636	11/21/90	90	95	5
Chloroform	011636	11/21/90	95	90	5
Tetrachloroethene	011636	11/21/90	95	95	0
Trichloroethene	011636	11/21/90	95	100	5
1,1,1-Trichloroethane	011544	11/07/90	95	95	0
1,1-Dichloroethene	011544	11/07/90	115	100	14
Bromodichloromethane	011544	11/07/90	95	95	0
Chlorobenzene	011544	11/07/90	100	105	5
Chloroform	011544	11/07/90	100	95	5
Tetrachloroethene	011544	11/07/90	100	105	5
Trichloroethene	011544	11/07/90	91	95	2
1,1,1-Trichloroethane	011671	11/20/90	105	95	10
1,1-Dichloroethene	011671	11/20/90	95	90	5
Bromodichloromethane	011671	11/20/90	105	100	5
Chlorobenzene	011671	11/20/90	100	100	0
Chloroform	011671	11/20/90	110	105	5
Tetrachloroethene	011671	11/20/90	105	100	5
Trichloroethene	011671	11/20/90	110	105	5
1,1,1-Trichloroethane	011538	11/05/90	90	100	10
1,1-Dichloroethene	011538	11/05/90	95	90	5
Bromodichloromethane	011538	11/05/90	95	105	10
Chlorobenzene	011538	11/05/90	105	100	5

Table E5.12 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Chloroform	011538	11/05/90	100	95	5
Tetrachloroethene	011538	11/05/90	98	110	5
Trichloroethene	011538	11/05/90	101	111	9

Table E5.13

POST-RI ROUND 13A
LABORATORY SPIKES AND LABORATORY SPIKE DUPLICATES

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1,1-Trichloroethane	012835	12/31/90	90	90	0
1,1-Dichloroethene	012835	12/31/90	95	100	5
Bromodichloromethane	012835	12/31/90	95	95	0
Chlorobenzene	012835	12/31/90	90	100	11
Chloroform	012835	12/31/90	99	104	5
Tetrachloroethene	012835	12/31/90	95	100	5
Trichloroethene	012835	12/31/90	96	106	10
1,1,1-Trichloroethane	012845	01/02/91	90	90	0
1,1-Dichloroethene	012845	01/02/91	95	95	0
Bromodichloromethane	012845	01/02/91	100	95	5
Chlorobenzene	012845	01/02/91	95	85	11
Chloroform	012845	01/02/91	110	105	5
Tetrachloroethene	012845	01/02/91	95	85	11
Trichloroethene	012845	01/02/91	105	95	10
1,1,1-Trichloroethane	012873	01/04/91	90	85	6
1,1-Dichloroethene	012873	01/04/91	85	90	6
Bromodichloromethane	012873	01/04/91	100	90	11
Chlorobenzene	012873	01/04/91	105	90	15
Chloroform	012873	01/04/91	105	95	10
Tetrachloroethene	012873	01/04/91	105	90	15
Trichloroethene	012873	01/04/91	110	90	20
1,1,1-Trichloroethane	101516	01/04/91	90	85	6
1,1-Dichloroethene	101516	01/04/91	85	90	6
Bromodichloromethane	101516	01/04/91	100	90	11
Chlorobenzene	101516	01/04/91	105	90	15
Chloroform	101516	01/04/91	105	95	10

Table E5.13 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	101516	01/04/91	105	90	15
Trichloroethene	101516	01/04/91	110	90	20
1,1,1-Trichloroethane	101543	01/05/91	100	85	16
1,1-Dichloroethene	101543	01/05/91	90	90	0
Bromodichloromethane	101543	01/05/91	110	90	20
Chlorobenzene	101543	01/05/91	105	90	15
Chloroform	101543	01/05/91	120	105	13
Tetrachloroethene	101543	01/05/91	105	90	15
Trichloroethene	101543	01/05/91	115	95	19
1,1,1-Trichloroethane	101577	01/08/91	95	95	0
1,1-Dichloroethene	101577	01/08/91	95	100	5
Bromodichloromethane	101577	01/08/91	95	95	0
Chlorobenzene	101577	01/08/91	105	100	5
Chloroform	101577	01/08/91	100	105	5
Tetrachloroethene	101577	01/08/91	105	100	5
Trichloroethene	101577	01/08/91	110	100	10
1,1,1-Trichloroethane	101618	01/11/91	110	110	0
1,1-Dichloroethene	101618	01/11/91	115	120	4
Bromodichloromethane	101618	01/11/91	115	110	4
Chlorobenzene	101618	01/11/91	110	120	9
Chloroform	101618	01/11/91	115	115	0
Tetrachloroethene	101618	01/11/91	120	115	4
Trichloroethene	101618	01/11/91	119	114	4
1,1,1-Trichloroethane	101645	01/14/91	95	90	5
1,1-Dichloroethene	101645	01/14/91	95	90	5
Bromodichloromethane	101645	01/14/91	95	95	0
Chlorobenzene	101645	01/14/91	100	95	5
Chloroform	101645	01/14/91	105	100	5

Table E5.13 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	101645	01/14/91	95	95	0
Trichloroethene	101645	01/14/91	100	105	5
1,1,1-Trichloroethane	101647	01/11/91	110	110	0
1,1-Dichloroethene	101647	01/11/91	115	120	4
Bromodichloromethane	101647	01/11/91	115	110	4
Chlorobenzene	101647	01/11/91	110	120	9
Chloroform	101647	01/11/91	115	115	0
Tetrachloroethene	101647	01/11/91	120	115	4
Trichloroethene	101647	01/11/91	119	114	4
1,1,1-Trichloroethane	101722	01/24/91	100	90	11
1,1-Dichloroethene	101722	01/24/91	90	80	12
Bromodichloromethane	101722	01/24/91	95	90	5
Chlorobenzene	101722	01/24/91	90	80	12
Chloroform	101722	01/24/91	100	90	11
Tetrachloroethene	101722	01/24/91	90	80	12
Trichloroethene	101722	01/24/91	95	85	11

Table E5.14

POST-RI ROUND 14
LABORATORY SPIKES AND LABORATORY SPIKE DUPLICATES

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1,1-Trichloroethane	101766	02/04/91	105	100	5
1,1-Dichloroethene	101766	02/04/91	100	95	5
Bromodichloromethane	101766	02/04/91	115	110	4
Chlorobenzene	101766	02/04/91	110	115	4
Chloroform	101766	02/04/91	105	100	6
Tetrachloroethene	101766	02/04/91	110	100	10
Trichloroethene	101766	02/04/91	110	105	5
1,1,1-Trichloroethane	101766	02/04/91	80	80	0
1,1-Dichloroethene	101766	02/04/91	80	75	4
Bromodichloromethane	101766	02/04/91	82	97	15
Chlorobenzene	101766	02/04/91	95	95	0
Chloroform	101766	02/04/91	75	75	0
Tetrachloroethene	101766	02/04/91	60	65	1
Trichloroethene	101766	02/04/91	80	80	0
1,1,1-Trichloroethane	101877	02/11/91	100	100	0
1,1-Dichloroethene	101877	02/11/91	100	100	0
Bromodichloromethane	101877	02/11/91	100	100	0
Chlorobenzene	101877	02/11/91	100	95	5
Chloroform	101877	02/11/91	95	100	5
Tetrachloroethene	101877	02/11/91	105	95	10
Trichloroethene	101877	02/11/91	105	95	10
1,1,1-Trichloroethane	101835	02/07/91	105	100	5
1,1-Dichloroethene	101835	02/07/91	95	90	5
Bromodichloromethane	101835	02/07/91	105	100	5
Chlorobenzene	101835	02/07/91	80	85	6
Chloroform	101835	02/07/91	100	90	11

Table E5.14 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	101835	02/07/91	90	90	0
Trichloroethene	101835	02/07/91	95	90	5
1,1,1-Trichloroethane	101781	02/04/91	105	100	5
1,1-Dichloroethene	101781	02/04/91	100	95	5
Bromodichloromethane	101781	02/04/91	115	110	9
Chlorobenzene	101781	02/04/91	110	115	4
Chloroform	101781	02/04/91	105	100	6
Tetrachloroethene	101781	02/04/91	110	100	10
Trichloroethene	101781	02/04/91	110	105	5
1,1,1-Trichloroethane	101781	02/05/91	85	90	6
1,1-Dichloroethene	101781	02/05/91	75	80	6
Bromodichloromethane	101781	02/05/91	85	85	0
Chlorobenzene	101781	02/05/91	85	80	6
Chloroform	101781	02/05/91	90	90	0
Tetrachloroethene	101781	02/05/91	80	80	0
Trichloroethene	101781	02/05/91	95	95	0
1,1,1-Trichloroethane	101781	02/06/91	105	105	0
1,1-Dichloroethene	101781	02/06/91	100	95	5
Bromodichloromethane	101781	02/06/91	120	110	9
Chlorobenzene	101781	02/06/91	105	100	5
Chloroform	101781	02/06/91	108	108	0
Tetrachloroethene	101781	02/06/91	105	100	5
Trichloroethene	101781	02/06/91	100	95	5
1,1,1-Trichloroethane	101782	02/09/91	100	95	5
1,1-Dichloroethene	101782	02/09/91	100	100	0
Bromodichloromethane	101782	02/09/91	100	95	5
Chlorobenzene	101782	02/09/91	100	95	5
Chloroform	101782	02/09/91	100	100	6

Table E5.14 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	101782	02/09/91	95	80	17
Trichloroethene	101782	02/09/91	105	90	15
1,1,1-Trichloroethane	101764	02/02/91	80	75	6
1,1-Dichloroethene	101764	02/02/91	80	75	6
Bromodichloromethane	101764	02/02/91	82	97	17
Chlorobenzene	101764	02/02/91	95	95	0
Chloroform	101764	02/02/91	75	75	0
Tetrachloroethene	101764	02/02/91	60	65	8
Trichloroethene	101764	02/02/91	80	80	0
1,1,1-Trichloroethane	101867	02/11/91	100	100	0
1,1-Dichloroethene	101867	02/11/91	100	100	0
Bromodichloromethane	101867	02/11/91	100	100	0
Chlorobenzene	101867	02/11/91	100	95	5
Chloroform	101867	02/11/91	95	100	5
Tetrachloroethene	101867	02/11/91	105	95	10
Trichloroethene	101867	02/11/91	105	95	10
1,1,1-Trichloroethane	101867	02/11/91	100	100	0
1,1-Dichloroethene	101854	02/11/91	100	100	0
Bromodichloromethane	101854	02/11/91	100	100	0
Chlorobenzene	101854	02/11/91	100	95	5
Chloroform	101854	02/11/91	95	100	5
Tetrachloroethene	101854	02/11/91	105	95	10
Trichloroethene	101854	02/11/91	105	95	10
1,1,1-Trichloroethane	101855	02/08/91	105	100	5
1,1-Dichloroethene	101855	02/08/91	95	90	5
Bromodichloromethane	101855	02/08/91	105	100	5
Chlorobenzene	101855	02/08/91	80	85	6
Chloroform	101855	02/08/91	100	90	11

Table E5.14 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	101855	02/08/91	90	90	0
Trichloroethene	101855	02/08/91	95	90	5
1,1,1-Trichloroethane	101855	02/11/91	100	100	0
1,1-Dichloroethene	101855	11/21/90	100	100	0
Bromodichloromethane	101855	02/11/91	100	100	0
Chlorobenzene	101855	02/11/91	100	95	5
Chloroform	101855	02/11/91	95	100	5
Tetrachloroethene	101855	02/11/91	105	95	10
Trichloroethene	101855	02/11/91	105	95	10
1,1,1-Trichloroethane	101834	02/08/91	105	100	5
1,1-Dichloroethene	101834	02/08/91	95	90	5
Bromodichloromethane	101834	02/08/91	105	100	5
Chlorobenzene	101834	02/08/91	80	85	6
Chloroform	101834	02/08/91	100	90	11
Tetrachloroethene	101834	02/08/91	90	90	0
Trichloroethene	101834	02/08/91	95	90	5
1,1,1-Trichloroethane	101813	02/06/91	NA	NA	NA
1,1-Dichloroethene	101813	02/06/91	111	108	2
Bromodichloromethane	101813	02/06/91	NA	NA	NA
Chlorobenzene	101813	02/06/91	99	97	2
Chloroform	101813	02/06/91	NA	NA	NA
Tetrachloroethene	101813	02/06/91	97	98	0
Trichloroethene	101813	02/06/91	110	106	3
1,1,1-Trichloroethane	101812	02/07/91	NA	NA	NA
1,1-Dichloroethene	101812	02/07/91	125	110	13
Bromodichloromethane	101812	02/07/91	NA	NA	NA
Chlorobenzene	101812	02/07/91	111	103	7
Chloroform	101812	02/07/91	NA	NA	NA

Table E5.14 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Tetrachloroethene	101812	02/07/91	125	121	3
Trichloroethene	101812	02/07/91	116	108	7
1,1,1-Trichloroethane	101751	01/28/91	95	95	0
1,1-Dichloroethene	101751	01/28/91	85	95	11
Bromodichloromethane	101751	01/28/91	90	100	11
Chlorobenzene	101751	01/28/91	85	80	6
Chloroform	101751	01/28/91	85	85	0
Tetrachloroethene	101751	01/28/91	90	95	6
Trichloroethene	101751	01/28/91	95	95	0
1,1,1-Trichloroethane	101705	01/22/91	100	100	0
1,1-Dichloroethene	101705	01/22/91	105	105	0
Bromodichloromethane	101705	01/22/91	105	95	10
Chlorobenzene	101705	01/22/91	100	100	0
Chloroform	101705	01/22/91	110	105	5
Tetrachloroethene	101705	01/22/91	105	100	5
Trichloroethene	101705	01/22/91	110	100	10
1,1,1-Trichloroethane	101706	01/22/91	90	95	5
1,1-Dichloroethene	101706	01/22/91	100	105	5
Bromodichloromethane	101706	01/22/91	95	95	0
Chlorobenzene	101706	01/22/91	110	110	0
Chloroform	101706	01/22/91	105	105	0
Tetrachloroethene	101706	01/22/91	105	110	5
Trichloroethene	101706	01/22/91	100	100	0
1,1,1-Trichloroethane	101706	01/22/91	100	100	0
1,1-Dichloroethene	101706	01/22/91	105	105	0
Bromodichloromethane	101706	01/22/91	105	95	10
Chlorobenzene	101706	01/22/91	110	105	5

Table E5.14 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Chloroform	101706	01/22/91	100	100	0
Tetrachloroethene	101706	01/22/91	105	100	5
Trichloroethene	101706	01/22/91	110	100	10

Table E5.15

ROUND 14A
LABORATORY SPIKES AND LABORATORY SPIKE DUPLICATES

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
Benzene	M00713	5/8/91	94	101	7
Bromodichloromethane	M00713	5/8/91	89	84	6
Chlorobenzene	M00713	5/8/91	105	95	10
Chloroform	M00713	5/8/91	103	101	2
1,1-Dichloroethene	M00713	5/8/91	93	86	8
Tetrachloroethene	M00713	5/8/91	105	97	8
Toluene	M00713	5/8/91	95	100	5
1,1,1-Trichloroethane	M00713	5/8/91	105	98	7
Trichloroethene	M00713	5/8/91	86	81	6
Total Xylenes	M00713	5/8/91	82	87	6
1,1-Dichloroethene	104815	5/7/91	113	112	1
Trichloroethene	104815	5/7/91	115	113	2
Tetrachloroethene	104815	5/7/91	112	105	6
Benzene	104815	5/7/91	94	95	1
Bromodichloromethane	104815	5/7/91	111	110	1
Chloroform	104815	5/7/91	112	112	0
1,1,1-Trichloroethane	104815	5/7/91	108	106	2
Toluene	104815	5/7/91	102	98	4
Chlorobenzene	104815	5/7/91	113	110	3
M-Xylene	104815	5/7/91	95	89	7
1,1-Dichloroethene	105798	5/20/91	110	105	5
Trichloroethene	105798	5/20/91	100	110	10
Tetrachloroethene	105798	5/20/91	95	110	15
Benzene	105798	5/20/91	80	85	6
Bromodichloromethane	105798	5/20/91	95	105	10
Chloroform	105798	5/20/91	100	110	10

Table E5.15 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1,1-Trichloroethane	105798	5/20/91	95	105	10
Toluene	105798	5/20/91	80	90	12
Chlorobenzene	105798	5/20/91	85	95	11
M-Xylene	105798	5/20/91	80	85	6
1,1-Dichloroethene	105837	5/30/91	100	100	0
Trichloroethene	105837	5/30/91	95	90	5
Tetrachloroethene	105837	5/30/91	90	85	6
Benzene	105837	5/30/91	95	95	0
Bromodichloromethane	105837	5/30/91	90	90	0
Chloroform	105837	5/30/91	95	90	5
1,1,1-Trichloroethane	105837	5/30/91	90	85	6
Toluene	105837	5/30/91	90	85	6
Chlorobenzene	105837	5/30/91	90	85	6
M-Xylene	105837	5/30/91	95	90	5
1,1-Dichloroethene	106507	6/3/91	105	110	5
Trichloroethene	106507	6/3/91	80	85	6
Tetrachloroethene	106507	6/3/91	95	95	0
Bromodichloromethane	106507	6/3/91	85	85	0
Chloroform	106507	6/3/91	90	95	5
1,1,1-Trichloroethane	106507	6/3/91	85	90	6
Chlorobenzene	106507	6/3/91	80	80	0
1,1-Dichloroethene	106554	6/18/91	106	100	6
Trichloroethene	106554	6/18/91	98	92	7
Tetrachloroethene	106554	6/18/91	94	82	14
Bromodichloromethane	106554	6/18/91	92	99	8
Chloroform	106554	6/18/91	100	94	6
1,1,1-Trichloroethane	106554	6/18/91	101	98	3
Chlorobenzene	106554	6/18/91	88	87	1

Table E5.15 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1-Dichloroethene	106554	6/19/91	100	105	5
Trichloroethene	106554	6/19/91	102	105	3
Tetrachloroethene	106554	6/19/91	90	97	8
Bromodichloromethane	106554	6/19/91	107	112	5
Chloroform	106554	6/19/91	102	110	8
1,1,1-Trichloroethane	106554	6/19/91	105	108	3
Chlorobenzene	106554	6/19/91	82	90	9
1,1-Dichloroethene	106687	6/13/91	90	85	6
Trichloroethene	106687	6/13/91	95	90	5
Tetrachloroethene	106687	6/13/91	90	85	6
Bromodichloromethane	106687	6/13/91	95	90	5
Chloroform	106687	6/13/91	95	95	0
1,1,1-Trichloroethane	106687	6/13/91	90	85	6
Chlorobenzene	106687	6/13/91	90	85	5
1,1-Dichloroethene	106706	6/17/91	115	115	0
Trichloroethene	106706	6/17/91	115	105	9
Tetrachloroethene	106706	6/17/91	110	100	10
Bromodichloromethane	106706	6/17/91	120	115	4
Chloroform	106706	6/17/91	110	110	0
1,1,1-Trichloroethane	106706	6/17/91	115	110	4
Chlorobenzene	106706	6/17/91	100	95	5
1,1-Dichloroethene	106719	6/19/91	100	105	5
Trichloroethene	106719	6/19/91	102	105	3
Tetrachloroethene	106719	6/19/91	90	97	8
Bromodichloromethane	106719	6/19/91	107	112	5
Chloroform	106719	6/19/91	102	110	8
1,1,1-Trichloroethane	106719	6/19/91	105	108	3
Chlorobenzene	106719	6/19/91	82	90	9

Table E5.15 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1-Dichloroethene	106734	6/19/91	100	105	5
Trichloroethene	106734	6/19/91	102	105	3
Tetrachloroethene	106734	6/19/91	90	97	8
Bromodichloromethane	106734	6/19/91	107	112	5
Chloroform	106734	6/19/91	102	110	8
1,1,1-Trichloroethane	106734	6/19/91	105	108	3
Chlorobenzene	106734	6/19/91	82	90	9

Table E5.16

ROUND 15
LABORATORY SPIKES AND LABORATORY SPIKE DUPLICATES

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1-Dichloroethene	106747	6/20/91	87	93	6
Trichloroethene	106747	6/20/91	95	104	10
Tetrachloroethene	106747	6/20/91	92	103	11
Bromodichloromethane	106747	6/20/91	105	113	7
Chloroform	106747	6/20/91	98	107	9
1,1,1-Trichloroethane	106747	6/20/91	95	106	11
Chlorobenzene	106747	6/20/91	88	98	11
1,1-Dichloroethene	106748	6/20/91	87	93	6
Trichloroethene	106748	6/20/91	95	104	10
Tetrachloroethene	106748	6/20/91	92	103	11
Bromodichloromethane	106748	6/20/91	105	113	7
Chloroform	106748	6/20/91	98	107	9
1,1,1-Trichloroethane	106748	6/20/91	95	106	11
Chlorobenzene	106748	6/20/91	88	98	11
1,1-Dichloroethene	106757	6/20/91	87	93	6
Trichloroethene	106757	6/20/91	95	104	10
Tetrachloroethene	106757	6/20/91	92	103	11
Bromodichloromethane	106757	6/20/91	105	113	7
Chloroform	106757	6/20/91	98	107	9
1,1,1-Trichloroethane	106757	6/20/91	95	106	11
Chlorobenzene	106757	6/20/91	88	98	11
1,1-Dichloroethene	106766	6/25/91	88	92	4
Trichloroethene	106766	6/25/91	94	93	1
Tetrachloroethene	106766	6/25/91	89	85	5
Bromodichloromethane	106766	6/25/91	98	100	2
Chloroform	106766	6/25/91	98	100	2

Table E5.16 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1,1-Trichloroethane	106766	6/25/91	105	107	2
Chlorobenzene	106766	6/25/91	84	83	1
1,1-Dichloroethene	106864	7/9/91	86	86	0
Trichloroethene	106864	7/9/91	97	92	2
Tetrachloroethene	106864	7/9/91	87	87	0
Bromodichloromethane	106864	7/9/91	80	80	0
Chloroform	106864	7/9/91	93	95	5
1,1,1-Trichloroethane	106864	7/9/91	88	88	0
Chlorobenzene	106864	7/9/91	80	85	6
1,1-Dichloroethene	106886	7/5/91	105	105	0
Trichloroethene	106886	7/5/91	80	93	14
Tetrachloroethene	106886	7/5/91	110	114	4
Bromodichloromethane	106886	7/5/91	107	108	1
Chloroform	106886	7/5/91	114	117	2
1,1,1-Trichloroethane	106886	7/5/91	90	91	2
Chlorobenzene	106886	7/5/91	103	107	4
1,1-Dichloroethene	106908	7/9/91	93	95	2
Trichloroethene	106908	7/9/91	98	104	6
Tetrachloroethene	106908	7/9/91	92	94	2
Bromodichloromethane	106908	7/9/91	99	104	5
Chloroform	106908	7/9/91	104	108	4
1,1,1-Trichloroethane	106908	7/9/91	91	92	1
Chlorobenzene	106908	7/9/91	90	91	2
1,1-Dichloroethene	106945	7/5/91	109	102	6
Trichloroethene	106945	7/5/91	103	109	6
Tetrachloroethene	106945	7/5/91	91	90	5
Bromodichloromethane	106945	7/5/91	102	102	0
Chloroform	106945	7/5/91	115	111	4

Table E5.16 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1,1-Trichloroethane	106945	7/5/91	92	92	1
Chlorobenzene	106945	7/5/91	88	94	7
1,1-Dichloroethene	106975	7/10/91	90	90	0
Trichloroethene	106975	7/10/91	95	100	5
Tetrachloroethene	106975	7/10/91	90	90	0
Bromodichloromethane	106975	7/10/91	100	105	5
Chloroform	106975	7/10/91	100	105	5
1,1,1-Trichloroethane	106975	7/10/91	90	95	5
Chlorobenzene	106975	7/10/91	85	90	6
1,1-Dichloroethene	106976	7/5/91	105	105	0
Trichloroethene	106976	7/5/91	80	93	14
Tetrachloroethene	106976	7/5/91	110	114	4
Bromodichloromethane	106976	7/5/91	107	108	1
Chloroform	106976	7/5/91	114	117	2
1,1,1-Trichloroethane	106976	7/5/91	90	91	2
Chlorobenzene	106976	7/5/91	103	107	4
1,1-Dichloroethene	106976	7/9/91	86	86	0
Trichloroethene	106976	7/9/91	97	92	2
Tetrachloroethene	106976	7/9/91	87	87	0
Bromodichloromethane	106976	7/9/91	80	80	0
Chloroform	106976	7/9/91	93	95	5
1,1,1-Trichloroethane	106976	7/9/91	88	88	0
Chlorobenzene	106976	7/9/91	80	85	6
1,1-Dichloroethene	107508	7/10/91	80	80	0
Trichloroethene	107508	7/10/91	80	80	0
Tetrachloroethene	107508	7/10/91	80	80	0
Bromodichloromethane	107508	7/10/91	93	88	4
Chloroform	107508	7/10/91	97	87	7

Table E5.16 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1,1-Trichloroethane	107508	7/10/91	95	90	5
Chlorobenzene	107508	7/10/91	80	80	0
1,1-Dichloroethene	107509	7/10/91	80	80	0
Trichloroethene	107509	7/10/91	80	80	0
Tetrachloroethene	107509	7/10/91	80	80	0
Bromodichloromethane	107509	7/10/91	93	88	4
Chloroform	107509	7/10/91	97	87	7
1,1,1-Trichloroethane	107509	7/10/91	95	90	5
Chlorobenzene	107509	7/10/91	80	80	0
1,1-Dichloroethene	107511	7/10/91	115	110	4
Trichloroethene	107511	7/10/91	120	120	0
Tetrachloroethene	107511	7/10/91	115	120	4
Bromodichloromethane	107511	7/10/91	120	120	0
Chloroform	107511	7/10/91	110	105	5
1,1,1-Trichloroethane	107511	7/10/91	110	105	5
Chlorobenzene	107511	7/10/91	115	115	0
1,1-Dichloroethene	107521	7/12/91	110	115	4
Trichloroethene	107521	7/12/91	115	120	4
Tetrachloroethene	107521	7/12/91	110	115	4
Bromodichloromethane	107521	7/12/91	120	120	0
Chloroform	107521	7/12/91	115	120	4
1,1,1-Trichloroethane	107521	7/12/91	115	120	4
Chlorobenzene	107521	7/12/91	105	110	5
1,1-Dichloroethene	107522	7/12/91	110	115	4
Trichloroethene	107522	7/12/91	115	120	4
Tetrachloroethene	107522	7/12/91	110	115	4
Bromodichloromethane	107522	7/12/91	120	120	0
Chloroform	107522	7/12/91	115	120	4

Table E5.16 (Continued)

Compound	ATI ID	Date Analyzed	Percent Recovery	Duplicate Spike Percent Recovery	Relative Percent Difference
1,1,1-Trichloroethane	107522	7/12/91	115	120	4
Chlorobenzene	107522	7/12/91	105	110	5
1,1-Dichloroethene	107551	7/15/91	105	100	5
Trichloroethene	107551	7/15/91	100	100	0
Tetrachloroethene	107551	7/15/91	95	100	5
Bromodichloromethane	107551	7/15/91	105	105	0
Chloroform	107551	7/15/91	110	110	0
1,1,1-Trichloroethane	107551	7/15/91	120	115	4
Chlorobenzene	107551	7/15/91	90	95	5
1,1-Dichloroethene	107581	7/18/91	85	85	0
Trichloroethene	107581	7/18/91	97	97	0
Tetrachloroethene	107581	7/18/91	86	96	11
Bromodichloromethane	107581	7/18/91	95	95	0
Chloroform	107581	7/18/91	93	93	0
1,1,1-Trichloroethane	107581	7/18/91	88	93	5
Chlorobenzene	107581	7/18/91	84	94	11
Benzene	107581	7/16/91	87	91	4
Toluene	107581	7/16/91	85	85	0
Ethylbenzene	107581	7/16/91	84	84	0
Total Xylenes	107581	7/16/91	83	83	0
Methyl-t-butyl Ether	107581	7/16/91	100	105	5
1,1-Dichloroethene	107591	7/18/91	85	85	0
Trichloroethene	107591	7/18/91	97	97	0
Tetrachloroethene	107591	7/18/91	86	96	11
Bromodichloromethane	107591	7/18/91	95	95	0
Chloroform	107591	7/18/91	95	95	0
1,1,1-Trichloroethane	107591	7/18/91	88	93	5
Chlorobenzene	107591	7/18/91	84	94	11

Table E5.17

ROUND 15A
LABORATORY SPIKES AND LABORATORY SPIKE DUPLICATES

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Recovery	Relative Percent Difference
1,1-Dichloroethene	107917	7/30/91	95	95	0
Trichloroethene	107917	7/30/91	105	105	0
Tetrachloroethene	107917	7/30/91	110	100	0
Bromodichloromethane	107917	7/30/91	115	115	0
Chloroform	107917	7/30/91	105	110	5
1,1,1-Trichloroethane	107917	7/30/91	105	110	5
Chlorobenzene	107917	7/30/91	110	110	0
1,1-Dichloroethene	107938	8/1/91	95	100	5
Trichloroethene	107938	8/1/91	100	100	0
Tetrachloroethene	107938	8/1/91	100	95	5
Bromodichloromethane	107938	8/1/91	105	105	0
Chloroform	107938	8/1/91	95	100	5
1,1,1-Trichloroethane	107938	8/1/91	95	100	5
Chlorobenzene	107938	8/1/91	100	100	0
1,1-Dichloroethene	107961	8/1/91	95	100	5
Trichloroethene	107961	8/1/91	100	100	0
Tetrachloroethene	107961	8/1/91	100	95	5
Bromodichloromethane	107961	8/1/91	105	105	0
Chloroform	107961	8/1/91	95	100	5
1,1,1-Trichloroethane	107961	8/1/91	95	100	5
Chlorobenzene	107961	8/1/91	100	100	0
1,1-Dichloroethene	108510	8/6/91	100	100	0
Trichloroethene	108510	8/6/91	110	110	0
Tetrachloroethene	108510	8/6/91	115	115	0
Bromodichloromethane	108510	8/6/91	105	105	0
Chloroform	108510	8/6/91	105	105	0
1,1,1-Trichloroethane	108510	8/6/91	95	100	5
Chlorobenzene	108510	8/6/91	105	100	5

Table E5.18

ROUND 16
LABORATORY SPIKES AND LABORATORY SPIKE DUPLICATES

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Recovery	Relative Percent Difference
1,1-Dichloroethene	102621	02/22/91	90	90	0
Trichloroethene	102621	02/22/91	95	100	5
Tetrachloroethene	102621	02/22/91	90	95	5
Bromodichloromethane	102621	02/22/91	90	90	0
Chloroform	102621	02/22/91	95	95	0
1,1,1-Trichloroethane	102621	02/22/91	85	90	6
Chlorobenzene	102621	02/22/91	85	85	0
1,1-Dichloroethene	102635	02/20/91	95	100	5
Trichloroethene	102635	02/20/91	100	95	5
Tetrachloroethene	102635	02/20/91	90	85	6
Bromodichloromethane	102635	02/20/91	100	95	5
Chloroform	102635	02/20/91	100	100	0
1,1,1-Trichloroethane	102635	02/20/91	90	90	0
Chlorobenzene	102635	02/20/91	95	85	11
1,1-Dichloroethene	102678	02/19/91	110	100	10
Trichloroethene	102678	02/19/91	100	100	0
Tetrachloroethene	102678	02/19/91	95	100	5
Bromodichloromethane	102678	02/19/91	100	95	5
Chloroform	102678	02/19/91	105	100	5
1,1,1-Trichloroethane	102678	02/19/91	100	95	5
Chlorobenzene	102678	02/19/91	100	105	5
1,1-Dichloroethene	102694	02/18/91	106	100	6
Trichloroethene	102694	02/18/91	80	80	0
Chlorobenzene	102694	02/18/91	98	98	0
Toluene	102694	02/18/91	94	98	4
Benzene	102694	02/18/91	92	90	2

Table E5.18 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Recovery	Relative Percent Difference
1,1-Dichloroethene	103014	04/11/91	80	80	0
Trichloroethene	103014	04/11/91	100	100	0
Tetrachloroethene	103014	04/11/91	85	95	11
Bromodichloromethane	103014	04/11/91	105	110	5
Chloroform	103014	04/11/91	100	100	0
1,1,1-Trichloroethane	103014	04/11/91	80	80	0
Chlorobenzene	103014	04/11/91	95	110	15
1,1-Dichloroethene	103723	03/25/91	85	90	6
Trichloroethene	103723	03/25/91	100	95	5
Tetrachloroethene	103723	03/25/91	110	110	0
Bromodichloromethane	103723	03/25/91	100	100	0
Chloroform	103723	03/25/91	105	100	5
1,1,1-Trichloroethane	103723	03/25/91	120	110	9
Chlorobenzene	103723	03/25/91	105	105	0
1,1-Dichloroethene	103769	03/26/91	86	87	1
Trichloroethene	103769	03/26/91	109	109	0
Tetrachloroethene	103769	03/26/91	110	110	0
Bromodichloromethane	103769	03/26/91	103	107	4
Chloroform	103769	03/26/91	114	114	0
1,1,1-Trichloroethane	103769	03/26/91	117	120	3
Chlorobenzene	103769	03/26/91	94	94	0
1,1-Dichloroethene	103801	03/29/91	96	91	5
Trichloroethene	103801	03/29/91	99	94	5
Tetrachloroethene	103801	03/29/91	97	99	2
Bromodichloromethane	103801	03/29/91	91	103	12
Chloroform	103801	03/29/91	83	78	5
1,1,1-Trichloroethane	103801	03/29/91	99	89	11
Chlorobenzene	103801	03/29/91	91	89	3
1,1-Dichloroethene	103848	04/02/91	105	90	15
Trichloroethene	103848	04/02/91	105	115	9

Table E5.18 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Recovery	Relative Percent Difference
Tetrachloroethene	103848	04/02/91	110	110	0
Bromodichloromethane	103848	04/02/91	115	115	0
Chloroform	103848	04/02/91	100	95	5
1,1,1-Trichloroethane	103848	04/02/91	115	110	4
Chlorobenzene	103848	04/02/91	110	105	5
1,1-Dichloroethene	103893	04/02/91	105	90	15
Trichloroethene	103893	04/02/91	105	115	9
Tetrachloroethene	103893	04/02/91	110	110	0
Bromodichloromethane	103893	04/02/91	115	115	0
Chloroform	103893	04/02/91	100	95	5
1,1,1-Trichloroethane	103893	04/02/91	115	110	4
Chlorobenzene	103893	04/02/91	110	105	5
1,1-Dichloroethene	103924	04/08/91	95	95	0
Trichloroethene	103924	04/08/91	100	100	0
Tetrachloroethene	103924	04/08/91	95	95	0
Bromodichloromethane	103924	04/08/91	115	105	9
Chloroform	103924	04/08/91	105	95	10
1,1,1-Trichloroethane	103924	04/08/91	110	100	10
Chlorobenzene	103924	04/08/91	85	90	6
1,1-Dichloroethene	103980	04/10/91	80	90	12
Trichloroethene	103980	04/10/91	100	100	0
Tetrachloroethene	103980	04/10/91	95	100	5
Bromodichloromethane	103980	04/10/91	105	115	9
Chloroform	103980	04/10/91	95	100	5
1,1,1-Trichloroethane	103980	04/10/91	90	100	11
Chlorobenzene	103980	04/10/91	95	100	5
1,1-Dichloroethene	104513	04/11/91	80	80	0
Trichloroethene	104513	04/11/91	100	100	0
Tetrachloroethene	104513	04/11/91	85	95	11
Bromodichloromethane	104513	04/11/91	105	110	5

Table E5.18 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Recovery	Relative Percent Difference
Chloroform	104513	04/11/91	100	100	0
1,1,1-Trichloroethane	104513	04/11/91	80	80	0
Chlorobenzene	104513	04/11/91	95	110	15
1,1-Dichloroethene	104549	04/23/91	95	90	5
Trichloroethene	104549	04/23/91	92	87	5
Tetrachloroethene	104549	04/23/91	90	85	6
Bromodichloromethane	104549	04/23/91	85	85	0
Chloroform	104549	04/23/91	100	95	5
1,1,1-Trichloroethane	104549	04/23/91	90	85	6
Chlorobenzene	104549	04/23/91	90	85	6
1,1-Dichloroethene	104598	04/19/91	120	120	0
Trichloroethene	104598	04/19/91	110	115	4
Tetrachloroethene	104598	04/19/91	110	115	4
Bromodichloromethane	104598	04/19/91	110	115	4
Chloroform	104598	04/19/91	105	115	9
1,1,1-Trichloroethane	104598	04/19/91	110	115	14
Chlorobenzene	104598	04/19/91	110	115	4
1,1-Dichloroethene	104681	04/24/91	95	95	0
Trichloroethene	104681	04/24/91	95	105	10
Tetrachloroethene	104681	04/24/91	95	100	5
Bromodichloromethane	104681	04/24/91	95	100	5
Chloroform	104681	04/24/91	100	95	5
1,1,1-Trichloroethane	104681	04/24/91	100	105	5
Chlorobenzene	104681	04/24/91	95	100	5
1,1-Dichloroethene	104699	04/24/91	95	95	0
Trichloroethene	104699	04/24/91	95	105	10
Tetrachloroethene	104699	04/24/91	95	100	5
Bromodichloromethane	104699	04/24/91	95	100	5
Chloroform	104699	04/24/91	100	95	5

Table E5.18 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Recovery	Relative Percent Difference
1,1,1-Trichloroethane	104699	04/24/91	100	105	5
Chlorobenzene	104699	04/24/91	95	100	5
1,1-Dichloroethene	105678	05/21/91	120	105	3
Trichloroethene	105678	05/21/91	95	95	0
Tetrachloroethene	105678	05/21/91	95	100	5
Bromodichloromethane	105678	05/21/91	90	95	5
Chloroform	105678	05/21/91	110	105	5
1,1,1-Trichloroethane	105678	05/21/91	95	90	5
Chlorobenzene	105678	05/21/91	85	90	6
1,1-Dichloroethene	105897	05/30/91	100	100	0
Trichloroethene	105897	05/30/91	95	90	5
Tetrachloroethene	105897	05/30/91	90	85	6
Bromodichloromethane	105897	05/30/91	90	90	0
Chloroform	105897	05/30/91	95	90	5
1,1,1-Trichloroethane	105897	05/30/91	90	85	6
Chlorobenzene	105897	05/30/91	90	85	6
1,1-Dichloroethene	106617	06/20/91	87	93	6
Trichloroethene	106617	06/20/91	95	104	10
Tetrachloroethene	106617	06/20/91	92	103	11
Bromodichloromethane	106617	06/20/91	105	113	7
Chloroform	106617	06/20/91	98	107	9
1,1,1-Trichloroethane	106617	06/20/91	95	106	11
Chlorobenzene	106617	06/20/91	88	98	11
1,1-Dichloroethene	106978	07/10/91	90	90	0
Trichloroethene	106978	07/10/91	95	100	5
Tetrachloroethene	106978	07/10/91	90	90	0
Bromodichloromethane	106978	07/10/91	100	105	5
Chloroform	106978	07/10/91	100	100	5

Table E5.18 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Recovery	Relative Percent Difference
1,1,1-Trichloroethane	106978	07/10/91	90	95	5
Chlorobenzene	106978	07/10/91	85	90	6
1,1-Dichloroethene	107565	07/16/91	95	85	11
Trichloroethene	107565	07/16/91	105	95	10
Tetrachloroethene	107565	07/16/91	100	95	5
Bromodichloromethane	107565	07/16/91	105	95	10
Chloroform	107565	07/16/91	110	100	10
1,1,1-Trichloroethane	107565	07/16/91	115	100	14
Chlorobenzene	107565	07/16/91	90	90	0
1,1-Dichloroethene	112654	12/10/91	100	95	5
Trichloroethene	112654	12/10/91	105	100	5
Tetrachloroethene	112654	12/10/91	100	100	0
Bromodichloromethane	112654	12/10/91	110	110	0
Chloroform	112654	12/10/91	115	115	0
1,1,1-Trichloroethane	112654	12/10/91	115	115	0
Chlorobenzene	112654	12/10/91	110	105	5
1,1-Dichloroethene	112886	12/21/91	85	85	0
Trichloroethene	112886	12/21/91	90	90	0
Tetrachloroethene	112886	12/21/91	95	90	5
Bromodichloromethane	112886	12/21/91	90	90	0
Chloroform	112886	12/21/91	90	105	15
1,1,1-Trichloroethane	112886	12/21/91	90	90	0
Chlorobenzene	112886	12/21/91	100	100	0
1,1-Dichloroethene	111599	11/11/91	90	95	5
Trichloroethene	111599	11/11/91	105	110	5
Tetrachloroethene	111599	11/11/91	105	105	0
Bromodichloromethane	111599	11/11/91	105	115	9
Chloroform	111599	11/11/91	100	105	5

Table E5.18 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Recovery	Relative Percent Difference
1,1,1-Trichloroethane	111599	11/11/91	105	105	0
Chlorobenzene	111599	11/11/91	100	105	0
1,1-Dichloroethene	112588	12/9/91	95	95	0
Trichloroethene	112588	12/9/91	105	105	0
Tetrachloroethene	112588	12/9/91	110	105	5
Bromodichloromethane	112588	12/9/91	115	115	0
Chloroform	112588	12/9/91	115	115	0
1,1,1-Trichloroethane	112588	12/9/91	120	120	0
Chlorobenzene	112588	12/9/91	110	105	5
1,1-Dichloroethene	112589	12/6/91	80	85	6
Trichloroethene	112589	12/6/91	90	95	5
Tetrachloroethene	112589	12/6/91	85	95	11
Bromodichloromethane	112589	12/6/91	100	100	0
Chloroform	112589	12/6/91	95	95	0
1,1,1-Trichloroethane	112589	12/6/91	100	100	0
Chlorobenzene	112589	12/6/91	90	95	5
1,1-Dichloroethene	110690	10/16/91	85	85	0
Trichloroethene	110690	10/16/91	90	90	0
Tetrachloroethene	110690	10/16/91	85	90	6
Bromodichloromethane	110690	10/16/91	90	95	5
Chloroform	110690	10/16/91	90	95	5
1,1,1-Trichloroethane	110690	10/16/91	85	90	6
Chlorobenzene	110690	10/16/91	80	90	12
1,1-Dichloroethene	110869	10/28/91	90	90	0
Trichloroethene	110869	10/28/91	115	115	0
Tetrachloroethene	110869	10/28/91	95	95	0
Bromodichloromethane	110869	10/28/91	110	105	5
Chloroform	110869	10/28/91	120	120	0
1,1,1-Trichloroethane	110869	10/28/91	115	115	0
Chlorobenzene	110869	10/28/91	95	95	0

Table E5.18 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Recovery	Relative Percent Difference
1,1-Dichloroethene	111581	11/9/91	105	110	5
Trichloroethene	111581	11/9/91	100	105	5
Tetrachloroethene	111581	11/9/91	105	105	0
Bromodichloromethane	111581	11/9/91	100	100	0
Chloroform	111581	11/9/91	110	110	0
1,1,1-Trichloroethane	111581	11/9/91	105	110	5
Chlorobenzene	111581	11/9/91	100	100	0
1,1-Dichloroethene	108907	8/30/91	103	88	6
Trichloroethene	108907	8/30/91	93	98	5
Tetrachloroethene	108907	8/30/91	89	94	5
Bromodichloromethane	108907	8/30/91	95	100	5
Chloroform	108907	8/30/91	84	84	0
1,1,1-Trichloroethane	108907	8/30/91	88	93	5
Chlorobenzene	108907	8/30/91	85	90	6
1,1-Dichloroethene	109723	9/18/91	95	105	10
Trichloroethene	109723	9/18/91	95	105	10
Tetrachloroethene	109723	9/18/91	115	115	0
Bromodichloromethane	109723	9/18/91	105	115	9
Chloroform	109723	9/18/91	110	115	4
1,1,1-Trichloroethane	109723	9/18/91	105	120	13
Chlorobenzene	109723	9/18/91	110	115	4
1,1-Dichloroethene	109930	9/30/91	81	86	6
Trichloroethene	109930	9/30/91	110	115	3
Tetrachloroethene	109930	9/30/91	115	115	0
Bromodichloromethane	109930	9/30/91	110	120	9
Chloroform	109930	9/30/91	110	115	4
1,1,1-Trichloroethane	109930	9/30/91	115	120	4
Chlorobenzene	109930	9/30/91	110	110	0
1,1-Dichloroethene	107790	7/23/91	95	95	0
Trichloroethene	107790	7/23/91	100	100	0

Table E5.18 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Recovery	Relative Percent Difference
Tetrachloroethene	107790	7/23/91	105	100	5
Bromodichloromethane	107790	7/23/91	95	95	0
Chloroform	107790	7/23/91	95	95	0
1,1,1-Trichloroethane	107790	7/23/91	85	85	0
Chlorobenzene	107790	7/23/91	95	90	5
1,1-Dichloroethene	108524	8/5/91	110	110	0
Trichloroethene	108524	8/5/91	106	116	8
Tetrachloroethene	108524	8/5/91	90	105	15
Bromodichloromethane	108524	8/5/91	105	110	5
Chloroform	108524	8/5/91	105	110	5
1,1,1-Trichloroethane	108524	8/5/91	100	105	5
Chlorobenzene	108524	8/5/91	85	100	16
1,1-Dichloroethene	108719	8/20/91	85	95	11
Trichloroethene	108719	8/20/91	95	100	5
Tetrachloroethene	108719	8/20/91	85	95	11
Bromodichloromethane	108719	8/20/91	110	115	4
Chloroform	108719	8/20/91	110	115	4
1,1,1-Trichloroethane	108719	8/20/91	115	115	0
Chlorobenzene	108719	8/20/91	85	90	6

Table E5.19

LABORATORY SPIKES AND LABORATORY SPIKE DUPLICATES ROUND 17

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Percent Recovery	Relative Percent Difference
1,1-Dichloroethene	109602	9/12/91	95	95	0
Trichloroethene	109602	9/12/91	95	90	5
Tetrachloroethene	109602	9/12/91	90	80	12
Benzene	109602	9/12/91	100	100	0
Bromodichloromethane	109602	9/12/91	100	95	5
Chloroform	109602	9/12/91	100	95	5
1,1,1-Trichloroethane	109602	9/12/91	90	90	0
Toluene	109602	9/12/91	81	81	0
Chlorobenzene	109602	9/12/91	90	85	6
m-Xylene	109602	9/12/91	92	88	4
1,1-Dichloroethene	109673	9/20/91	105	110	5
Trichloroethene	109673	9/20/91	115	115	0
Tetrachloroethene	109673	9/20/91	115	110	4
Benzene	109673	9/20/91	115	115	0
Bromodichloromethane	109673	9/20/91	120	120	0
Chloroform	109673	9/20/91	110	110	0
1,1,1-Trichloroethane	109673	9/20/91	105	105	0
Toluene	109673	9/20/91	115	110	4
Chlorobenzene	109673	9/20/91	120	115	4
m-Xylene	109673	9/20/91	115	110	4
1,1-Dichloroethene	109701	9/16/91	95	100	5
Trichloroethene	109701	9/16/91	100	100	0
Tetrachloroethene	109701	9/16/91	110	105	5
Benzene	109701	9/16/91	100	100	0
Bromodichloromethane	109701	9/16/91	100	95	5
Chloroform	109701	9/16/91	110	110	0
1,1,1-Trichloroethane	109701	9/16/91	110	110	0

Table E5.19 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Percent Recovery	Relative Percent Difference
Toluene	109701	9/16/91	100	100	0
Chlorobenzene	109701	9/16/91	110	105	5
m-Xylene	109701	9/16/91	90	85	6
1,1-Dichloroethene	109724	9/16/91	95	100	5
Trichloroethene	109724	9/16/91	100	100	0
Tetrachloroethene	109724	9/16/91	110	105	5
Benzene	109724	9/16/91	100	100	0
Bromodichloromethane	109724	9/16/91	100	95	5
Chloroform	109724	9/16/91	110	110	0
1,1,1-Trichloroethane	109724	9/16/91	110	110	0
Toluene	109724	9/16/91	100	100	0
Chlorobenzene	109724	9/16/91	110	105	5
m-Xylene	109724	9/16/91	90	85	6
1,1-Dichloroethene	109747	9/20/91	105	110	5
Trichloroethene	109747	9/20/91	115	115	0
Tetrachloroethene	109747	9/20/91	115	110	4
Benzene	109747	9/20/91	115	115	0
Bromodichloromethane	109747	9/20/91	120	120	0
Chloroform	109747	9/20/91	110	110	0
1,1,1-Trichloroethane	109747	9/20/91	105	105	0
Toluene	109747	9/20/91	115	110	4
Chlorobenzene	109747	9/20/91	120	115	4
m-Xylene	109747	9/20/91	115	110	4
1,1-Dichloroethene	109756	9/19/91	85	80	6
Trichloroethene	109756	9/19/91	110	105	5
Tetrachloroethene	109756	9/19/91	110	105	5
Benzene	109756	9/19/91	95	90	5
Bromodichloromethane	109756	9/19/91	115	105	9
Chloroform	109756	9/19/91	110	105	5

Table E5.19 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Percent Recovery	Relative Percent Difference
1,1,1-Trichloroethane	109756	9/19/91	110	110	0
Toluene	109756	9/19/91	90	90	0
Chlorobenzene	109756	9/19/91	110	105	5
m-Xylene	109756	9/19/91	80	80	0
1,1-Dichloroethene	109780	9/19/91	85	80	6
Trichloroethene	109780	9/19/91	110	105	5
Tetrachloroethene	109780	9/19/91	110	105	5
Benzene	109780	9/19/91	95	90	5
Bromodichloromethane	109780	9/19/91	115	105	9
Chloroform	109780	9/19/91	110	105	5
1,1,1-Trichloroethane	109780	9/19/91	110	110	0
Toluene	109780	9/19/91	90	90	0
Chlorobenzene	109780	9/19/91	110	105	5
m-Xylene	109780	9/19/91	80	80	0
1,1-Dichloroethene	109780	9/19/91	85	80	6
Trichloroethene	109780	9/19/91	110	105	5
Tetrachloroethene	109780	9/19/91	110	105	5
Bromodichloromethane	109780	9/19/91	115	105	9
Chloroform	109780	9/19/91	110	105	5
1,1,1-Trichloroethane	109780	9/19/91	110	110	0
Chlorobenzene	109780	9/19/91	110	105	5
1,1-Dichloroethene	109802	9/23/91	95	100	5
Trichloroethene	109802	9/23/91	95	95	0
Tetrachloroethene	109802	9/23/91	100	95	5
Benzene	109802	9/23/91	100	105	5
Bromodichloromethane	109802	9/23/91	100	105	5
Chloroform	109802	9/23/91	105	100	5
1,1,1-Trichloroethane	109802	9/23/91	110	105	5
Toluene	109802	9/23/91	80	85	6

Table E5.19 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Percent Recovery	Relative Percent Difference
Chlorobenzene	109802	9/23/91	100	95	5
m-Xylene	109802	9/23/91	80	85	6
1,1-Dichloroethene	109826	9/24/91	90	90	0
Trichloroethene	109826	9/24/91	90	90	0
Tetrachloroethene	109826	9/24/91	85	85	0
Benzene	109826	9/24/91			
Bromodichloromethane	109826	9/24/91	95	95	0
Chloroform	109826	9/24/91	95	95	0
1,1,1-Trichloroethane	109826	9/24/91	85	85	0
Toluene	109826	9/24/91			
Chlorobenzene	109826	9/24/91	90	85	6
m-Xylene	109826	9/24/91			
1,1-Dichloroethene	109826	9/24/91	90	90	0
Trichloroethene	109826	9/24/91	90	90	0
Tetrachloroethene	109826	9/24/91	85	85	0
Bromodichloromethane	109826	9/24/91	80	80	0
Chloroform	109826	9/24/91	95	95	0
1,1,1-Trichloroethane	109826	9/24/91	95	95	0
Chlorobenzene	109826	9/24/91	85	85	0
Toluene	109826	9/24/91	85	85	0
1,1-Dichloroethene	109845	9/23/91	95	100	5
Trichloroethene	109845	9/23/91	95	95	0
Tetrachloroethene	109845	9/23/91	100	95	5
Benzene	109845	9/23/91	100	105	5
Bromodichloromethane	109845	9/23/91	100	105	5
Chloroform	109845	9/23/91	105	100	5
1,1,1-Trichloroethane	109845	9/23/91	110	105	5
Toluene	109845	9/23/91	80	85	6
Chlorobenzene	109845	9/23/91	100	95	5

Table E5.19 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Percent Recovery	Relative Percent Difference
m-Xylene	109845	9/23/91	80	85	6
1,1-Dichloroethene	109888	9/27/91	95	90	5
Trichloroethene	109888	9/27/91	110	110	0
Tetrachloroethene	109888	9/27/91	110	105	5
Benzene	109888	9/27/91			
Bromodichloromethane	109888	9/27/91	115	110	4
Chloroform	109888	9/27/91	105	105	0
1,1,1-Trichloroethane	109888	9/27/91	115	115	0
Toluene	109888	9/27/91			
Chlorobenzene	109888	9/27/91	120	115	4
m-Xylene	109888	9/27/91			
1,1-Dichloroethene	109931	10/2/91	90	85	6
Trichloroethene	109931	10/2/91	115	115	0
Tetrachloroethene	109931	10/2/91	115	115	0
Benzene	109931	10/2/91	105	100	5
Bromodichloromethane	109931	10/2/91	120	120	0
Chloroform	109931	10/2/91	110	105	5
1,1,1-Trichloroethane	109931	10/2/91	120	115	4
Toluene	109931	10/2/91	105	105	0
Chlorobenzene	109931	10/2/91	115	115	0
m-Xylene	109931	10/2/91	95	90	5
1,1-Dichloroethene	109931	10/2/91	90	85	6
Trichloroethene	109931	10/2/91	115	115	0
Tetrachloroethene	109931	10/2/91	115	115	0
Bromodichloromethane	109931	10/2/91	120	120	0
Chloroform	109931	10/2/91	110	105	5
1,1,1-Trichloroethane	109931	10/2/91	120	115	4
Chlorobenzene	109931	10/2/91	115	115	0
1,1-Dichloroethene	111711	11/19/91	110	110	0

Table E5.19 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Percent Recovery	Relative Percent Difference
Trichloroethene	111711	11/19/91	100	100	0
Tetrachloroethene	111711	11/19/91	115	110	4
Benzene	111711	11/19/91			
Bromodichloromethane	111711	11/19/91	100	95	5
Chloroform	111711	11/19/91	110	110	0
1,1,1-Trichloroethane	111711	11/19/91	110	110	0
Toluene	111711	11/19/91			
Chlorobenzene	111711	11/19/91	105	100	5
m-Xylene	111711	11/19/91			
1,1-Dichloroethene	111739	11/20/91	115	115	0
Trichloroethene	111739	11/20/91	110	110	0
Tetrachloroethene	111739	11/20/91	115	115	0
Bromodichloromethane	111739	11/20/91	110	110	0
Chloroform	111739	11/20/91	110	115	4
1,1,1-Trichloroethane	111739	11/20/91	115	115	0
Chlorobenzene	111739	11/20/91	115	115	0
1,1-Dichloroethene	111801	12/2/91	95	95	0
Trichloroethene	111801	12/2/91	110	115	4
Tetrachloroethene	111801	12/2/91	110	115	4
Benzene	111801	12/2/91	85	85	0
Bromodichloromethane	111801	12/2/91	115	115	0
Chloroform	111801	12/2/91	120	120	0
1,1,1-Trichloroethane	111801	12/2/91	115	120	4
Toluene	111801	12/2/91	105	105	0
Chlorobenzene	111801	12/2/91	115	115	0
m-Xylene	111801	12/2/91	100	95	5
1,1-Dichloroethene	111801	12/2/91	95	95	0
Trichloroethene	111801	12/2/91	110	115	4
Tetrachloroethene	111801	12/2/91	110	115	4

Table E5.19 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Percent Recovery	Relative Percent Difference
Bromodichloromethane	111801	12/2/91	115	115	0
Chloroform	111801	12/2/91	120	120	0
1,1,1-Trichloroethane	111801	12/2/91	115	120	4
Chlorobenzene	111801	12/2/91	115	115	0
1,1-Dichloroethene	111823	11/26/91	110	100	10
Trichloroethene	111823	11/26/91	105	105	0
Tetrachloroethene	111823	11/26/91	105	105	0
Benzene	111823	11/26/91	100	95	5
Bromodichloromethane	111823	11/26/91	105	105	0
Chloroform	111823	11/26/91	115	115	0
1,1,1-Trichloroethane	111823	11/26/91	110	110	0
Toluene	111823	11/26/91	95	95	0
Chlorobenzene	111823	11/26/91	105	110	5
m-Xylene	111823	11/26/91	90	90	0
1,1-Dichloroethene	111823	11/26/91	100	100	0
Trichloroethene	111823	11/26/91	110	110	0
Tetrachloroethene	111823	11/26/91	105	105	0
Benzene	111823	11/26/91	95	95	0
Bromodichloromethane	111823	11/26/91	105	110	5
Chloroform	111823	11/26/91	110	110	0
1,1,1-Trichloroethane	111823	11/26/91	110	105	5
Toluene	111823	11/26/91	95	95	0
Chlorobenzene	111823	11/26/91	105	100	5
m-Xylene	111823	11/26/91	90	85	6
1,1-Dichloroethene	111843	12/2/91	95	95	0
Trichloroethene	111843	12/2/91	110	115	4
Tetrachloroethene	111843	12/2/91	110	115	4
Benzene	111843	12/2/91	85	85	0
Bromodichloromethane	111843	12/2/91	115	115	0

Table E5.19 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Percent Recovery	Relative Percent Difference
Chloroform	111843	12/2/91	120	120	0
1,1,1-Trichloroethane	111843	12/2/91	115	120	4
Toluene	111843	12/2/91	105	105	0
Chlorobenzene	111843	12/2/91	115	115	0
m-Xylene	111843	12/2/91	110	95	5

Table E5.20

LABORATORY SPIKES AND LABORATORY SPIKE DUPLICATES ROUND 18

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Percent Recovery	Relative Percent Difference
1,1-Dichloroethene	110893	10/29/91	115	115	0
Trichloroethene	110893	10/29/91	110	105	5
Tetrachloroethene	110893	10/29/91	120	115	4
Bromodichloromethane	110893	10/29/91	115	110	4
Chloroform	110893	10/29/91	115	120	4
1,1,1-Trichloroethane	110893	10/29/91	120	115	4
Chlorobenzene	110893	10/29/91	120	110	9
1,1-Dichloroethene	111709	11/19/91	120	115	4
Trichloroethene	111709	11/19/91	120	120	0
Tetrachloroethene	111709	11/19/91	115	110	4
Bromodichloromethane	111709	11/19/91	100	95	5
Chloroform	111709	11/19/91	110	110	0
1,1,1-Trichloroethane	111709	11/19/91	115	110	4
Chlorobenzene	111709	11/19/91	105	100	5
1,1-Dichloroethene	111758	11/21/91	95	100	5
Trichloroethene	111758	11/21/91	110	105	5
Tetrachloroethene	111758	11/21/91	120	110	9
Bromodichloromethane	111758	11/21/91	120	115	4
Chloroform	111758	11/21/91	115	115	0
1,1,1-Trichloroethane	111758	11/21/91	120	120	0
Chlorobenzene	111758	11/21/91	110	100	10
1,1-Dichloroethene	111769	11/22/91	85	100	16
Trichloroethene	111769	11/22/91	100	115	14
Tetrachloroethene	111769	11/22/91	110	120	9
Bromodichloromethane	111769	11/22/91	105	120	13
Chloroform	111769	11/22/91	100	115	14
1,1,1-Trichloroethane	111769	11/22/91	105	120	13

Table E5.20 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Percent Recovery	Relative Percent Difference
Chlorobenzene	111769	11/22/91	100	110	10
1,1-Dichloroethene	111796	11/26/91	105	105	0
Trichloroethene	111796	11/26/91	106	106	0
Tetrachloroethene	111796	11/26/91	115	115	0
Bromodichloromethane	111796	11/26/91	110	105	5
Chloroform	111796	11/26/91	115	115	0
1,1,1-Trichloroethane	111796	11/26/91	115	115	0
Chlorobenzene	111796	11/26/91	105	105	0
1,1-Dichloroethene	111796	11/26/91	105	105	0
Trichloroethene	111796	11/26/91	110	115	4
Tetrachloroethene	111796	11/26/91	110	120	9
Bromodichloromethane	111796	11/26/91	110	114	4
Chloroform	111796	11/26/91	115	120	4
1,1,1-Trichloroethane	111796	11/26/91	120	120	0
Chlorobenzene	111796	11/26/91	105	110	5
1,1-Dichloroethene	111801	12/2/91	95	95	0
Trichloroethene	111801	12/2/91	110	115	4
Tetrachloroethene	111801	12/2/91	110	115	4
Benzene	111801	12/2/91	85	85	0
Bromodichloromethane	111801	12/2/91	115	115	0
Chloroform	111801	12/2/91	120	120	0
1,1,1-Trichloroethane	111801	12/2/91	115	120	4
Toluene	111801	12/2/91	105	105	0
Chlorobenzene	111801	12/2/91	115	115	0
m-Xylene	111801	12/2/91	100	95	0
1,1-Dichloroethene	111801	12/2/91	95	95	0
Trichloroethene	111801	12/2/91	110	115	4
Tetrachloroethene	111801	12/2/91	110	115	4
Bromodichloromethane	111801	12/2/91	115	115	0

Table E5.20 (Continued)

Compound	Well	Date Analyzed	Percent Recovery	Duplicate Percent Recovery	Relative Percent Difference
Chloroform	111801	12/2/91	120	120	0
1,1,1-Trichloroethane	111801	12/2/91	115	120	4
Chlorobenzene	111801	12/2/91	115	115	0
1,1-Dichloroethene	111822	12/2/91	95	95	0
Trichloroethene	111822	12/2/91	110	115	4
Tetrachloroethene	111822	12/2/91	110	115	4
Bromodichloromethane	111822	12/2/91	115	115	0
Chloroform	111822	12/2/91	120	120	0
1,1,1-Trichloroethane	111822	12/2/91	115	120	4
Chlorobenzene	111822	12/2/91	115	115	0
1,1-Dichloroethene	112624	12/12/91	95	95	0
Trichloroethene	112624	12/12/91	105	110	5
Tetrachloroethene	112624	12/12/91	105	105	0
Bromodichloromethane	112624	12/12/91	110	115	4
Chloroform	112624	12/12/91	110	105	5
1,1,1-Trichloroethane	112624	12/12/91	110	105	0
Chlorobenzene	112624	12/12/91	95	100	5
1,1-Dichloroethene	112681	12/17/91	85	85	0
Trichloroethene	112681	12/17/91	106	101	5
Tetrachloroethene	112681	12/17/91	110	100	10
Bromodichloromethane	112681	12/17/91	110	110	0
Chloroform	112681	12/17/91	108	103	5
1,1,1-Trichloroethane	112681	12/17/91	110	110	0
Chlorobenzene	112681	12/17/91	110	170	0

Table E5.21

SUMMARY OF INORGANIC MATRIX SPIKE PERCENT RECOVERIES EXCEEDING 75 TO 125 PERCENT RANGE

Round	Constituent	Percent Recorded	Qualified Sample Results
9	Chloride	70	DM 107
9	Sulfate	70	MP 16-A, MP 51-B, MP 52-B, DM 111, MP 36-B, MP 9-A, MP 3-B
10	Lead	35	DM 107
10	Selenium	58	MP 16-A
10	Selenium	50	MP 51-B
10	Selenium	48	DM 117
10	Selenium	44	DM 104-146
10	Selenium	44	DM 122B
10	Silver	55	MP 3-B
10	Silver	46	DM 104-79
11	Hexavalent Chromium	70	DM 120
15	Lead	66	DM 504
15	Selenium	68	DM 107, DM 509
15	Selenium	68	DM 124, DM 503, DM 120
15A	Arsenic	70	DM 504-7200
16	Lead	54	DM 701
16	Selenium	68	DM 701
17	Lead	70, 56	DM 313, DM 312, DM 311-B, DM 310, DM 307, DM 307 dup, DM 306
17	Selenium	71	DM 604, DM 602, DM 602 dup
17	Selenium	70	MP 9-B
17	Arsenic	70	DM 603-115, DM 601-85, DM 605-290
17	Lead	72	DM 603-115, DM 601-85, DM 605-290
17	Lead	72	DM 308, DM 309, DM 305
18	Lead	74	DM 602, DM 604

Table E5.22

SUMMARY OF SURROGATE RECOVERIES EXCEEDING 80 TO 120 PERCENT RANGE

Sample	Round	Surrogate Percent Recovered	Compounds Affected
DM 104-079	8	129	Trichloroethene, Trichlorofluoromethane
MP 20-C	14	74	All Volatile Organics
MP 20-B	14	72	All Volatile Organics
MP 11-B	14	135	1,3-Dichlorobenzene; 1,1-Dichloroethane; Tetrachloroethene; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane; Trichloroethene
MP 11-C	14	135	1,1-Dichloroethane; Tetrachloroethene; Trichloroethene
DM 122-B	14	134	Chlorobenzene; Chloroform; 1,2 and 1,4-Dichlorobenzene; 1,1-Dichloroethane; 1,2-Dichlorethene (total); Tetrachloroethene; 1,1,1-Trichloroethane; Trichloroethene; Trichlorotrifluoroethane
DM 120	14	134	1,1-Dichloroethane; 1,2-Dichloroethene (total); Tetrachloroethene; Trichloroethene
DM 120 FD	14	131	1,1-Dichloroethane; 1,2-Dichloroethene (total); Tetrachloroethene; 1,1,1-Trichloroethane; Trichloroethene
DM 107	14	134	Bromodichloromethane; Chloroform; Dibromochloromethane; 1,2 and 1,4-Dichlorobenzene; 1,1-Dichloroethane; 1,2-Dichloroethene (total); Tetrachloroethene; 1,1,1-Trichloroethane; Trichloroethene
DM 2010B1	16	75	All volatile organics

FD = Field Duplicate

Table E5.23

SUMMARY OF FIELD SPIKE ANALYSIS ROUND 8

Sample	Sample Date	Sample Code	Constituent	Result (ppb)	ATI ID	Original Sample Result (ppb)	Duplicate Sample Result (ppb)	Spike (ppb)	Percent Recovery
MP 49-B	05/22/87	Y	TCE	19,300	9758-3	9,700	9,800	10,000	96
Spiked Blank	05/22/87	K	TCE	6,800	9758-5			10,000	68
Spiked Blank Duplicate	05/22/87	X	TCE	6,600	9758-5			10,000	66
DM 103-178	06/08/87	Y	TCE	70,100	9822-7	16,700	30,900	50,000	93
Spiked Blank	06/08/87	X	TCE	27,600	9822-9			50,000	55
DM 107	05/27/87	Y	TCE	1,125	9769-5	265	286	1,000	85
Spiked Blank	05/27/87	X	TCE	842	9769-7			1,000	84
DM 106-118	06/04/87	Y	TCE	8,960	9812-8	1,970	3,890	10,000	70
DM 104-040	06/03/87	Y	TCE	20.6	9805-8	3.4	3.3	20	86.5
Spiked Blank	06/03/87	X	TCE	19.0	9805-10			20	95
DM 104-079	06/03/87	Y	TCE	307	9805-13	2.1	2.1	500	61
Spiked Blank	06/03/87	X	TCE	321	9505-15			500	64

Data From: File 09448-012-033 ATI WQ Report
Chain-of-Custody

Table E5.24

SUMMARY OF FIELD SPIKE ANALYSIS ROUND 9

Sample	Sample Date	Sample Code	Constituent	Result (ppb)	ATI ID	Original Sample Result (ppb)	Spike (ppb)	Percent Recovery
DM 103-178	12/01/87	Y	TCE	57,500	8715855	8,930	50,000	97
DM 103-178	12/01/87	X	TCE	45,800	8715857		50,000	92
DM 104-040	12/01/87	Y	TCE	24.00	8715841	0.91	20	115
DM 104-040	12/01/87	X	TCE	25.39	8715843		20	126
DM 104-079	11/30/87	Y	TCE	341	8715845	<2.4	500	68
DM 104-079	11/30/87	X	TCE	501	8715847		500	100
DM 106-118	01/13/88	Y	TCE	4,850	8800467	1,400	NA	
DM 106-118	01/13/88	X	TCE	3,470	8800469		NA	
DM 107	11/20/87	Y	TCE	1,520	8715300	367	1,000	115
DM 107	11/20/87	X	TCE	1,010	8715302		1,000	101
MP 49-B	11/19/87	Y	TCE	14,600	8715252	4,430	10,000	102
MP 49-B	11/19/87	X	TCE	8,790	8715254		10,000	88

Data From: File 09448-012-033 ATI WQ Report
Chain-of-Custody
NA - Not Available

Table E5.25

SUMMARY OF FIELD SPIKE ANALYSIS ROUND 10

Sample	Sample Date	Sample Code	Constituent	Result (ppb)	ATI ID	Original Sample Result (ppb)	Duplicate Sample Result (ppb)	Spike (ppb)	Percent Recovery
DM 103-178	09/26/88	Y	TCE	42,000	8817717	6,000	7,200	50,000	71
DM 103-178	09/26/88	X	TCE	48,000	8817718			50,000	96
DM 104-079	09/20/88	R	TCE	30	8817396	240		500	42
DM 104-5	09/20/88	S	TCE	340	8817397			500	68
DM 104-079	09/28/88	Y	TCE	500	8817861	180		500	64
DM 104-079	09/28/88	X	TCE	480	8817862			500	96
DM 107	09/19/88	R	TCE	710	8817373	1,100	440	1,000	39
DM 107	09/19/88	S	TCE	790	8817374			1,000	79
MP 49-B	09/21/88	Y	TCE	8,300	8817472	4,300		10,000	40
MP 49-B	09/21/88	X	TCE	8,700	8817474			10,000	87

Data From: File 09448-012-033 ATI WQ Report
Chain-of-Custody

Table E5.26

SUMMARY OF FIELD SPIKE ANALYSIS 11

Sample	Sample Date	Sample Code	Constituent	Result (ppb)	ATI ID	Original Sample Result (ppb)	Duplicate Sample Result (ppb)	Spike (ppb)	Percent Recovery
DM 103-178	01/30/89	Y	TCE	36,900	8901119	2.24		50,000	74
DM 103-178	01/30/89	X	TCE	40,900	8901120			50,000	82
DM 106-079	01/27/89	Y	TCE	<0.12	8901055	2.71		25	-10.4
DM 106-079	01/27/89	X	TCE	14.0	8901056			25	56
DM 107	01/17/89	Y	TCE	1,100	8900694	353	309	1,000	77
DM 107	01/17/89	X	TCE	800	8900695			1,000	80
MP 49-B	01/27/89	Y	TCE	21,600	8901043	8,440		1,000	132
MP 49-B	01/27/89	X	TCE	7,000	8901045			1,000	80
MP 50-B	01/19/89	Y	TCE	500	8900790	93	126	500	78
MP 50-B	01/19/89	X	TCE	730	8900791			500	146

Data From: File 09448-012-033 ATI WQ Report
Chain-of-Custody

Table E5.27

SUMMARY OF FIELD SPIKE ANALYSIS ROUND 12

Sample	Sample Date	Sample Code	Constituent	Result (ppb)	ATI ID	Original Sample Result (ppb)	Duplicate Sample Result (ppb)	Spike (ppb)	Percent Recovery
MP 49-B	12/04/89	Y	TCE	15,900	91253505	4,700	4,300	10,000	114
MP 49-B	12/04/89	X	TCE	9,340	91253506			10,000	93
DM 103-178	12/04/89	Y	TCE	29,800	91253603	570	460	50,000	58
DM 103-178	12/04/89	X	TCE	24,000	91253604			50,000	48
DM 106-079	11/29/89	Y	TCE	10.6	91179304	0.4	0.3	25	41
DM 106-079	11/29/89	X	TCE	15.7	91179303			25	63
MP 50-B	11/27/89	Y	TCE	630	91177109	5230	490	NA	
MP 50-B	11/27/89	X	TCE	40	91177110			NA	
DM 107	11/30/89	Y	TCE	1,360	91250203	190	290	1,000	112
DM 107	11/30/89	X	TCE	1,060	91250204			1,000	106

Data From: File 09448-012-033 ATI WQ Report Chain-of-Custody

Table E5.28

SUMMARY OF FIELD SPIKE ANALYSIS ROUND 13 AND 14

Sample	Sample Date	Sample Code	Constituent	Result (ppb)	ATI ID	Original Sample Result (ppb)	Duplicate Sample Result (ppb)	Spike (ppb)	Percent Recovery
DM 103-178	11/14/90	Y	TCE	400		250		50,000	0.03
DM 103-178	11/14/90	X	TCE	9.9		ND		50,000	0.30
DM 107	11/05/90	Y	TCE	5		4.8		1000	0.02
DM 107	11/05/90	X	TCE	0.25		ND		1000	0.03
MP 36-C	11/08/90	Y	TCE	3650		3640		10,000	0.03
MP 36-C	11/08/90	X	TCE	3.3		ND		10,000	0.10
DM 103-178	01/28/91	Y	TCE	200		4500		50,000	8.6
DM 103-178	01/28/91	X	TCE	11000		ND		50,000	22
MP 36-C	01/25/91	Y	TCE	6740		4400		10,000	23
MP 36-C	01/25/91	X	TCE	1500		ND		10,000	15
DM 107	01/25/91	Y	TCE	160		6.7		1,000	15
DM 107	01/25/91	X	TCE	159		ND		1,000	16

Data From: File 09448-012-033 ATI WQ Report
Chain-of-Custody

Table E5.29

CALIBRATION CORRELATION COEFFICIENTS <0.995 AND AFFECTED SAMPLES

Round Number	Constituents	Qualified Sample Results
9	Tetrachloroethene	DM 113
9	Trans-1,2-Dichloroethene	DM 126
10	Trichloroethene	DM 111, MP 11-C, MP 11-A, DM 117, DM 101-130, DM 101-55
10	Bromodichloromethane	DM 111, MP 11-C, MP-11A, DM 117, DM 101-130, DM 101-55
10	Bromodichloromethane	MP 51-B, MP 51-C, MP 49-C, MP 49-C FD, DM 113, MP 49-B
10	Bromodichloromethane, Chloroform, 1,1-Dichloroethene	MP 36-D, MP 36-C, MP 36-B FD, MP 36-B, MP 36-A, MP 9-A, MP 9-C, DM 121-284, DM 121-219, DM 121-219 FD, DM 121-125
11	1,2-Dichlorobenzene	MP 49-D, MP 49-B
11	Trichloroethene	DM 106-40
11	Cholorobenzene, 1,2-Dichlorobenzene	DM 103-32, DM 103-123, DM 103-178
11	1,2-Dichlorobenzene	MP 11-C, MP 11-B, MP 11-A, MP 09-A, DM 103-223, DM 103-269, DM 103-389, MP 36-B, MP 36-B FD

FD = Field Duplicate

Table E5.30

HOLDING TIMES EXCEEDANCES FOR VOLATILE ORGANICS

Round Number	Sample Number (Code)	Sample Date	Date Analyzed	Holding Time
8	DM 106-160 (FD)	6/4/87	6/25/87	21 days
8	DM 106-160	6/4/87	6/25/87	21 days
8	DM 106-231	6/4/87	6/25/87	21 days
8	DM 106-312	6/4/87	6/25/87	21 days
8	Trip Blank (K)	6/4/87	6/25/87	21 days
11	DM 103-178	1/30/89	2/17/89	18 days
11	MP 03-B	2/01/89	2/17/89	16 days
11	MP 36-A	1/31/89	2/17/89	17 days
12	MP 50-A	11/20/89	12/05/89	15 days
12	MP 51-A	11/20/89	12/05/89	15 days
12	MP 52-B	11/17/89	12/09/89	22 days
12	MP 51-D	11/17/89	12/11/89	24 days
12	MP 51-C	11/17/89	12/09/89	22 days
12	MP 51-B	11/17/89	12/09/56	22 days
12	Trip Blank 52-B	12/09/89	12/09/89	22 days
12	Trip Blank 51	12/09/89	12/09/89	22 days
14	MP 36-C	1/22/91	2/9/91	18 days
14	MP 9-C	1/24/91	2/8/91	15 days
14	MP 9-A	1/24/91	2/8/91	15 days
14	MP 13-C	1/24/91	2/8/91	15 days
14	DM 303	1/24/91	2/8/91	15 days
14A	Trip Blank	6/10/91	6/25/91	15 days
15	Trip Blank	6/28/91	7/15/91	17 days
15	Trip Blank	7/8/91	7/30/91	22 days
16	Trip Blank	2/11/91	2/26/91	15 days
16	Trip Blank	3/22/91	4/11/91	20 days
16	Trip Blank	3/13/91	3/28/91	15 days
16	Trip Blank	3/18/91	4/2/91	15 days
16	DM 2010B1	3/20/91	4/5/91	16 days

Table E5.30 (Continued)

Round Number	Sample Number (Code)	Sample Date	Date Analyzed	Holding Time
16	Trip Blank	3/30/91	4/18/91	19 days
16	Trip Blank	3/30/91	4/22/91	23 days
16	DM 201	4/3/91	4/22/91	19 days
16	DM 2010B1	4/3/91	4/22/91	19 days
16	DM 2010B2	4/3/91	4/22/91	19 days
16	DM 2010B3	4/3/91	4/22/91	19 days
16	Trip Blank*	3/8/91	4/24/91	47 days
16	Trip Blank*	6/3/91	7/10/91	37 days
16	Trip Blank*	6/28/91	8/20/91	53 days
16	Trip Blank	10/10/91	10/28/91	18 days
16	Trip Blank*	10/10/91	11/11/91	32 days

* = Rejected data.

Table E5.31

SUMMARY OF QUALIFICATIONS BASED ON QA/QC ANALYSES

Well	Round	Date	Constituent	Basis of Qualification
MP 53-B	12	11/22/89	Chloroform	Reagent blank
DM 125-46	13	11/12/90	Methylene Chloride	Reagent blank
MP 03-B	13	11/12/90	Methylene Chloride	Reagent blank
DM 501-387	14	1/17/91	Trichloroethene	Reagent blank
46246 G	10	10/3/88	Nitrate as Nitrogen	Reagent blank
DM 117	10	9/22/88	Nitrate as Nitrogen	Reagent blank
MP 9-A	10	9/23/88	Nitrate as Nitrogen	Reagent blank
MP 11-B	10	9/22/88	Nitrate as Nitrogen	Reagent blank
MP 53-C	8	5/20/87	Trichloroethene	Travel blank
DM 119-204	8	6/4/87	Toluene	Travel blank
MP 49-A	12	12/4/89	Chloroform	Travel blank
MP 51-A	12	11/20/89	Chloroform	Travel blank
MP 51-A	12	11/20/89	1,2-Dichloroethene	Travel blank
DM 123-135	14	1/22/91	Methylene Chloride	Travel blank
DM 123-85	14	1/22/91	Methylene Chloride	Travel blank
DM 123-56	14	1/22/91	Methylene Chloride	Travel blank
DM 119-137	8	6/4/87	Trichloroethene	Field blank
DM 101-055	8	6/4/87	Trichloroethene	Field blank
DM 119-204	8	6/4/87	Trichloroethene	Field blank
DM 160-160 FD	8	6/4/87	Trichloroethene	Field blank
DM 106-231 FD	8	6/4/87	Trichloroethene	Field blank
DM 106-312 FD	8	6/4/87	Trichloroethene	Field blank
DM 125-076 FD	8	6/3/87	Trichloroethene	Field blank
DM 125-125 FD	8	6/3/87	Trichloroethene	Field blank
DM 125-155 FD	8	6/3/87	Trichloroethene	Field blank
DM 125-185 FD	8	6/3/87	Trichloroethene	Field blank
DM 125-270 FD	8	6/3/87	Trichloroethene	Field blank
DM 104-040 FD	8	6/3/87	Trichloroethene	Field blank

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
DM 104-040 FD	8	6/3/87	Trichloroethene	Field blank
DM 104-079	8	6/3/87	Trichloroethene	Field blank
DM 104-079 FD	8	6/3/87	Trichloroethene	Field blank
DM 104-146	8	6/3/87	Trichloroethene	Field blank
DM 125-076	8	6/3/87	Toluene	Field blank
DM 119-204	8	6/4/87	Toluene	Field blank
DM 125-125	8	6/3/87	Toluene	Field blank
DM 125-155	8	6/3/87	Toluene	Field blank
DM 125-185	8	6/3/87	Toluene	Field blank
DM 125-270	8	6/3/87	Toluene	Field blank
DM 104-040	8	6/3/87	Toluene	Field blank
DM 104-040 FD	8	6/3/87	Toluene	Field blank
DM 104-079	8	6/3/87	Toluene	Field blank
DM 104-079 FD	8	6/3/87	Toluene	Field blank
DM 104-146	8	6/3/87	Toluene	Field blank
DM 125-076	8	6/3/87	Trichlorofluoromethane	Field blank
DM 125-185	8	6/3/87	Trichlorofluoromethane	Field blank
DM 125-270	8	6/3/87	Trichlorofluoromethane	Field blank
DM 104-146	8	6/3/87	Trichlorofluoromethane	Field blank
DM 125-155	14	1/24/91	Methylene Chloride	Equipment blank
DM 125-125	14	1/24/91	Methylene Chloride	Equipment blank
DM 125-76	14	1/24/91	Methylene Chloride	Equipment blank
DM 125-155	14	1/24/91	Trichloroethene	Equipment blank
DM 508	15	6/26/91	Trichloroethene	Equipment blank
DM 601-200	17	9/20/91	Chloroform	Travel blank
DM 601-135	17	9/20/91	Chloroform	Travel blank
DM 601-85	17	9/20/91	Chloroform	Travel blank
DM 601-40	17	9/20/91	Chloroform	Travel blank
DM 603-68	17	9/18/91	Trichloroethene	Equipment blank
DM 603-68 FD	17	9/18/91	Trichloroethene	Equipment blank

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
DM 313	17	11/24/91	Trichloroethene	Equipment blank
DM 313-B	17	11/24/91	Trichloroethene	Equipment blank
DM 312	17	11/24/91	1,2-Dichloroethene (total)	Equipment blank
DM 311	17	11/25/91	1,2-Dichloroethene (total)	Equipment blank
DM 115	17	9/11/91	Chloroform	Equipment blank
DM 602	18	11/18/91	Trichloroethene	Equipment blank
DM 602 FD	18	11/18/91	Trichloroethene	Equipment blank
DM 601-85	18	10/28/91	1,1,1-Trichloroethane	Equipment blank
DM 601-40	18	10/28/91	1,1,1-Trichloroethane	Equipment blank
DM 601-135	18	10/28/91	1,1,1-Trichloroethane	Equipment blank
DM 120	8	5/27/87	Trichloroethene	Field duplicate RPD
DM 120 FD	8	5/27/87	Trichloroethene	Field duplicate RPD
DM 104-040	8	6/3/87	Trichlorofluoromethane	Field duplicate RPD
DM 104-040 FD	8	6/3/87	Trichlorofluoromethane	Field duplicate RPD
DM 104-079	8	6/3/87	Tetrachloroethene	Field duplicate RPD
DM 104-079 FD	8	6/3/87	Tetrachloroethene	Field duplicate RPD
DM 106-118	8	6/4/87	1,1-Dichloroethene	Field duplicate RPD
DM 106-118 FD	8	6/4/87	1,1-Dichloroethene	Field duplicate RPD
DM 106-118	8	6/4/87	Trichloroethene	Field duplicate RPD
DM 106-118 FD	8	6/4/87	Trichloroethene	Field duplicate RPD
DM 106-118	8	6/4/87	Tetrachloroethene	Field duplicate RPD
DM 106-118 FD	8	6/4/87	Tetrachloroethene	Field duplicate RPD
DM 106-160	8	6/4/87	1,1-Dichloroethane	Field duplicate RPD
DM 106-160 FD	8	6/4/87	1,1-Dichloroethane	Field duplicate RPD
DM 106-160	8	6/4/87	Trichloroethene	Field duplicate RPD
DM 106-160 FD	8	6/4/87	Trichloroethene	Field duplicate RPD
DM 103-178	8	6/8/87	1,2-Dichloroethene (total)	Field duplicate RPD
DM 103-178 FD	8	6/8/87	1,2-Dichloroethene (total)	Field duplicate RPD
DM 103-178	8	6/8/87	Trichloroethene	Field duplicate RPD
DM 103-178 FD	8	6/8/87	Trichloroethene	Field duplicate RPD

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
DM 103-178	8	6/8/87	Tetrachloroethene	Field duplicate RPD
DM 103-178 FD	8	6/8/87	Tetrachloroethene	Field duplicate RPD
DM 103-178	8	6/8/87	1,2-Dichlorobenzene	Field duplicate RPD
DM 103-178 FD	8	6/8/87	1,2-Dichlorobenzene	Field duplicate RPD
DM 120	9	11/24/87	1,1,1-Trichloroethane	Field duplicate RPD
DM 120 FD	9	11/24/87	1,1,1-Trichloroethane	Field duplicate RPD
DM 126	9	11/24/87	Trichloroethene	Field duplicate RPD
DM 126 FD	9	11/24/87	Trichloroethene	Field duplicate RPD
DM 126	9	11/24/87	Tetrachloroethene	Field duplicate RPD
DM 126 FD	9	11/24/87	Tetrachloroethene	Field duplicate RPD
DM 106-160	9	1/13/88	1,2-Dichloroethene (total)	Field duplicate RPD
DM 106-160 FD	9	1/13/88	1,2-Dichloroethene (total)	Field duplicate RPD
DM 107	10	9/19/88	1,1-Dichloroethene	Field duplicate RPD
DM 107 FD	10	9/19/88	1,1-Dichloroethene	Field duplicate RPD
DM 107	10	9/19/88	Trichloroethene	Field duplicate RPD
DM 107 FD	10	9/19/88	Trichloroethene	Field duplicate RPD
MP 49-C	10	9/21/88	1,1-Dichloroethane	Field duplicate RPD
MP 49-C FD	10	9/21/88	1,1-Dichloroethane	Field duplicate RPD
MP 36-B	10	9/23/88	1,1,1-Trichloroethane	Field duplicate RPD
MP 36-B FD	10	9/23/88	1,1,1-Trichloroethane	Field duplicate RPD
MP 36-B	10	9/23/88	Trichloroethene	Field duplicate RPD
MP 36-B FD	10	9/23/88	Trichloroethene	Field duplicate RPD
DM 103-178	10	9/26/88	1,2-Dichloroethene (total)	Field duplicate RPD
DM 103-178 FD	10	9/26/88	1,2-Dichloroethene (total)	Field duplicate RPD
DM 104-146	10	9/28/88	1,1-Dichloroethane	Field duplicate RPD
DM 104-146 FD	10	9/28/88	1,1-Dichloroethane	Field duplicate RPD
DM 104-146	10	9/28/88	Trichloroethene	Field duplicate RPD
DM 104-146 FD	10	9/28/88	Trichloroethene	Field duplicate RPD
DM 122-B	11	1/13/89	Tetrachloroethene	Field duplicate RPD
DM 122-B FD	11	1/13/89	Tetrachloroethene	Field duplicate RPD

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
MP 50 B	11	1/19/89	Trichloroethene	Field duplicate RPD
MP 50-B FD	11	1/19/89	Trichloroethene	Field duplicate RPD
DM 103-064	11	1/30/89	Trichloroethene	Field duplicate RPD
DM 103-064 FD	11	1/30/89	Trichloroethene	Field duplicate RPD
DM 103-064	11	1/30/89	Chlorobenzene	Field duplicate RPD
DM 103-064 FD	11	1/30/89	Chlorobenzene	Field duplicate RPD
MP 36-B	11	1/31/89	Trichloroethene	Field duplicate RPD
MP 36-B FD	11	1/31/89	Trichloroethene	Field duplicate RPD
MP 53-C	12	11/16/89	Trichloroethene	Field duplicate RPD
MP 53-C FD	12	11/16/89	Trichloroethene	Field duplicate RPD
MP 53-C	12	11/22/89	Trichloroethene	Field duplicate RPD
MP 53-C FD	12	11/22/89	Trichloroethene	Field duplicate RPD
DM 106-079	12	11/29/89	Trichloroethene	Field duplicate RPD
DM 106-079 FD	12	11/29/89	Trichloroethene	Field duplicate RPD
DM 107	12	11/30/89	Trichloroethene	Field duplicate RPD
DM 107 FD	12	11/30/89	Trichloroethene	Field duplicate RPD
DM 120	12	11/30/89	Trichlorotrifluoroethane	Field duplicate RPD
DM 120 FD	12	11/30/89	Trichlorotrifluoroethane	Field duplicate RPD
DM 103-178	12	12/14/89	1,2-Dichloroethene (total)	Field duplicate RPD
DM 103-178 FD	12	12/14/89	1,2-Dichloroethene (total)	Field duplicate RPD
DM 103-178	12	12/14/89	Trichloroethene	Field duplicate RPD
DM 103-178 FD	12	12/14/89	Trichloroethene	Field duplicate RPD
DM 103-178	12	12/14/89	Chlorobenzene	Field duplicate RPD
DM 103-178	12	12/14/89	Chlorobenzene	Field duplicate RPD
DM 103-064	12	12/5/89	Vinyl Chloride	Field duplicate RPD
DM 103-064 FD	12	12/5/89	Vinyl Chloride	Field duplicate RPD
DM 103-064	12	12/5/89	1,2-Dichloroethene (total)	Field duplicate RPD
DM 103-064 FD	12	12/5/89	1,2-Dichloroethene (total)	Field duplicate RPD
DM 103-064	12	12/5/89	Trichloroethene	Field duplicate RPD
DM 103-064 FD	12	12/5/89	Trichloroethene	Field duplicate RPD

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
MP 36-B	12	12/5/89	Tetrachloroethene	Field duplicate RPD
MP 36-B FD	12	12/5/89	Tetrachloroethene	Field duplicate RPD
MP 36-B	12	12/5/89	Trichlorotrifluoroethane	Field duplicate RPD
MP 36-B FD	12	12/5/89	Trichlorotrifluoroethane	Field duplicate RPD
MP 36-B	12	12/5/89	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
MP 36-B FD	12	12/5/89	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
DM 121-219	12	12/12/89	Trichloroethene	Field duplicate RPD
DM 121-219	12	12/12/89	Trichloroethene	Field duplicate RPD
DM 103-178	12	12/14/89	Vinyl Chloride	Field duplicate RPD
DM 103-178 FD	12	12/14/89	Vinyl Chloride	Field duplicate RPD
DM 103-178	12	12/4/89	1,2-Dichloroethene (total)	Field duplicate RPD
DM 103-178 FD	12	12/4/89	1,2-Dichloroethene (total)	Field duplicate RPD
DM 103-178	12	12/4/89	Trichloroethene	Field duplicate RPD
DM 103-178 FD	12	12/4/89	Trichloroethene	Field duplicate RPD
DM 103-178	12	12/4/89	Chlorobenzene	Field duplicate RPD
DM 103-178	12	12/4/89	Chlorobenzene	Field duplicate RPD
MP 16-C	12	12/14/89	1,2-Dichloroethene (total)	Field duplicate RPD
MP 16-C FD	12	12/14/89	1,2-Dichloroethene (total)	Field duplicate RPD
MP 16-C	12	12/14/89	1,1,1-Trichloroethane	Field duplicate RPD
MP 16-C FD	12	12/14/89	1,1,1-Trichloroethane	Field duplicate RPD
MP 16-C	12	12/14/89	Tetrachloroethene	Field duplicate RPD
MP 16-C FD	12	12/14/89	Tetrachloroethene	Field duplicate RPD
MP 16-C	12	12/14/89	Trichloroethene	Field duplicate RPD
MP 16-C FD	12	12/14/89	Trichloroethene	Field duplicate RPD
MP 49-B	12A	7/10/90	1,1-Dichloroethene	Field duplicate RPD
MP 49-B FD	12A	7/10/90	1,1-Dichloroethene	Field duplicate RPD
MP 49-D	12A	7/12/90	Trichloroethene	Field duplicate RPD
MP 490 FD	12A	7/12/90	Trichloroethene	Field duplicate RPD
MP 36-B	13	11/8/90	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
MP 36-B FD	13	11/8/90	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
MP 36-B	13	11/21/90	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
MP 36-B FD	13	11/21/90	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
MP 36-B	13	11/8/90	Tetrachloroethene	Field duplicate RPD
MP 36-B FD	13	11/8/90	Tetrachloroethene	Field duplicate RPD
MP 36-B	13	11/8/90	1,1,1-Trichloroethane	Field duplicate RPD
MP 36-B FD	13	11/8/90	1,1,1-Trichloroethane	Field duplicate RPD
MP 36-B	13	11/8/90	Trichloroethene	Field duplicate RPD
MP 36-B FD	13	11/8/90	Trichloroethene	Field duplicate RPD
DM 107	13	11/5/90	1,1-Dichloroethene	Field duplicate RPD
DM 107 FD	13	11/5/90	1,1-Dichloroethene	Field duplicate RPD
DM 103-47	13	11/14/90	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
DM 103-47 FD	13	11/14/90	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
DM 120	13	11/1/90	Tetrachloroethene	Field duplicate RPD
DM 120 FD	13	11/1/90	Tetrachloroethene	Field duplicate RPD
DM 505	13A	1/11/91	Trichloroethene	Field duplicate RPD
DM 505 FD	13A	1/11/91	Trichloroethene	Field duplicate RPD
DM 501-147	13A	1/11/91	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
DM 501-147 FD	13A	1/11/91	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
DM 501-147	13A	1/11/91	Trichloroethene	Field duplicate RPD
DM 501-147 FD	13A	1/11/91	Trichloroethene	Field duplicate RPD
DM 504	13A	1/8/91	Trichloroethene	Field duplicate RPD
DM 504 FD	13A	1/8/91	Trichloroethene	Field duplicate RPD
DM 504	13A	1/8/91	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
DM 504 FD	13A	1/8/91	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
DM 504	13A	1/8/91	1,2-Dichloroethene (total)	Field duplicate RPD
DM 504 FD	13A	1/8/91	1,2-Dichloroethene (total)	Field duplicate RPD
DM 504	13A	1/8/91	Tetrachloroethene	Field duplicate RPD
DM 504 FD	13A	1/8/91	Tetrachloroethene	Field duplicate RPD
DM 117	14	1/23/91	1,1-Dichloroethane	Field duplicate RPD
DM 117 FD	14	1/23/91	1,1-Dichloroethane	Field duplicate RPD

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
DM 117	14	1/23/91	1,1-Dichloroethene	Field duplicate RPD
DM 117 FD	14	1/23/9	1,1-Dichloroethene	Field duplicate RPD
DM 117	14	1/23/91	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
DM 117 FD	14	1/23/91	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
DM 117	14	1/23/91	Trichlorotrifluoroethane	Field duplicate RPD
DM 117 FD	14	1/23/91	Trichlorotrifluoroethane	Field duplicate RPD
DM 504	14	1/17/91	Tetrachloroethene	Field duplicate RPD
DM 504 FD	14	1/17/91	Tetrachloroethene	Field duplicate RPD
DM 504	14	1/17/91	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
DM 504 FD	14	1/17/91	1,2 & 1,4-Dichlorobenzene	Field duplicate RPD
DM 502-119	15	6/29/91	Trichloroethene	Field duplicate RPD
DM 502-119 FD	15	6/29/91	Trichloroethene	Field duplicate RPD
DM 509	15	7/1/91	Chloroform	Field duplicate RPD
DM 509 FD	15	7/1/91	Chloroform	Field duplicate RPD
DM 509	15	7/1/91	1,2-Dichloroethene (total)	Field duplicate RPD
DM 509 FD	15	7/1/91	1,2-Dichloroethene (total)	Field duplicate RPD
DM 509	15	7/1/91	Tetrachloroethene	Field duplicate RPD
DM 509 FD	15	7/1/91	Tetrachloroethene	Field duplicate RPD
DM 501-202	15	7/22/91	1,4 & 1,2-Dichlorobenzene	Field duplicate RPD
DM 501-202 FD	15	7/22/91	1,4 & 1,2-Dichlorobenzene	Field duplicate RPD
DM 501-202	15	7/22/91	1,1-Dichloroethane	Field duplicate RPD
DM 501-202 FD	15	7/22/91	1,1-Dichloroethane	Field duplicate RPD
DM 501-202	15	7/22/91	1,2-Dichloroethene (total)	Field duplicate RPD
DM 501-202 FD	15	7/22/91	1,2-Dichloroethene (total)	Field duplicate RPD
DM 501-202	15	7/22/91	Tetrachloroethene	Field duplicate RPD
DM 501-202 FD	15	7/22/91	Tetrachloroethene	Field duplicate RPD
DM 501-202	15	7/22/91	1,1,1-Trichloroethane	Field duplicate RPD
DM 501-202 FD	15	7/22/91	1,1,1-Trichloroethane	Field duplicate RPD
DM 201	16	11/8/91	Trichloroethene	Field duplicate RPD
DM 201 FD	16	11/8/91	Trichloroethene	Field duplicate RPD

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
DM 307	17	11/25/91	1,2-Dichloroethene (total)	Field duplicate RPD
DM 307 FD	17	11/25/91	1,2-Dichloroethene (total)	Field duplicate RPD
DM 307	17	11/25/91	Tetrachloroethene	Field duplicate RPD
DM 307 FD	17	11/25/91	Tetrachloroethene	Field duplicate RPD
DM 603-68	17	9/18/91	Trichloroethene	Field duplicate RPD
DM 603-68 FD	17	9/18/91	Trichloroethene	Field duplicate RPD
DM 604	17	9/6/91	1,1-Dichloroethene	Field duplicate RPD
DM 604 FD	17	9/6/91	1,1-Dichloroethene	Field duplicate RPD
DM 509	15	7/1/91	Bromodichloromethane	Field duplicate RPD
DM 509 FD	15	7/1/91	Bromodichloromethane	Field duplicate RPD
DM 605-105	17	9/27/91	Chlorobenzene	Field duplicate RPD
DM 605-105 FD	17	9/27/91	Chlorobenzene	Field duplicate RPD
DM 605-105	17	9/27/91	1,4 & 1,2-Dichlorobenzene	Field duplicate RPD
DM 605-105 FD	17	9/27/91	1,4 & 1,2-Dichlorobenzene	Field duplicate RPD
DM 605-105	17	9/27/91	1,1-Dichloroethene	Field duplicate RPD
DM 605-105 FD	17	9/27/91	1,1-Dichloroethene	Field duplicate RPD
DM 605-105	17	9/27/91	Tetrachloroethene	Field duplicate RPD
DM 605-105 FD	17	9/27/91	Tetrachloroethene	Field duplicate RPD
DM 605-105	17	9/27/91	Trichloroethene	Field duplicate RPD
DM 605-105 FD	17	9/27/91	Trichloroethene	Field duplicate RPD
DM 605-105	17	9/27/91	Vinyl Chloride	Field duplicate RPD
DM 605-105 FD	17	9/27/91	Vinyl Chloride	Field duplicate RPD
DM 606-102	17	1/18/91	Chlorobenzene	Field duplicate RPD
DM 606-102 FD	17	1/18/91	Chlorobenzene	Field duplicate RPD
DM 606-102	17	1/18/91	1,4 & 1,2-Dichlorobenzene	Field duplicate RPD
DM 606-102 FD	17	1/18/91	1,4 & 1,2-Dichlorobenzene	Field duplicate RPD
DM 606-102	17	1/18/91	1,2-Dichloroethene (total)	Field duplicate RPD
DM 606-102 FD	17	1/18/91	1,2-Dichloroethene (total)	Field duplicate RPD
DM 606-102	17	1/18/91	Tetrachloroethene	Field duplicate RPD
DM 606-102 FD	17	1/18/91	Tetrachloroethene	Field duplicate RPD

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
DM 606-102	17	1/18/91	Trichloroethene	Field duplicate RPD
DM 606-102 FD	17	1/18/91	Trichloroethene	Field duplicate RPD
DM 606-102	17	11/18/91	Vinyl Chloride	Field duplicate RPD
DM 606-102 FD	17	11/18/91	Vinyl Chloride	Field duplicate RPD
DM 126	9	11/24/87	Tetrachloroethene	Lab duplicate RPD
DM 126	9	11/24/87	Trichloroethene	Lab duplicate RPD
DM 104-40	9	12/1/87	Trans-1,2-dichloroethene	Lab duplicate RPD
MP 36-A	9	11/30/87	1,1,1-Trichloroethane	Lab duplicate RPD
MP 11-C	11	1/30/89	Tetrachloroethene	Lab duplicate RPD
DM 107	9	11/20/87	Ammonia	Lab duplicate RPD
MP 11-B	9	11/19/87	Ammonia	Lab duplicate RPD
DM 122-B	9	11/23/87	Ammonia	Lab duplicate RPD
DM 111	9	11/23/87	Ammonia	Lab duplicate RPD
DM 120	9	11/24/87	Ammonia	Lab duplicate RPD
DM 117	9	11/25/87	Ammonia	Lab duplicate RPD
DM 107	10	9/19/88	Iron	Lab duplicate RPD
MP 52-B	10	9/16/88	Iron	Lab duplicate RPD
MP 16-A	10	9/19/88	Iron	Lab duplicate RPD
DM 120	10	9/19/88	Iron	Lab duplicate RPD
DM 504	15	7/2/91	Lead	Lab duplicate RPD
DM 104-079	8	6/3/87	Trichlorofluoromethane	Matrix spike duplicate RPD
DM 313	17	11/24/91	Lead	Matrix spike percent recovery
DM 312	17	11/24/91	Lead	Matrix spike percent recovery
DM 311	17	11/25/91	Lead	Matrix spike percent recovery
DM 310	17	11/25/91	Lead	Matrix spike percent recovery
DM 307	17	11/25/91	Lead	Matrix spike percent recovery
DM 307 FD	17	11/25/91	Lead	Matrix spike percent recovery
DM 306	17	11/25/91	Lead	Matrix spike percent recovery
DM 604	17	9/6/91	Selenium	Matrix spike percent recovery
DM 602	17	9/6/91	Selenium	Matrix spike percent recovery

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
DM 602 FD	17	9/6/91	Selenium	Matrix spike percent recovery
MP 9-B	17	9/13/91	Selenium	Matrix spike percent recovery
DM 603-115	17	9/26/91	Arsenic	Matrix spike percent recovery
DM 601-85	17	9/26/91	Arsenic	Matrix spike percent recovery
DM 605-290	17	9/27/91	Arsenic	Matrix spike percent recovery
DM 603-115	17	9/26/91	Lead	Matrix spike percent recovery
DM 601-85	17	9/26/91	Lead	Matrix spike percent recovery
DM 605-290	17	9/27/91	Lead	Matrix spike percent recovery
DM 308	17	11/26/91	Lead	Matrix spike percent recovery
DM 309	17	11/26/91	Lead	Matrix spike percent recovery
DM 305	17	11/26/91	Lead	Matrix spike percent recovery
DM 602	18	11/18/91	Lead	Matrix spike percent recovery
DM 604	18	11/18/91	Lead	Matrix spike percent recovery
DM 504-7200	15A	8/1/91	Arsenic	Matrix spike percent recovery
DM 701	16	12/19/91	Lead	Matrix spike percent recovery
DM 701	16	12/19/91	Selenium	Matrix spike percent recovery
DM 104-079	8	6/3/87	Trichloroethene	Surrogate spike percent recovery
DM 104-079	8	6/3/87	Trichlorofluoromethane	Surrogate spike percent recovery
MP 20-C	14	1/23/91	All volatile organics	Surrogate spike percent recovery
MP 20-B	14	1/23/91	All volatile organics	Surrogate spike percent recovery
MP 11-B	14	1/23/91	1,3-Dichlorobenzene	Surrogate spike percent recovery
MP 11-B	14	1/23/91	1,1-Dichloroethane	Surrogate spike percent recovery
MP 11-B	14	1/23/91	Tetrachloroethene	Surrogate spike percent recovery
MP 11-B	14	1/23/91	1,1,1-Trichloroethane	Surrogate spike percent recovery
MP 11-B	14	1/23/91	1,1,2-Trichloroethane	Surrogate spike percent recovery
MP 11-B	14	1/23/91	Trichloroethene	Surrogate spike percent recovery
MP 11-C	14	1/23/91	1,1-Dichloroethane	Surrogate spike percent recovery
MP 11-C	14	1/23/91	Tetrachloroethene	Surrogate spike percent recovery
MP 11-C	14	1/23/91	Trichloroethene	Surrogate spike percent recovery
DM 122-B	14	1/22/91	Chlorobenzene	Surrogate spike percent recovery

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
DM 122-B	14	1/22/91	Chloroform	Surrogate spike percent recovery
DM 122-B	14	1/22/91	1,2 & 1,4-Dichlorobenzene	Surrogate spike percent recovery
DM 122-B	14	1/22/91	1,1-Dichloroethane	Surrogate spike percent recovery
DM 122-B	14	1/22/91	1,2-Dichloroethene (total)	Surrogate spike percent recovery
DM 122-B	14	1/22/91	Tetrachloroethene	Surrogate spike percent recovery
DM 122-B	14	1/22/91	1,1,1-Trichloroethane	Surrogate spike percent recovery
DM 122-B	14	1/22/91	Trichloroethene	Surrogate spike percent recovery
DM 122-B	14	1/22/91	Trichlorotrifluoroethane	Surrogate spike percent recovery
DM 120	14	1/22/91	1,1-Dichloroethane	Surrogate spike percent recovery
DM 120 FD	14	1/22/91	1,1-Dichloroethane	Surrogate spike percent recovery
DM 120	14	1/22/91	1,2-Dichloroethene (total)	Surrogate spike percent recovery
DM 120 FD	14	1/22/91	1,2-Dichloroethene (total)	Surrogate spike percent recovery
DM 120	14	1/22/91	Tetrachloroethene	Surrogate spike percent recovery
DM 120 FD	14	1/22/91	Tetrachloroethene	Surrogate spike percent recovery
DM 120	14	1/22/91	Trichloroethene	Surrogate spike percent recovery
DM 120 FD	14	1/22/91	Trichloroethene	Surrogate spike percent recovery
DM 120	14	1/22/91	1,1,1-Trichloroethane	Surrogate spike percent recovery
DM 120 FD	14	1/22/91	1,1,1-Trichloroethane	Surrogate spike percent recovery
DM 107	14	1/22/91	Bromodichloromethane	Surrogate spike percent recovery
DM 107	14	1/22/91	Chloroform	Surrogate spike percent recovery
DM 107	14	1/22/91	Dibromochloromethane	Surrogate spike percent recovery
DM 107	14	1/22/91	1,2 & 1,4-Dichlorobenzene	Surrogate spike percent recovery
DM 107	14	1/22/91	1,1-Dichloroethane	Surrogate spike percent recovery
DM 107	14	1/22/91	1,2-Dichloroethene (total)	Surrogate spike percent recovery
DM 107	14	1/22/91	Tetrachloroethene	Surrogate spike percent recovery
DM 107	14	1/22/91	1,1,1-Trichloroethane	Surrogate spike percent recovery
DM 107	14	1/22/91	Trichloroethene	Surrogate spike percent recovery
DM 106-160	8	6/4/87	Volatile Organics	Holding time
DM 106-160 FD	8	6/4/87	Volatile Organics	Holding time
DM 106-231	8	6/4/87	Volatile Organics	Holding time

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
DM 106-312	8	6/4/87	Volatile Organics	Holding time
Trip blank	8	6/4/87	Volatile Organics	Holding time
DM 103-178	11	1/30/89	Volatile Organics	Holding time
MP 03-B	11	2/1/89	Volatile Organics	Holding time
MP 36-A	11	1/31/89	Volatile Organics	Holding time
MP 50-A	12	11/20/89	Volatile Organics	Holding time
MP 51-A	12	11/20/89	Volatile Organics	Holding time
MP 52-B	12	11/17/89	Volatile Organics	Holding time
MP 51-D	12	11/17/89	Volatile Organics	Holding time
MP 51-C	12	11/17/89	Volatile Organics	Holding time
MP 51-B	12	11/17/89	Volatile Organics	Holding time
Trip blank 52-B	12	12/9/89	Volatile Organics	Holding time
Trip blank 51	12	12/9/89	Volatile Organics	Holding time
MP 36-C	14	1/22/91	Volatile Organics	Holding time
MP 9-C	14	1/24/91	Volatile Organics	Holding time
MP 9-A	14	1/24/91	Volatile Organics	Holding time
MP 13-C	14	1/24/91	Volatile Organics	Holding time
DM 303	14	1/24/91	Volatile Organics	Holding time
Trip blank	14A	6/10/91	Volatile Organics	Holding time
Trip blank	15	6/28/91	Volatile Organics*	Holding time
Trip blank	15	7/8/91	Volatile Organics	Holding time
Trip blank	16	6/28/91	Volatile Organics	Holding time
Trip blank	16	10/10/91	Volatile Organics	Holding time
Trip blank	16	10/10/91	Volatile Organics*	Holding time
DM 508	14A	6/14/91	Phosphate	Holding time
DM 107	9	11/20/87	Chloride	Matrix spike percent recovery
MP 16-A	9	11/18/87	Sulfate	Matrix spike percent recovery
MP 51-A	9	11/18/87	Sulfate	Matrix spike percent recovery
MP 52-B	9	11/18/87	Sulfate	Matrix spike percent recovery
DM 111	9	11/23/87	Sulfate	Matrix spike percent recovery

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
MP 36-B	9	11/30/87	Sulfate	Matrix spike percent recovery
MP 9-A	9	12/3/87	Sulfate	Matrix spike percent recovery
MP 3-B	9	12/3/87	Sulfate	Matrix spike percent recovery
DM 107	10	9/19/88	Lead	Matrix spike percent recovery
MP 16-A	10	9/19/88	Selenium	Matrix spike percent recovery
MP 51-B	10	9/21/88	Selenium	Matrix spike percent recovery
DM 117	10	9/22/88	Selenium	Matrix spike percent recovery
DM 104-14-B	10	9/29/88	Selenium	Matrix spike percent recovery
DM 122-B	10	9/15/88	Selenium	Matrix spike percent recovery
MP 3-B	10	9/26/88	Silver	Matrix spike percent recovery
DM 104-79	10	9/29/88	Silver	Matrix spike percent recovery
DM 120	11	1/16/89	Hexavalent Chromium	Matrix spike percent recovery
DM 504	15	7/2/91	Lead	Matrix spike percent recovery
DM 107	15	7/1/91	Selenium	Matrix spike percent recovery
DM 509	15	7/1/91	Selenium	Matrix spike percent recovery
DM 124	15	6/28/91	Selenium	Matrix spike percent recovery
DM 503	15	6/28/91	Selenium	Matrix spike percent recovery
DM 120	15	6/28/91	Selenium	Matrix spike percent recovery
DM 113	9	11/20/87	Tetrachloroethene	Calibration correlation coefficient
DM 126	9	11/24/87	Trans-1,2-dichloroethene	Calibration correlation coefficient
DM 111	10	9/22/88	Trichloroethene	Calibration correlation coefficient
MP 11-C	10	9/22/88	Trichloroethene	Calibration correlation coefficient
MP 11-A	10	9/22/88	Trichloroethene	Calibration correlation coefficient
DM 117	10	9/22/88	Trichloroethene	Calibration correlation coefficient
DM 101-130	10	9/22/88	Trichloroethene	Calibration correlation coefficient
DM 101-55	10	9/22/88	Trichloroethene	Calibration correlation coefficient
DM 111	10	9/22/88	Bromodichloromethane	Calibration correlation coefficient
MP 11-C	10	9/22/88	Bromodichloromethane	Calibration correlation coefficient
MP 11-A	10	9/22/88	Bromodichloromethane	Calibration correlation coefficient
DM 117	10	9/22/88	Bromodichloromethane	Calibration correlation coefficient

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
DM 101-130	10	9/22/88	Bromodichloromethane	Calibration correlation coefficient
DM 101-55	10	9/22/88	Bromodichloromethane	Calibration correlation coefficient
MP 51-B	10	9/21/88	Bromodichloromethane	Calibration correlation coefficient
MP 51-C	10	9/21/88	Bromodichloromethane	Calibration correlation coefficient
MP 49-C	10	9/21/88	Bromodichloromethane	Calibration correlation coefficient
MP 49-C FD	10	9/21/88	Bromodichloromethane	Calibration correlation coefficient
DM 113	10	9/21/88	Bromodichloromethane	Calibration correlation coefficient
MP 49-B	10	9/21/88	Bromodichloromethane	Calibration correlation coefficient
MP 36-D	10	9/23/88	Bromodichloromethane	Calibration correlation coefficient
MP 36-C	10	9/23/88	Bromodichloromethane	Calibration correlation coefficient
MP 36-B FD	10	9/23/88	Bromodichloromethane	Calibration correlation coefficient
MP 36-B	10	9/23/88	Bromodichloromethane	Calibration correlation coefficient
MP 36-A	10	9/23/88	Bromodichloromethane	Calibration correlation coefficient
MP 9-A	10	9/23/88	Bromodichloromethane	Calibration correlation coefficient
MP 9-C	10	9/23/88	Bromodichloromethane	Calibration correlation coefficient
DM 121-284	10	9/23/88	Bromodichloromethane	Calibration correlation coefficient
DM 121-219	10	9/23/88	Bromodichloromethane	Calibration correlation coefficient
DM 121-219 FD	10	9/23/88	Bromodichloromethane	Calibration correlation coefficient
DM 121-125	10	9/23/88	Bromodichloromethane	Calibration correlation coefficient
MP 36-D	10	9/23/88	Chloroform	Calibration correlation coefficient
MP 36-C	10	9/23/88	Chloroform	Calibration correlation coefficient
MP 36-B FD	10	9/23/88	Chloroform	Calibration correlation coefficient
MP 36-B	10	9/23/88	Chloroform	Calibration correlation coefficient
MP 36-A	10	9/23/88	Chloroform	Calibration correlation coefficient
MP 9-A	10	9/23/88	Chloroform	Calibration correlation coefficient
MP 9-C	10	9/23/88	Chloroform	Calibration correlation coefficient
DM 121-284	10	9/23/88	Chloroform	Calibration correlation coefficient
DM 121-219	10	9/23/88	Chloroform	Calibration correlation coefficient
DM 121-219 FD	10	9/23/88	Chloroform	Calibration correlation coefficient
DM 121-125	10	9/23/88	Chloroform	Calibration correlation coefficient

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
MP 36-D	10	9/23/88	1,1-Dichloroethene	Calibration correlation coefficient
MP 36-C	10	9/23/88	1,1-Dichloroethene	Calibration correlation coefficient
MP 36-B FD	10	9/23/88	1,1-Dichloroethene	Calibration correlation coefficient
MP 36-B	10	9/23/88	1,1-Dichloroethene	Calibration correlation coefficient
MP 36-A	10	9/23/88	1,1-Dichloroethene	Calibration correlation coefficient
MP 9-A	10	9/23/88	1,1-Dichloroethene	Calibration correlation coefficient
MP 9-C	10	9/23/88	1,1-Dichloroethene	Calibration correlation coefficient
DM 121-284	10	9/23/88	1,1-Dichloroethene	Calibration correlation coefficient
DM 121-219	10	9/23/88	1,1-Dichloroethene	Calibration correlation coefficient
DM 121-219 FD	10	9/23/88	1,1-Dichloroethene	Calibration correlation coefficient
DM 121-125	10	9/23/88	1,1-Dichloroethene	Calibration correlation coefficient
MP 49-D	11	1/26/89	1,2-Dichlorobenzene	Calibration correlation coefficient
MP 49-B	11	1/27/89	1,2-Dichlorobenzene	Calibration correlation coefficient
DM 106-40	11	1/27/89	Trichloroethene	Calibration correlation coefficient
DM 103-32	11	1/30/89	Chlorobenzene	Calibration correlation coefficient
DM 103-133	11	1/30/89	Chlorobenzene	Calibration correlation coefficient
DM 103-178	11	1/30/89	Chlorobenzene	Calibration correlation coefficient
DM 103-32	11	1/30/89	1,2-Dichlorobenzene	Calibration correlation coefficient
DM 103-123	11	1/30/89	1,2-Dichlorobenzene	Calibration correlation coefficient
DM 103-123	11	1/30/89	1,2-Dichlorobenzene	Calibration correlation coefficient
DM 103-178	11	1/30/89	1,2-Dichlorobenzene	Calibration correlation coefficient
MP 11-C	11	1/30/89	1,2-Dichlorobenzene	Calibration correlation coefficient
MP 11-B	11	1/30/89	1,2-Dichlorobenzene	Calibration correlation coefficient
MP 11-A	11	1/30/89	1,2-Dichlorobenzene	Calibration correlation coefficient
MP 9-A	11	1/30/89	1,2-Dichlorobenzene	Calibration correlation coefficient
DM 103-223	11	1/31/89	1,2-Dichlorobenzene	Calibration correlation coefficient
DM 103-269	11	1/31/89	1,2-Dichlorobenzene	Calibration correlation coefficient
DM 103-389	11	1/31/89	1,2-Dichlorobenzene	Calibration correlation coefficient
MP 36-B	11	1/31/89	1,2-Dichlorobenzene	Calibration correlation coefficient
MP 36-B FD	11	1/31/89	1,2-Dichlorobenzene	Calibration correlation coefficient

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
All inorganic samples	8-18		Hexavalent Chromium	Holding time
DM 503	14	1/17/91	Chloromethane*	Contaminated #C1 Preservative
DM 504	14	1/17/91	Chloromethane*	Contaminated #C1 Preservative
MP 16A	14	1/18/91	Chloromethane*	Contaminated #C1 Preservative
MP 16C	14	1/18/91	Chloromethane*	Contaminated #C1 Preservative
DM 2010B2	16	2/12/91	1,2-Dichloroethene (total)	Equipment blank
DM 201	16	2/12/91	Trichloroethene	Equipment blank
DM 201 FD	16	2/12/91	Trichloroethene	Equipment blank
DM 2010B1	16	2/12/91	Trichloroethene	Equipment blank
DM 2010B2	16	2/12/91	Trichloroethene	Equipment blank
DM 201	16	3/15/91	Methylene chloride	Reagent blank
DM 201	16	3/18/91	Methylene chloride	Reagent blank
DM 201	16	3/15/91	Methylene chloride	Travel blank
DM 201	16	3/18/91	Methylene chloride	Travel blank
DM 201	16	3/15/91	Trichlorotrifluoroethane	Reagent blank
DM 201	16	3/18/91	Trichlorotrifluoroethane	Reagent blank
DM 201	16	3/15/91	Trichlorotrifluoroethane	Travel blank
DM 201	16	3/18/91	Trichlorotrifluoroethane	Travel blank
MP 16-A	16	4/15/91	Chloroform	Travel blank
DM 201-2640	16	2/16/91	1,1-Dichloroethane	Field duplicate RPD
DM 201-2640 FD	16	2/16/91	1,1-Dichloroethane	Field duplicate RPD
DM 201-2640	16	2/16/91	1,1,1-Trichloroethane	Field duplicate RPD
DM 201-2640 FD	16	2/16/91	1,1,1-Trichloroethane	Field duplicate RPD
DM 201	16	2/12/91	1,2-Dichloroethene (total)	Field duplicate RPD
DM 201 FD	16	2/12/91	1,2-Dichloroethene (total)	Field duplicate RPD
DM 201	16	2/12/91	Tetrachloroethene	Field duplicate RPD
DM 201 FD	16	2/12/91	Tetrachloroethene	Field duplicate RPD
DM 201	16	2/12/91	Trichloroethene	Field duplicate RPD
DM 201 FD	16	2/12/91	Trichloroethene	Field duplicate RPD
DM 2010B1	16	3/29/91	All volatile organics	Surrogate spike percent recovery

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

Table E5.31 (Continued)

Well	Round	Date	Constituent	Basis of Qualification
Trip Blank	16	2/12/91	Volatile Organics	Holding time
Trip Blank	16	3/22/91	Volatile Organics	Holding time
Trip Blank	16	3/13/91	Volatile Organics	Holding time
Trip Blank	16	3/18/91	Volatile Organics	Holding time
Trip Blank	16	3/30/91	Volatile Organics	Holding time
Trip Blank	16	3/30/91	Volatile Organics	Holding time
Trip Blank	16	3/8/91	Volatile Organics*	Holding time
Trip Blank	16	6/3/91	Volatile Organics*	Holding time
DM 2010B1	16	3/20/91	Volatile Organics	Holding time
DM 201	16	4/3/91	Volatile Organics	Holding time
DM 2010B1	16	4/3/91	Volatile Organics	Holding time
DM 2010B2	16	4/3/91	Volatile Organics	Holding time
DM 2010B3	16	4/3/91	Volatile Organics	Holding time

FD = Field Duplicate; RPD = Relative Percent Difference; * = Rejected Data

APPENDIX E6

VOC WATER QUALITY

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APPENDIX E6

VOC WATER QUALITY

E6.1.0 INTRODUCTION

This appendix presents a series of tables summarizing VOC concentrations for selected organic compounds detected in monitor wells and at the pilot treatment plant. This appendix also presents maps showing minimum, mean, and maximum values of selected organic constituents in all monitor wells as well as plots of concentration vs. time for selected wells.

E6.2.0 TABLES

The data tables provided in this appendix include eight tables comparing mean VOC concentrations calculated from data collected for the original RI report with mean VOC concentrations calculated from data collected since the original RI report was prepared. The tables present mean concentrations calculated for both the RI and post-RI samples. Also included are eight tables showing 1991 minimum, mean, and maximum concentrations in monitor wells of selected organic compounds. The last table shows influent VOC concentrations at the pilot treatment plant from February, 1987 through October, 1989.

All of the data tables provided in this appendix, with the exception of Table E6.17 (pilot treatment plant), were developed using data presented in Tables E1.1 (RI organics, 1985-1986) and Table E2.1 (post-RI organics, 1987-1991). Mean VOC concentrations were calculated using only field original (FO), field duplicate (FD), pump and treat (PT) and pump and treat duplicate (PD) samples. Samples taken during aquifer tests were not used. To calculate a mean concentration value for a particular organic constituent within a given interval of time, FO and FD, or PT and PD samples from the same sampling event were first averaged to obtain an average value for a particular sampling date. Concentrations from all sampling dates within the time interval were then averaged to obtain the mean. If the constituent was not detected, a zero

value was assigned for the purpose of calculating the mean. Tables E6.7 and E6.8 present ratios of TCE to TDCE and TCA to DCE, respectively. Ratios were calculated only for samples with detections of both constituents. Means of those ratios were then calculated.

E6.3.0 FIGURES

The figures presented in this appendix include 16 maps showing post-RI minimum, mean, and maximum VOC concentrations in alluvium and bedrock. These maps were prepared using the mean values calculated in the tables. Also included are 99 plots of ethylene concentration vs. time for most of the monitor wells. The plots were prepared from data presented in tables E1.1 and E2.1.

Table E6.1

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
169E6N	A	0	.	1	0.00	1	0.00
40&VB	A	3	7.05	1	0.80	4	5.49
4626G	A	3	0.53	5	0.62	8	0.59
48&VB	B	3	32.33	0	.	3	32.33
AZNGD	A	4	34.43	0	.	4	34.43
AZNGD N	A	3	7.30	0	.	3	7.30
AZNGD S	B	3	25.04	0	.	3	25.04
AZSLD	A	3	4.95	2	0.75	5	3.27
DM 101-025	A	.	.	.	.	.	.
DM 101-045	B	6	267.06	1	13.00	7	230.77
DM 101-055	B	3	372.30	7	4.85	10	115.09
DM 101-070	B	5	147.51	0	.	5	147.51
DM 101-094	B	3	312.27	0	.	3	312.27
DM 101-102	B	6	226.81	0	.	6	226.81
DM 101-114	B	3	437.53	0	.	3	437.53
DM 101-130	B	3	682.10	6	7.57	9	232.41
DM 101-140	B	6	266.88	0	.	6	266.88
DM 101B	A	5	1331.34	0	.	5	1331.34
DM 102-026	A	.	.	.	.	.	.
DM 102-048	A	10	2554.76	0	.	10	2554.76
DM 102-065	I	5	139.32	0	.	5	139.32
DM 102-082	B	10	2841.99	0	.	10	2841.99
DM 102-104	B	5	319.58	0	.	5	319.58

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.1 (Continued)

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 102-119	B	13	5083.24	0	.	13	5083.24
DM 102-144	B	5	1995.38	0	.	5	1995.38
DM 102-159	B	5	1004.40	0	.	5	1004.40
DM 102-186	B	.	.	.	.	.	.
DM 102-191	B	3	514.47	0	.	3	514.47
DM 102-213	B	.	.	.	.	.	.
DM 102-233	B	5	170.02	0	.	5	170.02
DM 102-253	B	.	.	.	.	.	.
DM 102-273	B	3	105.30	0	.	3	105.30
DM 102-299	B	8	783.84	0	.	8	783.84
DM 102-319	B	5	347.96	0	.	5	347.96
DM 102-344	B	.	.	.	.	.	.
DM 102-354	B	3	33.24	0	.	3	33.24
DM 102-377	B	3	75.70	0	.	3	75.70
DM 102-388	B	.	.	.	.	.	.
DM 102-404	B	5	115.07	0	.	5	115.07
DM 102-427	B	.	.	.	.	.	.
DM 102-454	B	3	172.45	0	.	3	172.45
DM 102-469	B	.	.	.	.	.	.
DM 102-489	B	5	137.19	0	.	5	137.19
DM 103-032	A	3	1084.73	5	1385.28	8	1272.58
DM 103-047	I	5	7060.24	8	3424.35	13	4822.77
DM 103-064	B	6	5811.03	5	4403.22	11	5171.12

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.1 (Continued)

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 103-079	B	6	8535.50	0	.	6	8535.50
DM 103-103	B	6	9616.12	0	.	6	9616.12
DM 103-123	B	6	13901.43	8	8089.27	14	10580.20
DM 103-148	B	4	8323.95	0	.	4	8323.95
DM 103-163	B	6	16251.65	0	.	6	16251.65
DM 103-178	B	7	30387.60	8	10110.72	15	19573.26
DM 103-203	B	6	14891.68	0	.	6	14891.68
DM 103-223	B	4	3615.59	8	7219.46	12	6018.17
DM 103-243	B	6	640.11	0	.	6	640.11
DM 103-269	B	4	274.30	6	2369.85	10	1531.63
DM 103-289	B	6	151.00	0	.	6	151.00
DM 103-304	B	4	323.73	0	.	4	323.73
DM 103-324	B	5	183.44	6	1073.07	11	668.69
DM 103-344	B	3	233.25	0	.	3	233.25
DM 103-364	B	3	196.97	0	.	3	196.97
DM 103-389	B	6	268.00	7	1259.57	13	801.92
DM 104-040	A	3	95.95	2	2.60	5	58.61
DM 104-052	A	7	52.44	1	15.00	8	47.76
DM 104-079	A	7	223.77	5	169.26	12	201.06
DM 104-101	I	7	41.91	1	103.80	8	49.65
DM 104-124	B	0	.	1	0.00	1	0.00
DM 104-146	B	7	46.48	5	4.68	12	29.06
DM 104-158	B	4	4.58	1	0.00	5	3.67

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.1 (Continued)

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 104-175	B	0	.	1	0.00	1	0.00
DM 104-191	B	6	5.81	1	0.00	7	4.98
DM 104-221	B	4	6.23	1	0.00	5	4.98
DM 104-241	B	6	9.08	1	0.00	7	7.78
DM 104-261	B	4	6.32	1	0.00	5	5.06
DM 104-281	B	2	9.32	1	0.00	3	6.21
DM 104-293	B	2	0.17	1	0.00	3	0.12
DM 106-040	A	2	48.51	2	1.01	4	24.76
DM 106-062	A	4	127.97	2	1.41	6	85.79
DM 106-079	A	5	67.60	2	1.70	7	48.77
DM 106-101	A	6	2610.51	0	.	6	2610.51
DM 106-118	I	5	3479.32	2	2173.68	7	3106.28
DM 106-140	B	4	109.55	0	.	4	109.55
DM 106-160	B	5	374.70	2	54.73	7	283.28
DM 106-180	B	1	99.10	0	.	1	99.10
DM 106-205	B	5	278.44	0	.	5	278.44
DM 106-231	B	5	759.20	2	67.00	7	561.43
DM 106-252	B	1	116.68	0	.	1	116.68
DM 106-267	B	5	318.07	0	.	5	318.07
DM 106-292	B	1	34.13	0	.	1	34.13
DM 106-312	B	4	72.90	1	138.40	5	86.00
DM 106-332	B	2	47.03	0	.	2	47.03
DM 106-347	B	4	162.97	0	.	4	162.97

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.1 (Continued)

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 106-357	B	.	.	.	.	.	.
DM 107	A	3	381.11	9	258.76	12	289.34
DM 109	A	.	.	.	.	.	.
DM 111	A	3	6182.70	8	482.79	11	2037.31
DM 112	A	3	4530.00	2	1193.25	5	3195.30
DM 113	A	3	1773.23	5	1037.94	8	1313.68
DM 114	A	3	14.98	2	23.30	5	18.31
DM 115	A	3	1085.62	8	173.86	11	422.52
DM 117	A	3	31615.40	10	4459.90	13	10726.55
DM 118	A	2	0.00	3	5.17	5	3.10
DM 119-072	A	2	1.63	0	.	2	1.63
DM 119-098	A	2	3.01	0	.	2	3.01
DM 119-137	I	2	1.84	7	0.87	9	1.09
DM 119-182	B	.	.	.	.	.	.
DM 119-204	B	2	3.15	7	5.09	9	4.66
DM 119-230	B	.	.	.	.	.	.
DM 119-244	B	2	2.70	0	.	2	2.70
DM 119-270	B	.	.	.	.	.	.
DM 119-284	B	2	1.39	0	.	2	1.39
DM 120	A	4	1014.33	10	145.71	14	393.89
DM 121-043	A	2	121.15	1	55.00	3	99.10
DM 121-084	A	2	148.65	2	106.35	4	127.50
DM 121-125	I	2	2972.00	5	936.65	7	1518.18

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.1 (Continued)

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 121-146	B	.	.	.	.	.	.
DM 121-159	B	2	437.15	2	47.40	4	242.27
DM 121-185	B	.	.	.	.	.	.
DM 121-219	B	2	441.85	5	65.88	7	173.30
DM 121-248	B	.	.	.	.	.	.
DM 121-284	B	2	170.20	6	95.26	8	114.00
DM 122-A	A	2	2.70	8	18.51	10	15.35
DM 122-B	I	2	4.87	7	12.07	9	10.47
DM 123-056	I	2	4.19	1	6.00	3	4.79
DM 123-085	B	2	1.39	1	1.60	3	1.46
DM 123-111	B	.	.	.	.	.	.
DM 123-135	B	2	2.50	1	2.70	3	2.57
DM 123-156	B	.	.	.	.	.	.
DM 123-195	B	2	6.05	1	0.00	3	4.03
DM 123-226	B	.	.	.	.	.	.
DM 123-250	B	2	3.75	1	0.00	3	2.50
DM 123-285	B	2	2.30	1	0.54	3	1.71
DM 124	A	2	12.27	3	22.93	5	18.67
DM 125-046	A	2	1.18	5	3.98	7	3.18
DM 125-076	I	2	0.93	7	1.65	9	1.49
DM 125-125	B	2	20.84	5	5.86	7	10.14
DM 125-155	B	2	13.29	7	5.44	9	7.18
DM 125-185	B	2	18.80	7	7.16	9	9.75

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(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.1 (Continued)

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 125-211	B	.	.	.	.	.	.
DM 125-236	B	.	.	.	.	.	.
DM 125-270	B	2	11.88	7	3.46	9	5.33
DM 126	A	3	64.97	7	1.74	10	20.71
DM 201	A	1	428.80	31	7148.98	32	6938.98
DM 201-OB1	A	0	.	17	52340.47	17	52340.47
DM 201-OB2	A	0	.	5	11732.34	5	11732.34
DM 201-OB3	A	0	.	5	221.96	5	221.96
DM 202	A	0	.	4	284.20	4	284.20
DM 202-OB1	A	0	.	3	2764.30	3	2764.30
DM 202-OB2	A	1	364.80	3	392.37	4	385.47
DM 301	A	7	386112.21	0	.	7	386112.21
DM 302	A	8	252150.06	0	.	8	252150.06
DM 303	A	0	.	4	2121.75	4	2121.75
DM 304	A	0	.	4	2625.45	4	2625.45
DM 305	A	0	.	2	4234.50	2	4234.50
DM 306	A	0	.	2	4603.50	2	4603.50
DM 307	A	0	.	2	3539.25	2	3539.25
DM 308	A	0	.	2	2438.65	2	2438.65
DM 309	A	0	.	2	6383.00	2	6383.00
DM 310	A	0	.	2	3322.85	2	3322.85
DM 311	A	0	.	2	234.95	2	234.95
DM 312	A	0	.	2	254.10	2	254.10

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(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.1 (Continued)

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 313	A	0	.	2	1.75	2	1.75
DM 501-147	A	0	.	6	18.90	6	18.90
DM 501-202	I	0	.	6	75.98	6	75.98
DM 501-267	B	0	.	6	9.25	6	9.25
DM 501-331	B	0	.	6	5.37	6	5.37
DM 501-387	B	0	.	6	10.17	6	10.17
DM 502-079	A	0	.	4	406.87	4	406.87
DM 502-119	I	0	.	4	753.35	4	753.35
DM 502-161	B	0	.	4	217.42	4	217.42
DM 502-240	B	0	.	4	66.95	4	66.95
DM 502-335	B	0	.	4	58.78	4	58.78
DM 503	A	0	.	5	14.90	5	14.90
DM 504	A	0	.	7	1758.61	7	1758.61
DM 504OB1	A	.	.	.	.	.	.
DM 505	A	0	.	4	2.75	4	2.75
DM 506-100	A	0	.	3	92.77	3	92.77
DM 506-185	I	0	.	3	181.77	3	181.77
DM 506-240	B	0	.	3	56.07	3	56.07
DM 506-305	B	0	.	3	36.87	3	36.87
DM 506-375	B	0	.	3	40.93	3	40.93
DM 507-084	A	0	.	3	771.57	3	771.57
DM 507-188	I	0	.	3	424.80	3	424.80
DM 507-240	B	0	.	3	397.67	3	397.67

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.1 (Continued)

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 507-280	B	0	.	3	391.23	3	391.23
DM 507-315	B	0	.	3	216.17	3	216.17
DM 508	A	0	.	3	5.07	3	5.07
DM 509	A	0	.	3	363.98	3	363.98
DM 601-040	I	0	.	2	1875.00	2	1875.00
DM 601-085	B	0	.	2	646.60	2	646.60
DM 601-135	B	0	.	2	447.20	2	447.20
DM 601-200	B	0	.	2	4390.50	2	4390.50
DM 602	A	0	.	2	3.25	2	3.25
DM 603-068	A	0	.	2	12.48	2	12.48
DM 603-115	I	0	.	2	1327.00	2	1327.00
DM 603-170	B	0	.	2	6100.00	2	6100.00
DM 603-205	B	0	.	2	5445.00	2	5445.00
DM 603-245	B	0	.	2	6485.00	2	6485.00
DM 604	A	0	.	2	1046.00	2	1046.00
DM 605-066	A	0	.	2	68.70	2	68.70
DM 605-105	I	0	.	2	2939.75	2	2939.75
DM 605-170	B	0	.	2	4.70	2	4.70
DM 605-240	B	0	.	2	2.80	2	2.80
DM 605-290	B	0	.	2	3.00	2	3.00
DM 606-045	I	0	.	2	1054.05	2	1054.05
DM 606-102	B	0	.	2	3670.75	2	3670.75
DM 606-185	B	0	.	2	28499.15	2	28499.15

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.1 (Continued)

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 606-250	B	0	.	2	372.95	2	372.95
DM 606-330	B	0	.	2	117.40	2	117.40
DM 606-370	B	0	.	2	1716.00	2	1716.00
DM 701	A	0	.	3	0.18	3	0.18
DW-1	B	5	43818.60	0	.	5	43818.60
MP 01-A	B	.	.	.	.	.	.
MP 01-B	B	.	.	.	.	.	.
MP 03-A	A	4	34012.50	0	.	4	34012.50
MP 03-B	I	6	275908.33	9	252000.58	15	261563.68
MP 03-C	B	11	2104310.00	3	1263666.67	14	1924172.14
MP 03-D	B	10	1829031.80	3	2518033.33	13	1988032.15
MP 09-A	A	13	149702.54	8	36510.00	21	106581.57
MP 09-B	I	8	45881.66	2	6278.00	10	37960.93
MP 09-C	B	8	36210.75	8	19465.84	16	27838.29
MP 09-D	B	6	47381.67	2	17745.00	8	39972.50
MP 11-A	A	10	16699.91	7	6426.40	17	12469.64
MP 11-B	I	10	2215.44	8	1805.21	18	2033.12
MP 11-C	B	6	480.12	6	696.26	12	588.19
MP 11-D	B	6	182.30	2	13.40	8	140.07
MP 13-A	A	6	131.96	0	.	6	131.96
MP 13-B	I	6	4318.61	4	1622.05	10	3239.98
MP 13-C	B	4	173.63	4	11.78	8	92.70
MP 13-D	B	6	101.99	0	.	6	101.99

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.1 (Continued)

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 16-A	A	6	181.81	10	111.48	16	137.85
MP 16-B	I	7	22.39	2	13.45	9	20.41
MP 16-C	B	5	90.24	8	9.26	13	40.40
MP 16-D	B	6	167.11	0	.	6	167.11
MP 20-A	I	6	259.15	2	2.08	8	194.88
MP 20-B	B	6	108.72	2	0.12	8	81.57
MP 20-C	B	6	114.80	2	0.00	8	86.10
MP 20-D	B	.	.	.	.	.	.
MP 25-A	I	5	47.10	0	.	5	47.10
MP 25-B	B	5	18.27	0	.	5	18.27
MP 25-C	B	.	.	.	.	.	.
MP 25-D	B	5	25.00	2	14.85	7	22.10
MP 28-A	I	5	56.48	3	41.17	8	50.74
MP 28-B	B	6	40.75	2	1.20	8	30.86
MP 28-C	B	6	64.61	3	13.93	9	47.72
MP 28-D	B	6	43.83	2	158.10	8	72.40
MP 30-A	A	6	29.33	2	3.70	8	22.92
MP 30-B	I	5	87.92	1	9.80	6	74.90
MP 30-C	B	6	235.59	2	72.40	8	194.79
MP 30-D	B	5	116.74	1	6.30	6	98.33
MP 36-A	A	10	25528.61	9	1678.27	19	14231.08
MP 36-B	I	10	57797.17	10	6384.65	20	32090.91
MP 36-C	B	6	48177.08	8	8555.12	14	25535.96

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(3) Data obtained from 1987 through 1991 inclusive.

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Table E6.1 (Continued)

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 36-D	B	6	116440.33	10	261890.00	16	207346.38
MP 37-A	I	.	.	.	.	.	.
MP 37-B	B	0	.	1	49.90	1	49.90
MP 37-C	B	6	213.53	2	228.85	8	217.36
MP 38-A	B	.	.	.	.	.	.
MP 38-D	B	.	.	.	.	.	.
MP 48-C	B	7	5858.49	0	.	7	5858.49
MP 48-D	B	7	23297.51	0	.	7	23297.51
MP 48-E	B	7	15196.73	0	.	7	15196.73
MP 49-A	A	7	1234.41	4	13.80	11	790.55
MP 49-B	I	8	6617.41	7	6340.64	15	6488.25
MP 49-C	B	8	6005.64	7	3145.94	15	4671.11
MP 49-D	B	8	1053.03	4	30.13	12	712.06
MP 50-A	A	7	101.43	3	103.43	10	102.03
MP 50-B	A	8	322.96	3	570.42	11	390.45
MP 50-C	I	.	.	.	.	.	.
MP 50-D	B	7	1525.01	2	1975.00	9	1625.01
MP 51-A	A	7	698.30	3	30.77	10	498.04
MP 51-B	A	7	639.79	6	505.52	13	577.82
MP 51-C	I	8	2885.83	5	2718.60	13	2821.51
MP 51-D	B	8	24.39	3	0.07	11	17.76
MP 52-A	A	.	.	.	.	.	.
MP 52-B	I	8	32.77	6	1.12	14	19.20

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(3) Data obtained from 1987 through 1991 inclusive.

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Table E6.1 (Continued)

TOTAL VOLATILES FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 52-C	B	7	81.28	0	.	7	81.28
MP 52-D	B	.	.	.	.	.	.
MP 53-A	A	.	.	.	.	.	.
MP 53-B	I	8	183.69	6	0.32	14	105.10
MP 53-C	B	8	434.61	6	0.63	14	248.62
MP 53-D	B	6	55.18	3	0.65	9	37.00
PZ01	A	5	709.66	0	.	5	709.66
PZ02	A	3	631.35	0	.	3	631.35
PZ03	A	6	2634.37	0	.	6	2634.37
PZ04	A	3	5327.48	0	.	3	5327.48
PZ05	A	4	5368.40	0	.	4	5368.40
PZ06	A	6	33156.17	0	.	6	33156.17
PZ07	A	6	66061.67	0	.	6	66061.67
PZ08	A	6	719.83	0	.	6	719.83
PZ09	A	4	18710.00	0	.	4	18710.00
PZ10	A	4	47621.00	0	.	4	47621.00
SW-1	I	12	356284.15	0	.	12	356284.15
TOVREA	A	.	.	.	.	.	.
TURNA	A	2	4206.85	0	.	2	4206.85
WILLIS	A	3	1292.20	1	890.00	4	1191.65

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Table E6.2

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
16.9E6N	A	0	.	1	0.00	1	0.00
40&VB	A	3	0.46	1	0.00	4	0.35
4626G	A	3	0.29	5	0.24	8	0.26
48&VB	B	3	9.27	0	.	3	9.27
AZNGD	A	4	12.68	0	.	4	12.68
AZNGD N	A	3	6.44	0	.	3	6.44
AZNGD S	B	3	17.71	0	.	3	17.71
AZSLD	A	3	1.78	2	0.65	5	1.33
DM 101-025	A	.	.	.	.	.	.
DM 101-045	B	6	35.50	1	12.00	7	32.14
DM 101-055	B	3	47.33	7	1.31	10	15.12
DM 101-070	B	5	27.70	0	.	5	27.70
DM 101-094	B	3	55.93	0	.	3	55.93
DM 101-102	B	6	8.60	0	.	6	8.60
DM 101-114	B	3	27.50	0	.	3	27.50
DM 101-130	B	3	113.00	6	0.00	9	37.67
DM 101-140	B	6	39.31	0	.	6	39.31
DM 101B	A	5	179.37	0	.	5	179.37
DM 102-026	A	.	.	.	.	.	.
DM 102-048	A	10	563.35	0	.	10	563.35
DM 102-065	I	5	104.41	0	.	5	104.41
DM 102-082	B	10	987.14	0	.	10	987.14
DM 102-104	B	5	291.84	0	.	5	291.84

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.2 (Continued)

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 102-119	B	13	4652.42	0	.	13	4652.42
DM 102-144	B	5	1676.40	0	.	5	1676.40
DM 102-159	B	5	725.72	0	.	5	725.72
DM 102-186	B	.	.	.	.	.	.
DM 102-191	B	3	479.82	0	.	3	479.82
DM 102-213	B	.	.	.	.	.	.
DM 102-233	B	5	147.04	0	.	5	147.04
DM 102-253	B	.	.	.	.	.	.
DM 102-273	B	3	75.50	0	.	3	75.50
DM 102-299	B	8	171.96	0	.	8	171.96
DM 102-319	B	5	24.66	0	.	5	24.66
DM 102-344	B	.	.	.	.	.	.
DM 102-354	B	3	11.99	0	.	3	11.99
DM 102-377	B	3	26.50	0	.	3	26.50
DM 102-388	B	.	.	.	.	.	.
DM 102-404	B	5	36.75	0	.	5	36.75
DM 102-427	B	.	.	.	.	.	.
DM 102-454	B	3	114.87	0	.	3	114.87
DM 102-469	B	.	.	.	.	.	.
DM 102-489	B	5	35.78	0	.	5	35.78
DM 103-032	A	3	1059.53	5	1228.96	8	1165.43
DM 103-047	I	5	6246.24	8	2623.32	13	4016.75
DM 103-064	B	6	5642.42	5	4171.44	11	4973.79

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Table E6.2 (Continued)

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 103-079	B	6	7163.75	0	.	6	7163.75
DM 103-103	B	6	7682.77	0	.	6	7682.77
DM 103-123	B	6	13060.78	8	6883.94	14	9531.16
DM 103-148	B	4	7977.13	0	.	4	7977.13
DM 103-163	B	6	13121.53	0	.	6	13121.53
DM 103-178	B	7	27564.29	8	8693.15	15	17499.68
DM 103-203	B	6	13489.67	0	.	6	13489.67
DM 103-223	B	4	3193.25	8	5814.79	12	4940.94
DM 103-243	B	6	580.77	0	.	6	580.77
DM 103-269	B	4	226.65	6	1388.78	10	923.93
DM 103-289	B	6	122.08	0	.	6	122.08
DM 103-304	B	4	300.20	0	.	4	300.20
DM 103-324	B	5	141.56	6	81.20	11	108.64
DM 103-344	B	3	199.38	0	.	3	199.38
DM 103-364	B	3	153.95	0	.	3	153.95
DM 103-389	B	6	233.17	7	151.93	13	189.42
DM 104-040	A	3	3.97	2	2.13	5	3.23
DM 104-052	A	7	17.83	1	13.00	8	17.23
DM 104-079	A	7	170.07	5	129.42	12	153.13
DM 104-101	I	7	18.87	1	55.30	8	23.42
DM 104-124	B	0	.	1	0.00	1	0.00
DM 104-146	B	7	0.56	5	3.90	12	1.95
DM 104-158	B	4	1.22	1	0.00	5	0.97

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.2 (Continued)

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 104-175	B	0	.	1	0.00	1	0.00
DM 104-191	B	6	1.41	1	0.00	7	1.21
DM 104-221	B	4	2.01	1	0.00	5	1.61
DM 104-241	B	6	0.75	1	0.00	7	0.64
DM 104-261	B	4	0.61	1	0.00	5	0.49
DM 104-281	B	2	0.95	1	0.00	3	0.63
DM 104-293	B	2	0.00	1	0.00	3	0.00
DM 106-040	A	2	32.65	2	1.01	4	16.83
DM 106-062	A	4	69.75	2	1.26	6	46.92
DM 106-079	A	5	18.38	2	1.60	7	13.59
DM 106-101	A	6	2308.81	0	.	6	2308.81
DM 106-118	I	5	3456.00	2	2169.65	7	3088.47
DM 106-140	B	4	53.24	0	.	4	53.24
DM 106-160	B	5	291.02	2	52.65	7	222.91
DM 106-180	B	1	95.60	0	.	1	95.60
DM 106-205	B	5	149.24	0	.	5	149.24
DM 106-231	B	5	725.76	2	64.60	7	536.86
DM 106-252	B	1	104.30	0	.	1	104.30
DM 106-267	B	5	246.67	0	.	5	246.67
DM 106-292	B	1	28.20	0	.	1	28.20
DM 106-312	B	4	18.08	1	122.90	5	39.04
DM 106-332	B	2	21.91	0	.	2	21.91
DM 106-347	B	4	65.22	0	.	4	65.22

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.2 (Continued)

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 106-357	B	.	.	.	.	.	.
DM 107	A	3	298.67	9	250.42	12	262.48
DM 109	A	.	.	.	.	.	.
DM 111	A	3	2275.00	8	266.16	11	814.03
DM 112	A	3	3690.00	2	1116.35	5	2660.54
DM 113	A	3	1199.33	5	858.74	8	986.46
DM 114	A	3	4.88	2	14.80	5	8.85
DM 115	A	3	1070.30	8	147.87	11	399.45
DM 117	A	3	22937.97	10	3088.10	13	7668.84
DM 118	A	2	0.00	3	3.40	5	2.04
DM 119-072	A	2	0.09	0	.	2	0.09
DM 119-098	A	2	0.00	0	.	2	0.00
DM 119-137	I	2	0.16	7	0.06	9	0.08
DM 119-182	B	.	.	.	.	.	.
DM 119-204	B	2	0.00	7	1.10	9	0.86
DM 119-230	B	.	.	.	.	.	.
DM 119-244	B	2	0.00	0	.	2	0.00
DM 119-270	B	.	.	.	.	.	.
DM 119-284	B	2	0.09	0	.	2	0.09
DM 120	A	4	730.62	10	137.68	14	307.09
DM 121-043	A	2	116.45	1	55.00	3	95.97
DM 121-084	A	2	148.65	2	106.35	4	127.50
DM 121-125	I	2	2559.25	5	681.91	7	1218.29

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.2 (Continued)

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 121-146	B	.	.	.	.	.	.
DM 121-159	B	2	294.50	2	47.40	4	170.95
DM 121-185	B	.	.	.	.	.	.
DM 121-219	B	2	387.50	5	54.81	7	149.87
DM 121-248	B	.	.	.	.	.	.
DM 121-284	B	2	141.10	6	85.39	8	99.32
DM 122-A	A	2	2.70	8	10.45	10	8.90
DM 122-B	I	2	1.22	7	2.94	9	2.56
DM 123-056	I	2	0.09	1	0.00	3	0.06
DM 123-085	B	2	0.00	1	0.00	3	0.00
DM 123-111	B	.	.	.	.	.	.
DM 123-135	B	2	0.00	1	0.00	3	0.00
DM 123-156	B	.	.	.	.	.	.
DM 123-195	B	2	0.00	1	0.00	3	0.00
DM 123-226	B	.	.	.	.	.	.
DM 123-250	B	2	0.00	1	0.00	3	0.00
DM 123-285	B	2	0.00	1	0.00	3	0.00
DM 124	A	2	4.80	3	14.80	5	10.80
DM 125-046	A	2	0.11	5	0.00	7	0.03
DM 125-076	I	2	0.46	7	0.65	9	0.61
DM 125-125	B	2	19.55	5	1.30	7	6.51
DM 125-155	B	2	10.85	7	3.06	9	4.79
DM 125-185	B	2	15.30	7	5.70	9	7.83

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Table E6.2 (Continued)

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 125-211	B	.	.	.	.	.	.
DM 125-236	B	.	.	.	.	.	.
DM 125-270	B	2	10.95	7	1.65	9	3.71
DM 126	A	3	24.37	7	1.01	10	8.02
DM 201	A	1	273.60	31	2536.72	32	2466.00
DM 201-OB1	A	0	.	17	22065.76	17	22065.76
DM 201-OB2	A	0	.	5	4364.16	5	4364.16
DM 201-OB3	A	0	.	5	113.18	5	113.18
DM 202	A	0	.	4	282.15	4	282.15
DM 202-OB1	A	0	.	3	2757.00	3	2757.00
DM 202-OB2	A	1	351.00	3	390.67	4	380.75
DM 301	A	7	69711.73	0	.	7	69711.73
DM 302	A	8	242099.75	0	.	8	242099.75
DM 303	A	0	.	4	1287.50	4	1287.50
DM 304	A	0	.	4	1740.00	4	1740.00
DM 305	A	0	.	2	4234.50	2	4234.50
DM 306	A	0	.	2	4522.00	2	4522.00
DM 307	A	0	.	2	3494.25	2	3494.25
DM 308	A	0	.	2	2414.15	2	2414.15
DM 309	A	0	.	2	5300.00	2	5300.00
DM 310	A	0	.	2	2895.00	2	2895.00
DM 311	A	0	.	2	175.00	2	175.00
DM 312	A	0	.	2	39.85	2	39.85

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.2 (Continued)

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 313	A	0	.	2	1.00	2	1.00
DM 501-147	A	0	.	6	15.08	6	15.08
DM 501-202	I	0	.	6	68.87	6	68.87
DM 501-267	B	0	.	6	4.07	6	4.07
DM 501-331	B	0	.	6	0.13	6	0.13
DM 501-387	B	0	.	6	0.52	6	0.52
DM 502-079	A	0	.	4	381.02	4	381.02
DM 502-119	I	0	.	4	714.48	4	714.48
DM 502-161	B	0	.	4	208.12	4	208.12
DM 502-240	B	0	.	4	61.98	4	61.98
DM 502-335	B	0	.	4	48.60	4	48.60
DM 503	A	0	.	5	7.88	5	7.88
DM 504	A	0	.	7	1570.47	7	1570.47
DM 504OB1	A	.	.	.	.	.	.
DM 505	A	0	.	4	1.05	4	1.05
DM 506-100	A	0	.	3	74.67	3	74.67
DM 506-185	I	0	.	3	161.13	3	161.13
DM 506-240	B	0	.	3	42.13	3	42.13
DM 506-305	B	0	.	3	28.17	3	28.17
DM 506-375	B	0	.	3	25.07	3	25.07
DM 507-084	A	0	.	3	751.03	3	751.03
DM 507-188	I	0	.	3	413.13	3	413.13
DM 507-240	B	0	.	3	379.90	3	379.90

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.2 (Continued)

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 507-280	B	0	.	3	370.10	3	370.10
DM 507-315	B	0	.	3	199.77	3	199.77
DM 508	A	0	.	3	0.33	3	0.33
DM 509	A	0	.	3	351.27	3	351.27
DM 601-040	I	0	.	2	762.00	2	762.00
DM 601-085	B	0	.	2	424.10	2	424.10
DM 601-135	B	0	.	2	320.60	2	320.60
DM 601-200	B	0	.	2	4361.00	2	4361.00
DM 602	A	0	.	2	1.55	2	1.55
DM 603-068	A	0	.	2	11.83	2	11.83
DM 603-115	I	0	.	2	1325.00	2	1325.00
DM 603-170	B	0	.	2	6100.00	2	6100.00
DM 603-205	B	0	.	2	5445.00	2	5445.00
DM 603-245	B	0	.	2	6485.00	2	6485.00
DM 604	A	0	.	2	1041.00	2	1041.00
DM 605-066	A	0	.	2	66.45	2	66.45
DM 605-105	I	0	.	2	2655.00	2	2655.00
DM 605-170	B	0	.	2	3.50	2	3.50
DM 605-240	B	0	.	2	1.55	2	1.55
DM 605-290	B	0	.	2	1.45	2	1.45
DM 606-045	I	0	.	2	965.80	2	965.80
DM 606-102	B	0	.	2	2448.25	2	2448.25
DM 606-185	B	0	.	2	20890.00	2	20890.00

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(3) Data obtained from 1987 through 1991 inclusive.

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Table E6.2 (Continued)

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 606-250	B	0	.	2	317.15	2	317.15
DM 606-330	B	0	.	2	68.35	2	68.35
DM 606-370	B	0	.	2	9.00	2	9.00
DM 701	A	0	.	3	0.12	3	0.12
DW-1	B	5	33730.60	0	.	5	33730.60
MP 01-A	B	.	.	.	.	.	.
MP 01-B	B	.	.	.	.	.	.
MP 03-A	A	4	15961.25	0	.	4	15961.25
MP 03-B	I	6	68262.50	9	22913.33	15	41053.00
MP 03-C	B	11	1801300.00	3	1093166.67	14	1649557.14
MP 03-D	B	10	1630175.00	3	2378633.33	13	1802896.15
MP 09-A	A	13	55477.31	8	16938.13	21	40795.71
MP 09-B	I	8	28334.50	2	2860.00	10	23239.60
MP 09-C	B	8	24190.75	8	9267.99	16	16729.37
MP 09-D	B	6	31963.33	2	6905.00	8	25698.75
MP 11-A	A	10	3197.85	7	1293.57	17	2413.74
MP 11-B	I	10	684.05	8	1207.01	18	916.48
MP 11-C	B	6	435.37	6	662.43	12	548.90
MP 11-D	B	6	149.06	2	12.70	8	114.97
MP 13-A	A	6	36.96	0	.	6	36.96
MP 13-B	I	6	3876.48	4	1592.50	10	2962.88
MP 13-C	B	4	113.28	4	11.78	8	62.53
MP 13-D	B	6	48.04	0	.	6	48.04

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Table E6.2 (Continued)

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 16-A	A	6	72.33	10	38.70	16	51.31
MP 16-B	I	7	13.74	2	9.75	9	12.85
MP 16-C	B	5	37.56	8	6.63	13	18.53
MP 16-D	B	6	134.55	0	.	6	134.55
MP 20-A	I	6	157.67	2	0.18	8	118.30
MP 20-B	B	6	82.42	2	0.12	8	61.85
MP 20-C	B	6	74.59	2	0.00	8	55.94
MP 20-D	B	.	.	.	.	.	.
MP 25-A	I	5	17.04	0	.	5	17.04
MP 25-B	B	5	12.81	0	.	5	12.81
MP 25-C	B	.	.	.	.	.	.
MP 25-D	B	5	19.47	2	14.70	7	18.11
MP 28-A	I	5	15.56	3	34.80	8	22.78
MP 28-B	B	6	28.43	2	1.20	8	21.62
MP 28-C	B	6	45.60	3	12.63	9	34.61
MP 28-D	B	6	21.56	2	0.55	8	16.31
MP 30-A	A	6	21.08	2	3.30	8	16.64
MP 30-B	I	5	60.32	1	9.80	6	51.90
MP 30-C	B	6	189.45	2	71.80	8	160.04
MP 30-D	B	5	79.16	1	6.10	6	66.98
MP 36-A	A	10	14865.50	9	1153.96	19	8370.56
MP 36-B	I	10	18578.00	10	3598.85	20	11088.42
MP 36-C	B	6	31251.67	8	4892.88	14	16189.50

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0.00 = Not detected.

Table E6.2 (Continued)

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 36-D	B	6	115658.33	10	261210.00	16	206628.13
MP 37-A	I	.	.	.	.	.	.
MP 37-B	B	0	.	1	30.60	1	30.60
MP 37-C	B	6	179.25	2	215.25	8	188.25
MP 38-A	B	.	.	.	.	.	.
MP 38-D	B	.	.	.	.	.	.
MP 48-C	B	7	5326.60	0	.	7	5326.60
MP 48-D	B	7	21898.71	0	.	7	21898.71
MP 48-E	B	7	12302.44	0	.	7	12302.44
MP 49-A	A	7	1001.89	4	13.65	11	642.53
MP 49-B	I	8	5854.96	7	6285.00	15	6055.65
MP 49-C	B	8	4224.48	7	3132.18	15	3714.74
MP 49-D	B	8	874.80	4	30.13	12	593.24
MP 50-A	A	7	67.67	3	103.03	10	78.28
MP 50-B	A	8	206.54	3	532.92	11	295.55
MP 50-C	I	.	.	.	.	.	.
MP 50-D	B	7	1248.77	2	1950.00	9	1404.60
MP 51-A	A	7	617.34	3	28.33	10	440.64
MP 51-B	A	7	466.41	6	419.50	13	444.76
MP 51-C	I	8	2419.81	5	2670.80	13	2516.35
MP 51-D	B	8	7.72	3	0.07	11	5.63
MP 52-A	A	.	.	.	.	.	.
MP 52-B	I	8	15.87	6	1.12	14	9.55

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0.00 = Not detected.

Table E6.2 (Continued)

SUM OF TCE, TDCE, AND DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 52-C	B	7	61.50	0	.	7	61.50
MP 52-D	B	.	.	.	.	.	.
MP 53-A	A	.	.	.	.	.	.
MP 53-B	I	8	96.18	6	0.03	14	54.98
MP 53-C	B	8	333.13	6	0.58	14	190.61
MP 53-D	B	6	36.40	3	0.65	9	24.48
PZ01	A	5	391.43	0	.	5	391.43
PZ02	A	3	296.55	0	.	3	296.55
PZ03	A	6	1066.47	0	.	6	1066.47
PZ04	A	3	697.72	0	.	3	697.72
PZ05	A	4	1929.85	0	.	4	1929.85
PZ06	A	6	9493.50	0	.	6	9493.50
PZ07	A	6	32632.50	0	.	6	32632.50
PZ08	A	6	161.80	0	.	6	161.80
PZ09	A	4	12700.00	0	.	4	12700.00
PZ10	A	4	21553.00	0	.	4	21553.00
SW-1	I	12	11540.81	0	.	12	11540.81
TOVREA	A	.	.	.	.	.	.
TURNA	A	2	3751.45	0	.	2	3751.45
WILLIS	A	3	957.33	1	870.00	4	935.50

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0.00 = Not detected.

Table E6.3

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
16.9E6N	A	0	.	1	0.00	1	0.00
40&VB	A	3	0.90	1	0.00	4	0.68
4626G	A	3	0.25	5	0.00	8	0.09
48&VB	B	3	16.53	0	.	3	16.53
AZNGD	A	4	16.07	0	.	4	16.07
AZNGD N	A	3	0.87	0	.	3	0.87
AZNGD S	B	3	1.63	0	.	3	1.63
AZSLD	A	3	1.51	2	0.00	5	0.91
DM 101-025	A	.	.	.	.	.	.
DM 101-045	B	6	181.70	1	0.00	7	155.75
DM 101-055	B	3	256.67	7	2.57	10	78.80
DM 101-070	B	5	83.03	0	.	5	83.03
DM 101-094	B	3	164.13	0	.	3	164.13
DM 101-102	B	6	187.23	0	.	6	187.23
DM 101-114	B	3	309.30	0	.	3	309.30
DM 101-130	B	3	395.53	6	3.83	9	134.40
DM 101-140	B	6	134.29	0	.	6	134.29
DM 101B	A	5	1133.48	0	.	5	1133.48
DM 102-026	A	.	.	.	.	.	.
DM 102-048	A	10	1584.53	0	.	10	1584.53
DM 102-065	I	5	19.74	0	.	5	19.74
DM 102-082	B	10	1294.05	0	.	10	1294.05
DM 102-104	B	5	24.26	0	.	5	24.26
DM 102-119	B	13	358.52	0	.	13	358.52

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(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.3 (Continued)

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 102-144	B	5	276.74	0	.	5	276.74
DM 102-159	B	5	267.38	0	.	5	267.38
DM 102-186	B	.	.	.	.	.	.
DM 102-191	B	3	44.45	0	.	3	44.45
DM 102-213	B	.	.	.	.	.	.
DM 102-233	B	5	21.84	0	.	5	21.84
DM 102-253	B	.	.	.	.	.	.
DM 102-273	B	3	26.73	0	.	3	26.73
DM 102-299	B	8	412.16	0	.	8	412.16
DM 102-319	B	5	92.78	0	.	5	92.78
DM 102-344	B	.	.	.	.	.	.
DM 102-354	B	3	12.21	0	.	3	12.21
DM 102-377	B	3	27.30	0	.	3	27.30
DM 102-388	B	.	.	.	.	.	.
DM 102-404	B	5	43.56	0	.	5	43.56
DM 102-427	B	.	.	.	.	.	.
DM 102-454	B	3	48.60	0	.	3	48.60
DM 102-469	B	.	.	.	.	.	.
DM 102-489	B	5	33.15	0	.	5	33.15
DM 103-032	A	3	14.87	5	0.00	8	5.58
DM 103-047	I	4	44.68	8	3.76	12	17.40
DM 103-064	B	5	73.80	5	5.84	10	39.82
DM 103-079	B	5	134.14	0	.	5	134.14
DM 103-103	B	5	290.63	0	.	5	290.63

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Table E6.3 (Continued)

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 103-123	B	6	435.68	8	5.19	14	189.69
DM 103-148	B	4	214.70	0	.	4	214.70
DM 103-163	B	6	1846.20	0	.	6	1846.20
DM 103-178	B	7	1431.43	8	2.12	15	669.13
DM 103-203	B	6	1140.17	0	.	6	1140.17
DM 103-223	B	4	185.25	8	7.04	12	66.44
DM 103-243	B	6	32.63	0	.	6	32.63
DM 103-269	B	4	24.63	6	0.38	10	10.08
DM 103-289	B	6	18.63	0	.	6	18.63
DM 103-304	B	4	17.32	0	.	4	17.32
DM 103-324	B	5	32.42	6	0.00	11	14.74
DM 103-344	B	3	26.52	0	.	3	26.52
DM 103-364	B	3	17.42	0	.	3	17.42
DM 103-389	B	6	26.75	7	0.34	13	12.53
DM 104-040	A	3	11.08	2	0.00	5	6.65
DM 104-052	A	7	23.41	1	0.00	8	20.49
DM 104-079	A	7	37.33	5	29.83	12	34.20
DM 104-101	I	7	11.39	1	7.30	8	10.88
DM 104-124	B	0	.	1	0.00	1	0.00
DM 104-146	B	7	42.84	5	0.24	12	25.09
DM 104-158	B	4	2.56	1	0.00	5	2.04
DM 104-175	B	0	.	1	0.00	1	0.00
DM 104-191	B	6	2.85	1	0.00	7	2.44
DM 104-221	B	4	2.64	1	0.00	5	2.11

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Table E6.3 (Continued)

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 104-241	B	6	5.79	1	0.00	7	4.96
DM 104-261	B	4	1.62	1	0.00	5	1.30
DM 104-281	B	2	6.75	1	0.00	3	4.50
DM 104-293	B	2	0.17	1	0.00	3	0.12
DM 106-040	A	2	1.80	2	0.00	4	0.90
DM 106-062	A	4	28.52	2	0.00	6	19.02
DM 106-079	A	5	21.43	2	0.00	7	15.31
DM 106-101	A	5	310.61	0	.	5	310.61
DM 106-118	I	4	14.45	2	5.03	6	11.31
DM 106-140	B	4	10.80	0	.	4	10.80
DM 106-160	B	5	26.38	2	0.10	7	18.87
DM 106-180	B	1	7.90	0	.	1	7.90
DM 106-205	B	5	34.76	0	.	5	34.76
DM 106-231	B	4	18.32	2	0.00	6	12.22
DM 106-252	B	1	13.30	0	.	1	13.30
DM 106-267	B	5	32.01	0	.	5	32.01
DM 106-292	B	1	2.80	0	.	1	2.80
DM 106-312	B	4	41.10	1	0.00	5	32.88
DM 106-332	B	2	7.12	0	.	2	7.12
DM 106-347	B	4	32.78	0	.	4	32.78
DM 106-357	B	.	.	.	.	.	.
DM 107	A	3	69.83	9	21.96	12	33.93
DM 109	A	.	.	.	.	.	.
DM 111	A	3	2452.00	8	156.03	11	782.20

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Table E6.3 (Continued)

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 112	A	3	3773.33	2	394.60	5	2421.84
DM 113	A	3	842.67	5	107.44	8	383.15
DM 114	A	3	3.33	2	0.45	5	2.18
DM 115	A	3	28.57	8	1.34	11	8.76
DM 117	A	3	174.63	10	117.05	13	130.34
DM 118	A	2	0.00	3	0.00	5	0.00
DM 119-072	A	2	1.34	0	.	2	1.34
DM 119-098	A	2	1.71	0	.	2	1.71
DM 119-137	I	2	1.83	7	0.61	9	0.88
DM 119-182	B	.	.	.	.	.	.
DM 119-204	B	2	3.15	7	1.47	9	1.84
DM 119-230	B	.	.	.	.	.	.
DM 119-244	B	2	2.70	0	.	2	2.70
DM 119-270	B	.	.	.	.	.	.
DM 119-284	B	2	1.04	0	.	2	1.04
DM 120	A	4	283.70	10	3.25	14	83.38
DM 121-043	A	2	10.05	1	0.00	3	6.70
DM 121-084	A	2	0.00	2	1.00	4	0.50
DM 121-125	I	2	40.25	5	2.50	7	13.29
DM 121-146	B	.	.	.	.	.	.
DM 121-159	B	2	20.15	2	0.00	4	10.08
DM 121-185	B	.	.	.	.	.	.
DM 121-219	B	2	0.00	5	0.66	7	0.47
DM 121-248	B	.	.	.	.	.	.

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Table E6.3 (Continued)

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 121-284	B	2	4.85	6	0.29	8	1.43
DM 122-A	A	2	0.00	8	1.95	10	1.56
DM 122-B	I	2	3.65	7	3.15	9	3.26
DM 123-056	I	2	4.08	1	0.00	3	2.72
DM 123-085	B	2	1.39	1	0.00	3	0.93
DM 123-111	B	.	.	.	.	.	.
DM 123-135	B	2	2.50	1	0.00	3	1.67
DM 123-156	B	.	.	.	.	.	.
DM 123-195	B	2	6.05	1	0.00	3	4.03
DM 123-226	B	.	.	.	.	.	.
DM 123-250	B	2	3.75	1	0.00	3	2.50
DM 123-285	B	2	2.30	1	0.00	3	1.53
DM 124	A	2	0.00	3	0.83	5	0.50
DM 125-046	A	2	0.08	5	0.00	7	0.02
DM 125-076	I	2	0.00	7	0.00	9	0.00
DM 125-125	B	2	0.00	5	0.06	7	0.04
DM 125-155	B	2	0.04	7	0.19	9	0.15
DM 125-185	B	2	1.35	7	0.25	9	0.50
DM 125-211	B	.	.	.	.	.	.
DM 125-236	B	.	.	.	.	.	.
DM 125-270	B	2	0.08	7	0.24	9	0.20
DM 126	A	3	39.40	7	0.01	10	11.83
DM 201	A	1	112.60	31	6547.58	32	6346.49
DM 201-OB1	A	0	.	17	51294.12	17	51294.12

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Table E6.3 (Continued)

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 201-OB2	A	0	.	5	11040.00	5	11040.00
DM 201-OB3	A	0	.	5	122.08	5	122.08
DM 202	A	0	.	4	11.65	4	11.65
DM 202-OB1	A	0	.	3	123.67	3	123.67
DM 202-OB2	A	1	13.80	3	23.33	4	20.95
DM 301	A	7	315931.43	0	.	7	315931.43
DM 302	A	8	6021.00	0	.	8	6021.00
DM 303	A	0	.	4	1022.50	4	1022.50
DM 304	A	0	.	4	902.50	4	902.50
DM 305	A	0	.	2	67.83	2	67.83
DM 306	A	0	.	2	125.00	2	125.00
DM 307	A	0	.	2	255.00	2	255.00
DM 308	A	0	.	2	560.00	2	560.00
DM 309	A	0	.	2	720.00	2	720.00
DM 310	A	0	.	2	210.00	2	210.00
DM 311	A	0	.	2	12.50	2	12.50
DM 312	A	0	.	2	4.80	2	4.80
DM 313	A	0	.	2	0.00	2	0.00
DM 501-147	A	0	.	6	2.47	6	2.47
DM 501-202	I	0	.	6	3.42	6	3.42
DM 501-267	B	0	.	6	3.08	6	3.08
DM 501-331	B	0	.	6	5.08	6	5.08
DM 501-387	B	0	.	6	9.58	6	9.58
DM 502-079	A	0	.	4	71.20	4	71.20

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Table E6.3 (Continued)

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 502-119	I	0	.	4	64.62	4	64.62
DM 502-161	B	0	.	4	37.30	4	37.30
DM 502-240	B	0	.	4	10.75	4	10.75
DM 502-335	B	0	.	4	14.10	4	14.10
DM 503	A	0	.	5	0.28	5	0.28
DM 504	A	0	.	7	12.83	7	12.83
DM 504OB1	A	.	.	.	.	.	.
DM 505	A	0	.	4	0.00	4	0.00
DM 506-100	A	0	.	3	13.13	3	13.13
DM 506-185	I	0	.	3	14.30	3	14.30
DM 506-240	B	0	.	3	10.77	3	10.77
DM 506-305	B	0	.	3	7.27	3	7.27
DM 506-375	B	0	.	3	14.97	3	14.97
DM 507-084	A	0	.	3	7.60	3	7.60
DM 507-188	I	0	.	3	47.77	3	47.77
DM 507-240	B	0	.	3	6.53	3	6.53
DM 507-280	B	0	.	3	9.27	3	9.27
DM 507-315	B	0	.	3	10.63	3	10.63
DM 508	A	0	.	3	0.00	3	0.00
DM 509	A	0	.	3	0.00	3	0.00
DM 601-040	I	0	.	2	337.00	2	337.00
DM 601-085	B	0	.	2	286.00	2	286.00
DM 601-135	B	0	.	2	150.05	2	150.05
DM 601-200	B	0	.	2	29.50	2	29.50

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Table E6.3 (Continued)

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 602	A	0	.	2	0.00	2	0.00
DM 603-068	A	0	.	2	0.65	2	0.65
DM 603-115	I	0	.	2	25.00	2	25.00
DM 603-170	B	0	.	2	0.00	2	0.00
DM 603-205	B	0	.	2	0.00	2	0.00
DM 603-245	B	0	.	2	0.00	2	0.00
DM 604	A	0	.	2	152.50	2	152.50
DM 605-066	A	0	.	2	2.80	2	2.80
DM 605-105	I	0	.	2	867.50	2	867.50
DM 605-170	B	0	.	2	1.25	2	1.25
DM 605-240	B	0	.	2	0.95	2	0.95
DM 605-290	B	0	.	2	1.55	2	1.55
DM 606-045	I	0	.	2	7.50	2	7.50
DM 606-102	B	0	.	2	3.25	2	3.25
DM 606-185	B	0	.	2	793.15	2	793.15
DM 606-250	B	0	.	2	9.55	2	9.55
DM 606-330	B	0	.	2	2.95	2	2.95
DM 606-370	B	0	.	2	2.50	2	2.50
DM 701	A	0	.	3	0.05	3	0.05
DW-1	B	5	9283.40	0	.	5	9283.40
MP 01-A	B	.	.	.	.	.	.
MP 01-B	B	.	.	.	.	.	.
MP 03-A	A	4	11701.25	0	.	4	11701.25
MP 03-B	I	6	243146.67	9	240163.33	15	241356.67

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Table E6.3 (Continued)

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 03-C	B	11	199881.82	3	73733.33	14	172850.00
MP 03-D	B	10	135301.00	3	103866.67	13	128046.92
MP 09-A	A	13	24142.31	8	10789.37	21	19055.48
MP 09-B	I	8	8065.00	2	101.50	10	6472.30
MP 09-C	B	8	5502.75	8	1760.15	16	3631.45
MP 09-D	B	6	8780.00	2	370.00	8	6677.50
MP 11-A	A	10	4698.20	7	650.71	17	3031.59
MP 11-B	I	10	1140.01	8	189.51	18	717.57
MP 11-C	B	6	29.72	6	7.97	12	18.84
MP 11-D	B	6	29.83	2	0.30	8	22.45
MP 13-A	A	6	85.17	0	.	6	85.17
MP 13-B	I	6	243.03	4	0.00	10	145.81
MP 13-C	B	4	44.65	4	0.00	8	22.32
MP 13-D	B	6	24.87	0	.	6	24.87
MP 16-A	A	6	40.50	10	27.91	16	32.63
MP 16-B	I	7	4.77	2	0.65	9	3.86
MP 16-C	B	5	33.14	8	0.24	13	12.89
MP 16-D	B	6	22.85	0	.	6	22.85
MP 20-A	I	6	81.02	2	0.80	8	60.97
MP 20-B	B	6	19.52	2	0.00	8	14.64
MP 20-C	B	6	25.11	2	0.00	8	18.83
MP 20-D	B	.	.	.	.	.	.
MP 25-A	I	5	18.93	0	.	5	18.93
MP 25-B	B	5	3.80	0	.	5	3.80

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Table E6.3 (Continued)

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 25-C	B	.	.	.	.	.	.
MP 25-D	B	5	4.06	2	0.15	7	2.94
MP 28-A	I	5	20.21	3	2.90	8	13.72
MP 28-B	B	6	9.77	2	0.00	8	7.32
MP 28-C	B	6	13.27	3	1.23	9	9.26
MP 28-D	B	6	19.40	2	0.40	8	14.65
MP 30-A	A	6	6.68	2	0.20	8	5.06
MP 30-B	I	5	10.72	1	0.00	6	8.94
MP 30-C	B	6	27.67	2	0.00	8	20.75
MP 30-D	B	5	14.06	1	0.00	6	11.72
MP 36-A	A	10	10535.80	9	180.24	19	5630.54
MP 36-B	I	10	45370.00	10	3359.50	20	24364.75
MP 36-C	B	6	21850.00	8	4538.13	14	11957.50
MP 36-D	B	6	228.17	10	710.00	16	529.31
MP 37-A	I	.	.	.	.	.	.
MP 37-B	B	0	.	1	1.70	1	1.70
MP 37-C	B	6	15.23	2	8.10	8	13.45
MP 38-A	B	.	.	.	.	.	.
MP 38-D	B	.	.	.	.	.	.
MP 48-C	B	7	281.99	0	.	7	281.99
MP 48-D	B	7	552.14	0	.	7	552.14
MP 48-E	B	7	1586.83	0	.	7	1586.83
MP 49-A	A	7	156.83	4	0.00	11	99.80
MP 49-B	I	8	724.84	7	295.57	15	524.51

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Table E6.3 (Continued)

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 49-C	B	8	996.98	7	1.14	15	532.25
MP 49-D	B	8	120.07	4	0.00	12	80.04
MP 50-A	A	7	25.62	3	4.13	10	19.18
MP 50-B	A	8	79.66	3	111.42	11	88.32
MP 50-C	I	.	.	.	.	.	.
MP 50-D	B	7	76.33	2	0.00	9	59.37
MP 51-A	A	7	33.71	3	0.00	10	23.60
MP 51-B	A	7	39.24	6	0.00	13	21.13
MP 51-C	I	8	233.36	5	0.00	13	143.61
MP 51-D	B	8	13.78	3	0.00	11	10.02
MP 52-A	A	.	.	.	.	.	.
MP 52-B	I	8	9.75	6	0.00	14	5.57
MP 52-C	B	7	17.37	0	.	7	17.37
MP 52-D	B	.	.	.	.	.	.
MP 53-A	A	.	.	.	.	.	.
MP 53-B	I	8	89.19	6	0.00	14	50.96
MP 53-C	B	8	67.04	6	0.01	14	38.31
MP 53-D	B	6	11.02	3	0.00	9	7.35
PZ01	A	5	37.04	0	.	5	37.04
PZ02	A	3	251.95	0	.	3	251.95
PZ03	A	6	1429.82	0	.	6	1429.82
PZ04	A	3	1313.33	0	.	3	1313.33
PZ05	A	4	1341.00	0	.	4	1341.00
PZ06	A	6	28286.00	0	.	6	28286.00

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.3 (Continued)

TCA + DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
PZ07	A	6	30403.33	0	.	6	30403.33
PZ08	A	6	516.35	0	.	6	516.35
PZ09	A	4	4315.00	0	.	4	4315.00
PZ10	A	4	24650.00	0	.	4	24650.00
SW-1	I	12	1450.52	0	.	12	1450.52
TOVREA	A	.	.	.	.	.	.
TURNA	A	2	360.50	0	.	2	360.50
WILLIS	A	3	254.03	1	20.00	4	195.53

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(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.4

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
16.9E6N	A	0	.	1	0.00	1	0.00
40&VB	A	3	0.46	1	0.00	4	0.35
4626G	A	3	0.29	5	0.24	8	0.26
48&VB	B	3	9.27	0	.	3	9.27
AZNGD	A	4	12.11	0	.	4	12.11
AZNGD N	A	3	1.30	0	.	3	1.30
AZNGD S	B	3	17.54	0	.	3	17.54
AZSLD	A	3	1.12	2	0.65	5	0.93
DM 101-025	A	.	.	.	.	.	.
DM 101-045	B	6	35.50	1	12.00	7	32.14
DM 101-055	B	3	47.33	7	1.31	10	15.12
DM 101-070	B	5	27.70	0	.	5	27.70
DM 101-094	B	3	55.93	0	.	3	55.93
DM 101-102	B	6	8.60	0	.	6	8.60
DM 101-114	B	3	27.50	0	.	3	27.50
DM 101-130	B	3	31.33	6	0.00	9	10.44
DM 101-140	B	6	14.00	0	.	6	14.00
DM 101B	A	5	77.89	0	.	5	77.89
DM 102-026	A	.	.	.	.	.	.
DM 102-048	A	10	239.24	0	.	10	239.24
DM 102-065	I	5	48.21	0	.	5	48.21
DM 102-082	B	10	202.48	0	.	10	202.48
DM 102-104	B	5	4.68	0	.	5	4.68
DM 102-119	B	13	40.03	0	.	13	40.03

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.4 (Continued)

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 102-144	B	5	55.60	0	.	5	55.60
DM 102-159	B	5	28.00	0	.	5	28.00
DM 102-186	B	.	.	.	.	.	.
DM 102-191	B	3	7.47	0	.	3	7.47
DM 102-213	B	.	.	.	.	.	.
DM 102-233	B	5	5.18	0	.	5	5.18
DM 102-253	B	.	.	.	.	.	.
DM 102-273	B	3	7.23	0	.	3	7.23
DM 102-299	B	8	61.30	0	.	8	61.30
DM 102-319	B	5	4.68	0	.	5	4.68
DM 102-344	B	.	.	.	.	.	.
DM 102-354	B	3	3.68	0	.	3	3.68
DM 102-377	B	3	5.37	0	.	3	5.37
DM 102-388	B	.	.	.	.	.	.
DM 102-404	B	5	6.92	0	.	5	6.92
DM 102-427	B	.	.	.	.	.	.
DM 102-454	B	3	6.47	0	.	3	6.47
DM 102-469	B	.	.	.	.	.	.
DM 102-489	B	5	4.02	0	.	5	4.02
DM 103-032	A	3	36.47	5	98.96	8	75.53
DM 103-047	I	5	147.60	8	106.06	13	122.04
DM 103-064	B	6	309.57	5	82.20	11	206.22
DM 103-079	B	6	1318.33	0	.	6	1318.33
DM 103-103	B	6	161.75	0	.	6	161.75

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0.00 = Not detected.

Table E6.4 (Continued)

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 103-123	B	6	6643.83	8	1738.75	14	3840.93
DM 103-148	B	4	5875.00	0	.	4	5875.00
DM 103-163	B	6	10473.33	0	.	6	10473.33
DM 103-178	B	7	25172.86	8	5040.65	15	14435.68
DM 103-203	B	6	11834.17	0	.	6	11834.17
DM 103-223	B	4	2516.25	8	4212.88	12	3647.33
DM 103-243	B	6	455.67	0	.	6	455.67
DM 103-269	B	4	96.45	6	1195.83	10	756.08
DM 103-289	B	6	18.27	0	.	6	18.27
DM 103-304	B	4	11.23	0	.	4	11.23
DM 103-324	B	5	22.78	6	41.12	11	32.78
DM 103-344	B	3	18.82	0	.	3	18.82
DM 103-364	B	3	24.62	0	.	3	24.62
DM 103-389	B	6	31.77	7	122.57	13	80.66
DM 104-040	A	3	3.97	2	2.13	5	3.23
DM 104-052	A	7	13.70	1	13.00	8	13.61
DM 104-079	A	7	146.83	5	106.42	12	129.99
DM 104-101	I	7	11.67	1	48.00	8	16.21
DM 104-124	B	0	.	1	0.00	1	0.00
DM 104-146	B	7	0.56	5	3.66	12	1.85
DM 104-158	B	4	0.54	1	0.00	5	0.43
DM 104-175	B	0	.	1	0.00	1	0.00
DM 104-191	B	6	0.84	1	0.00	7	0.72
DM 104-221	B	4	1.07	1	0.00	5	0.86

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Table E6.4 (Continued)

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 104-241	B	6	0.47	1	0.00	7	0.41
DM 104-261	B	4	0.61	1	0.00	5	0.49
DM 104-281	B	2	0.95	1	0.00	3	0.63
DM 104-293	B	2	0.00	1	0.00	3	0.00
DM 106-040	A	2	31.70	2	1.01	4	16.35
DM 106-062	A	4	61.43	2	1.11	6	41.32
DM 106-079	A	5	15.56	2	1.53	7	11.55
DM 106-101	A	6	2308.81	0	.	6	2308.81
DM 106-118	I	5	3456.00	2	2165.00	7	3087.14
DM 106-140	B	4	48.54	0	.	4	48.54
DM 106-160	B	5	272.40	2	18.77	7	199.94
DM 106-180	B	1	49.70	0	.	1	49.70
DM 106-205	B	5	146.08	0	.	5	146.08
DM 106-231	B	5	712.12	2	14.10	7	512.69
DM 106-252	B	1	99.50	0	.	1	99.50
DM 106-267	B	5	240.00	0	.	5	240.00
DM 106-292	B	1	13.20	0	.	1	13.20
DM 106-312	B	4	15.84	1	31.10	5	18.89
DM 106-332	B	2	8.16	0	.	2	8.16
DM 106-347	B	4	49.13	0	.	4	49.13
DM 106-357	B	.	.	.	.	.	.
DM 107	A	3	288.33	9	228.40	12	243.38
DM 109	A	.	.	.	.	.	.
DM 111	A	3	236.67	8	90.66	11	130.48

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0.00 = Not detected.

Table E6.4 (Continued)

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 112	A	3	756.67	2	720.00	5	742.00
DM 113	A	3	904.00	5	804.52	8	841.83
DM 114	A	3	4.83	2	13.00	5	8.10
DM 115	A	3	1038.00	8	142.99	11	387.08
DM 117	A	3	516.67	10	143.10	13	229.31
DM 118	A	2	0.00	3	2.87	5	1.72
DM 119-072	A	2	0.00	0	.	2	0.00
DM 119-098	A	2	0.00	0	.	2	0.00
DM 119-137	I	2	0.00	7	0.06	9	0.04
DM 119-182	B	.	.	.	.	.	.
DM 119-204	B	2	0.00	7	1.10	9	0.86
DM 119-230	B	.	.	.	.	.	.
DM 119-244	B	2	0.00	0	.	2	0.00
DM 119-270	B	.	.	.	.	.	.
DM 119-284	B	2	0.09	0	.	2	0.09
DM 120	A	4	730.62	10	135.87	14	305.80
DM 121-043	A	2	107.95	1	25.00	3	80.30
DM 121-084	A	2	148.65	2	45.35	4	97.00
DM 121-125	I	2	1795.00	5	479.51	7	855.37
DM 121-146	B	.	.	.	.	.	.
DM 121-159	B	2	161.00	2	47.40	4	104.20
DM 121-185	B	.	.	.	.	.	.
DM 121-219	B	2	257.50	5	19.63	7	87.59
DM 121-248	B	.	.	.	.	.	.

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.4 (Continued)

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 121-284	B	2	79.65	6	69.39	8	71.96
DM 122-A	A	2	2.70	8	9.88	10	8.45
DM 122-B	I	2	1.22	7	2.10	9	1.91
DM 123-056	I	2	0.09	1	0.00	3	0.06
DM 123-085	B	2	0.00	1	0.00	3	0.00
DM 123-111	B	.	.	.	.	.	.
DM 123-135	B	2	0.00	1	0.00	3	0.00
DM 123-156	B	.	.	.	.	.	.
DM 123-195	B	2	0.00	1	0.00	3	0.00
DM 123-226	B	.	.	.	.	.	.
DM 123-250	B	2	0.00	1	0.00	3	0.00
DM 123-285	B	2	0.00	1	0.00	3	0.00
DM 124	A	2	4.80	3	14.60	5	10.68
DM 125-046	A	2	0.11	5	0.00	7	0.03
DM 125-076	I	2	0.46	7	0.65	9	0.61
DM 125-125	B	2	19.55	5	1.30	7	6.51
DM 125-155	B	2	10.85	7	3.06	9	4.79
DM 125-185	B	2	15.30	7	5.70	9	7.83
DM 125-211	B	.	.	.	.	.	.
DM 125-236	B	.	.	.	.	.	.
DM 125-270	B	2	10.95	7	1.65	9	3.71
DM 126	A	3	17.60	7	0.96	10	5.95
DM 201	A	1	241.00	31	25.76	32	32.49
DM 201-OB1	A	0	.	17	6.94	17	6.94

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0.00 = Not detected.

Table E6.4 (Continued)

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 201-OB2	A	0	.	5	69.60	5	69.60
DM 201-OB3	A	0	.	5	63.96	5	63.96
DM 202	A	0	.	4	271.25	4	271.25
DM 202-OB1	A	0	.	3	2633.33	3	2633.33
DM 202-OB2	A	1	351.00	3	368.33	4	364.00
DM 301	A	7	61202.86	0	.	7	61202.86
DM 302	A	8	241921.25	0	.	8	241921.25
DM 303	A	0	.	4	855.00	4	855.00
DM 304	A	0	.	4	975.00	4	975.00
DM 305	A	0	.	2	4166.67	2	4166.67
DM 306	A	0	.	2	4350.00	2	4350.00
DM 307	A	0	.	2	3200.00	2	3200.00
DM 308	A	0	.	2	1850.00	2	1850.00
DM 309	A	0	.	2	630.00	2	630.00
DM 310	A	0	.	2	535.00	2	535.00
DM 311	A	0	.	2	160.00	2	160.00
DM 312	A	0	.	2	33.50	2	33.50
DM 313	A	0	.	2	1.00	2	1.00
DM 501-147	A	0	.	6	13.04	6	13.04
DM 501-202	I	0	.	6	63.68	6	63.68
DM 501-267	B	0	.	6	3.62	6	3.62
DM 501-331	B	0	.	6	0.03	6	0.03
DM 501-387	B	0	.	6	0.13	6	0.13
DM 502-079	A	0	.	4	108.17	4	108.17

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.4 (Continued)

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 502-119	I	0	.	4	99.35	4	99.35
DM 502-161	B	0	.	4	34.98	4	34.98
DM 502-240	B	0	.	4	12.58	4	12.58
DM 502-335	B	0	.	4	10.28	4	10.28
DM 503	A	0	.	5	6.92	5	6.92
DM 504	A	0	.	7	969.21	7	969.21
DM 504OB1	A	.	.	.	.	.	.
DM 505	A	0	.	4	0.95	4	0.95
DM 506-100	A	0	.	3	53.70	3	53.70
DM 506-185	I	0	.	3	130.33	3	130.33
DM 506-240	B	0	.	3	26.83	3	26.83
DM 506-305	B	0	.	3	17.67	3	17.67
DM 506-375	B	0	.	3	14.87	3	14.87
DM 507-084	A	0	.	3	586.67	3	586.67
DM 507-188	I	0	.	3	312.33	3	312.33
DM 507-240	B	0	.	3	259.00	3	259.00
DM 507-280	B	0	.	3	284.33	3	284.33
DM 507-315	B	0	.	3	158.67	3	158.67
DM 508	A	0	.	3	0.33	3	0.33
DM 509	A	0	.	3	344.83	3	344.83
DM 601-040	I	0	.	2	395.00	2	395.00
DM 601-085	B	0	.	2	250.00	2	250.00
DM 601-135	B	0	.	2	230.00	2	230.00
DM 601-200	B	0	.	2	4345.00	2	4345.00

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0.00 = Not detected.

Table E6.4 (Continued)

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 602	A	0	.	2	1.55	2	1.55
DM 603-068	A	0	.	2	11.68	2	11.68
DM 603-115	I	0	.	2	1300.00	2	1300.00
DM 603-170	B	0	.	2	6100.00	2	6100.00
DM 603-205	B	0	.	2	5400.00	2	5400.00
DM 603-245	B	0	.	2	6450.00	2	6450.00
DM 604	A	0	.	2	887.50	2	887.50
DM 605-066	A	0	.	2	2.60	2	2.60
DM 605-105	I	0	.	2	512.50	2	512.50
DM 605-170	B	0	.	2	0.85	2	0.85
DM 605-240	B	0	.	2	0.70	2	0.70
DM 605-290	B	0	.	2	0.90	2	0.90
DM 606-045	I	0	.	2	97.00	2	97.00
DM 606-102	B	0	.	2	370.00	2	370.00
DM 606-185	B	0	.	2	8600.00	2	8600.00
DM 606-250	B	0	.	2	110.00	2	110.00
DM 606-330	B	0	.	2	27.00	2	27.00
DM 606-370	B	0	.	2	2.60	2	2.60
DM 701	A	0	.	3	0.12	3	0.12
DW-1	B	5	33604.00	0	.	5	33604.00
MP 01-A	B	.	.	.	.	.	.
MP 01-B	B	.	.	.	.	.	.
MP 03-A	A	4	12322.50	0	.	4	12322.50
MP 03-B	I	6	26425.00	9	9305.56	15	16153.33

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Table E6.4 (Continued)

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 03-C	B	11	1791700.00	3	1092333.33	14	1641835.71
MP 03-D	B	10	1628710.00	3	2376666.67	13	1801315.38
MP 09-A	A	13	49338.85	8	12797.50	21	35418.33
MP 09-B	I	8	25595.00	2	2450.00	10	20966.00
MP 09-C	B	8	22277.50	8	7100.88	16	14689.19
MP 09-D	B	6	27383.33	2	2425.00	8	21143.75
MP 11-A	A	10	1711.40	7	904.71	17	1379.24
MP 11-B	I	10	368.89	8	1110.38	18	698.44
MP 11-C	B	6	409.50	6	650.00	12	529.75
MP 11-D	B	6	146.53	2	12.20	8	112.95
MP 13-A	A	6	36.03	0	.	6	36.03
MP 13-B	I	6	3769.17	4	1442.50	10	2838.50
MP 13-C	B	4	91.27	4	4.60	8	47.94
MP 13-D	B	6	43.52	0	.	6	43.52
MP 16-A	A	6	58.38	10	23.72	16	36.72
MP 16-B	I	7	11.41	2	8.85	9	10.84
MP 16-C	B	5	26.68	8	4.50	13	13.03
MP 16-D	B	6	128.93	0	.	6	128.93
MP 20-A	I	6	152.10	2	0.18	8	114.12
MP 20-B	B	6	81.50	2	0.00	8	61.12
MP 20-C	B	6	73.42	2	0.00	8	55.07
MP 20-D	B	.	.	.	.	.	.
MP 25-A	I	5	14.35	0	.	5	14.35
MP 25-B	B	5	12.81	0	.	5	12.81

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.4 (Continued)

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 25-C	B	.	.	.	.	.	.
MP 25-D	B	5	19.47	2	14.70	7	18.11
MP 28-A	I	5	10.87	3	33.80	8	19.47
MP 28-B	B	6	27.85	2	1.20	8	21.19
MP 28-C	B	6	44.96	3	12.63	9	34.19
MP 28-D	B	6	20.35	2	0.25	8	15.32
MP 30-A	A	6	20.48	2	3.30	8	16.19
MP 30-B	I	5	59.55	1	9.80	6	51.26
MP 30-C	B	6	188.00	2	71.80	8	158.95
MP 30-D	B	5	78.28	1	6.10	6	66.25
MP 36-A	A	10	8337.50	9	1014.33	19	4868.63
MP 36-B	I	10	7643.00	10	2361.80	20	5002.40
MP 36-C	B	6	22554.17	8	3221.25	14	11506.79
MP 36-D	B	6	115350.00	10	260500.00	16	206068.75
MP 37-A	I	.	.	.	.	.	.
MP 37-B	B	0	.	1	26.30	1	26.30
MP 37-C	B	6	176.37	2	215.00	8	186.03
MP 38-A	B	.	.	.	.	.	.
MP 38-D	B	.	.	.	.	.	.
MP 48-C	B	7	3405.00	0	.	7	3405.00
MP 48-D	B	7	21132.47	0	.	7	21132.47
MP 48-E	B	7	11131.43	0	.	7	11131.43
MP 49-A	A	7	998.94	4	13.65	11	640.65
MP 49-B	I	8	5410.00	7	6027.86	15	5698.33

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.4 (Continued)

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 49-C	B	8	4177.00	7	3129.36	15	3688.10
MP 49-D	B	8	864.86	4	30.13	12	586.62
MP 50-A	A	7	66.29	3	97.90	10	75.77
MP 50-B	A	8	200.66	3	421.50	11	260.89
MP 50-C	I	.	.	.	.	.	.
MP 50-D	B	7	1228.57	2	1935.00	9	1385.56
MP 51-A	A	7	378.79	3	19.77	10	271.09
MP 51-B	A	7	299.00	6	130.67	13	221.31
MP 51-C	I	8	1514.00	5	2026.00	13	1710.92
MP 51-D	B	8	5.81	3	0.07	11	4.25
MP 52-A	A	.	.	.	.	.	.
MP 52-B	I	8	12.89	6	1.12	14	7.85
MP 52-C	B	7	60.52	0	.	7	60.52
MP 52-D	B	.	.	.	.	.	.
MP 53-A	A	.	.	.	.	.	.
MP 53-B	I	8	82.59	6	0.03	14	47.21
MP 53-C	B	8	329.25	6	0.56	14	188.38
MP 53-D	B	6	35.57	3	0.65	9	23.93
PZ01	A	5	362.58	0	.	5	362.58
PZ02	A	3	133.67	0	.	3	133.67
PZ03	A	6	146.72	0	.	6	146.72
PZ04	A	3	180.83	0	.	3	180.83
PZ05	A	4	471.25	0	.	4	471.25
PZ06	A	6	3782.50	0	.	6	3782.50

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.4 (Continued)

TCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
PZ07	A	6	21650.00	0	.	6	21650.00
PZ08	A	6	114.30	0	.	6	114.30
PZ09	A	4	8222.50	0	.	4	8222.50
PZ10	A	4	14922.50	0	.	4	14922.50
SW-1	I	12	10625.00	0	.	12	10625.00
TOVREA	A	.	.	.	.	.	.
TURNA	A	2	3680.00	0	.	2	3680.00
WILLIS	A	3	818.33	1	650.00	4	776.25

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0.00 = Not detected.

Table E6.5

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
16.9E6N	A	0	.	1	0.00	1	0.00
40&VB	A	3	0.90	1	0.00	4	0.68
4626G	A	3	0.25	5	0.00	8	0.09
48&VB	B	3	16.53	0	.	3	16.53
AZNGD	A	4	16.01	0	.	4	16.01
AZNGD N	A	3	0.87	0	.	3	0.87
AZNGD S	B	3	1.63	0	.	3	1.63
AZSLD	A	3	1.18	2	0.00	5	0.71
DM 101-025	A	.	.	.	.	.	.
DM 101-045	B	6	181.70	1	0.00	7	155.75
DM 101-055	B	3	256.67	7	2.57	10	78.80
DM 101-070	B	5	83.03	0	.	5	83.03
DM 101-094	B	3	164.13	0	.	3	164.13
DM 101-102	B	6	187.23	0	.	6	187.23
DM 101-114	B	3	309.30	0	.	3	309.30
DM 101-130	B	3	352.87	6	3.83	9	120.18
DM 101-140	B	6	121.07	0	.	6	121.07
DM 101B	A	5	1066.80	0	.	5	1066.80
DM 102-026	A	.	.	.	.	.	.
DM 102-048	A	10	1382.76	0	.	10	1382.76
DM 102-065	I	5	13.70	0	.	5	13.70
DM 102-082	B	10	1170.29	0	.	10	1170.29
DM 102-104	B	5	15.04	0	.	5	15.04
DM 102-119	B	13	318.44	0	.	13	318.44

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(3) Data obtained from 1987 through 1991 inclusive.

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Table E6.5 (Continued)

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 102-144	B	5	255.94	0	.	5	255.94
DM 102-159	B	5	206.56	0	.	5	206.56
DM 102-186	B	.	.	.	.	.	.
DM 102-191	B	3	33.43	0	.	3	33.43
DM 102-213	B	.	.	.	.	.	.
DM 102-233	B	5	13.46	0	.	5	13.46
DM 102-253	B	.	.	.	.	.	.
DM 102-273	B	3	26.73	0	.	3	26.73
DM 102-299	B	8	372.05	0	.	8	372.05
DM 102-319	B	5	88.10	0	.	5	88.10
DM 102-344	B	.	.	.	.	.	.
DM 102-354	B	3	11.63	0	.	3	11.63
DM 102-377	B	3	24.80	0	.	3	24.80
DM 102-388	B	.	.	.	.	.	.
DM 102-404	B	5	34.09	0	.	5	34.09
DM 102-427	B	.	.	.	.	.	.
DM 102-454	B	3	29.53	0	.	3	29.53
DM 102-469	B	.	.	.	.	.	.
DM 102-489	B	5	32.35	0	.	5	32.35
DM 103-032	A	3	11.80	5	0.00	8	4.42
DM 103-047	I	4	40.13	8	1.50	12	14.38
DM 103-064	B	5	71.18	5	0.00	10	35.59
DM 103-079	B	5	130.64	0	.	5	130.64
DM 103-103	B	5	287.41	0	.	5	287.41

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Table E6.5 (Continued)

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 103-123	B	6	388.73	8	0.00	14	166.60
DM 103-148	B	4	185.07	0	.	4	185.07
DM 103-163	B	6	1811.33	0	.	6	1811.33
DM 103-178	B	7	1379.29	8	2.12	15	644.80
DM 103-203	B	6	1113.83	0	.	6	1113.83
DM 103-223	B	4	185.25	8	4.00	12	64.42
DM 103-243	B	6	31.60	0	.	6	31.60
DM 103-269	B	4	24.63	6	0.27	10	10.01
DM 103-289	B	6	17.83	0	.	6	17.83
DM 103-304	B	4	11.00	0	.	4	11.00
DM 103-324	B	5	31.14	6	0.00	11	14.15
DM 103-344	B	3	21.95	0	.	3	21.95
DM 103-364	B	3	7.93	0	.	3	7.93
DM 103-389	B	6	23.02	7	0.20	13	10.73
DM 104-040	A	3	11.08	2	0.00	5	6.65
DM 104-052	A	7	21.43	1	0.00	8	18.75
DM 104-079	A	7	20.10	5	22.43	12	21.07
DM 104-101	I	7	5.12	1	0.00	8	4.48
DM 104-124	B	0	.	1	0.00	1	0.00
DM 104-146	B	7	42.84	5	0.00	12	24.99
DM 104-158	B	4	2.23	1	0.00	5	1.78
DM 104-175	B	0	.	1	0.00	1	0.00
DM 104-191	B	6	2.49	1	0.00	7	2.14
DM 104-221	B	4	2.05	1	0.00	5	1.64

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Table E6.5 (Continued)

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 104-241	B	6	5.79	1	0.00	7	4.96
DM 104-261	B	4	1.62	1	0.00	5	1.30
DM 104-281	B	2	6.75	1	0.00	3	4.50
DM 104-293	B	2	0.17	1	0.00	3	0.12
DM 106-040	A	2	0.85	2	0.00	4	0.42
DM 106-062	A	4	22.35	2	0.00	6	14.90
DM 106-079	A	5	19.61	2	0.00	7	14.01
DM 106-101	A	5	310.61	0	.	5	310.61
DM 106-118	I	4	14.45	2	0.38	6	9.76
DM 106-140	B	4	8.60	0	.	4	8.60
DM 106-160	B	5	24.62	2	0.10	7	17.61
DM 106-180	B	1	2.50	0	.	1	2.50
DM 106-205	B	5	34.76	0	.	5	34.76
DM 106-231	B	4	18.32	2	0.00	6	12.22
DM 106-252	B	1	11.50	0	.	1	11.50
DM 106-267	B	5	31.40	0	.	5	31.40
DM 106-292	B	1	2.80	0	.	1	2.80
DM 106-312	B	4	38.86	1	0.00	5	31.09
DM 106-332	B	2	7.12	0	.	2	7.12
DM 106-347	B	4	29.55	0	.	4	29.55
DM 106-357	B	.	.	.	.	.	.
DM 107	A	3	65.07	9	1.12	12	17.11
DM 109	A	.	.	.	.	.	.
DM 111	A	3	718.67	8	3.41	11	198.48

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Table E6.5 (Continued)

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 112	A	3	840.00	2	9.60	5	507.84
DM 113	A	3	547.33	5	54.42	8	239.26
DM 114	A	3	3.33	2	0.20	5	2.08
DM 115	A	3	3.07	8	0.00	11	0.84
DM 117	A	3	153.33	10	66.55	13	86.58
DM 118	A	2	0.00	3	0.00	5	0.00
DM 119-072	A	2	1.26	0	.	2	1.26
DM 119-098	A	2	1.71	0	.	2	1.71
DM 119-137	I	2	1.67	7	0.61	9	0.85
DM 119-182	B	.	.	.	.	.	.
DM 119-204	B	2	3.15	7	1.47	9	1.84
DM 119-230	B	.	.	.	.	.	.
DM 119-244	B	2	2.70	0	.	2	2.70
DM 119-270	B	.	.	.	.	.	.
DM 119-284	B	2	1.04	0	.	2	1.04
DM 120	A	4	283.70	10	2.87	14	83.11
DM 121-043	A	2	1.55	1	0.00	3	1.03
DM 121-084	A	2	0.00	2	0.00	4	0.00
DM 121-125	I	2	40.25	5	2.20	7	13.07
DM 121-146	B	.	.	.	.	.	.
DM 121-159	B	2	20.15	2	0.00	4	10.08
DM 121-185	B	.	.	.	.	.	.
DM 121-219	B	2	0.00	5	0.66	7	0.47
DM 121-248	B	.	.	.	.	.	.

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Table E6.5 (Continued)

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 121-284	B	2	4.85	6	0.29	8	1.43
DM 122-A	A	2	0.00	8	1.38	10	1.11
DM 122-B	I	2	3.65	7	2.86	9	3.03
DM 123-056	I	2	4.08	1	0.00	3	2.72
DM 123-085	B	2	1.39	1	0.00	3	0.93
DM 123-111	B	.	.	.	.	.	.
DM 123-135	B	2	2.50	1	0.00	3	1.67
DM 123-156	B	.	.	.	.	.	.
DM 123-195	B	2	6.05	1	0.00	3	4.03
DM 123-226	B	.	.	.	.	.	.
DM 123-250	B	2	3.75	1	0.00	3	2.50
DM 123-285	B	2	2.30	1	0.00	3	1.53
DM 124	A	2	0.00	3	0.73	5	0.44
DM 125-046	A	2	0.08	5	0.00	7	0.02
DM 125-076	I	2	0.00	7	0.00	9	0.00
DM 125-125	B	2	0.00	5	0.06	7	0.04
DM 125-155	B	2	0.04	7	0.19	9	0.15
DM 125-185	B	2	1.35	7	0.25	9	0.50
DM 125-211	B	.	.	.	.	.	.
DM 125-236	B	.	.	.	.	.	.
DM 125-270	B	2	0.08	7	0.24	9	0.20
DM 126	A	3	39.03	7	0.01	10	11.72
DM 201	A	1	80.00	31	4047.10	32	3923.13
DM 201-OB1	A	0	.	17	29235.29	17	29235.29

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Table E6.5 (Continued)

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 201-OB2	A	0	.	5	6760.00	5	6760.00
DM 201-OB3	A	0	.	5	76.52	5	76.52
DM 202	A	0	.	4	0.75	4	0.75
DM 202-OB1	A	0	.	3	0.00	3	0.00
DM 202-OB2	A	1	13.80	3	1.00	4	4.20
DM 301	A	7	307431.43	0	.	7	307431.43
DM 302	A	8	5842.50	0	.	8	5842.50
DM 303	A	0	.	4	590.00	4	590.00
DM 304	A	0	.	4	432.50	4	432.50
DM 305	A	0	.	2	0.00	2	0.00
DM 306	A	0	.	2	0.00	2	0.00
DM 307	A	0	.	2	0.00	2	0.00
DM 308	A	0	.	2	0.00	2	0.00
DM 309	A	0	.	2	0.00	2	0.00
DM 310	A	0	.	2	0.00	2	0.00
DM 311	A	0	.	2	0.00	2	0.00
DM 312	A	0	.	2	0.00	2	0.00
DM 313	A	0	.	2	0.00	2	0.00
DM 501-147	A	0	.	6	2.47	6	2.47
DM 501-202	I	0	.	6	3.38	6	3.38
DM 501-267	B	0	.	6	3.08	6	3.08
DM 501-331	B	0	.	6	5.08	6	5.08
DM 501-387	B	0	.	6	9.35	6	9.35
DM 502-079	A	0	.	4	12.60	4	12.60

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Table E6.5 (Continued)

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 502-119	I	0	.	4	6.17	4	6.17
DM 502-161	B	0	.	4	5.08	4	5.08
DM 502-240	B	0	.	4	3.55	4	3.55
DM 502-335	B	0	.	4	7.92	4	7.92
DM 503	A	0	.	5	0.28	5	0.28
DM 504	A	0	.	7	7.29	7	7.29
DM 504OB1	A	.	.	.	.	.	.
DM 505	A	0	.	4	0.00	4	0.00
DM 506-100	A	0	.	3	7.87	3	7.87
DM 506-185	I	0	.	3	9.77	3	9.77
DM 506-240	B	0	.	3	7.53	3	7.53
DM 506-305	B	0	.	3	6.47	3	6.47
DM 506-375	B	0	.	3	13.23	3	13.23
DM 507-084	A	0	.	3	6.57	3	6.57
DM 507-188	I	0	.	3	5.63	3	5.63
DM 507-240	B	0	.	3	5.30	3	5.30
DM 507-280	B	0	.	3	8.50	3	8.50
DM 507-315	B	0	.	3	10.10	3	10.10
DM 508	A	0	.	3	0.00	3	0.00
DM 509	A	0	.	3	0.00	3	0.00
DM 601-040	I	0	.	2	12.00	2	12.00
DM 601-085	B	0	.	2	116.00	2	116.00
DM 601-135	B	0	.	2	62.05	2	62.05
DM 601-200	B	0	.	2	15.00	2	15.00

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(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.5 (Continued)

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 602	A	0	.	2	0.00	2	0.00
DM 603-068	A	0	.	2	0.65	2	0.65
DM 603-115	I	0	.	2	0.00	2	0.00
DM 603-170	B	0	.	2	0.00	2	0.00
DM 603-205	B	0	.	2	0.00	2	0.00
DM 603-245	B	0	.	2	0.00	2	0.00
DM 604	A	0	.	2	0.00	2	0.00
DM 605-066	A	0	.	2	0.85	2	0.85
DM 605-105	I	0	.	2	0.00	2	0.00
DM 605-170	B	0	.	2	0.45	2	0.45
DM 605-240	B	0	.	2	0.85	2	0.85
DM 605-290	B	0	.	2	1.55	2	1.55
DM 606-045	I	0	.	2	1.20	2	1.20
DM 606-102	B	0	.	2	0.00	2	0.00
DM 606-185	B	0	.	2	3.15	2	3.15
DM 606-250	B	0	.	2	2.40	2	2.40
DM 606-330	B	0	.	2	2.10	2	2.10
DM 606-370	B	0	.	2	2.50	2	2.50
DM 701	A	0	.	3	0.05	3	0.05
DW-1	B	5	9236.80	0	.	5	9236.80
MP 01-A	B	.	.	.	.	.	.
MP 01-B	B	.	.	.	.	.	.
MP 03-A	A	4	8196.25	0	.	4	8196.25
MP 03-B	I	6	201341.67	9	226555.56	15	216470.00

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.5 (Continued)

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 03-C	B	11	190281.82	3	72900.00	14	165128.57
MP 03-D	B	10	133836.00	3	102000.00	13	126489.23
MP 09-A	A	13	18810.00	8	7032.50	21	14323.33
MP 09-B	I	8	5790.00	2	46.50	10	4641.30
MP 09-C	B	8	4236.25	8	1445.54	16	2840.89
MP 09-D	B	6	6051.67	2	140.00	8	4573.75
MP 11-A	A	10	3269.10	7	267.57	17	2033.18
MP 11-B	I	10	864.07	8	114.87	18	531.09
MP 11-C	B	6	23.40	6	0.00	12	11.70
MP 11-D	B	6	28.33	2	0.00	8	21.25
MP 13-A	A	6	84.47	0	.	6	84.47
MP 13-B	I	6	213.05	4	0.00	10	127.83
MP 13-C	B	4	44.13	4	0.00	8	22.06
MP 13-D	B	6	20.40	0	.	6	20.40
MP 16-A	A	6	30.20	10	13.88	16	20.00
MP 16-B	I	7	3.42	2	0.25	9	2.72
MP 16-C	B	5	26.22	8	0.19	13	10.20
MP 16-D	B	6	19.91	0	.	6	19.91
MP 20-A	I	6	77.90	2	0.80	8	58.63
MP 20-B	B	6	18.91	2	0.00	8	14.18
MP 20-C	B	6	24.65	2	0.00	8	18.49
MP 20-D	B	.	.	.	.	.	.
MP 25-A	I	5	16.78	0	.	5	16.78
MP 25-B	B	5	3.80	0	.	5	3.80

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.5 (Continued)

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 25-C	B	.	.	.	.	.	.
MP 25-D	B	5	4.06	2	0.15	7	2.94
MP 28-A	I	5	20.09	3	2.30	8	13.42
MP 28-B	B	6	9.18	2	0.00	8	6.89
MP 28-C	B	6	12.78	3	1.23	9	8.93
MP 28-D	B	6	18.48	2	0.40	8	13.96
MP 30-A	A	6	6.08	2	0.20	8	4.61
MP 30-B	I	5	10.17	1	0.00	6	8.48
MP 30-C	B	6	27.43	2	0.00	8	20.57
MP 30-D	B	5	13.62	1	0.00	6	11.35
MP 36-A	A	10	4751.80	9	64.57	19	2531.53
MP 36-B	I	10	35215.00	10	2125.00	20	18670.00
MP 36-C	B	6	14632.50	8	2878.13	14	7915.71
MP 36-D	B	6	2.33	10	0.00	16	0.88
MP 37-A	I	.	.	.	.	.	.
MP 37-B	B	0	.	1	0.00	1	0.00
MP 37-C	B	6	13.88	2	8.10	8	12.44
MP 38-A	B	.	.	.	.	.	.
MP 38-D	B	.	.	.	.	.	.
MP 48-C	B	7	242.89	0	.	7	242.89
MP 48-D	B	7	552.14	0	.	7	552.14
MP 48-E	B	7	1556.53	0	.	7	1556.53
MP 49-A	A	7	156.07	4	0.00	11	99.32
MP 49-B	I	8	368.59	7	38.43	15	214.51

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.5 (Continued)

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 49-C	B	8	994.24	7	0.00	15	530.26
MP 49-D	B	8	111.37	4	0.00	12	74.25
MP 50-A	A	7	25.15	3	0.00	10	17.61
MP 50-B	A	8	76.86	3	0.00	11	55.90
MP 50-C	I	.	.	.	.	.	.
MP 50-D	B	7	73.43	2	0.00	9	57.11
MP 51-A	A	7	31.41	3	0.00	10	21.99
MP 51-B	A	7	34.79	6	0.00	13	18.73
MP 51-C	I	8	182.46	5	0.00	13	112.28
MP 51-D	B	8	13.05	3	0.00	11	9.49
MP 52-A	A	.	.	.	.	.	.
MP 52-B	I	8	8.68	6	0.00	14	4.96
MP 52-C	B	7	16.84	0	.	7	16.84
MP 52-D	B	.	.	.	.	.	.
MP 53-A	A	.	.	.	.	.	.
MP 53-B	I	8	75.60	6	0.00	14	43.20
MP 53-C	B	8	66.11	6	0.01	14	37.78
MP 53-D	B	6	10.46	3	0.00	9	6.98
PZ01	A	5	14.92	0	.	5	14.92
PZ02	A	3	100.98	0	.	3	100.98
PZ03	A	6	541.58	0	.	6	541.58
PZ04	A	3	856.33	0	.	3	856.33
PZ05	A	4	758.52	0	.	4	758.52
PZ06	A	6	22821.67	0	.	6	22821.67

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.5 (Continued)

TCA FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
PZ07	A	6	23995.83	0	.	6	23995.83
PZ08	A	6	506.27	0	.	6	506.27
PZ09	A	4	2955.00	0	.	4	2955.00
PZ10	A	4	18465.00	0	.	4	18465.00
SW-1	I	12	1214.58	0	.	12	1214.58
TOVREA	A	.	.	.	.	.	.
TURNA	A	2	360.50	0	.	2	360.50
WILLIS	A	3	254.03	1	0.00	4	190.53

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.6

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
16.9E6N	A	0	.	1	0.00	1	0.00
40&VB	A	3	0.00	1	0.00	4	0.00
4626G	A	3	0.00	5	0.00	8	0.00
48&VB	B	3	0.00	0	.	3	0.00
AZNGD	A	4	0.05	0	.	4	0.05
AZNGD N	A	3	0.00	0	.	3	0.00
AZNGD S	B	3	0.00	0	.	3	0.00
AZSLD	A	3	0.33	2	0.00	5	0.20
DM 101-025	A	.	.	.	.	.	.
DM 101-045	B	6	0.00	1	0.00	7	0.00
DM 101-055	B	3	0.00	7	0.00	10	0.00
DM 101-070	B	5	0.00	0	.	5	0.00
DM 101-094	B	3	0.00	0	.	3	0.00
DM 101-102	B	6	0.00	0	.	6	0.00
DM 101-114	B	3	0.00	0	.	3	0.00
DM 101-130	B	3	42.67	6	0.00	9	14.22
DM 101-140	B	6	13.23	0	.	6	13.23
DM 101B	A	5	66.68	0	.	5	66.68
DM 102-026	A	.	.	.	.	.	.
DM 102-048	A	10	201.77	0	.	10	201.77
DM 102-065	I	5	6.04	0	.	5	6.04
DM 102-082	B	10	123.76	0	.	10	123.76
DM 102-104	B	5	9.22	0	.	5	9.22
DM 102-119	B	13	40.08	0	.	13	40.08

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(3) Data obtained from 1987 through 1991 inclusive.

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Table E6.6 (Continued)

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 102-144	B	5	20.80	0	.	5	20.80
DM 102-159	B	5	60.82	0	.	5	60.82
DM 102-186	B	.	.	.	.	.	.
DM 102-191	B	3	11.02	0	.	3	11.02
DM 102-213	B	.	.	.	.	.	.
DM 102-233	B	5	8.38	0	.	5	8.38
DM 102-253	B	.	.	.	.	.	.
DM 102-273	B	3	0.00	0	.	3	0.00
DM 102-299	B	8	40.11	0	.	8	40.11
DM 102-319	B	5	4.68	0	.	5	4.68
DM 102-344	B	.	.	.	.	.	.
DM 102-354	B	3	0.57	0	.	3	0.57
DM 102-377	B	3	2.50	0	.	3	2.50
DM 102-388	B	.	.	.	.	.	.
DM 102-404	B	5	9.47	0	.	5	9.47
DM 102-427	B	.	.	.	.	.	.
DM 102-454	B	3	19.07	0	.	3	19.07
DM 102-469	B	.	.	.	.	.	.
DM 102-489	B	5	0.80	0	.	5	0.80
DM 103-032	A	3	3.07	5	0.00	8	1.15
DM 103-047	I	5	34.64	8	2.26	13	14.72
DM 103-064	B	6	27.85	5	5.84	11	17.85
DM 103-079	B	6	2.92	0	.	6	2.92
DM 103-103	B	6	2.68	0	.	6	2.68

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0.00 = Not detected.

Table E6.6 (Continued)

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 103-123	B	6	46.95	8	5.19	14	23.09
DM 103-148	B	4	29.62	0	.	4	29.62
DM 103-163	B	6	34.87	0	.	6	34.87
DM 103-178	B	7	52.14	8	0.00	15	24.33
DM 103-203	B	6	26.33	0	.	6	26.33
DM 103-223	B	4	0.00	8	3.04	12	2.02
DM 103-243	B	6	1.03	0	.	6	1.03
DM 103-269	B	4	0.00	6	0.12	10	0.07
DM 103-289	B	6	0.80	0	.	6	0.80
DM 103-304	B	4	6.33	0	.	4	6.33
DM 103-324	B	5	1.28	6	0.00	11	0.58
DM 103-344	B	3	4.57	0	.	3	4.57
DM 103-364	B	3	9.48	0	.	3	9.48
DM 103-389	B	6	3.73	7	0.14	13	1.80
DM 104-040	A	3	0.00	2	0.00	5	0.00
DM 104-052	A	7	1.99	1	0.00	8	1.74
DM 104-079	A	7	17.23	5	7.40	12	13.13
DM 104-101	I	7	6.27	1	7.30	8	6.40
DM 104-124	B	0	.	1	0.00	1	0.00
DM 104-146	B	7	0.00	5	0.24	12	0.10
DM 104-158	B	4	0.33	1	0.00	5	0.26
DM 104-175	B	0	.	1	0.00	1	0.00
DM 104-191	B	6	0.35	1	0.00	7	0.30
DM 104-221	B	4	0.59	1	0.00	5	0.47

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.6 (Continued)

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 104-241	B	6	0.00	1	0.00	7	0.00
DM 104-261	B	4	0.00	1	0.00	5	0.00
DM 104-281	B	2	0.00	1	0.00	3	0.00
DM 104-293	B	2	0.00	1	0.00	3	0.00
DM 106-040	A	2	0.95	2	0.00	4	0.47
DM 106-062	A	4	6.18	2	0.00	6	4.12
DM 106-079	A	5	1.82	2	0.00	7	1.30
DM 106-101	A	6	0.00	0	.	6	0.00
DM 106-118	I	5	0.00	2	4.65	7	1.33
DM 106-140	B	4	2.20	0	.	4	2.20
DM 106-160	B	5	1.76	2	0.00	7	1.26
DM 106-180	B	1	5.40	0	.	1	5.40
DM 106-205	B	5	0.00	0	.	5	0.00
DM 106-231	B	5	0.00	2	0.00	7	0.00
DM 106-252	B	1	1.80	0	.	1	1.80
DM 106-267	B	5	0.61	0	.	5	0.61
DM 106-292	B	1	0.00	0	.	1	0.00
DM 106-312	B	4	2.24	1	0.00	5	1.79
DM 106-332	B	2	0.00	0	.	2	0.00
DM 106-347	B	4	3.22	0	.	4	3.22
DM 106-357	B	.	.	.	.	.	.
DM 107	A	3	4.77	9	20.83	12	16.82
DM 109	A	.	.	.	.	.	.
DM 111	A	3	1733.33	8	152.61	11	583.72

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.6 (Continued)

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 112	A	3	2933.33	2	385.00	5	1914.00
DM 113	A	3	295.33	5	53.02	8	143.89
DM 114	A	3	0.00	2	0.25	5	0.10
DM 115	A	3	25.50	8	1.34	11	7.93
DM 117	A	3	21.30	10	50.50	13	43.76
DM 118	A	2	0.00	3	0.00	5	0.00
DM 119-072	A	2	0.09	0	.	2	0.09
DM 119-098	A	2	0.00	0	.	2	0.00
DM 119-137	I	2	0.16	7	0.00	9	0.03
DM 119-182	B	.	.	.	.	.	.
DM 119-204	B	2	0.00	7	0.00	9	0.00
DM 119-230	B	.	.	.	.	.	.
DM 119-244	B	2	0.00	0	.	2	0.00
DM 119-270	B	.	.	.	.	.	.
DM 119-284	B	2	0.00	0	.	2	0.00
DM 120	A	4	0.00	10	0.38	14	0.27
DM 121-043	A	2	8.50	1	0.00	3	5.67
DM 121-084	A	2	0.00	2	1.00	4	0.50
DM 121-125	I	2	0.00	5	0.30	7	0.21
DM 121-146	B	.	.	.	.	.	.
DM 121-159	B	2	0.00	2	0.00	4	0.00
DM 121-185	B	.	.	.	.	.	.
DM 121-219	B	2	0.00	5	0.00	7	0.00
DM 121-248	B	.	.	.	.	.	.

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.6 (Continued)

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 121-284	B	2	0.00	6	0.00	8	0.00
DM 122-A	A	2	0.00	8	0.57	10	0.45
DM 122-B	I	2	0.00	7	0.30	9	0.23
DM 123-056	I	2	0.00	1	0.00	3	0.00
DM 123-085	B	2	0.00	1	0.00	3	0.00
DM 123-111	B	.	.	.	.	.	.
DM 123-135	B	2	0.00	1	0.00	3	0.00
DM 123-156	B	.	.	.	.	.	.
DM 123-195	B	2	0.00	1	0.00	3	0.00
DM 123-226	B	.	.	.	.	.	.
DM 123-250	B	2	0.00	1	0.00	3	0.00
DM 123-285	B	2	0.00	1	0.00	3	0.00
DM 124	A	2	0.00	3	0.10	5	0.06
DM 125-046	A	2	0.00	5	0.00	7	0.00
DM 125-076	I	2	0.00	7	0.00	9	0.00
DM 125-125	B	2	0.00	5	0.00	7	0.00
DM 125-155	B	2	0.00	7	0.00	9	0.00
DM 125-185	B	2	0.00	7	0.00	9	0.00
DM 125-211	B	.	.	.	.	.	.
DM 125-236	B	.	.	.	.	.	.
DM 125-270	B	2	0.00	7	0.00	9	0.00
DM 126	A	3	0.37	7	0.00	10	0.11
DM 201	A	1	32.60	31	2500.48	32	2423.36
DM 201-OB1	A	0	.	17	22058.82	17	22058.82

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(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.6 (Continued)

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 201-OB2	A	0	.	5	4280.00	5	4280.00
DM 201-OB3	A	0	.	5	45.56	5	45.56
DM 202	A	0	.	4	10.90	4	10.90
DM 202-OB1	A	0	.	3	123.67	3	123.67
DM 202-OB2	A	1	0.00	3	22.33	4	16.75
DM 301	A	7	8500.00	0	.	7	8500.00
DM 302	A	8	178.50	0	.	8	178.50
DM 303	A	0	.	4	432.50	4	432.50
DM 304	A	0	.	4	470.00	4	470.00
DM 305	A	0	.	2	67.83	2	67.83
DM 306	A	0	.	2	125.00	2	125.00
DM 307	A	0	.	2	255.00	2	255.00
DM 308	A	0	.	2	560.00	2	560.00
DM 309	A	0	.	2	720.00	2	720.00
DM 310	A	0	.	2	210.00	2	210.00
DM 311	A	0	.	2	12.50	2	12.50
DM 312	A	0	.	2	4.80	2	4.80
DM 313	A	0	.	2	0.00	2	0.00
DM 501-147	A	0	.	6	0.00	6	0.00
DM 501-202	I	0	.	6	0.03	6	0.03
DM 501-267	B	0	.	6	0.00	6	0.00
DM 501-331	B	0	.	6	0.00	6	0.00
DM 501-387	B	0	.	6	0.23	6	0.23
DM 502-079	A	0	.	4	58.60	4	58.60

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(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.6 (Continued)

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 502-119	I	0	.	4	58.45	4	58.45
DM 502-161	B	0	.	4	32.22	4	32.22
DM 502-240	B	0	.	4	7.20	4	7.20
DM 502-335	B	0	.	4	6.17	4	6.17
DM 503	A	0	.	5	0.00	5	0.00
DM 504	A	0	.	7	5.54	7	5.54
DM 504OB1	A	.	.	.	.	.	.
DM 505	A	0	.	4	0.00	4	0.00
DM 506-100	A	0	.	3	5.27	3	5.27
DM 506-185	I	0	.	3	4.53	3	4.53
DM 506-240	B	0	.	3	3.23	3	3.23
DM 506-305	B	0	.	3	0.80	3	0.80
DM 506-375	B	0	.	3	1.73	3	1.73
DM 507-084	A	0	.	3	1.03	3	1.03
DM 507-188	I	0	.	3	42.13	3	42.13
DM 507-240	B	0	.	3	1.23	3	1.23
DM 507-280	B	0	.	3	0.77	3	0.77
DM 507-315	B	0	.	3	0.53	3	0.53
DM 508	A	0	.	3	0.00	3	0.00
DM 509	A	0	.	3	0.00	3	0.00
DM 601-040	I	0	.	2	325.00	2	325.00
DM 601-085	B	0	.	2	170.00	2	170.00
DM 601-135	B	0	.	2	88.00	2	88.00
DM 601-200	B	0	.	2	14.50	2	14.50

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.6 (Continued)

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 602	A	0	.	2	0.00	2	0.00
DM 603-068	A	0	.	2	0.00	2	0.00
DM 603-115	I	0	.	2	25.00	2	25.00
DM 603-170	B	0	.	2	0.00	2	0.00
DM 603-205	B	0	.	2	0.00	2	0.00
DM 603-245	B	0	.	2	0.00	2	0.00
DM 604	A	0	.	2	152.50	2	152.50
DM 605-066	A	0	.	2	1.95	2	1.95
DM 605-105	I	0	.	2	867.50	2	867.50
DM 605-170	B	0	.	2	0.80	2	0.80
DM 605-240	B	0	.	2	0.10	2	0.10
DM 605-290	B	0	.	2	0.00	2	0.00
DM 606-045	I	0	.	2	6.30	2	6.30
DM 606-102	B	0	.	2	3.25	2	3.25
DM 606-185	B	0	.	2	790.00	2	790.00
DM 606-250	B	0	.	2	7.15	2	7.15
DM 606-330	B	0	.	2	0.85	2	0.85
DM 606-370	B	0	.	2	0.00	2	0.00
DM 701	A	0	.	3	0.00	3	0.00
DW-1	B	5	46.60	0	.	5	46.60
MP 01-A	B	.	.	.	.	.	.
MP 01-B	B	.	.	.	.	.	.
MP 03-A	A	4	3505.00	0	.	4	3505.00
MP 03-B	I	6	41805.00	9	13607.78	15	24886.67

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.6 (Continued)

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 03-C	B	11	9600.00	3	833.33	14	7721.43
MP 03-D	B	10	1465.00	3	1866.67	13	1557.69
MP 09-A	A	13	5332.31	8	3756.88	21	4732.14
MP 09-B	I	8	2275.00	2	55.00	10	1831.00
MP 09-C	B	8	1266.50	8	314.61	16	790.56
MP 09-D	B	6	2728.33	2	230.00	8	2103.75
MP 11-A	A	10	1429.10	7	383.14	17	998.41
MP 11-B	I	10	275.94	8	74.64	18	186.47
MP 11-C	B	6	6.32	6	7.97	12	7.14
MP 11-D	B	6	1.50	2	0.30	8	1.20
MP 13-A	A	6	0.70	0	.	6	0.70
MP 13-B	I	6	29.98	4	0.00	10	17.99
MP 13-C	B	4	0.53	4	0.00	8	0.26
MP 13-D	B	6	4.47	0	.	6	4.47
MP 16-A	A	6	10.30	10	14.03	16	12.63
MP 16-B	I	7	1.35	2	0.40	9	1.14
MP 16-C	B	5	6.92	8	0.05	13	2.69
MP 16-D	B	6	2.93	0	.	6	2.93
MP 20-A	I	6	3.12	2	0.00	8	2.34
MP 20-B	B	6	0.62	2	0.00	8	0.46
MP 20-C	B	6	0.46	2	0.00	8	0.34
MP 20-D	B	.	.	.	.	.	.
MP 25-A	I	5	2.15	0	.	5	2.15
MP 25-B	B	5	0.00	0	.	5	0.00

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.6 (Continued)

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 25-C	B	.	.	.	.	.	.
MP 25-D	B	5	0.00	2	0.00	7	0.00
MP 28-A	I	5	0.11	3	0.60	8	0.29
MP 28-B	B	6	0.58	2	0.00	8	0.44
MP 28-C	B	6	0.49	3	0.00	9	0.33
MP 28-D	B	6	0.92	2	0.00	8	0.69
MP 30-A	A	6	0.60	2	0.00	8	0.45
MP 30-B	I	5	0.55	1	0.00	6	0.46
MP 30-C	B	6	0.23	2	0.00	8	0.17
MP 30-D	B	5	0.44	1	0.00	6	0.37
MP 36-A	A	10	5784.00	9	115.67	19	3099.00
MP 36-B	I	10	10155.00	10	1234.50	20	5694.75
MP 36-C	B	6	7217.50	8	1660.00	14	4041.79
MP 36-D	B	6	225.83	10	710.00	16	528.44
MP 37-A	I	.	.	.	.	.	.
MP 37-B	B	0	.	1	1.70	1	1.70
MP 37-C	B	6	1.35	2	0.00	8	1.01
MP 38-A	B	.	.	.	.	.	.
MP 38-D	B	.	.	.	.	.	.
MP 48-C	B	7	39.10	0	.	7	39.10
MP 48-D	B	7	0.00	0	.	7	0.00
MP 48-E	B	7	30.30	0	.	7	30.30
MP 49-A	A	7	0.76	4	0.00	11	0.48
MP 49-B	I	8	356.25	7	257.14	15	310.00

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(3) Data obtained from 1987 through 1991 inclusive.

. = Not sampled.
0.00 = Not detected.

Table E6.6 (Continued)

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1) (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 49-C	B	8	2.74	7	1.14	15	1.99
MP 49-D	B	8	8.69	4	0.00	12	5.80
MP 50-A	A	7	0.47	3	4.13	10	1.57
MP 50-B	A	8	2.80	3	111.42	11	32.42
MP 50-C	I	.	.	.	.	.	.
MP 50-D	B	7	2.90	2	0.00	9	2.26
MP 51-A	A	7	2.30	3	0.00	10	1.61
MP 51-B	A	7	4.45	6	0.00	13	2.40
MP 51-C	I	8	50.90	5	0.00	13	31.32
MP 51-D	B	8	0.73	3	0.00	11	0.53
MP 52-A	A	.	.	.	.	.	.
MP 52-B	I	8	1.07	6	0.00	14	0.61
MP 52-C	B	7	0.53	0	.	7	0.53
MP 52-D	B	.	.	.	.	.	.
MP 53-A	A	.	.	.	.	.	.
MP 53-B	I	8	13.59	6	0.00	14	7.76
MP 53-C	B	8	0.93	6	0.00	14	0.53
MP 53-D	B	6	0.56	3	0.00	9	0.37
PZ01	A	5	22.12	0	.	5	22.12
PZ02	A	3	150.97	0	.	3	150.97
PZ03	A	6	888.23	0	.	6	888.23
PZ04	A	3	457.00	0	.	3	457.00
PZ05	A	4	582.48	0	.	4	582.48
PZ06	A	6	5464.33	0	.	6	5464.33

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.6 (Continued)

DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1] (in ppb)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
PZ07	A	6	6407.50	0	.	6	6407.50
PZ08	A	6	10.08	0	.	6	10.08
PZ09	A	4	1360.00	0	.	4	1360.00
PZ10	A	4	6185.00	0	.	4	6185.00
SW-1	I	12	235.93	0	.	12	235.93
TOVREA	A	.	.	.	.	.	.
TURNA	A	2	0.00	0	.	2	0.00
WILLIS	A	3	0.00	1	20.00	4	5.00

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(3) Data obtained from 1987 through 1991 inclusive.

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0.00 = Not detected.

Table E6.7

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1]

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
16.9E6N	A	NS	NS	1	NC	1	NC
40&VB	A	3	NC	1	NC	4	NC
4626G	A	3	NC	5	NC	8	NC
48&VB	B	3	NC	NS	NS	3	NC
AZNGD	A	4	203.32	NS	NS	4	203.32
AZNGD N	A	3	NC	NS	NS	3	NC
AZNGD S	B	3	NC	NS	NS	3	NC
AZSLD	A	3	0.89	2	NC	5	0.89
DM 101-025	A	NS	NS	NS	NS	NS	NS
DM 101-045	B	6	NC	1	NC	7	NC
DM 101-055	B	3	NC	7	NC	10	NC
DM 101-070	B	5	NC	NS	NS	5	NC
DM 101-094	B	3	NC	NS	NS	3	NC
DM 101-102	B	6	NC	NS	NS	6	NC
DM 101-114	B	3	NC	NS	NS	3	NC
DM 101-130	B	3	2.52	6	NC	9	2.52
DM 101-140	B	6	1.43	NS	NS	6	1.43
DM 101B	A	5	12.6	NS	NS	5	12.6
DM 102-026	A	NS	NS	NS	NS	NS	NS
DM 102-048	A	10	3.86	NS	NS	10	3.86
DM 102-065	I	5	2.28	NS	NS	5	2.28
DM 102-082	B	10	11.81	NS	NS	10	11.81
DM 102-104	B	5	1.4	NS	NS	5	1.4

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(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable.

Table E6.7 (Continued)

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1]

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 102-119	B	13	5.98	NS	NS	13	5.98
DM 102-144	B	5	6.54	NS	NS	5	6.54
DM 102-159	B	5	3.95	NS	NS	5	3.95
DM 102-186	B	NS	NS	NS	NS	NS	NS
DM 102-191	B	3	3.48	NS	NS	3	3.48
DM 102-213	B	NS	NS	NS	NS	NS	NS
DM 102-233	B	5	1.82	NS	NS	5	1.82
DM 102-253	B	NS	NS	NS	NS	NS	NS
DM 102-273	B	3	NC	NS	NS	3	NC
DM 102-299	B	8	5.34	NS	NS	8	5.34
DM 102-319	B	5	5.98	NS	NS	5	5.98
DM 102-344	B	NS	NS	NS	NS	NS	NS
DM 102-354	B	3	5.5	NS	NS	3	5.5
DM 102-377	B	3	2.08	NS	NS	3	2.08
DM 102-388	B	NS	NS	NS	NS	NS	NS
DM 102-404	B	5	6.77	NS	NS	5	6.77
DM 102-427	B	NS	NS	NS	NS	NS	NS
DM 102-454	B	3	1.6	NS	NS	3	1.6
DM 102-469	B	NS	NS	NS	NS	NS	NS
DM 102-489	B	5	1	NS	NS	5	1
DM 103-032	A	3	1.67	5	NC	8	1.67
DM 103-047	I	5	7.29	8	2.18	13	5.59
DM 103-064	B	6	6.81	5	NC	11	6.81

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NC = Not calculable.

Table E6.7 (Continued)

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 103-079	B	6	5.33	NS	NS	6	5.33
DM 103-103	B	6	6.17	NS	NS	6	6.17
DM 103-123	B	6	1.63	8	NC	14	1.63
DM 103-148	B	4	3.75	NS	NS	4	3.75
DM 103-163	B	6	1.73	NS	NS	6	1.73
DM 103-178	B	7	0.96	8	NC	15	0.96
DM 103-203	B	6	35.45	NS	NS	6	35.45
DM 103-223	B	4	NC	8	NC	12	NC
DM 103-243	B	6	1.06	NS	NS	6	1.06
DM 103-269	B	4	NC	6	2.29	10	2.29
DM 103-289	B	6	1.23	NS	NS	6	1.23
DM 103-304	B	4	0.78	NS	NS	4	0.78
DM 103-324	B	5	13.02	6	NC	11	13.02
DM 103-344	B	3	3.85	NS	NS	3	3.85
DM 103-364	B	3	1.08	NS	NS	3	1.08
DM 103-389	B	6	4.89	7	1.4	13	4.02
DM 104-040	A	3	NC	2	NC	5	NC
DM 104-052	A	7	4.01	1	NC	8	4.01
DM 104-079	A	7	0.79	5	4	12	1.33
DM 104-101	I	7	0.27	1	NC	8	0.27
DM 104-124	B	NS	NS	1	NC	1	NC
DM 104-146	B	7	NC	5	NC	12	NC
DM 104-158	B	4	4.15	1	NC	5	4.15

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(3) Data obtained from 1987 through 1991 inclusive.

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NC = Not calculable.

Table E6.7 (Continued)

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 104-175	B	NS	NS	1	NC	1	NC
DM 104-191	B	6	2.44	1	NC	7	2.44
DM 104-221	B	4	1.53	1	NC	5	1.53
DM 104-241	B	6	NC	1	NC	7	NC
DM 104-261	B	4	NC	1	NC	5	NC
DM 104-281	B	2	NC	1	NC	3	NC
DM 104-293	B	2	NC	1	NC	3	NC
DM 106-040	A	2	0.63	2	NC	4	0.63
DM 106-062	A	4	2.61	2	NC	6	2.61
DM 106-079	A	5	2.52	2	NC	7	2.52
DM 106-101	A	6	NC	NS	NS	6	NC
DM 106-118	I	5	NC	2	0.13	7	0.13
DM 106-140	B	4	1.03	NS	NS	4	1.03
DM 106-160	B	5	2.93	2	NC	7	2.93
DM 106-180	B	1	0.46	NS	NS	1	0.46
DM 106-205	B	5	NC	NS	NS	5	NC
DM 106-231	B	5	NC	2	NC	7	NC
DM 106-252	B	1	6.39	NS	NS	1	6.39
DM 106-267	B	5	21.48	NS	NS	5	21.48
DM 106-292	B	1	NC	NS	NS	1	NC
DM 106-312	B	4	0.89	1	NC	5	0.89
DM 106-332	B	2	NC	NS	NS	2	NC
DM 106-347	B	4	1.8	NS	NS	4	1.8

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(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable.

Table E6.7 (Continued)

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 106-357	B	NS	NS	NS	NS	NS	NS
DM 107	A	3	0.36	9	2.96	12	2.09
DM 109	A	NS	NS	NS	NS	NS	NS
DM 111	A	3	0.58	8	0.11	11	0.35
DM 112	A	3	0.33	2	0.03	5	0.21
DM 113	A	3	2.77	5	1.78	8	2.27
DM 114	A	3	NC	2	NC	5	NC
DM 115	A	3	0.65	8	NC	11	0.65
DM 117	A	3	NC	10	0.27	13	0.27
DM 118	A	2	NC	3	NC	5	NC
DM 119-072	A	2	11.18	NS	NS	2	11.18
DM 119-098	A	2	NC	NS	NS	2	NC
DM 119-137	I	2	0.66	7	NC	9	0.66
DM 119-182	B	NS	NS	NS	NS	NS	NS
DM 119-204	B	2	NC	7	NC	9	NC
DM 119-230	B	NS	NS	NS	NS	NS	NS
DM 119-244	B	2	NC	NS	NS	2	NC
DM 119-270	B	NS	NS	NS	NS	NS	NS
DM 119-284	B	2	NC	NS	NS	2	NC
DM 120	A	4	NC	10	3.14	14	3.14
DM 121-043	A	2	0.18	1	NC	3	0.18
DM 121-084	A	2	NC	2	NC	4	NC
DM 121-125	I	2	NC	5	NC	7	NC

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable.

Table E6.7 (Continued)

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 121-146	B	NS	NS	NS	NS	NS	NS
DM 121-159	B	2	NC	2	NC	4	NC
DM 121-185	B	NS	NS	NS	NS	NS	NS
DM 121-219	B	2	NC	5	NC	7	NC
DM 121-248	B	NS	NS	NS	NS	NS	NS
DM 121-284	B	2	NC	6	NC	8	NC
DM 122-A	A	2	NC	8	2.62	10	2.62
DM 122-B	I	2	NC	7	NC	9	NC
DM 123-056	I	2	NC	1	NC	3	NC
DM 123-085	B	2	NC	1	NC	3	NC
DM 123-111	B	NS	NS	NS	NS	NS	NS
DM 123-135	B	2	NC	1	NC	3	NC
DM 123-156	B	NS	NS	NS	NS	NS	NS
DM 123-195	B	2	NC	1	NC	3	NC
DM 123-226	B	NS	NS	NS	NS	NS	NS
DM 123-250	B	2	NC	1	NC	3	NC
DM 123-285	B	2	NC	1	NC	3	NC
DM 124	A	2	NC	3	NC	5	NC
DM 125-046	A	2	NC	5	NC	7	NC
DM 125-076	I	2	NC	7	NC	9	NC
DM 125-125	B	2	NC	5	NC	7	NC
DM 125-155	B	2	NC	7	NC	9	NC
DM 125-185	B	2	NC	7	NC	9	NC

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable.

Table E6.7 (Continued)

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 125-211	B	NS	NS	NS	NS	NS	NS
DM 125-236	B	NS	NS	NS	NS	NS	NS
DM 125-270	B	2	NC	7	NC	9	NC
DM 126	A	3	56.27	7	NC	10	56.27
DM 201	A	1	2.45	31	1.65	32	1.68
DM 201-OB1	A	NS	NS	17	1.34	17	1.34
DM 201-OB2	A	NS	NS	5	1.59	5	1.59
DM 201-OB3	A	NS	NS	5	1.54	5	1.54
DM 202	A	NS	NS	4	0.16	4	0.16
DM 202-OB1	A	NS	NS	3	NC	3	NC
DM 202-OB2	A	1	NC	3	0.16	4	0.16
DM 301	A	7	54.4	NS	NS	7	54.4
DM 302	A	8	21.36	NS	NS	8	21.36
DM 303	A	NS	NS	4	1.63	4	1.63
DM 304	A	NS	NS	4	0.89	4	0.89
DM 305	A	NS	NS	2	NC	2	NC
DM 306	A	NS	NS	2	NC	2	NC
DM 307	A	NS	NS	2	NC	2	NC
DM 308	A	NS	NS	2	NC	2	NC
DM 309	A	NS	NS	2	NC	2	NC
DM 310	A	NS	NS	2	NC	2	NC
DM 311	A	NS	NS	2	NC	2	NC
DM 312	A	NS	NS	2	NC	2	NC

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable.

Table E6.7 (Continued)

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1]

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 313	A	NS	NS	2	NC	2	NC
DM 501-147	A	NS	NS	6	NC	6	NC
DM 501-202	I	NS	NS	6	55	6	55
DM 501-267	B	NS	NS	6	NC	6	NC
DM 501-331	B	NS	NS	6	NC	6	NC
DM 501-387	B	NS	NS	6	37.14	6	37.14
DM 502-079	A	NS	NS	4	0.37	4	0.37
DM 502-119	I	NS	NS	4	1.99	4	1.99
DM 502-161	B	NS	NS	4	0.56	4	0.56
DM 502-240	B	NS	NS	4	2.91	4	2.91
DM 502-335	B	NS	NS	4	4.94	4	4.94
DM 503	A	NS	NS	5	NC	5	NC
DM 504	A	NS	NS	7	2.08	7	2.08
DM 504OB1	A	NS	NS	NS	NS	NS	NS
DM 505	A	NS	NS	4	NC	4	NC
DM 506-100	A	NS	NS	3	1.48	3	1.48
DM 506-185	I	NS	NS	3	2.17	3	2.17
DM 506-240	B	NS	NS	3	2.39	3	2.39
DM 506-305	B	NS	NS	3	3.56	3	3.56
DM 506-375	B	NS	NS	3	6.53	3	6.53
DM 507-084	A	NS	NS	3	2.16	3	2.16
DM 507-188	I	NS	NS	3	0.91	3	0.91
DM 507-240	B	NS	NS	3	6.09	3	6.09

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable.

Table E6.7 (Continued)

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 507-280	B	NS	NS	3	11.88	3	11.88
DM 507-315	B	NS	NS	3	7.69	3	7.69
DM 508	A	NS	NS	3	NC	3	NC
DM 509	A	NS	NS	3	NC	3	NC
DM 601-040	I	NS	NS	2	0.04	2	0.04
DM 601-085	B	NS	NS	2	0.67	2	0.67
DM 601-135	B	NS	NS	2	0.71	2	0.71
DM 601-200	B	NS	NS	2	1.03	2	1.03
DM 602	A	NS	NS	2	NC	2	NC
DM 603-068	A	NS	NS	2	NC	2	NC
DM 603-115	I	NS	NS	2	NC	2	NC
DM 603-170	B	NS	NS	2	NC	2	NC
DM 603-205	B	NS	NS	2	NC	2	NC
DM 603-245	B	NS	NS	2	NC	2	NC
DM 604	A	NS	NS	2	NC	2	NC
DM 605-066	A	NS	NS	2	1.31	2	1.31
DM 605-105	I	NS	NS	2	NC	2	NC
DM 605-170	B	NS	NS	2	1.5	2	1.5
DM 605-240	B	NS	NS	2	NC	2	NC
DM 605-290	B	NS	NS	2	NC	2	NC
DM 606-045	I	NS	NS	2	0.28	2	0.28
DM 606-102	B	NS	NS	2	NC	2	NC
DM 606-185	B	NS	NS	2	0.01	2	0.01

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable.

Table E6.7 (Continued)

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1]

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 606-250	B	NS	NS	2	0.34	2	0.34
DM 606-330	B	NS	NS	2	2.59	2	2.59
DM 606-370	B	NS	NS	2	NC	2	NC
DM 701	A	NS	NS	3	NC	3	NC
DW-1	B	5	1.65	NS	NS	5	1.65
MP 01-A	B	NS	NS	NS	NS	NS	NS
MP 01-B	B	NS	NS	NS	NS	NS	NS
MP 03-A	A	4	2.67	NS	NS	4	2.67
MP 03-B	I	6	6.61	9	28.02	15	18.14
MP 03-C	B	11	32.68	3	48.95	14	37.33
MP 03-D	B	10	51.7	3	47.53	13	50.51
MP 09-A	A	13	3.53	8	2.62	21	3.21
MP 09-B	I	8	3	2	NC	10	3
MP 09-C	B	8	2.85	8	2.37	16	2.71
MP 09-D	B	6	3.28	2	0.6	8	2.61
MP 11-A	A	10	2.69	7	0.95	17	2.19
MP 11-B	I	10	3.63	8	1.36	18	2.98
MP 11-C	B	6	1.33	6	NC	12	1.33
MP 11-D	B	6	18	2	NC	8	18
MP 13-A	A	6	80.59	NS	NS	6	80.59
MP 13-B	I	6	10.09	4	NC	10	10.09
MP 13-C	B	4	4.95	4	NC	8	4.95
MP 13-D	B	6	7.16	NS	NS	6	7.16

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable.

Table E6.7 (Continued)

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 16-A	A	6	2.8	10	0.73	16	1.77
MP 16-B	I	7	1.99	2	0.63	9	1.72
MP 16-C	B	5	4.76	8	2	13	4.21
MP 16-D	B	6	7.63	NS	NS	6	7.63
MP 20-A	I	6	55.98	2	NC	8	55.98
MP 20-B	B	6	18.11	2	NC	8	18.11
MP 20-C	B	6	11.18	2	NC	8	11.18
MP 20-D	B	NS	NS	NS	NS	NS	NS
MP 25-A	I	5	4.87	NS	NS	5	4.87
MP 25-B	B	5	NC	NS	NS	5	NC
MP 25-C	B	NS	NS	NS	NS	NS	NS
MP 25-D	B	5	NC	2	NC	7	NC
MP 28-A	I	5	2.32	3	3.25	8	2.94
MP 28-B	B	6	13.86	2	NC	8	13.86
MP 28-C	B	6	18.7	3	NC	9	18.7
MP 28-D	B	6	22.4	2	NC	8	22.4
MP 30-A	A	6	7.58	2	NC	8	7.58
MP 30-B	I	5	3.6	1	NC	6	3.6
MP 30-C	B	6	7.43	2	NC	8	7.43
MP 30-D	B	5	6.73	1	NC	6	6.73
MP 36-A	A	10	2.07	9	0.72	19	1.52
MP 36-B	I	10	6.44	10	2.22	20	4.33
MP 36-C	B	6	2.23	8	2.81	14	2.54

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable.

Table E6.7 (Continued)

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 36-D	B	6	0.02	10	NC	16	0.02
MP 37-A	I	NS	NS	NS	NS	NS	NS
MP 37-B	B	NS	NS	1	NC	1	NC
MP 37-C	B	6	7.38	2	NC	8	7.38
MP 38-A	B	NS	NS	NS	NS	NS	NS
MP 38-D	B	NS	NS	NS	NS	NS	NS
MP 48-C	B	7	3.24	NS	NS	7	3.24
MP 48-D	B	7	NC	NS	NS	7	NC
MP 48-E	B	7	0.96	NS	NS	7	0.96
MP 49-A	A	7	3.53	4	NC	11	3.53
MP 49-B	I	8	1.05	7	0.58	15	0.95
MP 49-C	B	8	98.57	7	NC	15	98.57
MP 49-D	B	8	26.03	4	NC	12	26.03
MP 50-A	A	7	15.95	3	NC	10	15.95
MP 50-B	A	8	17.86	3	NC	11	17.86
MP 50-C	I	NS	NS	NS	NS	NS	NS
MP 50-D	B	7	5.5	2	NC	9	5.5
MP 51-A	A	7	6.95	3	NC	10	6.95
MP 51-B	A	7	7.66	6	NC	13	7.66
MP 51-C	I	8	2.17	5	NC	13	2.17
MP 51-D	B	8	15.66	3	NC	11	15.66
MP 52-A	A	NS	NS	NS	NS	NS	NS
MP 52-B	I	8	5.77	6	NC	14	5.77

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable.

Table E6.7 (Continued)

RATIO OF TCE TO TDCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 52-C	B	7	24.06	NS	NS	7	24.06
MP 52-D	B	NS	NS	NS	NS	NS	NS
MP 53-A	A	NS	NS	NS	NS	NS	NS
MP 53-B	I	8	10.67	6	NC	14	10.67
MP 53-C	B	8	13.21	6	NC	14	13.21
MP 53-D	B	6	8.35	3	NC	9	8.35
PZ01	A	5	0.7	NS	NS	5	0.7
PZ02	A	3	1.38	NS	NS	3	1.38
PZ03	A	6	0.93	NS	NS	6	0.93
PZ04	A	3	2.33	NS	NS	3	2.33
PZ05	A	4	1.15	NS	NS	4	1.15
PZ06	A	6	3.97	NS	NS	6	3.97
PZ07	A	6	7.21	NS	NS	6	7.21
PZ08	A	6	6.26	NS	NS	6	6.26
PZ09	A	4	2.33	NS	NS	4	2.33
PZ10	A	4	2.85	NS	NS	4	2.85
SW-1	I	12	5.78	NS	NS	12	5.78
TOVREA	A	NS	NS	NS	NS	NS	NS
TURNA	A	2	NC	NS	NS	2	NC
WILLIS	A	3	NC	1	NC	4	NC

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable.

Table E6.8

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
16.9E6N	A	NS	NS	1	NC	1	NC
40&VB	A	3	NC	1	NC	4	NC
4626G	A	3	NC	5	NC	8	NC
48&VB	B	3	NC	NS	NS	3	NC
AZNGD	A	4	9.11	NS	NS	4	9.11
AZNGD N	A	3	0.03	NS	NS	3	0.03
AZNGD S	B	3	5.2	NS	NS	3	5.2
AZSLD	A	3	0.79	2	NC	5	0.79
DM 101-025	A	NS	NS	NS	NS	NS	NS
DM 101-045	B	6	NC	1	NC	7	NC
DM 101-055	B	3	NC	7	NC	10	NC
DM 101-070	B	5	NC	NS	NS	5	NC
DM 101-094	B	3	NC	NS	NS	3	NC
DM 101-102	B	6	NC	NS	NS	6	NC
DM 101-114	B	3	NC	NS	NS	3	NC
DM 101-130	B	3	0.37	6	NC	9	0.37
DM 101-140	B	6	0.53	NS	NS	6	0.53
DM 101B	A	5	0.95	NS	NS	5	0.95
DM 102-026	A	NS	NS	NS	NS	NS	NS
DM 102-048	A	10	0.81	NS	NS	10	0.81
DM 102-065	I	5	1.01	NS	NS	5	1.01
DM 102-082	B	10	2.41	NS	NS	10	2.41
DM 102-104	B	5	0.06	NS	NS	5	0.06

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable

Table E6.8 (Continued)

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1]

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 102-119	B	13	0.03	NS	NS	13	0.03
DM 102-144	B	5	0.07	NS	NS	5	0.07
DM 102-159	B	5	0.15	NS	NS	5	0.15
DM 102-186	B	NS	NS	NS	NS	NS	NS
DM 102-191	B	3	0.06	NS	NS	3	0.06
DM 102-213	B	NS	NS	NS	NS	NS	NS
DM 102-233	B	5	0.13	NS	NS	5	0.13
DM 102-253	B	NS	NS	NS	NS	NS	NS
DM 102-273	B	3	0.1	NS	NS	3	0.1
DM 102-299	B	8	0.54	NS	NS	8	0.54
DM 102-319	B	5	0.48	NS	NS	5	0.48
DM 102-344	B	NS	NS	NS	NS	NS	NS
DM 102-354	B	3	0.42	NS	NS	3	0.42
DM 102-377	B	3	0.27	NS	NS	3	0.27
DM 102-388	B	NS	NS	NS	NS	NS	NS
DM 102-404	B	5	0.32	NS	NS	5	0.32
DM 102-427	B	NS	NS	NS	NS	NS	NS
DM 102-454	B	3	0.06	NS	NS	3	0.06
DM 102-469	B	NS	NS	NS	NS	NS	NS
DM 102-489	B	5	0.54	NS	NS	5	0.54
DM 103-032	A	3	0.04	5	0.09	8	0.07
DM 103-047	I	5	0.05	8	0.08	13	0.06
DM 103-064	B	6	0.14	5	0.05	11	0.12

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable

Table E6.8 (Continued)

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1]

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 103-079	B	6	0.28	NS	NS	6	0.28
DM 103-103	B	6	0.02	NS	NS	6	0.02
DM 103-123	B	6	0.99	8	0.23	14	0.58
DM 103-148	B	4	2.75	NS	NS	4	2.75
DM 103-163	B	6	4.89	NS	NS	6	4.89
DM 103-178	B	7	10.32	8	1.13	15	5.37
DM 103-203	B	6	8.61	NS	NS	6	8.61
DM 103-223	B	4	3.23	8	3.94	12	3.66
DM 103-243	B	6	7.61	NS	NS	6	7.61
DM 103-269	B	4	0.76	6	3.74	10	2.04
DM 103-289	B	6	0.19	NS	NS	6	0.19
DM 103-304	B	4	0.07	NS	NS	4	0.07
DM 103-324	B	5	0.9	6	0.95	11	0.91
DM 103-344	B	3	0.11	NS	NS	3	0.11
DM 103-364	B	3	0.32	NS	NS	3	0.32
DM 103-389	B	6	0.2	7	0.89	13	0.3
DM 104-040	A	3	NC	2	NC	5	NC
DM 104-052	A	7	5.42	1	NC	8	5.42
DM 104-079	A	7	29.15	5	4.33	12	20.88
DM 104-101	I	7	15.88	1	NC	8	15.88
DM 104-124	B	NS	NS	1	NC	1	NC
DM 104-146	B	7	NC	5	NC	12	NC
DM 104-158	B	4	1.07	1	NC	5	1.07

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable

Table E6.8 (Continued)

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1]

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 104-175	B	NS	NS	1	NC	1	NC
DM 104-191	B	6	1.15	1	NC	7	1.15
DM 104-221	B	4	1.71	1	NC	5	1.71
DM 104-241	B	6	0.89	1	NC	7	0.89
DM 104-261	B	4	NC	1	NC	5	NC
DM 104-281	B	2	NC	1	NC	3	NC
DM 104-293	B	2	NC	1	NC	3	NC
DM 106-040	A	2	NC	2	NC	4	NC
DM 106-062	A	4	13.02	2	2	6	7.51
DM 106-079	A	5	4.87	2	1	7	3.58
DM 106-101	A	6	NC	NS	NS	6	NC
DM 106-118	I	5	NC	2	NC	7	NC
DM 106-140	B	4	3.81	NS	NS	4	3.81
DM 106-160	B	5	15.18	2	0.38	7	12.22
DM 106-180	B	1	1.23	NS	NS	1	1.23
DM 106-205	B	5	18.35	NS	NS	5	18.35
DM 106-231	B	5	46.78	2	0.39	7	35.18
DM 106-252	B	1	33.17	NS	NS	1	33.17
DM 106-267	B	5	23.79	NS	NS	5	23.79
DM 106-292	B	1	0.88	NS	NS	1	0.88
DM 106-312	B	4	NC	1	0.34	5	0.34
DM 106-332	B	2	0.57	NS	NS	2	0.57
DM 106-347	B	4	1.18	NS	NS	4	1.18

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable

Table E6.8 (Continued)

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 106-357	B	NS	NS	NS	NS	NS	NS
DM 107	A	3	31.61	9	53.97	12	46.52
DM 109	A	NS	NS	NS	NS	NS	NS
DM 111	A	3	1.19	8	2.54	11	2.09
DM 112	A	3	NC	2	64.03	5	64.03
DM 113	A	3	NC	5	2149.55	8	2149.55
DM 114	A	3	13.33	2	5.58	5	9.46
DM 115	A	3	120.62	8	34.12	11	58.84
DM 117	A	3	0.04	10	0.14	13	0.11
DM 118	A	2	NC	3	5.25	5	5.25
DM 119-072	A	2	NC	NS	NS	2	NC
DM 119-098	A	2	NC	NS	NS	2	NC
DM 119-137	I	2	NC	7	NC	9	NC
DM 119-182	B	NS	NS	NS	NS	NS	NS
DM 119-204	B	2	NC	7	NC	9	NC
DM 119-230	B	NS	NS	NS	NS	NS	NS
DM 119-244	B	2	NC	NS	NS	2	NC
DM 119-270	B	NS	NS	NS	NS	NS	NS
DM 119-284	B	2	NC	NS	NS	2	NC
DM 120	A	4	NC	10	53.59	14	53.59
DM 121-043	A	2	NC	1	0.83	3	0.83
DM 121-084	A	2	NC	2	0.25	4	0.25
DM 121-125	I	2	2.35	5	1.24	7	1.8

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable

Table E6.8 (Continued)

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1]

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 121-146	B	NS	NS	NS	NS	NS	NS
DM 121-159	B	2	1.2	2	NC	4	1.2
DM 121-185	B	NS	NS	NS	NS	NS	NS
DM 121-219	B	2	2	5	0.46	7	1.23
DM 121-248	B	NS	NS	NS	NS	NS	NS
DM 121-284	B	2	1.23	6	0.89	8	1.12
DM 122-A	A	2	NC	8	NC	10	NC
DM 122-B	I	2	NC	7	4.49	9	4.49
DM 123-056	I	2	NC	1	NC	3	NC
DM 123-085	B	2	NC	1	NC	3	NC
DM 123-111	B	NS	NS	NS	NS	NS	NS
DM 123-135	B	2	NC	1	NC	3	NC
DM 123-156	B	NS	NS	NS	NS	NS	NS
DM 123-195	B	2	NC	1	NC	3	NC
DM 123-226	B	NS	NS	NS	NS	NS	NS
DM 123-250	B	2	NC	1	NC	3	NC
DM 123-285	B	2	NC	1	NC	3	NC
DM 124	A	2	NC	3	11	5	11
DM 125-046	A	2	NC	5	NC	7	NC
DM 125-076	I	2	NC	7	NC	9	NC
DM 125-125	B	2	NC	5	NC	7	NC
DM 125-155	B	2	NC	7	NC	9	NC
DM 125-185	B	2	NC	7	NC	9	NC

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable

Table E6.8 (Continued)

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 125-211	B	NS	NS	NS	NS	NS	NS
DM 125-236	B	NS	NS	NS	NS	NS	NS
DM 125-270	B	2	NC	7	NC	9	NC
DM 126	A	3	0.01	7	NC	10	0.01
DM 201	A	1	NC	31	2.36	32	2.36
DM 201-OB1	A	NS	NS	17	NC	17	NC
DM 201-OB2	A	NS	NS	5	2.27	5	2.27
DM 201-OB3	A	NS	NS	5	10.54	5	10.54
DM 202	A	NS	NS	4	NC	4	NC
DM 202-OB1	A	NS	NS	3	NC	3	NC
DM 202-OB2	A	1	NC	3	NC	4	NC
DM 301	A	7	3809.54	NS	NS	7	3809.54
DM 302	A	8	NC	NS	NS	8	NC
DM 303	A	NS	NS	4	NC	4	NC
DM 304	A	NS	NS	4	9.94	4	9.94
DM 305	A	NS	NS	2	NC	2	NC
DM 306	A	NS	NS	2	42.55	2	42.55
DM 307	A	NS	NS	2	40.32	2	40.32
DM 308	A	NS	NS	2	240.96	2	240.96
DM 309	A	NS	NS	2	0.16	2	0.16
DM 310	A	NS	NS	2	0.25	2	0.25
DM 311	A	NS	NS	2	64	2	64
DM 312	A	NS	NS	2	21.69	2	21.69

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable

Table E6.8 (Continued)

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 313	A	NS	NS	2	NC	2	NC
DM 501-147	A	NS	NS	6	7.97	6	7.97
DM 501-202	I	NS	NS	6	12.28	6	12.28
DM 501-267	B	NS	NS	6	5.27	6	5.27
DM 501-331	B	NS	NS	6	0.33	6	0.33
DM 501-387	B	NS	NS	6	1.33	6	1.33
DM 502-079	A	NS	NS	4	0.33	4	0.33
DM 502-119	I	NS	NS	4	0.18	4	0.18
DM 502-161	B	NS	NS	4	0.23	4	0.23
DM 502-240	B	NS	NS	4	0.34	4	0.34
DM 502-335	B	NS	NS	4	0.32	4	0.32
DM 503	A	NS	NS	5	7.72	5	7.72
DM 504	A	NS	NS	7	1.2	7	1.2
DM 504OB1	A	NS	NS	NS	NS	NS	NS
DM 505	A	NS	NS	4	3.75	4	3.75
DM 506-100	A	NS	NS	3	3.41	3	3.41
DM 506-185	I	NS	NS	3	5.02	3	5.02
DM 506-240	B	NS	NS	3	2.23	3	2.23
DM 506-305	B	NS	NS	3	1.78	3	1.78
DM 506-375	B	NS	NS	3	2.01	3	2.01
DM 507-084	A	NS	NS	3	3.47	3	3.47
DM 507-188	I	NS	NS	3	2.62	3	2.62
DM 507-240	B	NS	NS	3	2.21	3	2.21

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(3) Data obtained from 1987 through 1991 inclusive.

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NC = Not calculable

Table E6.8 (Continued)

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1]

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 507-280	B	NS	NS	3	3.34	3	3.34
DM 507-315	B	NS	NS	3	3.95	3	3.95
DM 508	A	NS	NS	3	NC	3	NC
DM 509	A	NS	NS	3	34.55	3	34.55
DM 601-040	I	NS	NS	2	13.73	2	13.73
DM 601-085	B	NS	NS	2	74.19	2	74.19
DM 601-135	B	NS	NS	2	130.95	2	130.95
DM 601-200	B	NS	NS	2	63.33	2	63.33
DM 602	A	NS	NS	2	NC	2	NC
DM 603-068	A	NS	NS	2	66.67	2	66.67
DM 603-115	I	NS	NS	2	NC	2	NC
DM 603-170	B	NS	NS	2	NC	2	NC
DM 603-205	B	NS	NS	2	61.11	2	61.11
DM 603-245	B	NS	NS	2	101.43	2	101.43
DM 604	A	NS	NS	2	400	2	400
DM 605-066	A	NS	NS	2	0.04	2	0.04
DM 605-105	I	NS	NS	2	0.41	2	0.41
DM 605-170	B	NS	NS	2	0.46	2	0.46
DM 605-240	B	NS	NS	2	0.9	2	0.9
DM 605-290	B	NS	NS	2	1	2	1
DM 606-045	I	NS	NS	2	0.17	2	0.17
DM 606-102	B	NS	NS	2	0.18	2	0.18
DM 606-185	B	NS	NS	2	0.75	2	0.75

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(3) Data obtained from 1987 through 1991 inclusive.

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Table E6.8 (Continued)

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1]

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
DM 606-250	B	NS	NS	2	0.55	2	0.55
DM 606-330	B	NS	NS	2	0.66	2	0.66
DM 606-370	B	NS	NS	2	0.76	2	0.76
DM 701	A	NS	NS	3	NC	3	NC
DW-1	B	5	103.11	NS	NS	5	103.11
MP 01-A	B	NS	NS	NS	NS	NS	NS
MP 01-B	B	NS	NS	NS	NS	NS	NS
MP 03-A	A	4	48.68	NS	NS	4	48.68
MP 03-B	I	6	176.41	9	NC	15	176.41
MP 03-C	B	11	NC	3	NC	14	NC
MP 03-D	B	10	NC	3	13666.67	13	13666.67
MP 09-A	A	13	24.35	8	13.64	21	19
MP 09-B	I	8	53.1	2	4.93	10	46.22
MP 09-C	B	8	36.03	8	13.2	16	25.65
MP 09-D	B	6	20.36	2	0.59	8	14.71
MP 11-A	A	10	17.55	7	14.83	17	17
MP 11-B	I	10	2.35	8	58.15	18	30.25
MP 11-C	B	6	37.29	6	51.3	12	41.29
MP 11-D	B	6	322.74	2	57.5	8	256.43
MP 13-A	A	6	14.36	NS	NS	6	14.36
MP 13-B	I	6	48.74	4	7.84	10	33.41
MP 13-C	B	4	6.75	4	1.03	8	3.48
MP 13-D	B	6	361.76	NS	NS	6	361.76

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(3) Data obtained from 1987 through 1991 inclusive.

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NC = Not calculable

Table E6.8 (Continued)

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1]

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 16-A	A	6	49.41	10	13.38	16	29.39
MP 16-B	I	7	8.69	2	15.2	9	9.99
MP 16-C	B	5	39.01	8	2.74	13	16.34
MP 16-D	B	6	27.16	NS	NS	6	27.16
MP 20-A	I	6	28.34	2	NC	8	28.34
MP 20-B	B	6	47.2	2	NC	8	47.2
MP 20-C	B	6	46.74	2	NC	8	46.74
MP 20-D	B	NS	NS	NS	NS	NS	NS
MP 25-A	I	5	48.47	NS	NS	5	48.47
MP 25-B	B	5	NC	NS	NS	5	NC
MP 25-C	B	NS	NS	NS	NS	NS	NS
MP 25-D	B	5	NC	2	NC	7	NC
MP 28-A	I	5	1.7	3	5.5	8	3.6
MP 28-B	B	6	NC	2	NC	8	NC
MP 28-C	B	6	114.08	3	NC	9	114.08
MP 28-D	B	6	40.01	2	0.83	8	26.95
MP 30-A	A	6	NC	2	NC	8	NC
MP 30-B	I	5	63	1	NC	6	63
MP 30-C	B	6	20.82	2	NC	8	20.82
MP 30-D	B	5	104.55	1	NC	6	104.55
MP 36-A	A	10	9.83	9	109.21	19	56.21
MP 36-B	I	10	0.56	10	99.3	20	49.93
MP 36-C	B	6	7.09	8	75.25	14	41.17

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(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

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NC = Not calculable

Table E6.8 (Continued)

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS(1)

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean(2)	Number of Post RI Obs	Post RI Mean(3) (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 36-D	B	6	43.64	10	NC	16	43.64
MP 37-A	I	NS	NS	NS	NS	NS	NS
MP 37-B	B	NS	NS	1	10.12	1	10.12
MP 37-C	B	6	172.27	2	480	8	274.85
MP 38-A	B	NS	NS	NS	NS	NS	NS
MP 38-D	B	NS	NS	NS	NS	NS	NS
MP 48-C	B	7	1.88	NS	NS	7	1.88
MP 48-D	B	7	13.81	NS	NS	7	13.81
MP 48-E	B	7	16.76	NS	NS	7	16.76
MP 49-A	A	7	19.74	4	NC	11	19.74
MP 49-B	I	8	261.62	7	NC	15	261.62
MP 49-C	B	8	253.51	7	378.96	15	289.35
MP 49-D	B	8	701.36	4	NC	12	701.36
MP 50-A	A	7	59.98	3	21.5	10	47.15
MP 50-B	A	8	92.32	3	NC	11	92.32
MP 50-C	I	NS	NS	NS	NS	NS	NS
MP 50-D	B	7	59.21	2	71	9	61.18
MP 51-A	A	7	1.33	3	0.42	10	1.13
MP 51-B	A	7	2.02	6	0.37	13	1.33
MP 51-C	I	8	1.71	5	2.52	13	2
MP 51-D	B	8	2.81	3	NC	11	2.81
MP 52-A	A	NS	NS	NS	NS	NS	NS
MP 52-B	I	8	4.61	6	NC	14	4.61

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(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable

Table E6.8 (Continued)

RATIO OF TCA TO DCE FOR RI ROUNDS, POST RI ROUNDS AND ALL ROUNDS[1]

Well	Alluvium/ Interface/ Bedrock	Number of RI Obs	Draft RI Mean[2]	Number of Post RI Obs	Post RI Mean[3] (1987-1991)	Combined Number of Obs	Total Mean (1984-1991)
MP 52-C	B	7	129.55	NS	NS	7	129.55
MP 52-D	B	NS	NS	NS	NS	NS	NS
MP 53-A	A	NS	NS	NS	NS	NS	NS
MP 53-B	I	8	NC	6	NC	14	NC
MP 53-C	B	8	74.84	6	14.5	14	59.75
MP 53-D	B	6	51.92	3	NC	9	51.92
PZ01	A	5	83.56	NS	NS	5	83.56
PZ02	A	3	19.38	NS	NS	3	19.38
PZ03	A	6	4.06	NS	NS	6	4.06
PZ04	A	3	4	NS	NS	3	4
PZ05	A	4	0.69	NS	NS	4	0.69
PZ06	A	6	17.79	NS	NS	6	17.79
PZ07	A	6	10.48	NS	NS	6	10.48
PZ08	A	6	2.01	NS	NS	6	2.01
PZ09	A	4	3.17	NS	NS	4	3.17
PZ10	A	4	37.7	NS	NS	4	37.7
SW-1	I	12	51.38	NS	NS	12	51.38
TOVREA	A	NS	NS	NS	NS	NS	NS
TURNA	A	2	50.78	NS	NS	2	50.78
WILLIS	A	3	7.63	1	3.25	4	6.53

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.
(2) Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
(3) Data obtained from 1987 through 1991 inclusive.

NS = Not sampled.
NC = Not calculable

Table E6.9

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TOTAL ETHYLENE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
40&VB	A	0.00	0.00	0.00	1
DM 101-045	B	12.00	12.00	12.00	1
DM 101-055	B	5.00	2.50	0.00	2
DM 101-130	B	0.00	0.00	0.00	1
DM 103-047	I	1120.00	888.25	656.50	2
DM 103-123	B	3230.00	2530.00	1830.00	2
DM 103-178	B	3600.00	2714.00	1828.00	2
DM 103-223	B	1211.00	1131.50	1052.00	2
DM 103-389	B	0.00	0.00	0.00	1
DM 107	A	51.40	22.70	6.91	3
DM 111	A	52.00	37.40	22.80	2
DM 112	A	1072.70	1072.70	1072.70	1
DM 114	A	20.40	20.40	20.40	1
DM 115	A	196.70	183.00	169.30	2
DM 117	A	2290.00	1577.50	755.00	4
DM 118	A	0.20	0.20	0.20	1
DM 119-137	I	0.00	0.00	0.00	1
DM 119-204	B	0.00	0.00	0.00	1
DM 120	A	125.40	95.53	65.65	2
DM 122-A	A	2.50	2.35	2.20	2
DM 122-B	I	8.00	4.00	0.00	2
DM 123-056	I	0.00	0.00	0.00	1
DM 123-085	B	0.00	0.00	0.00	1
DM 123-135	B	0.00	0.00	0.00	1
DM 123-195	B	0.00	0.00	0.00	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.9 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TOTAL ETHYLENE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 123-250	B	0.00	0.00	0.00	1
DM 123-285	B	0.00	0.00	0.00	1
DM 124	A	3.60	2.75	1.90	2
DM 125-076	I	1.40	1.40	1.40	1
DM 125-125	B	1.20	1.20	1.20	1
DM 125-155	B	1.40	1.40	1.40	1
DM 125-185	B	8.00	8.00	8.00	1
DM 125-270	B	3.00	3.00	3.00	1
DM 201	A	3830.00	2650.88	1300.00	29
DM 201-OB1	A	30000.00	22065.76	17000.00	17
DM 201-OB2	A	5422.80	4364.16	3310.00	5
DM 201-OB3	A	187.00	113.18	42.20	5
DM 303	A	1200.00	865.00	530.00	2
DM 304	A	1240.00	1215.00	1190.00	2
DM 305	A	4579.00	4234.50	3890.00	2
DM 306	A	4810.00	4522.00	4234.00	2
DM 307	A	3760.00	3494.25	3228.50	2
DM 308	A	2638.30	2414.15	2190.00	2
DM 309	A	5750.00	5300.00	4850.00	2
DM 310	A	2950.00	2895.00	2840.00	2
DM 311	A	195.50	175.00	154.50	2
DM 312	A	42.60	39.85	37.10	2
DM 313	A	1.10	1.00	0.90	2
DM 501-147	A	22.55	17.67	13.80	5
DM 501-202	I	104.70	81.94	61.60	5

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.9 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TOTAL ETHYLENE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 501-267	B	10.60	4.88	0.00	5
DM 501-331	B	0.80	0.16	0.00	5
DM 501-387	B	1.70	0.62	0.00	5
DM 502-079	A	604.00	381.02	174.00	4
DM 502-119	I	1016.00	714.48	287.90	4
DM 502-161	B	382.40	208.12	66.80	4
DM 502-240	B	125.60	61.98	16.50	4
DM 502-335	B	92.50	48.60	16.60	4
DM 503	A	19.00	7.88	0.20	5
DM 504	A	2246.10	1507.77	730.00	6
DM 505	A	1.90	1.05	0.00	4
DM 506-100	A	99.30	74.67	59.10	3
DM 506-185	I	214.60	161.13	94.10	3
DM 506-240	B	51.90	42.13	27.10	3
DM 506-305	B	57.10	28.17	8.40	3
DM 506-375	B	37.00	25.07	11.40	3
DM 507-084	A	1070.00	751.03	433.10	3
DM 507-188	I	598.00	413.13	298.00	3
DM 507-240	B	562.70	379.90	264.00	3
DM 507-280	B	434.00	370.10	315.00	3
DM 507-315	B	230.00	199.77	169.30	3
DM 508	A	0.50	0.33	0.00	3
DM 509	A	400.00	351.27	271.80	3
DM 601-040	I	780.00	762.00	744.00	2
DM 601-085	B	516.20	424.10	332.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.9 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TOTAL ETHYLENE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 601-135	B	364.20	320.60	277.00	2
DM 601-200	B	8500.00	4361.00	222.00	2
DM 602	A	2.40	1.55	0.70	2
DM 603-068	A	20.30	11.83	3.35	2
DM 603-115	I	1530.00	1325.00	1120.00	2
DM 603-170	B	7100.00	6100.00	5100.00	2
DM 603-205	B	5590.00	5445.00	5300.00	2
DM 603-245	B	7170.00	6485.00	5800.00	2
DM 604	A	1140.00	1041.00	942.00	2
DM 605-066	A	68.30	66.45	64.60	2
DM 605-105	I	2730.00	2655.00	2580.00	2
DM 605-170	B	3.60	3.50	3.40	2
DM 605-240	B	2.00	1.55	1.10	2
DM 605-290	B	2.20	1.45	0.70	2
DM 606-045	I	1519.70	965.80	411.90	2
DM 606-102	B	2646.50	2448.25	2250.00	2
DM 606-185	B	22410.00	20890.00	19370.00	2
DM 606-250	B	326.60	317.15	307.70	2
DM 606-330	B	79.00	68.35	57.70	2
DM 606-370	B	12.00	9.00	6.00	2
DM 701	A	0.35	0.12	0.00	3
MP 03-B	I	34000.00	26176.67	13130.00	3
MP 03-C	B	1502000.00	939750.00	377500.00	2
MP 03-D	B	4102900.00	2817950.00	1533000.00	2
MP 09-A	A	41800.00	26900.00	12000.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.9 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TOTAL ETHYLENE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP 09-B	I	4210.00	2860.00	1510.00	2
MP 09-C	B	4830.00	2820.00	810.00	2
MP 09-D	B	7610.00	6905.00	6200.00	2
MP 11-A	A	125.00	125.00	125.00	1
MP 11-B	I	1590.00	1145.00	700.00	2
MP 11-C	B	560.00	560.00	560.00	1
MP 11-D	B	24.00	12.70	1.40	2
MP 13-B	I	1910.00	1540.00	1170.00	2
MP 13-C	B	5.10	4.20	3.30	2
MP 16-A	A	76.00	51.45	23.30	4
MP 16-B	I	17.00	9.75	2.50	2
MP 16-C	B	1.00	1.00	1.00	1
MP 20-A	I	0.36	0.36	0.36	1
MP 20-B	B	0.24	0.24	0.24	1
MP 20-C	B	0.00	0.00	0.00	1
MP 25-D	B	11.90	11.90	11.90	1
MP 28-A	I	31.60	19.70	7.80	2
MP 28-B	B	0.00	0.00	0.00	1
MP 28-C	B	0.00	0.00	0.00	2
MP 28-D	B	1.10	1.10	1.10	1
MP 30-A	A	0.50	0.50	0.50	1
MP 30-C	B	84.00	84.00	84.00	1
MP 36-A	A	134.60	115.30	96.00	2
MP 36-B	I	4775.00	4287.50	3800.00	2
MP 36-C	B	5890.00	5890.00	5890.00	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.9 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TOTAL ETHYLENE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP 36-D	B	170000.00	151366.67	139300.00	3
MP 37-B	B	30.60	30.60	30.60	1
MP 37-C	B	240.50	215.25	190.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.10

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
40&VB	A	0.00	0.00	0.00	1
DM 101-045	B	12.00	12.00	12.00	1
DM 101-055	B	5.00	2.50	0.00	2
DM 101-130	B	0.00	0.00	0.00	1
DM 103-047	I	140.00	105.50	71.00	2
DM 103-123	B	360.00	245.00	130.00	2
DM 103-178	B	200.00	114.00	28.00	2
DM 103-223	B	52.00	31.50	11.00	2
DM 103-389	B	0.00	0.00	0.00	1
DM 107	A	50.80	22.43	6.70	3
DM 111	A	27.70	22.35	17.00	2
DM 112	A	750.00	750.00	750.00	1
DM 114	A	17.30	17.30	17.30	1
DM 115	A	190.00	176.50	163.00	2
DM 117	A	400.00	216.25	0.00	4
DM 118	A	0.20	0.20	0.20	1
DM 119-137	I	0.00	0.00	0.00	1
DM 119-204	B	0.00	0.00	0.00	1
DM 120	A	123.00	93.75	64.50	2
DM 122-A	A	2.50	2.17	1.85	2
DM 122-B	I	6.80	3.40	0.00	2
DM 123-056	I	0.00	0.00	0.00	1
DM 123-085	B	0.00	0.00	0.00	1
DM 123-135	B	0.00	0.00	0.00	1
DM 123-195	B	0.00	0.00	0.00	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.10 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 123-250	B	0.00	0.00	0.00	1
DM 123-285	B	0.00	0.00	0.00	1
DM 124	A	3.30	2.45	1.60	2
DM 125-076	I	1.40	1.40	1.40	1
DM 125-125	B	1.20	1.20	1.20	1
DM 125-155	B	1.40	1.40	1.40	1
DM 125-185	B	8.00	8.00	8.00	1
DM 125-270	B	3.00	3.00	3.00	1
DM 201	A	70.70	25.72	0.00	29
DM 201-OB1	A	48.00	6.94	0.00	17
DM 201-OB2	A	95.00	69.60	43.00	5
DM 201-OB3	A	84.00	63.96	36.80	5
DM 303	A	950.00	645.00	340.00	2
DM 304	A	760.00	495.00	230.00	2
DM 305	A	4500.00	4166.67	3833.33	2
DM 306	A	4700.00	4350.00	4000.00	2
DM 307	A	3500.00	3200.00	2900.00	2
DM 308	A	2000.00	1850.00	1700.00	2
DM 309	A	710.00	630.00	550.00	2
DM 310	A	550.00	535.00	520.00	2
DM 311	A	180.00	160.00	140.00	2
DM 312	A	36.00	33.50	31.00	2
DM 313	A	1.10	1.00	0.90	2
DM 501-147	A	20.55	15.29	8.80	5
DM 501-202	I	98.00	75.80	54.00	5

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.10 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 501-267	B	8.50	4.34	0.00	5
DM 501-331	B	0.20	0.04	0.00	5
DM 501-387	B	0.80	0.16	0.00	5
DM 502-079	A	172.00	108.17	43.70	4
DM 502-119	I	227.00	99.35	14.40	4
DM 502-161	B	75.00	34.98	9.40	4
DM 502-240	B	22.40	12.58	3.00	4
DM 502-335	B	21.40	10.28	3.60	4
DM 503	A	17.10	6.92	0.20	5
DM 504	A	1165.00	944.08	709.50	6
DM 505	A	1.90	0.95	0.00	4
DM 506-100	A	76.80	53.70	37.70	3
DM 506-185	I	180.00	130.33	61.00	3
DM 506-240	B	32.80	26.83	17.00	3
DM 506-305	B	32.20	17.67	7.80	3
DM 506-375	B	24.00	14.87	7.80	3
DM 507-084	A	870.00	586.67	290.00	3
DM 507-188	I	475.00	312.33	212.00	3
DM 507-240	B	420.00	259.00	170.00	3
DM 507-280	B	348.00	284.33	235.00	3
DM 507-315	B	188.00	158.67	135.00	3
DM 508	A	0.50	0.33	0.00	3
DM 509	A	400.00	344.83	264.50	3
DM 601-040	I	440.00	395.00	350.00	2
DM 601-085	B	300.00	250.00	200.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.10 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 601-135	B	260.00	230.00	200.00	2
DM 601-200	B	8500.00	4345.00	190.00	2
DM 602	A	2.40	1.55	0.70	2
DM 603-068	A	20.00	11.68	3.35	2
DM 603-115	I	1500.00	1300.00	1100.00	2
DM 603-170	B	7100.00	6100.00	5100.00	2
DM 603-205	B	5500.00	5400.00	5300.00	2
DM 603-245	B	7100.00	6450.00	5800.00	2
DM 604	A	975.00	887.50	800.00	2
DM 605-066	A	2.90	2.60	2.30	2
DM 605-105	I	575.00	512.50	450.00	2
DM 605-170	B	0.90	0.85	0.80	2
DM 605-240	B	1.00	0.70	0.40	2
DM 605-290	B	1.10	0.90	0.70	2
DM 606-045	I	110.00	97.00	84.00	2
DM 606-102	B	390.00	370.00	350.00	2
DM 606-185	B	9600.00	8600.00	7600.00	2
DM 606-250	B	120.00	110.00	100.00	2
DM 606-330	B	32.00	27.00	22.00	2
DM 606-370	B	5.20	2.60	0.00	2
DM 701	A	0.35	0.12	0.00	3
MP 03-B	I	10000.00	5443.33	2930.00	3
MP 03-C	B	1500000.00	938500.00	377000.00	2
MP 03-D	B	4100000.00	2815000.00	1530000.00	2
MP 09-A	A	38000.00	25000.00	12000.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.10 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP 09-B	I	3500.00	2450.00	1400.00	2
MP 09-C	B	1950.00	975.00	0.00	2
MP 09-D	B	2450.00	2425.00	2400.00	2
MP 11-A	A	125.00	125.00	125.00	1
MP 11-B	I	1270.00	985.00	700.00	2
MP 11-C	B	560.00	560.00	560.00	1
MP 11-D	B	23.00	12.20	1.40	2
MP 13-B	I	1800.00	1390.00	980.00	2
MP 13-C	B	2.70	2.30	1.90	2
MP 16-A	A	30.50	18.15	13.10	4
MP 16-B	I	15.20	8.85	2.50	2
MP 16-C	B	1.00	1.00	1.00	1
MP 20-A	I	0.36	0.36	0.36	1
MP 20-B	B	0.00	0.00	0.00	1
MP 20-C	B	0.00	0.00	0.00	1
MP 25-D	B	11.90	11.90	11.90	1
MP 28-A	I	30.80	18.70	6.60	2
MP 28-B	B	0.00	0.00	0.00	1
MP 28-C	B	0.00	0.00	0.00	2
MP 28-D	B	0.50	0.50	0.50	1
MP 30-A	A	0.50	0.50	0.50	1
MP 30-C	B	84.00	84.00	84.00	1
MP 36-A	A	84.00	77.00	70.00	2
MP 36-B	I	3765.00	3182.50	2600.00	2
MP 36-C	B	4400.00	4400.00	4400.00	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.10 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP 36-D	B	170000.00	151000.00	139000.00	3
MP 37-B	B	26.30	26.30	26.30	1
MP 37-C	B	240.00	215.00	190.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.11

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED DCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
40&VB	A	0.00	0.00	0.00	1
DM 101-045	B	0.00	0.00	0.00	1
DM 101-055	B	0.00	0.00	0.00	2
DM 101-130	B	0.00	0.00	0.00	1
DM 103-047	I	5.50	2.75	0.00	2
DM 103-123	B	0.00	0.00	0.00	2
DM 103-178	B	0.00	0.00	0.00	2
DM 103-223	B	0.00	0.00	0.00	2
DM 103-389	B	0.00	0.00	0.00	1
DM 107	A	0.00	0.00	0.00	3
DM 111	A	16.30	8.15	0.00	2
DM 112	A	310.00	310.00	310.00	1
DM 114	A	0.00	0.00	0.00	1
DM 115	A	0.70	0.35	0.00	2
DM 117	A	145.00	66.25	15.00	4
DM 118	A	0.00	0.00	0.00	1
DM 119-137	I	0.00	0.00	0.00	1
DM 119-204	B	0.00	0.00	0.00	1
DM 120	A	1.20	0.60	0.00	2
DM 122-A	A	0.35	0.17	0.00	2
DM 122-B	I	0.00	0.00	0.00	2
DM 123-056	I	0.00	0.00	0.00	1
DM 123-085	B	0.00	0.00	0.00	1
DM 123-135	B	0.00	0.00	0.00	1
DM 123-195	B	0.00	0.00	0.00	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.11 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED DCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 123-250	B	0.00	0.00	0.00	1
DM 123-285	B	0.00	0.00	0.00	1
DM 124	A	0.30	0.15	0.00	2
DM 125-076	I	0.00	0.00	0.00	1
DM 125-125	B	0.00	0.00	0.00	1
DM 125-155	B	0.00	0.00	0.00	1
DM 125-185	B	0.00	0.00	0.00	1
DM 125-270	B	0.00	0.00	0.00	1
DM 201	A	3800.00	2613.97	1300.00	29
DM 201-OB1	A	30000.00	22058.82	17000.00	17
DM 201-OB2	A	5300.00	4280.00	3200.00	5
DM 201-OB3	A	115.00	45.56	2.00	5
DM 303	A	250.00	220.00	190.00	2
DM 304	A	280.00	245.00	210.00	2
DM 305	A	79.00	67.83	56.67	2
DM 306	A	140.00	125.00	110.00	2
DM 307	A	260.00	255.00	250.00	2
DM 308	A	630.00	560.00	490.00	2
DM 309	A	840.00	720.00	600.00	2
DM 310	A	220.00	210.00	200.00	2
DM 311	A	13.00	12.50	12.00	2
DM 312	A	5.10	4.80	4.50	2
DM 313	A	0.00	0.00	0.00	2
DM 501-147	A	0.00	0.00	0.00	5
DM 501-202	I	0.20	0.04	0.00	5

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.11 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED DCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 501-267	B	0.00	0.00	0.00	5
DM 501-331	B	0.00	0.00	0.00	5
DM 501-387	B	1.40	0.28	0.00	5
DM 502-079	A	81.00	58.60	32.40	4
DM 502-119	I	124.00	58.45	1.80	4
DM 502-161	B	63.40	32.22	8.70	4
DM 502-240	B	15.20	7.20	1.70	4
DM 502-335	B	12.10	6.17	2.50	4
DM 503	A	0.00	0.00	0.00	5
DM 504	A	13.00	5.35	0.00	6
DM 505	A	0.00	0.00	0.00	4
DM 506-100	A	5.60	5.27	4.80	3
DM 506-185	I	6.80	4.53	2.80	3
DM 506-240	B	3.90	3.23	2.50	3
DM 506-305	B	1.80	0.80	0.00	3
DM 506-375	B	3.00	1.73	0.60	3
DM 507-084	A	3.10	1.03	0.00	3
DM 507-188	I	123.00	42.13	0.00	3
DM 507-240	B	2.70	1.23	0.00	3
DM 507-280	B	1.30	0.77	0.00	3
DM 507-315	B	1.60	0.53	0.00	3
DM 508	A	0.00	0.00	0.00	3
DM 509	A	0.00	0.00	0.00	3
DM 601-040	I	330.00	325.00	320.00	2
DM 601-085	B	210.00	170.00	130.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.11 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED DCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 601-135	B	100.00	88.00	76.00	2
DM 601-200	B	29.00	14.50	0.00	2
DM 602	A	0.00	0.00	0.00	2
DM 603-068	A	0.00	0.00	0.00	2
DM 603-115	I	30.00	25.00	20.00	2
DM 603-170	B	0.00	0.00	0.00	2
DM 603-205	B	0.00	0.00	0.00	2
DM 603-245	B	0.00	0.00	0.00	2
DM 604	A	165.00	152.50	140.00	2
DM 605-066	A	2.60	1.95	1.30	2
DM 605-105	I	880.00	867.50	855.00	2
DM 605-170	B	1.00	0.80	0.60	2
DM 605-240	B	0.20	0.10	0.00	2
DM 605-290	B	0.00	0.00	0.00	2
DM 606-045	I	9.70	6.30	2.90	2
DM 606-102	B	6.50	3.25	0.00	2
DM 606-185	B	810.00	790.00	770.00	2
DM 606-250	B	7.70	7.15	6.60	2
DM 606-330	B	1.00	0.85	0.70	2
DM 606-370	B	0.00	0.00	0.00	2
DM 701	A	0.00	0.00	0.00	3
MP 03-B	I	28000.00	20733.33	10200.00	3
MP 03-C	B	2000.00	1250.00	500.00	2
MP 03-D	B	3000.00	2800.00	2600.00	2
MP 09-A	A	1800.00	900.00	0.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.11 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED DCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP 09-B	I	110.00	55.00	0.00	2
MP 09-C	B	80.00	40.00	0.00	2
MP 09-D	B	250.00	230.00	210.00	2
MP 11-A	A	0.00	0.00	0.00	1
MP 11-B	I	310.00	155.00	0.00	2
MP 11-C	B	0.00	0.00	0.00	1
MP 11-D	B	0.60	0.30	0.00	2
MP 13-B	I	0.00	0.00	0.00	2
MP 13-C	B	0.00	0.00	0.00	2
MP 16-A	A	58.00	31.67	8.70	4
MP 16-B	I	0.80	0.40	0.00	2
MP 16-C	B	0.00	0.00	0.00	1
MP 20-A	I	0.00	0.00	0.00	1
MP 20-B	B	0.00	0.00	0.00	1
MP 20-C	B	0.00	0.00	0.00	1
MP 25-D	B	0.00	0.00	0.00	1
MP 28-A	I	0.80	0.40	0.00	2
MP 28-B	B	0.00	0.00	0.00	1
MP 28-C	B	0.00	0.00	0.00	2
MP 28-D	B	0.00	0.00	0.00	1
MP 30-A	A	0.00	0.00	0.00	1
MP 30-C	B	0.00	0.00	0.00	1
MP 36-A	A	38.35	29.17	20.00	2
MP 36-B	I	1200.00	1105.00	1010.00	2
MP 36-C	B	1490.00	1490.00	1490.00	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.11 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED DCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP 36-D	B	800.00	366.67	0.00	3
MP 37-B	B	1.70	1.70	1.70	1
MP 37-C	B	0.00	0.00	0.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.12

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TDCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
40&VB	A	0.00	0.00	0.00	1
DM 101-045	B	0.00	0.00	0.00	1
DM 101-055	B	0.00	0.00	0.00	2
DM 101-130	B	0.00	0.00	0.00	1
DM 103-047	I	980.00	780.00	580.00	2
DM 103-123	B	2870.00	2285.00	1700.00	2
DM 103-178	B	3400.00	2600.00	1800.00	2
DM 103-223	B	1200.00	1100.00	1000.00	2
DM 103-389	B	0.00	0.00	0.00	1
DM 107	A	0.60	0.27	0.00	3
DM 111	A	8.00	6.90	5.80	2
DM 112	A	12.70	12.70	12.70	1
DM 114	A	3.10	3.10	3.10	1
DM 115	A	6.70	6.15	5.60	2
DM 117	A	1800.00	1295.00	620.00	4
DM 118	A	0.00	0.00	0.00	1
DM 119-137	I	0.00	0.00	0.00	1
DM 119-204	B	0.00	0.00	0.00	1
DM 120	A	1.20	1.17	1.15	2
DM 122-A	A	0.00	0.00	0.00	2
DM 122-B	I	1.20	0.60	0.00	2
DM 123-056	I	0.00	0.00	0.00	1
DM 123-085	B	0.00	0.00	0.00	1
DM 123-135	B	0.00	0.00	0.00	1
DM 123-195	B	0.00	0.00	0.00	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.12 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TDCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 123-250	B	0.00	0.00	0.00	1
DM 123-285	B	0.00	0.00	0.00	1
DM 124	A	0.30	0.15	0.00	2
DM 125-076	I	0.00	0.00	0.00	1
DM 125-125	B	0.00	0.00	0.00	1
DM 125-155	B	0.00	0.00	0.00	1
DM 125-185	B	0.00	0.00	0.00	1
DM 125-270	B	0.00	0.00	0.00	1
DM 201	A	50.00	11.20	0.00	29
DM 201-OB1	A	0.00	0.00	0.00	17
DM 201-OB2	A	42.80	14.56	0.00	5
DM 201-OB3	A	8.00	3.66	0.00	5
DM 303	A	0.00	0.00	0.00	2
DM 304	A	750.00	475.00	200.00	2
DM 305	A	0.00	0.00	0.00	2
DM 306	A	94.00	47.00	0.00	2
DM 307	A	78.50	39.25	0.00	2
DM 308	A	8.30	4.15	0.00	2
DM 309	A	4200.00	3950.00	3700.00	2
DM 310	A	2200.00	2150.00	2100.00	2
DM 311	A	2.50	2.50	2.50	2
DM 312	A	1.60	1.55	1.50	2
DM 313	A	0.00	0.00	0.00	2
DM 501-147	A	5.00	2.38	1.40	5
DM 501-202	I	7.40	6.10	4.00	5

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.12 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TDCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 501-267	B	2.10	0.54	0.00	5
DM 501-331	B	0.60	0.12	0.00	5
DM 501-387	B	0.60	0.18	0.00	5
DM 502-079	A	358.00	214.25	0.00	4
DM 502-119	I	800.00	556.67	271.70	4
DM 502-161	B	244.00	140.93	48.70	4
DM 502-240	B	88.00	42.20	11.80	4
DM 502-335	B	59.00	32.15	10.50	4
DM 503	A	3.20	0.96	0.00	5
DM 504	A	1075.00	558.33	0.00	6
DM 505	A	0.40	0.10	0.00	4
DM 506-100	A	16.90	15.70	13.60	3
DM 506-185	I	30.60	26.27	21.90	3
DM 506-240	B	15.20	12.07	7.60	3
DM 506-305	B	23.10	9.70	0.00	3
DM 506-375	B	12.40	8.47	3.00	3
DM 507-084	A	200.00	163.33	140.00	3
DM 507-188	I	90.00	58.67	0.00	3
DM 507-240	B	142.00	119.67	77.00	3
DM 507-280	B	90.00	85.00	79.00	3
DM 507-315	B	47.00	40.57	32.70	3
DM 508	A	0.00	0.00	0.00	3
DM 509	A	12.00	6.43	0.00	3
DM 601-040	I	64.00	42.00	20.00	2
DM 601-085	B	6.20	4.10	2.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.12 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TDCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 601-135	B	4.20	2.60	1.00	2
DM 601-200	B	3.00	1.50	0.00	2
DM 602	A	0.00	0.00	0.00	2
DM 603-068	A	0.30	0.15	0.00	2
DM 603-115	I	0.00	0.00	0.00	2
DM 603-170	B	0.00	0.00	0.00	2
DM 603-205	B	90.00	45.00	0.00	2
DM 603-245	B	70.00	35.00	0.00	2
DM 604	A	2.00	1.00	0.00	2
DM 605-066	A	62.80	61.90	61.00	2
DM 605-105	I	1400.00	1275.00	1150.00	2
DM 605-170	B	2.00	1.85	1.70	2
DM 605-240	B	1.00	0.75	0.50	2
DM 605-290	B	1.10	0.55	0.00	2
DM 606-045	I	1400.00	862.50	325.00	2
DM 606-102	B	2250.00	2075.00	1900.00	2
DM 606-185	B	12000.00	11500.00	11000.00	2
DM 606-250	B	200.00	200.00	200.00	2
DM 606-330	B	46.00	40.50	35.00	2
DM 606-370	B	6.80	6.40	6.00	2
DM 701	A	0.00	0.00	0.00	3
MP 03-B	I	0.00	0.00	0.00	3
MP 03-C	B	0.00	0.00	0.00	2
MP 03-D	B	300.00	150.00	0.00	2
MP 09-A	A	2000.00	1000.00	0.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.12 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TDCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP 09-B	I	710.00	355.00	0.00	2
MP 09-C	B	2800.00	1805.00	810.00	2
MP 09-D	B	5000.00	4250.00	3500.00	2
MP 11-A	A	0.00	0.00	0.00	1
MP 11-B	I	10.00	5.00	0.00	2
MP 11-C	B	0.00	0.00	0.00	1
MP 11-D	B	0.40	0.20	0.00	2
MP 13-B	I	190.00	150.00	110.00	2
MP 13-C	B	2.40	1.90	1.40	2
MP 16-A	A	3.00	1.62	0.00	4
MP 16-B	I	1.00	0.50	0.00	2
MP 16-C	B	0.00	0.00	0.00	1
MP 20-A	I	0.00	0.00	0.00	1
MP 20-B	B	0.24	0.24	0.24	1
MP 20-C	B	0.00	0.00	0.00	1
MP 25-D	B	0.00	0.00	0.00	1
MP 28-A	I	1.20	0.60	0.00	2
MP 28-B	B	0.00	0.00	0.00	1
MP 28-C	B	0.00	0.00	0.00	2
MP 28-D	B	0.60	0.60	0.60	1
MP 30-A	A	0.00	0.00	0.00	1
MP 30-C	B	0.00	0.00	0.00	1
MP 36-A	A	12.25	9.13	6.00	2
MP 36-B	I	0.00	0.00	0.00	2
MP 36-C	B	0.00	0.00	0.00	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.12 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TDCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP 36-D	B	0.00	0.00	0.00	3
MP 37-B	B	2.60	2.60	2.60	1
MP 37-C	B	0.50	0.25	0.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.13

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TCA CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
40&VB	A	0.00	0.00	0.00	1
DM 101-045	B	0.00	0.00	0.00	1
DM 101-055	B	18.00	9.00	0.00	2
DM 101-130	B	23.00	23.00	23.00	1
DM 103-047	I	12.00	6.00	0.00	2
DM 103-123	B	0.00	0.00	0.00	2
DM 103-178	B	17.00	8.50	0.00	2
DM 103-223	B	32.00	16.00	0.00	2
DM 103-389	B	0.00	0.00	0.00	1
DM 107	A	1.60	0.53	0.00	3
DM 111	A	0.00	0.00	0.00	2
DM 112	A	9.20	9.20	9.20	1
DM 114	A	0.40	0.40	0.40	1
DM 115	A	0.00	0.00	0.00	2
DM 117	A	4.00	1.00	0.00	4
DM 118	A	0.00	0.00	0.00	1
DM 119-137	I	4.30	4.30	4.30	1
DM 119-204	B	9.60	9.60	9.60	1
DM 120	A	0.55	0.28	0.00	2
DM 122-A	A	0.87	0.44	0.00	2
DM 122-B	I	20.00	10.00	0.00	2
DM 123-056	I	0.00	0.00	0.00	1
DM 123-085	B	0.00	0.00	0.00	1
DM 123-135	B	0.00	0.00	0.00	1
DM 123-195	B	0.00	0.00	0.00	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.13 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM(1) MEASURED TCA CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 123-250	B	0.00	0.00	0.00	1
DM 123-285	B	0.00	0.00	0.00	1
DM 124	A	0.30	0.15	0.00	2
DM 125-076	I	0.00	0.00	0.00	1
DM 125-125	B	0.00	0.00	0.00	1
DM 125-155	B	0.00	0.00	0.00	1
DM 125-185	B	0.00	0.00	0.00	1
DM 125-270	B	0.00	0.00	0.00	1
DM 201	A	7100.00	4150.34	1700.00	29
DM 201-OB1	A	42000.00	29235.29	20000.00	17
DM 201-OB2	A	8500.00	6760.00	5400.00	5
DM 201-OB3	A	191.00	76.52	0.20	5
DM 303	A	510.00	475.00	440.00	2
DM 304	A	380.00	230.00	80.00	2
DM 305	A	0.00	0.00	0.00	2
DM 306	A	0.00	0.00	0.00	2
DM 307	A	0.00	0.00	0.00	2
DM 308	A	0.00	0.00	0.00	2
DM 309	A	0.00	0.00	0.00	2
DM 310	A	0.00	0.00	0.00	2
DM 311	A	0.00	0.00	0.00	2
DM 312	A	0.00	0.00	0.00	2
DM 313	A	0.00	0.00	0.00	2
DM 501-147	A	11.00	2.96	0.00	5
DM 501-202	I	16.00	4.06	0.00	5

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.13 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TCA CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 501-267	B	13.00	3.70	0.00	5
DM 501-331	B	24.00	6.10	0.00	5
DM 501-387	B	52.00	11.22	0.00	5
DM 502-079	A	45.00	12.60	0.00	4
DM 502-119	I	12.70	6.17	0.00	4
DM 502-161	B	10.20	5.08	0.00	4
DM 502-240	B	9.90	3.55	0.00	4
DM 502-335	B	19.70	7.92	0.00	4
DM 503	A	1.40	0.28	0.00	5
DM 504	A	50.00	8.50	0.00	6
DM 505	A	0.00	0.00	0.00	4
DM 506-100	A	9.80	7.87	5.50	3
DM 506-185	I	12.70	9.77	4.20	3
DM 506-240	B	13.00	7.53	4.30	3
DM 506-305	B	10.70	6.47	0.70	3
DM 506-375	B	20.00	13.23	0.60	3
DM 507-084	A	13.00	6.57	0.00	3
DM 507-188	I	11.00	5.63	0.00	3
DM 507-240	B	10.00	5.30	0.00	3
DM 507-280	B	18.00	8.50	0.00	3
DM 507-315	B	18.00	10.10	0.00	3
DM 508	A	0.00	0.00	0.00	3
DM 509	A	0.00	0.00	0.00	3
DM 601-040	I	13.00	12.00	11.00	2
DM 601-085	B	150.00	116.00	82.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.13 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TCA CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM 601-135	B	66.10	62.05	58.00	2
DM 601-200	B	30.00	15.00	0.00	2
DM 602	A	0.00	0.00	0.00	2
DM 603-068	A	1.30	0.65	0.00	2
DM 603-115	I	0.00	0.00	0.00	2
DM 603-170	B	0.00	0.00	0.00	2
DM 603-205	B	0.00	0.00	0.00	2
DM 603-245	B	0.00	0.00	0.00	2
DM 604	A	0.00	0.00	0.00	2
DM 605-066	A	1.70	0.85	0.00	2
DM 605-105	I	0.00	0.00	0.00	2
DM 605-170	B	0.90	0.45	0.00	2
DM 605-240	B	1.70	0.85	0.00	2
DM 605-290	B	3.10	1.55	0.00	2
DM 606-045	I	1.30	1.20	1.10	2
DM 606-102	B	0.00	0.00	0.00	2
DM 606-185	B	6.30	3.15	0.00	2
DM 606-250	B	2.50	2.40	2.30	2
DM 606-330	B	2.30	2.10	1.90	2
DM 606-370	B	5.00	2.50	0.00	2
DM 701	A	0.15	0.05	0.00	3
MP 03-B	I	271000.00	240333.33	180000.00	3
MP 03-C	B	73000.00	51850.00	30700.00	2
MP 03-D	B	170000.00	129500.00	89000.00	2
MP 09-A	A	1700.00	1180.00	660.00	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.13 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TCA CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP 09-B	I	93.00	46.50	0.00	2
MP 09-C	B	40.00	20.00	0.00	2
MP 09-D	B	170.00	140.00	110.00	2
MP 11-A	A	140.00	140.00	140.00	1
MP 11-B	I	290.00	163.50	37.00	2
MP 11-C	B	0.00	0.00	0.00	1
MP 11-D	B	0.00	0.00	0.00	2
MP 13-B	I	0.00	0.00	0.00	2
MP 13-C	B	0.00	0.00	0.00	2
MP 16-A	A	80.00	33.25	3.00	4
MP 16-B	I	0.50	0.25	0.00	2
MP 16-C	B	0.00	0.00	0.00	1
MP 20-A	I	0.00	0.00	0.00	1
MP 20-B	B	0.00	0.00	0.00	1
MP 20-C	B	0.00	0.00	0.00	1
MP 25-D	B	0.30	0.30	0.30	1
MP 28-A	I	0.50	0.45	0.40	2
MP 28-B	B	0.00	0.00	0.00	1
MP 28-C	B	0.00	0.00	0.00	2
MP 28-D	B	0.80	0.80	0.80	1
MP 30-A	A	0.00	0.00	0.00	1
MP 30-C	B	0.00	0.00	0.00	1
MP 36-A	A	4.15	2.08	0.00	2
MP 36-B	I	2800.00	2145.00	1490.00	2
MP 36-C	B	1800.00	1800.00	1800.00	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.13 (Continued)

1991 MAXIMUM, MEAN AND MINIMUM[1] MEASURED TCA CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP 36-D	B	0.00	0.00	0.00	3
MP 37-B	B	0.00	0.00	0.00	1
MP 37-C	B	11.00	8.10	5.20	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.17

PILOT TREATMENT PLANT INFLUENT VOC CONCENTRATIONS IN PPB

Sample Date	TCA	TCE	DCE	PCE	DCB2
02/06/87	33900	2200	760	770	2100
02/13/87	51700	4300	2010	2200	3800
02/27/87	47000	3300	1600	1100	4100
03/13/87	49000	2890	1450	990	3100
03/31/87	73900	5800	2600	1970	5330
04/10/87	56000	3810	1910	1110	3970
04/24/87	52500	4250	1510	1430	2100
05/08/87	43100	3600	1660	1310	4010
06/05/87	38700	4100	1560	1400	3500
06/19/87	43000	3390	1980	1100	2730
07/10/87	45900	2900	1900	960	2900
07/24/87	42000	3000	2020	920	2800
08/07/87	26200	2830	1700	1120	2220
08/21/87	37200	4860	2210	1520	4560
09/04/87	32900	3890	2140	1390	2290
09/18/87	32500	3350	1480	1040	3030
10/02/87	31000	3060	1490	861	3040
10/30/87	31000	3100	1300	990	2600
11/13/87	27000	<300	<300	1100	3700
12/04/87	26000	2800	1400	1200	4000
12/18/87	32000	3900	1500	2400	7000
01/08/88	34000	3200	1100	1800	5900
01/22/88	2800	3500	1300	1800	3900
02/05/88	27000	3500	1200	2100	6100
02/22/88	2400	4500	840	3300	9300
03/04/88	34000	4200	2000	2700	8500
03/18/88	22000	4400	1600	3000	8100
04/05/88	24000	4920	1100	3200	8600
04/26/88	24000	4050	1030	2800	6800

Table E6.17 (Continued)

PILOT TREATMENT PLANT INFLUENT VOC CONCENTRATIONS IN PPB

Sample Date	TCA	TCE	DCE	PCE	DCB2
05/20/88	16000	3000	980	2200	6800
05/31/88	13000	3200	600	1900	6400
06/14/88	19000	4900	1300	3800	7800
06/29/88	9200	4900	<300	2400	8200
07/27/88	23000	4000	1500	2700	7600
08/05/88	18000	2500	1300	2500	7000
08/26/88	13000	2600	1000	1700	4800
09/09/88	15000	2700	600	1600	1500
09/28/88	18600	3600	800	2100	7400
10/18/88	9600	3600	<300	2100	6150
10/27/88	22000	3900	1200	2600	6600
11/14/88	19000	2900	1200	1900	5800
11/30/88	21500	6000	<300	3000	7800
12/15/88	17000	4300	1400	2100	6400
12/29/88	15400	5100	1100	2400	6400
01/17/89	23000	4500	1500	2100	6330
01/31/89	9500	3200	600	1800	4900
02/16/89	8900	4800	<300	2000	5800
02/23/89	12600	5700	<300	2700	6500
03/09/89	14500	3400	1200	1700	4500
03/22/89	17000	1550	720	900	2900
04/12/89	15000	3800	1370	1700	3900
04/26/89	16000	3400	870	1200	2100
05/10/89	24000	4800	1100	2200	5000
06/23/89	19200	3000	1400	1500	3200
07/26/89	14200	2630	1000	1040	1670
08/31/89	8600	2500	580	820	2080

Table E6.17 (Continued)

PILOT TREATMENT PLANT INFLUENT VOC CONCENTRATIONS IN PPB

Sample Date	TCA	TCE	DCE	PCE	DCB2
09/19/89	16200	4050	1650	1620	3800
09/28/89	19000	3200	750	1050	2200
10/18/89	14000	5100	900	1800	3660

Table E6.14

1991 MAXIMUM, MEAN, AND MINIMUM[1] MEASURED TCA + DCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
40&VB	A	0.000	0.000	0.000	1
DM101-045	B	0.000	0.000	0.000	1
DM101-055	B	18.000	9.000	0.000	2
DM101-130	B	23.000	23.000	23.000	1
DM103-047	I	17.500	8.750	0.000	2
DM103-123	B	0.000	0.000	0.000	2
DM103-178	B	17.000	8.500	0.000	2
DM103-223	B	32.000	16.000	0.000	2
DM103-389	B	0.000	0.000	0.000	1
DM107	A	1.600	0.533	0.000	3
DM111	A	16.300	8.150	0.000	2
DM112	A	319.200	319.200	319.200	1
DM114	A	0.400	0.400	0.400	1
DM115	A	0.700	0.350	0.000	2
DM117	A	145.000	67.250	19.000	4
DM118	A	0.000	0.000	0.000	1
DM119-137	I	4.300	4.300	4.300	1
DM119-204	B	9.600	9.600	9.600	1
DM120	A	1.200	0.875	0.550	2
DM122-A	A	0.870	0.610	0.350	2
DM122-B	I	20.000	10.000	0.000	2
DM123-056	I	0.000	0.000	0.000	1
DM123-085	B	0.000	0.000	0.000	1
DM123-135	B	0.000	0.000	0.000	1
DM123-195	B	0.000	0.000	0.000	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.14 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] MEASURED TCA + DCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM123-250	B	0.000	0.000	0.000	1
DM123-285	B	0.000	0.000	0.000	1
DM124	A	0.300	0.300	0.300	2
DM125-076	I	0.000	0.000	0.000	1
DM125-125	B	0.000	0.000	0.000	1
DM125-155	B	0.000	0.000	0.000	1
DM125-185	B	0.000	0.000	0.000	1
DM125-270	B	0.000	0.000	0.000	1
DM201	A	10000.000	6764.310	3000.000	29
DM201-OB1	A	67000.000	51294.120	38700.000	17
DM201-OB2	A	13800.000	11040.000	8600.000	5
DM201-OB3	A	289.000	122.080	2.200	5
DM303	A	760.000	695.000	630.000	2
DM304	A	660.000	475.000	290.000	2
DM305	A	79.000	67.833	56.667	2
DM306	A	140.000	125.000	110.000	2
DM307	A	260.000	255.000	250.000	2
DM308	A	630.000	560.000	490.000	2
DM309	A	840.000	720.000	600.000	2
DM310	A	220.000	210.000	200.000	2
DM311	A	13.000	12.500	12.000	2
DM312	A	5.100	4.800	4.500	2
DM313	A	0.000	0.000	0.000	2
DM501-147	A	11.000	2.960	0.000	5

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.14 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] MEASURED TCA + DCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM501-202	I	16.200	4.100	0.000	5
DM501-267	B	13.000	3.700	0.000	5
DM501-331	B	24.000	6.100	0.000	5
DM501-387	B	53.400	11.500	0.000	5
DM502-079	A	92.000	71.200	37.000	4
DM502-119	I	124.000	64.625	14.500	4
DM502-161	B	63.400	37.300	18.900	4
DM502-240	B	15.200	10.750	6.000	4
DM502-335	B	22.200	14.100	4.100	4
DM503	A	1.400	0.280	0.000	5
DM504	A	63.000	13.850	0.000	6
DM505	A	0.000	0.000	0.000	4
DM506-100	A	15.400	13.133	10.300	3
DM506-185	I	19.200	14.300	7.000	3
DM506-240	B	16.300	10.767	7.800	3
DM506-305	B	12.500	7.267	1.300	3
DM506-375	B	23.000	14.967	1.200	3
DM507-084	A	13.000	7.600	0.000	3
DM507-188	I	134.000	47.767	0.000	3
DM507-240	B	11.000	6.533	0.000	3
DM507-280	B	19.000	9.267	0.000	3
DM507-315	B	18.000	10.633	0.000	3
DM508	A	0.000	0.000	0.000	3
DM509	A	0.000	0.000	0.000	3

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.14 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] MEASURED TCA + DCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM601-040	I	341.000	337.000	333.000	2
DM601-085	B	360.000	286.000	212.000	2
DM601-135	B	166.100	150.050	134.000	2
DM601-200	B	59.000	29.500	0.000	2
DM602	A	0.000	0.000	0.000	2
DM603-068	A	1.300	0.650	0.000	2
DM603-115	I	30.000	25.000	20.000	2
DM603-170	B	0.000	0.000	0.000	2
DM603-205	B	0.000	0.000	0.000	2
DM603-245	B	0.000	0.000	0.000	2
DM604	A	165.000	152.500	140.000	2
DM605-066	A	3.000	2.800	2.600	2
DM605-105	I	880.000	867.500	855.000	2
DM605-170	B	1.500	1.250	1.000	2
DM605-240	B	1.700	0.950	0.200	2
DM605-290	B	3.100	1.550	0.000	2
DM606-045	I	10.800	7.500	4.200	2
DM606-102	B	6.500	3.250	0.000	2
DM606-185	B	816.300	793.150	770.000	2
DM606-250	B	10.200	9.550	8.900	2
DM606-330	B	3.000	2.950	2.900	2
DM606-370	B	5.000	2.500	0.000	2
DM701	A	0.150	0.050	0.000	3
MP03-B	I	298000.000	261066.667	190200.000	3

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.14 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] MEASURED TCA + DCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP03-C	B	75000.000	53100.000	31200.000	2
MP03-D	B	172600.000	132300.000	92000.000	2
MP09-A	A	3500.000	2080.000	660.000	2
MP09-B	I	110.000	101.500	93.000	2
MP09-C	B	120.000	60.000	0.000	2
MP09-D	B	420.000	370.000	320.000	2
MP11-A	A	140.000	140.000	140.000	1
MP11-B	I	600.000	318.500	37.000	2
MP11-C	B	0.000	0.000	0.000	1
MP11-D	B	0.600	0.300	0.000	2
MP13-B	I	0.000	0.000	0.000	2
MP13-C	B	0.000	0.000	0.000	2
MP16-A	A	138.000	64.925	11.700	4
MP16-B	I	1.300	0.650	0.000	2
MP16-C	B	0.000	0.000	0.000	1
MP20-A	I	0.000	0.000	0.000	1
MP20-B	B	0.000	0.000	0.000	1
MP20-C	B	0.000	0.000	0.000	1
MP25-D	B	0.300	0.300	0.300	1
MP28-A	I	1.200	0.850	0.500	2
MP28-B	B	0.000	0.000	0.000	1
MP28-C	B	0.000	0.000	0.000	2
MP28-D	B	0.800	0.800	0.800	1
MP30-A	A	0.000	0.000	0.000	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.14 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] MEASURED TCA + DCE CONCENTRATIONS (in ppb)

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP30-C	B	0.000	0.000	0.000	1
MP36-A	A	42.500	31.250	20.000	2
MP36-B	I	4000.000	3250.000	2500.000	2
MP36-C	B	3290.000	3290.000	3290.000	1
MP36-D	B	800.000	366.667	0.000	3
MP37-B	B	1.700	1.700	1.700	1
MP37-C	B	11.000	8.100	5.200	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

0.00 = Not detected.

Table E6.15

1991 MAXIMUM, MEAN, AND MINIMUM[1] RATIO OF TCE TO TDCE

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
40&VB	A	NC	NC	NC	1
DM101-045	B	NC	NC	NC	1
DM101-055	B	NC	NC	NC	2
DM101-130	B	NC	NC	NC	1
DM103-047	I	0.143	0.133	0.122	2
DM103-123	B	0.125	0.101	0.076	2
DM103-178	B	0.059	0.037	0.016	2
DM103-223	B	0.052	0.031	0.009	2
DM103-389	B	NC	NC	NC	1
DM107	A	84.667	58.286	31.905	3
DM111	A	3.463	3.197	2.931	2
DM112	A	59.055	59.055	59.055	1
DM114	A	5.581	5.581	5.581	1
DM115	A	29.107	28.733	28.358	2
DM117	A	0.235	0.207	0.192	4
DM118	A	NC	NC	NC	1
DM119-137	I	NC	NC	NC	1
DM119-204	B	NC	NC	NC	1
DM120	A	102.500	79.293	56.087	2
DM122-A	A	NC	NC	NC	2
DM122-B	I	5.667	5.667	5.667	2
DM123-056	I	NC	NC	NC	1
DM123-085	B	NC	NC	NC	1
DM123-135	B	NC	NC	NC	1
DM123-195	B	NC	NC	NC	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

NC = Not calculable.

Table E6.15 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] RATIO OF TCE TO TDCE

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM123-250	B	NC	NC	NC	1
DM123-285	B	NC	NC	NC	1
DM124	A	11.000	11.000	11.000	2
DM125-076	I	NC	NC	NC	1
DM125-125	B	NC	NC	NC	1
DM125-155	B	NC	NC	NC	1
DM125-185	B	NC	NC	NC	1
DM125-270	B	NC	NC	NC	1
DM201	A	10.700	2.360	0.600	29
DM201-OB1	A	NC	NC	NC	17
DM201-OB2	A	2.667	2.268	1.869	5
DM201-OB3	A	12.174	10.541	8.625	5
DM303	A	NC	NC	NC	2
DM304	A	3.800	2.053	0.307	2
DM305	A	NC	NC	NC	2
DM306	A	42.553	42.553	42.553	2
DM307	A	36.943	36.943	36.943	2
DM308	A	240.964	240.964	240.964	2
DM309	A	0.169	0.159	0.149	2
DM310	A	0.250	0.249	0.248	2
DM311	A	72.000	64.000	56.000	2
DM312	A	24.000	21.687	19.375	2
DM313	A	NC	NC	NC	2
DM501-147	A	12.400	8.376	1.760	5
DM501-202	I	20.250	13.143	7.297	5

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

NC = Not calculable.

Table E6.15 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] RATIO OF TCE TO TDCE

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM501-267	B	6.500	5.274	4.048	5
DM501-331	B	0.333	0.333	0.333	5
DM501-387	B	1.333	1.333	1.333	5
DM502-079	A	0.480	0.334	0.200	4
DM502-119	I	0.341	0.171	0.045	4
DM502-161	B	0.307	0.228	0.193	4
DM502-240	B	0.524	0.335	0.254	4
DM502-335	B	0.393	0.324	0.196	4
DM503	A	12.214	7.717	4.937	5
DM504	A	1.303	1.158	1.084	6
DM505	A	3.750	3.750	3.750	4
DM506-100	A	4.544	3.414	2.271	3
DM506-185	I	6.849	5.017	2.319	3
DM506-240	B	2.291	2.229	2.158	3
DM506-305	B	2.167	1.780	1.394	3
DM506-375	B	2.600	2.011	1.032	3
DM507-084	A	4.350	3.474	2.071	3
DM507-188	I	2.778	2.621	2.465	3
DM507-240	B	3.000	2.209	1.197	3
DM507-280	B	4.047	3.340	2.975	3
DM507-315	B	4.476	3.953	3.255	3
DM508	A	NC	NC	NC	3
DM509	A	36.233	33.533	30.833	3
DM601-040	I	22.000	13.734	5.469	2
DM601-085	B	100.000	74.194	48.387	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

NC = Not calculable.

Table E6.15 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] RATIO OF TCE TO TDCE

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM601-135	B	200.000	130.952	61.905	2
DM601-200	B	63.333	63.333	63.333	2
DM602	A	NC	NC	NC	2
DM603-068	A	66.667	66.667	66.667	2
DM603-115	I	NC	NC	NC	2
DM603-170	B	NC	NC	NC	2
DM603-205	B	61.111	61.111	61.111	2
DM603-245	B	101.429	101.429	101.429	2
DM604	A	400.000	400.000	400.000	2
DM605-066	A	0.046	0.042	0.038	2
DM605-105	I	0.500	0.411	0.321	2
DM605-170	B	0.529	0.465	0.400	2
DM605-240	B	1.000	0.900	0.800	2
DM605-290	B	1.000	1.000	1.000	2
DM606-045	I	0.258	0.169	0.079	2
DM606-102	B	0.184	0.179	0.173	2
DM606-185	B	0.800	0.745	0.691	2
DM606-250	B	0.600	0.550	0.500	2
DM606-330	B	0.696	0.662	0.629	2
DM606-370	B	0.765	0.765	0.765	2
DM701	A	NC	NC	NC	3
MP03-B	I	NC	NC	NC	3
MP03-C	B	NC	NC	NC	2
MP03-D	B	13666.667	13666.667	13666.667	2
MP09-A	A	19.000	19.000	19.000	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

NC = Not calculable.

Table E6.15 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] RATIO OF TCE TO TDCE

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP09-B	I	4.930	4.930	4.930	2
MP09-C	B	0.696	0.696	0.696	2
MP09-D	B	0.700	0.590	0.480	2
MP11-A	A	NC	NC	NC	1
MP11-B	I	127.000	127.000	127.000	2
MP11-C	B	NC	NC	NC	1
MP11-D	B	57.500	57.500	57.500	2
MP13-B	I	16.364	10.761	5.158	2
MP13-C	B	1.357	1.241	1.125	2
MP16-A	A	15.250	9.661	5.000	4
MP16-B	I	15.200	15.200	15.200	2
MP16-C	B	NC	NC	NC	1
MP20-A	I	NC	NC	NC	1
MP20-B	B	NC	NC	NC	1
MP20-C	B	NC	NC	NC	1
MP25-D	B	NC	NC	NC	1
MP28-A	I	5.500	5.500	5.500	2
MP28-B	B	NC	NC	NC	1
MP28-C	B	NC	NC	NC	2
MP28-D	B	0.833	0.833	0.833	1
MP30-A	A	NC	NC	NC	1
MP30-C	B	NC	NC	NC	1
MP36-A	A	11.667	9.262	6.857	2
MP36-B	I	NC	NC	NC	2
MP36-C	B	NC	NC	NC	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

NC = Not calculable.

Table E6.15 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] RATIO OF TCE TO TDCE

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP36-D	B	NC	NC	NC	3
MP37-B	B	10.115	10.115	10.115	1
MP37-C	B	480.000	480.000	480.000	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

NC = Not calculable.

Table E6.16

1991 MAXIMUM, MEAN, AND MINIMUM[1] RATIO OF TCA TO DCE

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
40&VB	A	NC	NC	NC	1
DM101-045	B	NC	NC	NC	1
DM101-055	B	NC	NC	NC	2
DM101-130	B	NC	NC	NC	1
DM103-047	I	2.182	2.182	2.182	2
DM103-123	B	NC	NC	NC	2
DM103-178	B	NC	NC	NC	2
DM103-223	B	NC	NC	NC	2
DM103-389	B	NC	NC	NC	1
DM107	A	NC	NC	NC	3
DM111	A	NC	NC	NC	2
DM112	A	0.030	0.030	0.030	1
DM114	A	NC	NC	NC	1
DM115	A	NC	NC	NC	2
DM117	A	0.267	0.267	0.267	4
DM118	A	NC	NC	NC	1
DM119-137	I	NC	NC	NC	1
DM119-204	B	NC	NC	NC	1
DM120	A	NC	NC	NC	2
DM122-A	A	NC	NC	NC	2
DM122-B	I	NC	NC	NC	2
DM123-056	I	NC	NC	NC	1
DM123-085	B	NC	NC	NC	1
DM123-135	B	NC	NC	NC	1
DM123-195	B	NC	NC	NC	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

NC = Not calculable.

Table E6.16 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] RATIO OF TCA TO DCE

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM123-250	B	NC	NC	NC	1
DM123-285	B	NC	NC	NC	1
DM124	A	NC	NC	NC	2
DM125-076	I	NC	NC	NC	1
DM125-125	B	NC	NC	NC	1
DM125-155	B	NC	NC	NC	1
DM125-185	B	NC	NC	NC	1
DM125-270	B	NC	NC	NC	1
DM201	A	2.680	1.600	0.890	29
DM201-OB1	A	2.180	1.340	0.990	17
DM201-OB2	A	1.687	1.586	1.479	5
DM201-OB3	A	2.941	1.536	0.100	5
DM303	A	2.316	2.178	2.040	2
DM304	A	1.357	0.869	0.381	2
DM305	A	NC	NC	NC	2
DM306	A	NC	NC	NC	2
DM307	A	NC	NC	NC	2
DM308	A	NC	NC	NC	2
DM309	A	NC	NC	NC	2
DM310	A	NC	NC	NC	2
DM311	A	NC	NC	NC	2
DM312	A	NC	NC	NC	2
DM313	A	NC	NC	NC	2
DM501-147	A	NC	NC	NC	5
DM501-202	I	80.000	80.000	80.000	5

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

NC = Not calculable.

Table E6.16 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] RATIO OF TCA TO DCE

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM501-267	B	NC	NC	NC	5
DM501-331	B	NC	NC	NC	5
DM501-387	B	37.143	37.143	37.143	5
DM502-079	A	0.957	0.370	0.010	4
DM502-119	I	7.056	3.653	0.250	4
DM502-161	B	1.172	0.555	0.059	4
DM502-240	B	3.300	2.915	2.529	4
DM502-335	B	7.880	4.940	2.000	4
DM503	A	NC	NC	NC	5
DM504	A	3.846	2.005	0.164	6
DM505	A	NC	NC	NC	4
DM506-100	A	1.750	1.478	1.146	3
DM506-185	I	3.175	2.166	1.500	3
DM506-240	B	3.939	2.387	1.103	3
DM506-305	B	5.944	3.556	1.167	3
DM506-375	B	11.938	6.535	1.000	3
DM507-084	A	2.161	2.161	2.161	3
DM507-188	I	1.735	0.912	0.089	3
DM507-240	B	10.000	6.093	2.185	3
DM507-280	B	18.000	11.885	5.769	3
DM507-315	B	7.687	7.687	7.687	3
DM508	A	NC	NC	NC	3
DM509	A	NC	NC	NC	3
DM601-040	I	0.041	0.037	0.033	2
DM601-085	B	0.714	0.673	0.631	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

NC = Not calculable.

Table E6.16 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] RATIO OF TCA TO DCE

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM601-135	B	0.763	0.712	0.661	2
DM601-200	B	1.034	1.034	1.034	2
DM602	A	NC	NC	NC	2
DM603-068	A	NC	NC	NC	2
DM603-115	I	NC	NC	NC	2
DM603-170	B	NC	NC	NC	2
DM603-205	B	NC	NC	NC	2
DM603-245	B	NC	NC	NC	2
DM604	A	NC	NC	NC	2
DM605-066	A	1.308	1.308	1.308	2
DM605-105	I	NC	NC	NC	2
DM605-170	B	1.500	1.500	1.500	2
DM605-240	B	NC	NC	NC	2
DM605-290	B	NC	NC	NC	2
DM606-045	I	0.448	0.281	0.113	2
DM606-102	B	NC	NC	NC	2
DM606-185	B	0.008	0.008	0.008	2
DM606-250	B	0.348	0.337	0.325	2
DM606-330	B	3.286	2.593	1.900	2
DM606-370	B	NC	NC	NC	2
DM701	A	NC	NC	NC	3
MP03-B	I	17.647	12.861	9.643	3
MP03-C	B	61.400	48.950	36.500	2
MP03-D	B	65.385	47.526	29.667	2
MP09-A	A	0.944	0.944	0.944	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

NC = Not calculable.

Table E6.16 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] RATIO OF TCA TO DCE

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP09-B	I	NC	NC	NC	2
MP09-C	B	0.500	0.500	0.500	2
MP09-D	B	0.680	0.602	0.524	2
MP11-A	A	NC	NC	NC	1
MP11-B	I	0.935	0.935	0.935	2
MP11-C	B	NC	NC	NC	1
MP11-D	B	NC	NC	NC	2
MP13-B	I	NC	NC	NC	2
MP13-C	B	NC	NC	NC	2
MP16-A	A	1.379	0.855	0.345	4
MP16-B	I	0.625	0.625	0.625	2
MP16-C	B	NC	NC	NC	1
MP20-A	I	NC	NC	NC	1
MP20-B	B	NC	NC	NC	1
MP20-C	B	NC	NC	NC	1
MP25-D	B	NC	NC	NC	1
MP28-A	I	0.500	0.500	0.500	2
MP28-B	B	NC	NC	NC	1
MP28-C	B	NC	NC	NC	2
MP28-D	B	NC	NC	NC	1
MP30-A	A	NC	NC	NC	1
MP30-C	B	NC	NC	NC	1
MP36-A	A	0.108	0.108	0.108	2
MP36-B	I	2.333	1.904	1.475	2
MP36-C	B	1.208	1.208	1.208	1

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

NC = Not calculable.

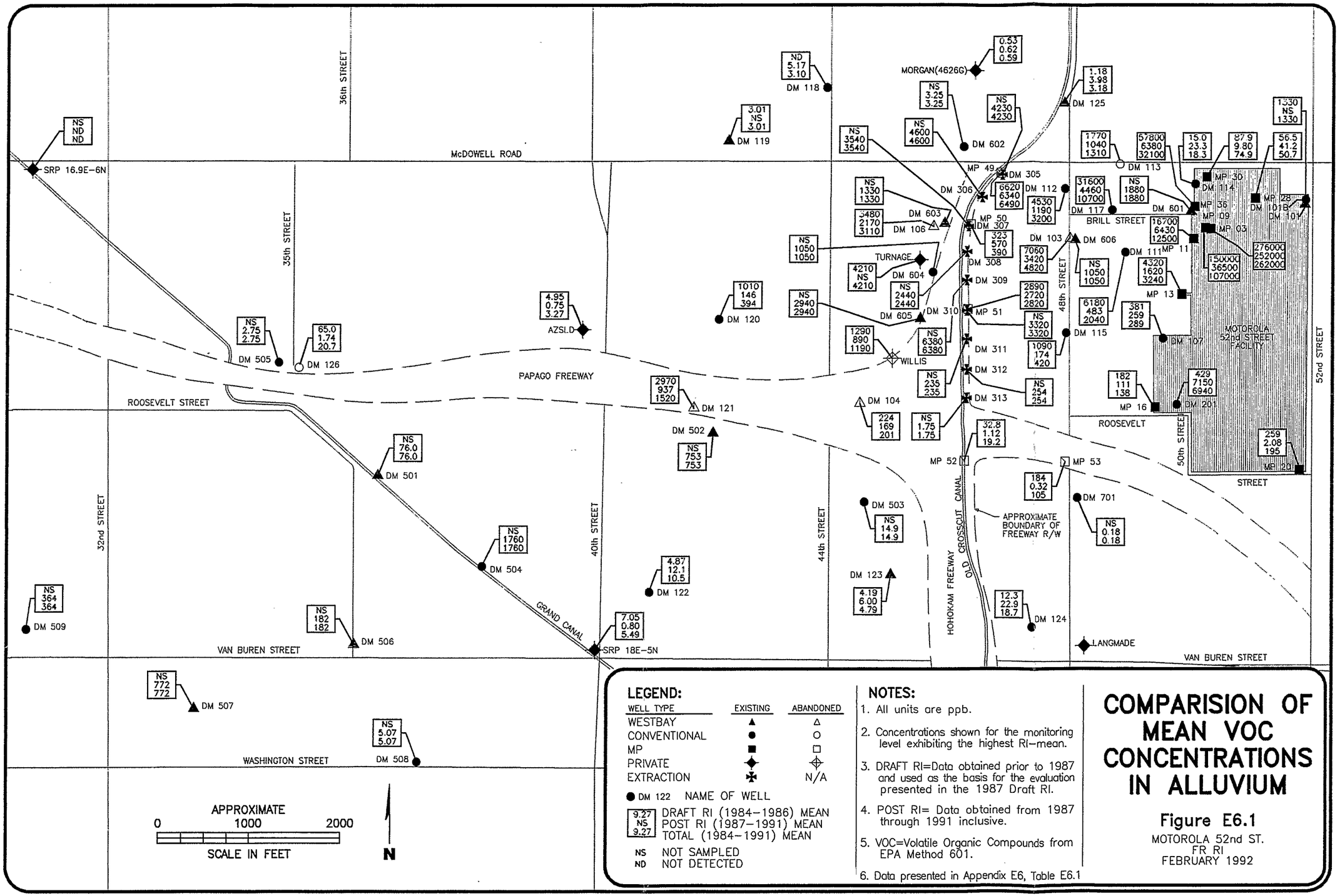
Table E6.16 (Continued)

1991 MAXIMUM, MEAN, AND MINIMUM[1] RATIO OF TCA TO DCE

Well	Alluvium/ Interface/ Bedrock	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP36-D	B	NC	NC	NC	3
MP37-B	B	NC	NC	NC	1
MP37-C	B	NC	NC	NC	2

(1) The data presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

NC = Not calculable.



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	✦	✧
EXTRACTION	✠	N/A

● DM 122 NAME OF WELL

9.27 / NS / 9.27 — DRAFT RI (1984–1986) MEAN; POST RI (1987–1991) MEAN; TOTAL (1984–1991) MEAN

NS NOT SAMPLED

ND NOT DETECTED

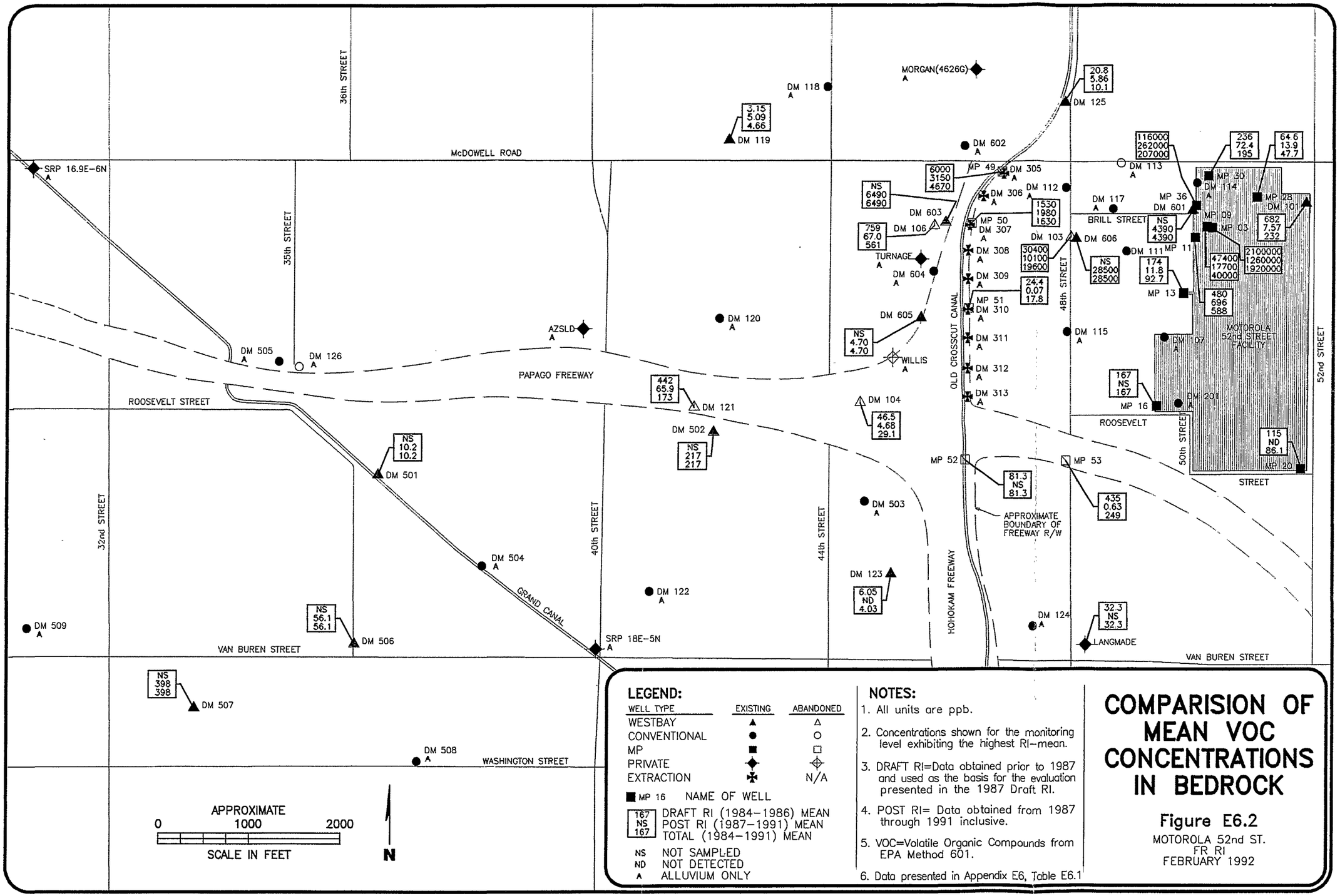
NOTES:

1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. VOC=Volatile Organic Compounds from EPA Method 601.
6. Data presented in Appendix E6, Table E6.1

COMPARISION OF MEAN VOC CONCENTRATIONS IN ALLUVIUM

Figure E6.1

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	◆	◇
EXTRACTION	✠	N/A

■ MP 16 NAME OF WELL

167 / NS / 167 — DRAFT RI (1984–1986) MEAN; POST RI (1987–1991) MEAN; TOTAL (1984–1991) MEAN

NS NOT SAMPLED
ND NOT DETECTED
A ALLUVIUM ONLY

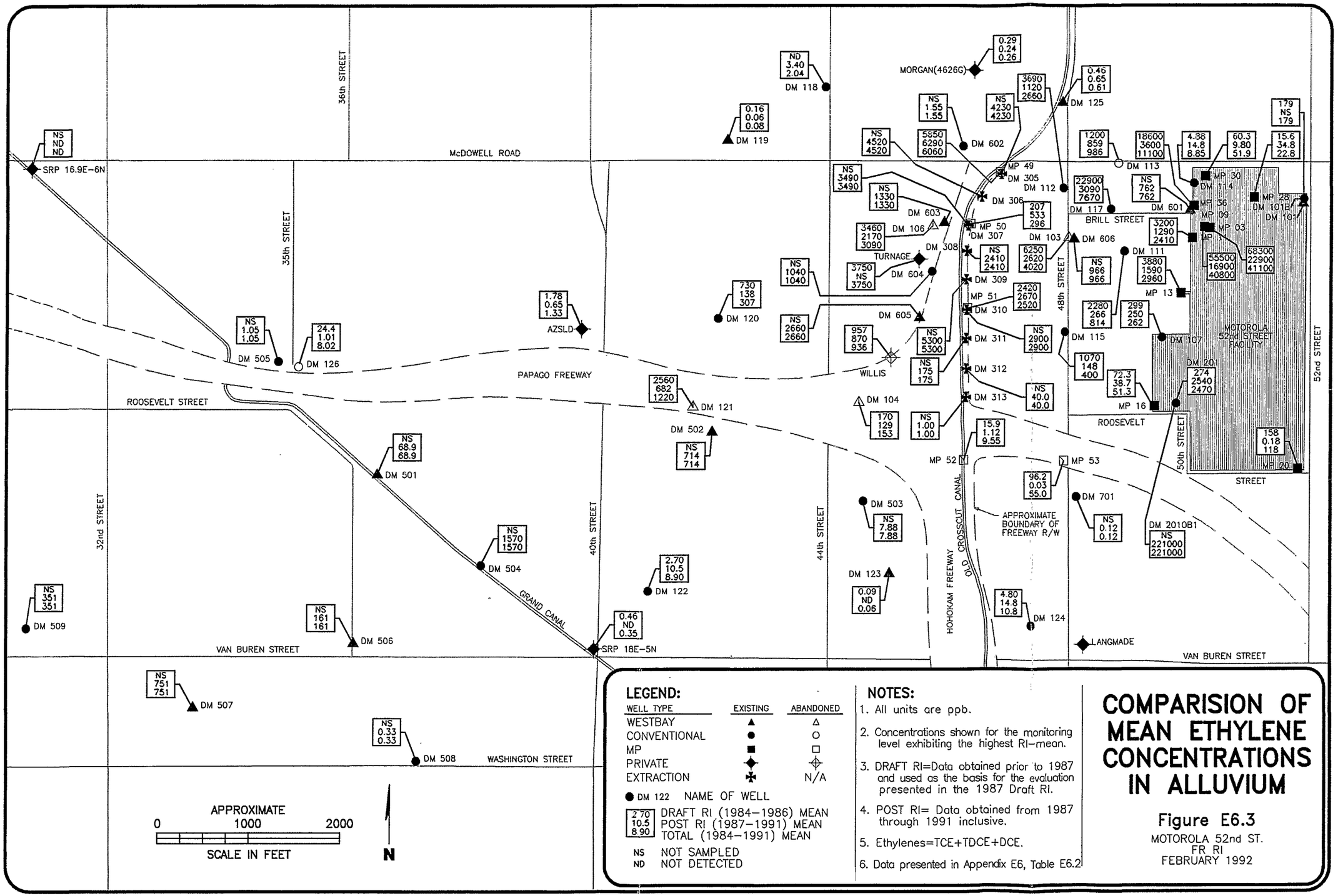
NOTES:

1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. VOC=Volatile Organic Compounds from EPA Method 601.
6. Data presented in Appendix E6, Table E6.1

COMPARISION OF MEAN VOC CONCENTRATIONS IN BEDROCK

Figure E6.2

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	✦	✧
EXTRACTION	✠	N/A

● DM 122 NAME OF WELL

2.70 / 10.5 / 8.90	DRAFT RI (1984–1986) MEAN POST RI (1987–1991) MEAN TOTAL (1984–1991) MEAN

NS NOT SAMPLED
ND NOT DETECTED

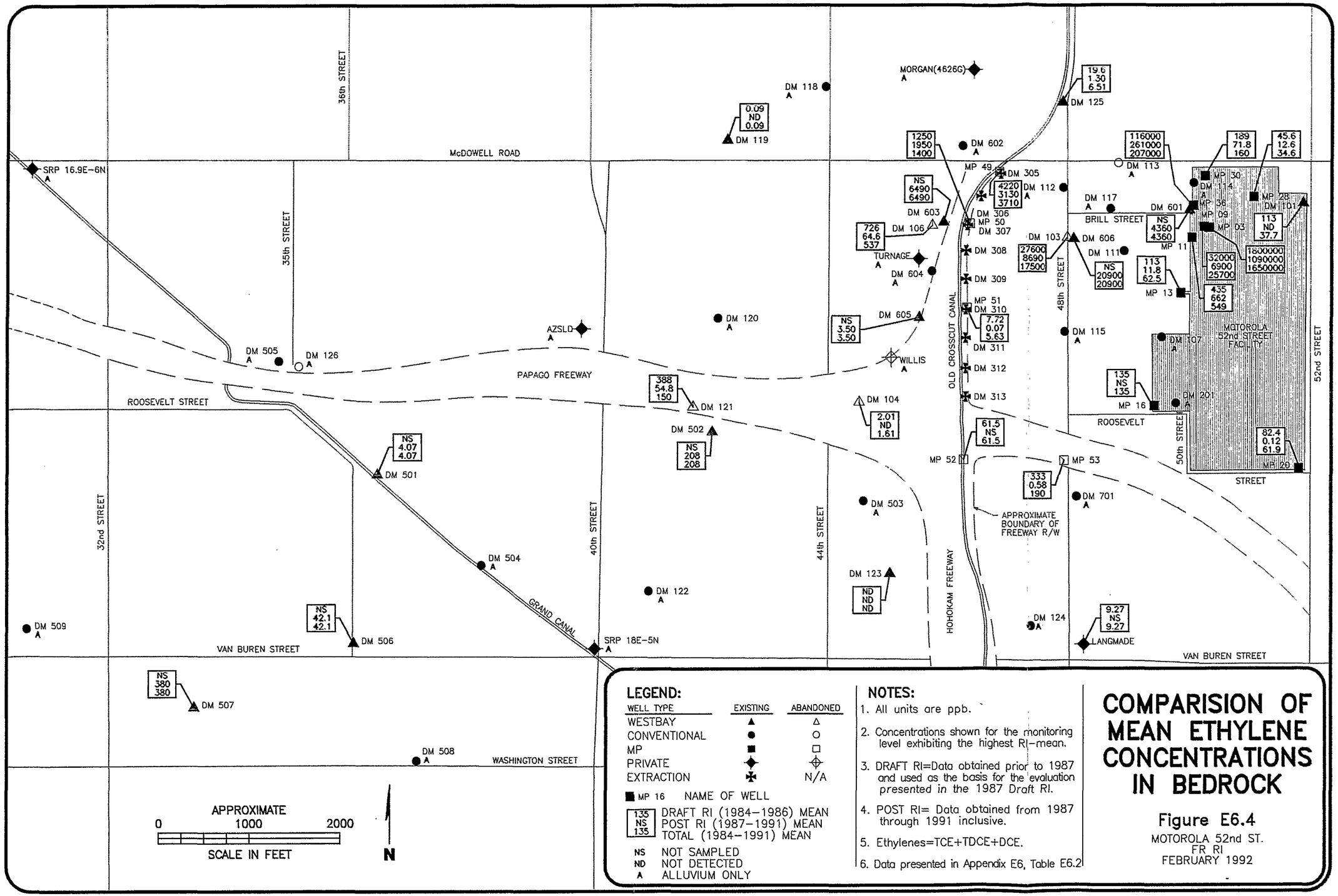
NOTES:

1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Ethylenes=TCE+TDCE+DCE.
6. Data presented in Appendix E6, Table E6.2

COMPARISION OF MEAN ETHYLENE CONCENTRATIONS IN ALLUVIUM

Figure E6.3

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	✦	✧
EXTRACTION	✠	N/A

■ MP 16 NAME OF WELL

135 NS 135 — DRAFT RI (1984–1986) MEAN; POST RI (1987–1991) MEAN; TOTAL (1984–1991) MEAN

NS NOT SAMPLED
ND NOT DETECTED
A ALLUVIUM ONLY

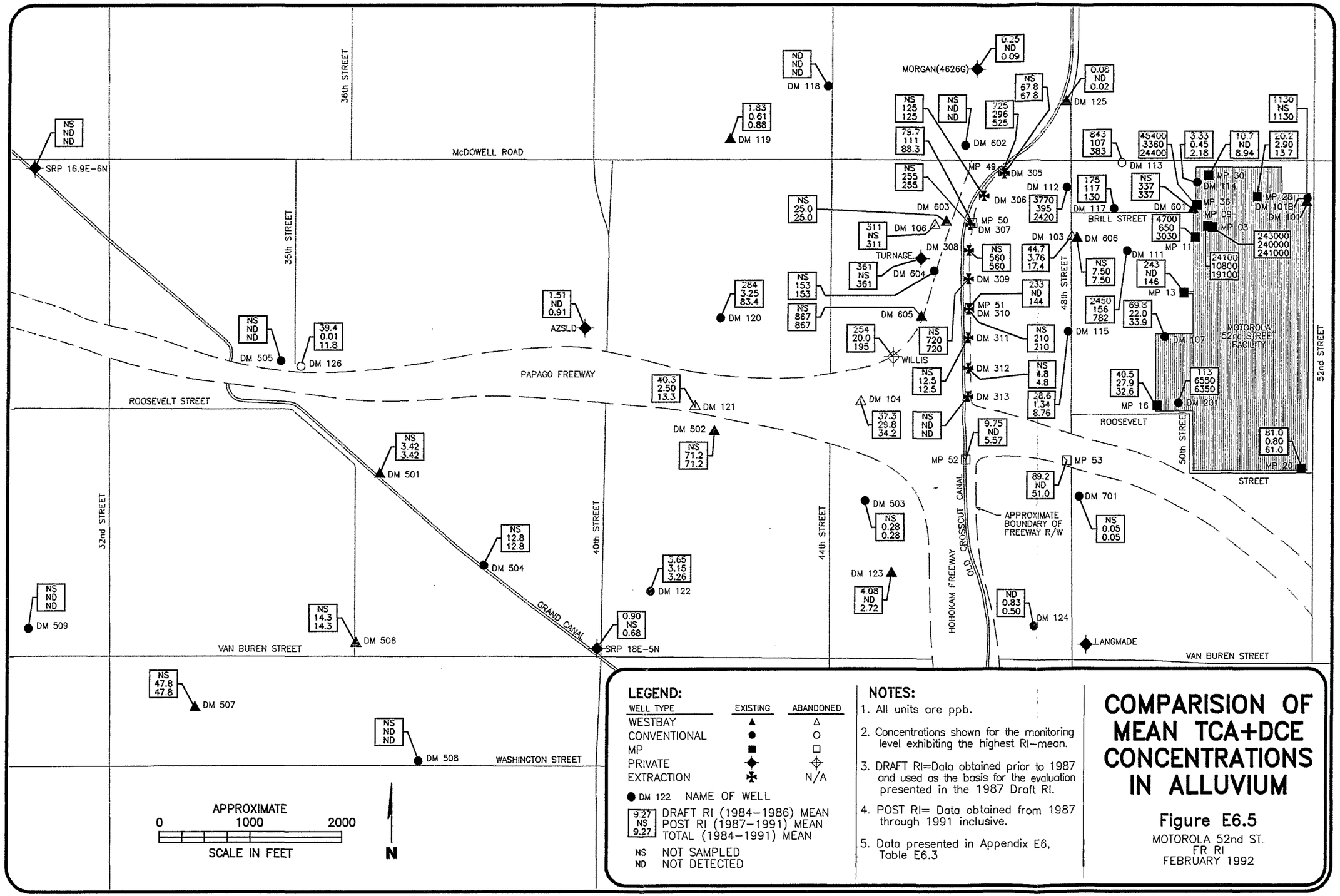
NOTES:

1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI-mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Ethylenes=TCE+TDCE+DCE.
6. Data presented in Appendix E6, Table E6.2

COMPARISION OF MEAN ETHYLENE CONCENTRATIONS IN BEDROCK

Figure E6.4

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	◆	◇
EXTRACTION	✠	N/A

● DM 122 NAME OF WELL

9.27 / NS / 9.27 — DRAFT RI (1984–1986) MEAN; POST RI (1987–1991) MEAN; TOTAL (1984–1991) MEAN

NS NOT SAMPLED

ND NOT DETECTED

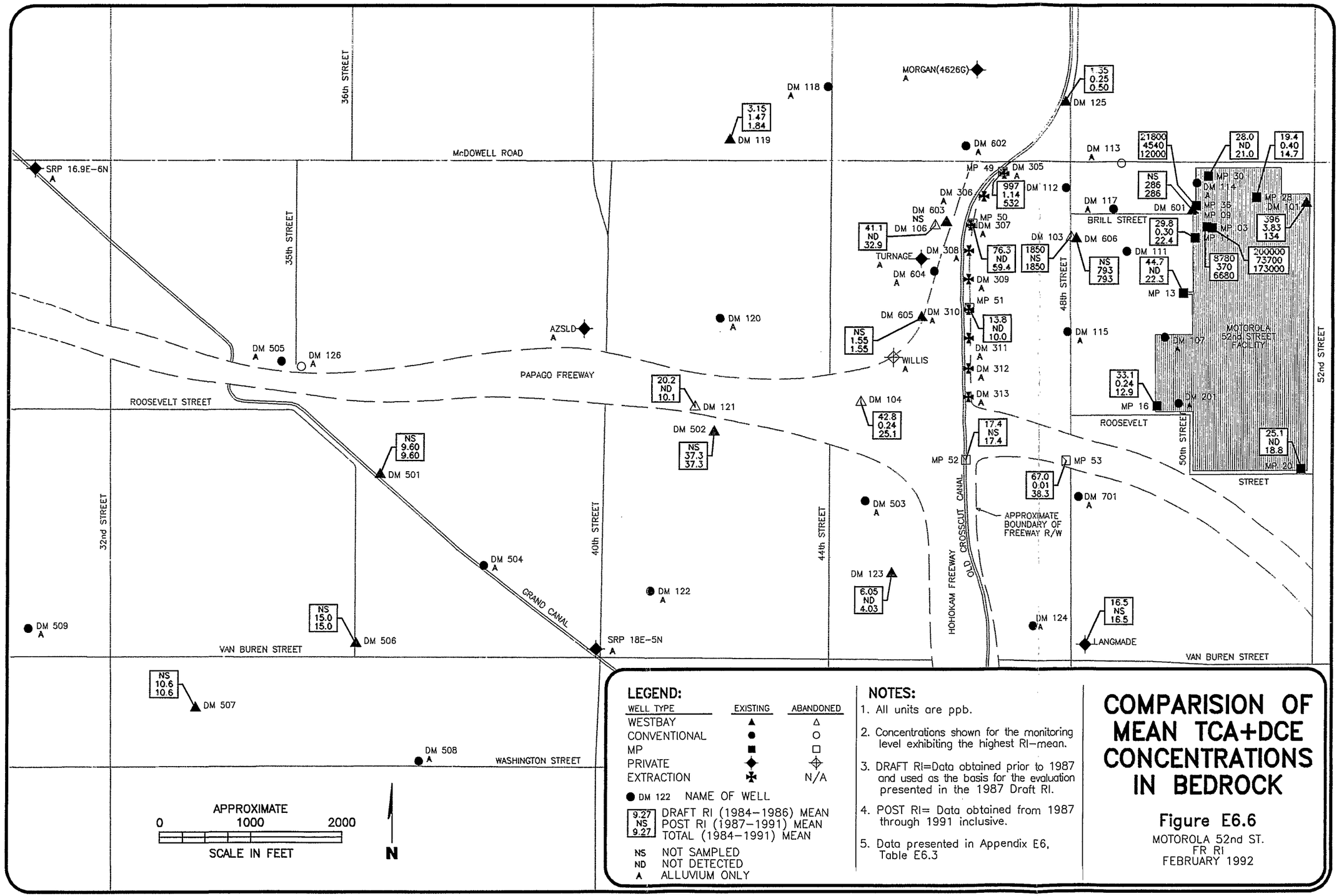
NOTES:

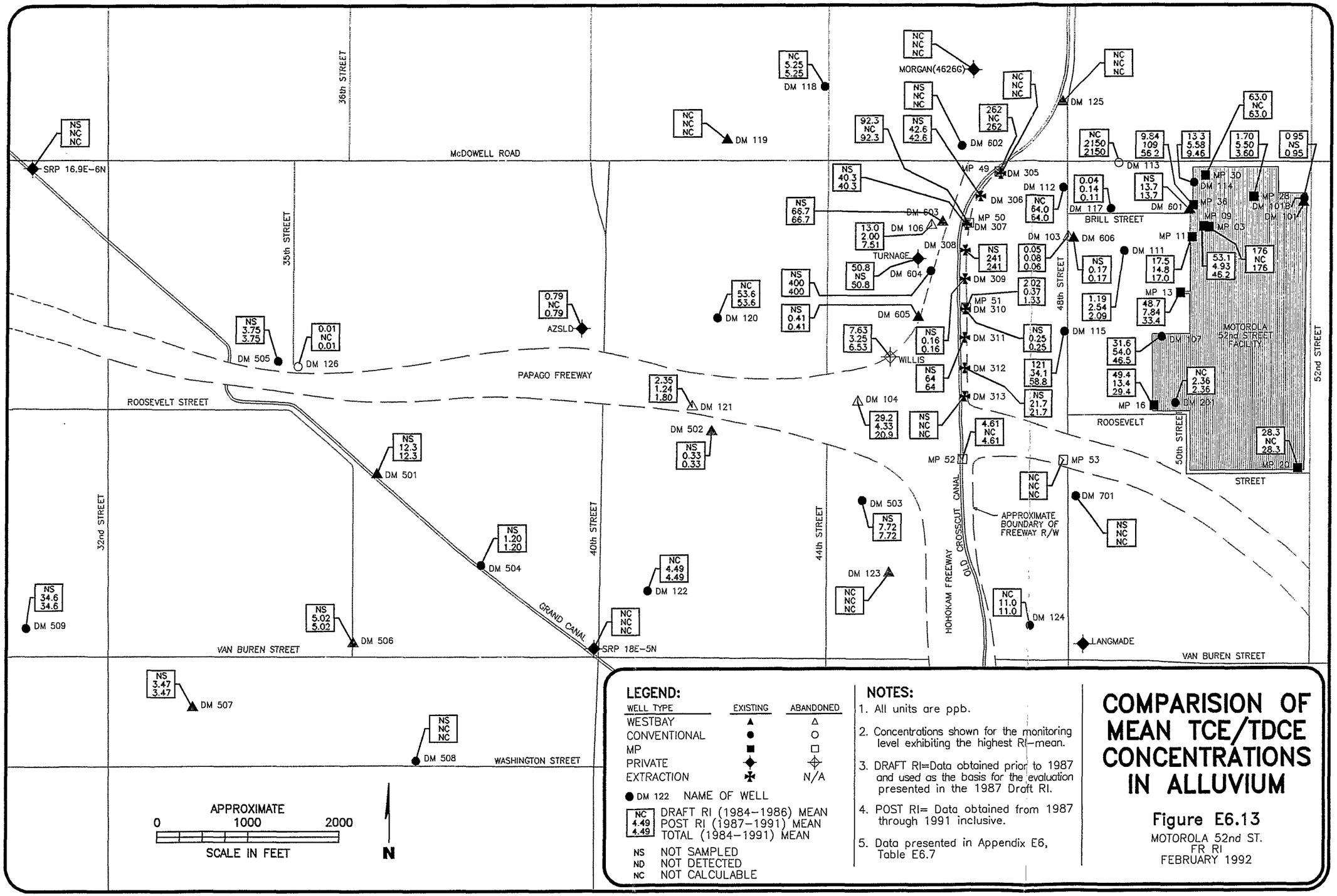
1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Data presented in Appendix E6, Table E6.3

COMPARISION OF MEAN TCA+DCE CONCENTRATIONS IN ALLUVIUM

Figure E6.5

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992


36th STREET
35th STREET
McDOWELL ROAD
SRP 16.9E-6N
DM 118
3.15
1.47
1.84
DM 119
MORGAN(4626G)
1.35
0.25
0.50
DM 125
DM 602
DM 113
21800
4540
12000
28.0
ND
21.0
19.4
0.40
14.7
MP 49
DM 305
997
1.14
532
DM 112
NS
286
286
MP 30
DM 114
MP 36
MP 09
MP 28
DM 101
DM 306
DM 603
NS
DM 106
41.1
ND
32.9
MP 50
DM 307
DM 117
BRILL STREET
DM 601
29.8
0.30
22.4
396
3.83
134
MP 03
TURNAGE
DM 308
76.3
ND
59.4
1850
NS
1850
DM 103
DM 606
DM 111
8780
370
6680
200000
73700
173000
DM 604
DM 309
NS
793
793
44.7
ND
22.3
MP 13
MP 51
48th STREET
DM 605
DM 310
NS
1.55
1.55
13.8
ND
10.0
DM 115
MOTOROLA 52nd STREET FACILITY
DM 107
DM 311
WILLIS
DM 312
DM 313
33.1
0.24
12.9
DM 201
MP 16
ROOSEVELT
52nd STREET
DM 505
DM 126
AZSLD
DM 120
PAPAGO FREEWAY
ROOSEVELT STREET
20.2
ND
10.1
DM 121
DM 104
42.8
0.24
25.1
DM 502
NS
37.3
37.3
17.4
NS
17.4
25.1
ND
18.8
MP 20
50th STREET
STREET
NS
9.60
9.60
DM 501
MP 52
MP 53
67.0
0.01
38.3
32nd STREET
40th STREET
44th STREET
DM 503
OLD CROSSCUT CANAL
APPROXIMATE BOUNDARY OF FREEWAY R/W
DM 701
DM 504
GRAND CANAL
DM 123
6.05
ND
4.03
HOHOKAM FREEWAY
DM 122
DM 124
16.5
NS
16.5
LANGMADE
DM 509
NS
15.0
15.0
DM 506
SRP 18E-5N
VAN BUREN STREET
VAN BUREN STREET
NS
10.6
10.6
DM 507
DM 508
WASHINGTON STREET
APPROXIMATE
0
1000
2000
SCALE IN FEET
N
LEGEND:
WELL TYPE
EXISTING
ABANDONED
WESTBAY
CONVENTIONAL
MP
PRIVATE
EXTRACTION
N/A
DM 122 NAME OF WELL
9.27 NS 9.27
DRAFT RI (1984–1986) MEAN
POST RI (1987–1991) MEAN
TOTAL (1984–1991) MEAN
NS NOT SAMPLED
ND NOT DETECTED
A ALLUVIUM ONLY
NOTES:
1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Data presented in Appendix E6, Table E6.3
COMPARISION OF MEAN TCA+DCE CONCENTRATIONS IN BEDROCK
Figure E6.6
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	◆	◇
EXTRACTION	✠	N/A

● DM 122 NAME OF WELL

NC 4.49 4.49 — DRAFT RI (1984–1986) MEAN; POST RI (1987–1991) MEAN; TOTAL (1984–1991) MEAN

NS NOT SAMPLED
ND NOT DETECTED
NC NOT CALCULABLE

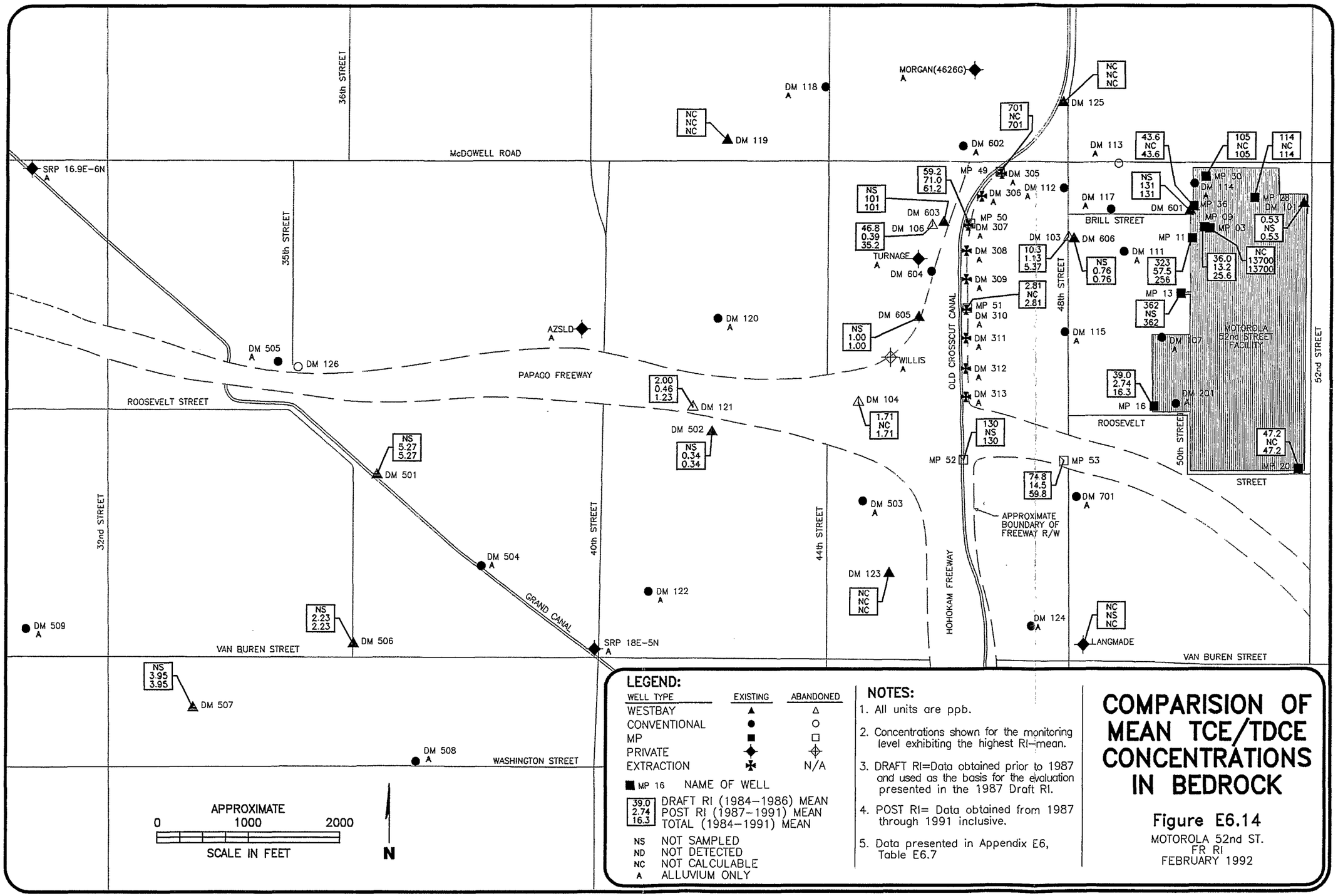
NOTES:

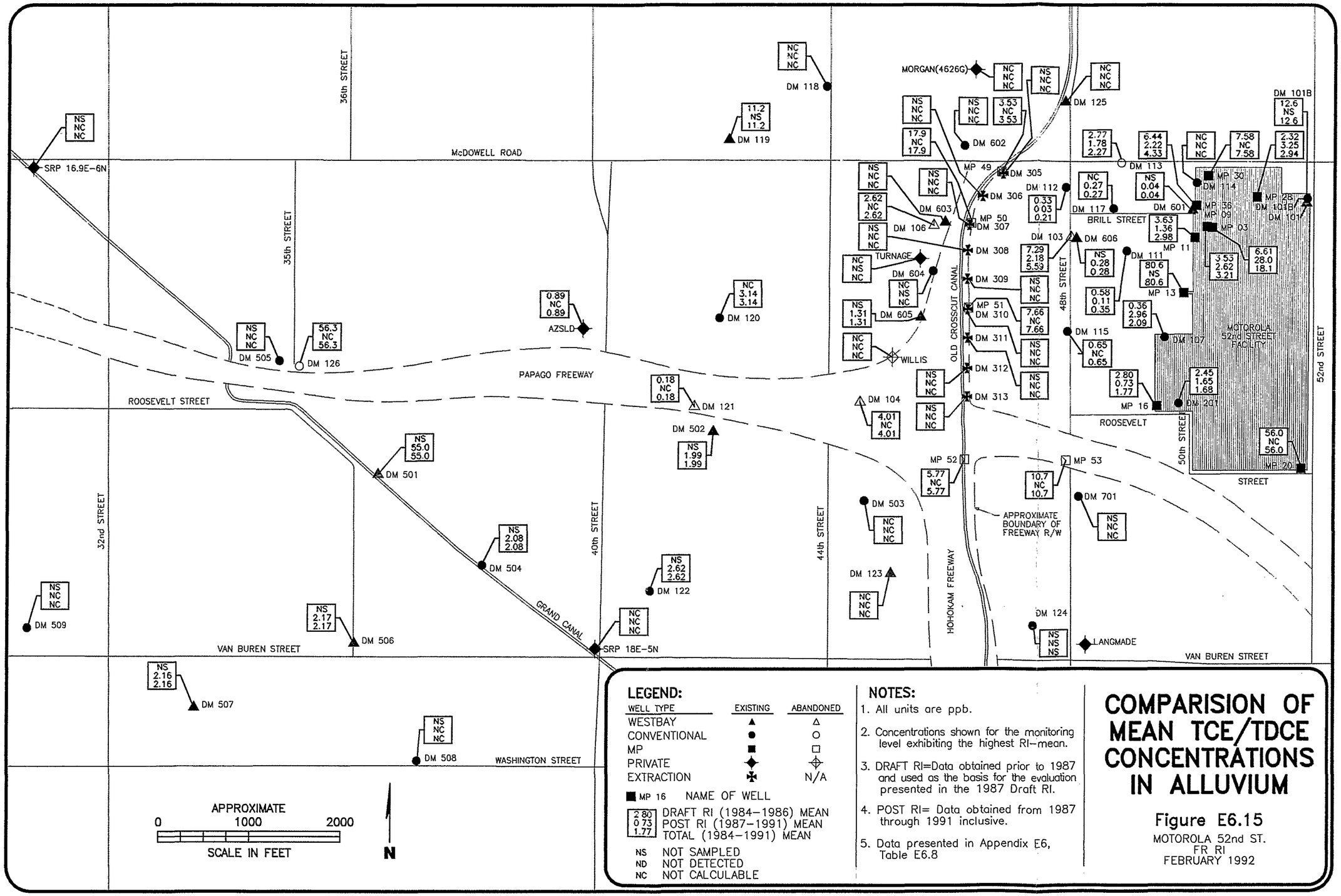
1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Data presented in Appendix E6, Table E6.7

COMPARISION OF MEAN TCE/TDCE CONCENTRATIONS IN ALLUVIUM

Figure E6.13

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992


36th STREET
McDOWELL ROAD
35th STREET
SRP 16.9E-6N
DM 118
NC NC NC
DM 119
MORGAN(4626G)
NC NC NC
DM 125
701 NC 701
DM 602
DM 113
43.6 NC 43.6
105 NC 105
114 NC 114
59.2 71.0 61.2
MP 49
DM 305
DM 112
NS 101 101
DM 603
DM 306
MP 50
DM 307
DM 106
46.8 0.39 35.2
TURNAGE
DM 604
DM 308
DM 309
DM 605
NS 1.00 1.00
WILLIS
MP 51
DM 310
DM 311
DM 312
DM 313
OLD CROSSCUT CANAL
DM 117
BRILL STREET
DM 601
NS 131 131
MP 30
DM 114
MP 36
MP 09
MP 03
MP 28
DM 101
0.53 NS 0.53
DM 103
DM 606
10.3 1.13 5.37
NS 0.76 0.76
48th STREET
DM 111
323 57.5 256
36.0 13.2 25.6
NC 13700 13700
MP 11
MP 13
362 NS 362
DM 115
DM 107
MOTOROLA 52nd STREET FACILITY
52nd STREET
39.0 2.74 16.3
DM 201
MP 16
ROOSEVELT
50th STREET
47.2 NC 47.2
MP 20
STREET
DM 505
DM 126
AZSLD
DM 120
PAPAGO FREEWAY
ROOSEVELT STREET
2.00 0.46 1.23
DM 121
DM 104
1.71 NC 1.71
DM 502
NS 0.34 0.34
130 NS 130
NS 5.27 5.27
DM 501
MP 52
MP 53
74.8 14.5 59.8
DM 503
DM 701
APPROXIMATE BOUNDARY OF FREEWAY R/W
32nd STREET
40th STREET
44th STREET
DM 504
GRAND CANAL
DM 123
NC NC NC
HOHOKAM FREEWAY
DM 122
DM 124
NC NS NC
LANGMADE
DM 509
NS 2.23 2.23
DM 506
SRP 18E-5N
VAN BUREN STREET
VAN BUREN STREET
NS 3.95 3.95
DM 507
DM 508
WASHINGTON STREET
APPROXIMATE
0 1000 2000
SCALE IN FEET
N
LEGEND:
WELL TYPE | EXISTING | ABANDONED
WESTBAY ▲ △
CONVENTIONAL ● ○
MP ■ □
PRIVATE ✦ ⌖
EXTRACTION ✠ N/A
MP 16 NAME OF WELL
39.0 2.74 16.3 DRAFT RI (1984–1986) MEAN
POST RI (1987–1991) MEAN
TOTAL (1984–1991) MEAN
NS NOT SAMPLED
ND NOT DETECTED
NC NOT CALCULABLE
A ALLUVIUM ONLY
NOTES:
1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Data presented in Appendix E6, Table E6.7
COMPARISION OF MEAN TCE/TDCE CONCENTRATIONS IN BEDROCK
Figure E6.14
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	✦	✧
EXTRACTION	✠	N/A

■ MP 16 NAME OF WELL

2.80	DRAFT RI (1984–1986) MEAN
0.73	POST RI (1987–1991) MEAN
1.77	TOTAL (1984–1991) MEAN

NS NOT SAMPLED
ND NOT DETECTED
NC NOT CALCULABLE

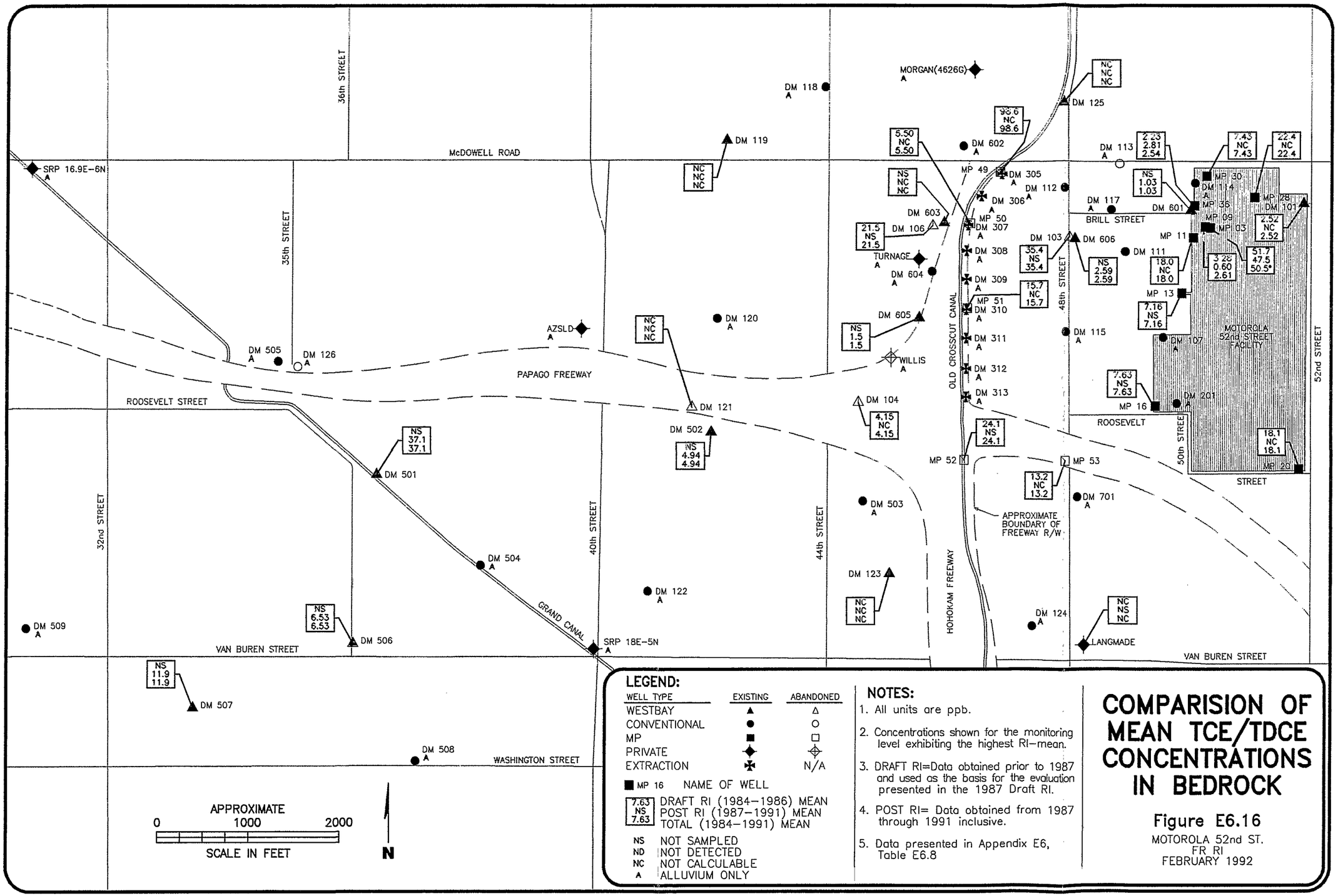
NOTES:

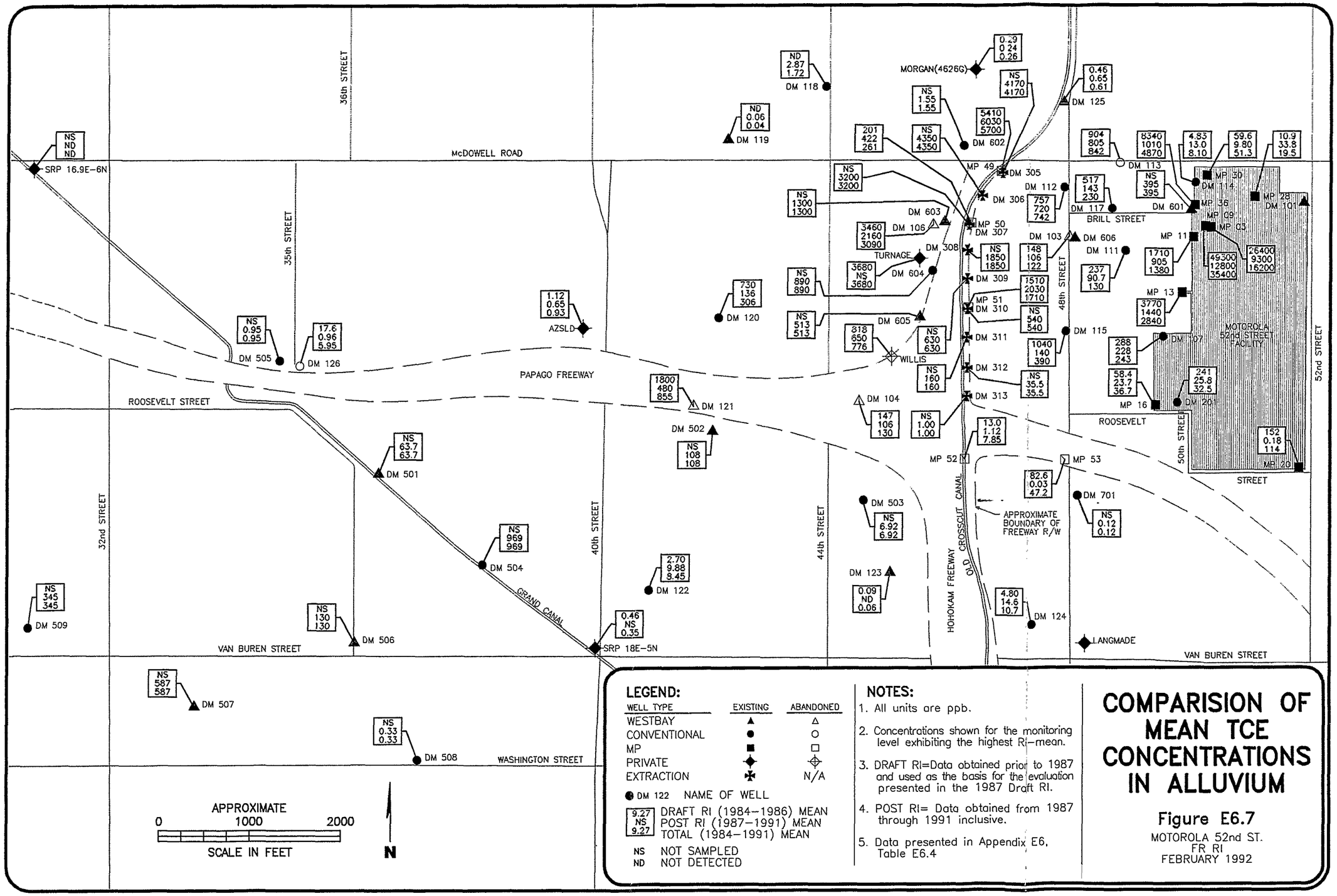
1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Data presented in Appendix E6, Table E6.8

COMPARISION OF MEAN TCE/TDCE CONCENTRATIONS IN ALLUVIUM

Figure E6.15

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992


36th STREET
McDOWELL ROAD
35th STREET
SRP 16.9E-6N
MORGAN(4626G)
DM 118
DM 119
DM 125
DM 602
DM 113
DM 305
DM 112
MP 49
DM 306
DM 603
DM 106
MP 50
DM 307
TURNAGE
DM 604
DM 308
DM 309
MP 51
DM 310
DM 605
WILLIS
DM 311
DM 312
DM 313
DM 104
OLD CROSSCUT CANAL
48th STREET
BRILL STREET
DM 117
DM 601
DM 103
DM 606
DM 111
DM 115
MP 30
DM 114
MP 38
MP 09
MP 03
MP 28
DM 101
MP 11
MP 13
DM 107
MP 16
DM 201
MP 20
MOTOROLA 52nd STREET FACILITY
52nd STREET
ROOSEVELT
50th STREET
STREET
MP 52
MP 53
DM 701
APPROXIMATE BOUNDARY OF FREEWAY R/W
DM 503
DM 123
DM 124
HOHOKAM FREEWAY
LANGMADE
VAN BUREN STREET
AZSLD
DM 120
PAPAGO FREEWAY
DM 505
DM 126
ROOSEVELT STREET
DM 121
DM 502
DM 501
DM 504
GRAND CANAL
DM 122
SRP 18E-5N
32nd STREET
40th STREET
44th STREET
DM 509
DM 506
DM 507
DM 508
WASHINGTON STREET
APPROXIMATE
0 1000 2000
SCALE IN FEET
N
LEGEND:
WELL TYPE | EXISTING | ABANDONED
WESTBAY | ▲ | △
CONVENTIONAL | ● | ○
MP | ■ | □
PRIVATE | ◆ | ◇
EXTRACTION | ✠ | N/A
■ MP 16 NAME OF WELL
7.63 NS 7.63 DRAFT RI (1984–1986) MEAN
POST RI (1987–1991) MEAN
TOTAL (1984–1991) MEAN
NS NOT SAMPLED
ND NOT DETECTED
NC NOT CALCULABLE
A ALLUVIUM ONLY
NOTES:
1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Data presented in Appendix E6, Table E6.8
COMPARISION OF MEAN TCE/TDCE CONCENTRATIONS IN BEDROCK
Figure E6.16
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	◆	◇
EXTRACTION	✠	N/A

● DM 122 NAME OF WELL

9.27 / NS / 9.27 — DRAFT RI (1984–1986) MEAN; POST RI (1987–1991) MEAN; TOTAL (1984–1991) MEAN

NS NOT SAMPLED

ND NOT DETECTED

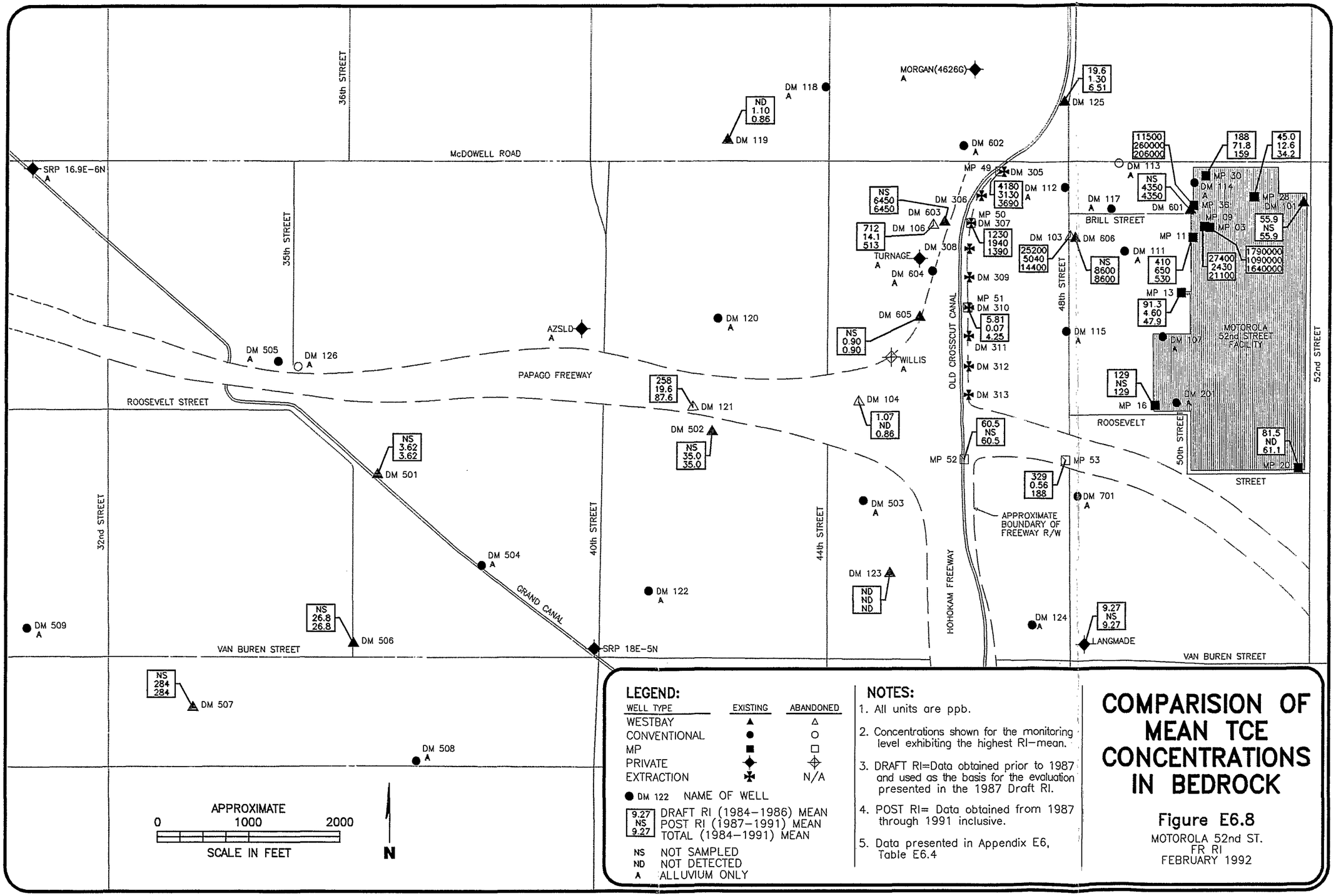
NOTES:

1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Data presented in Appendix E6, Table E6.4

COMPARISION OF MEAN TCE CONCENTRATIONS IN ALLUVIUM

Figure E6.7

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	◆	◇
EXTRACTION	✠	N/A

● DM 122 NAME OF WELL

9.27 / NS / 9.27 — DRAFT RI (1984–1986) MEAN; POST RI (1987–1991) MEAN; TOTAL (1984–1991) MEAN

NS NOT SAMPLED
ND NOT DETECTED
A ALLUVIUM ONLY

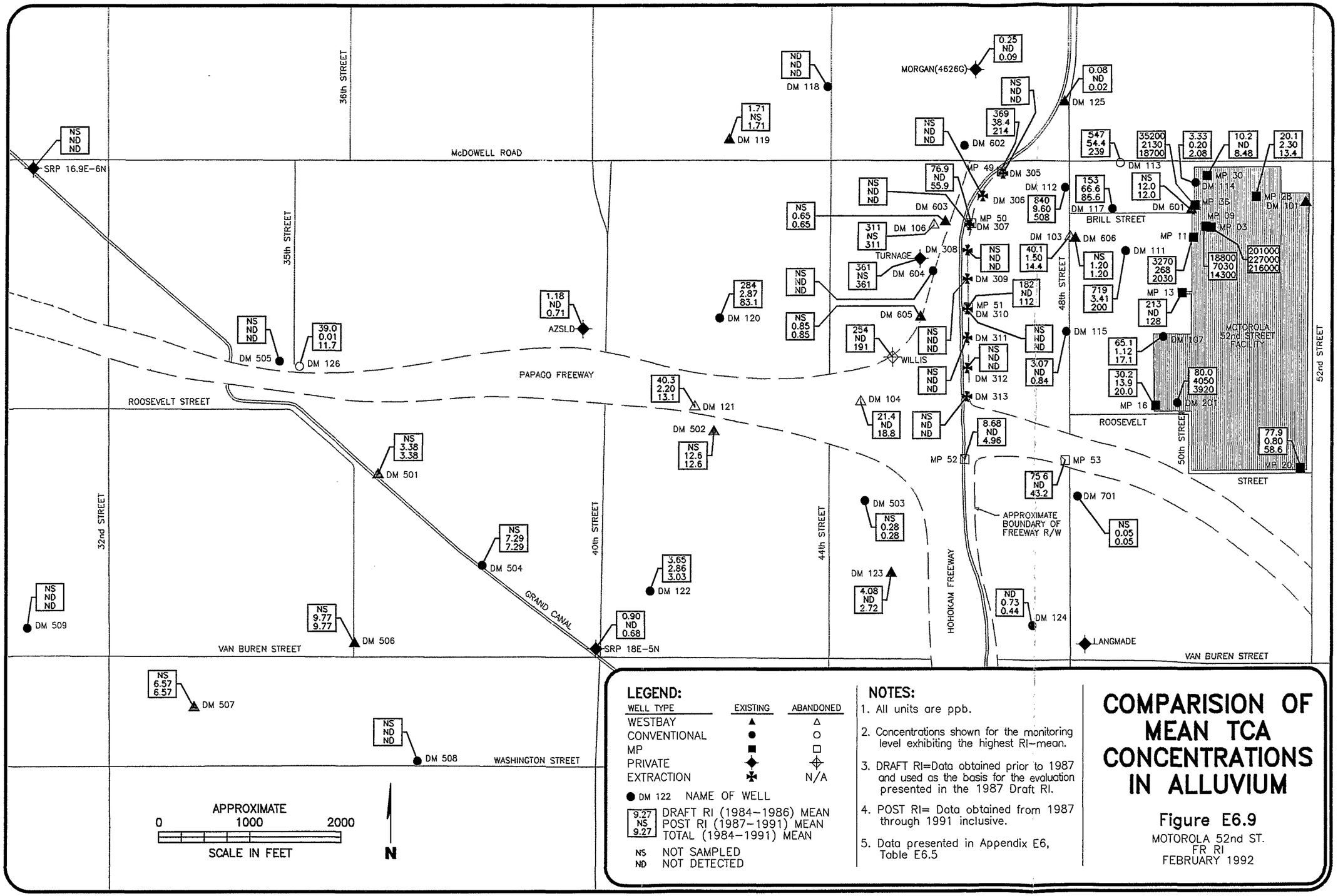
NOTES:

1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Data presented in Appendix E6, Table E6.4

COMPARISION OF MEAN TCE CONCENTRATIONS IN BEDROCK

Figure E6.8

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	◆	◇
EXTRACTION	✠	N/A

● DM 122 NAME OF WELL

9.27 / NS / 9.27 — DRAFT RI (1984–1986) MEAN; POST RI (1987–1991) MEAN; TOTAL (1984–1991) MEAN

NS NOT SAMPLED

ND NOT DETECTED

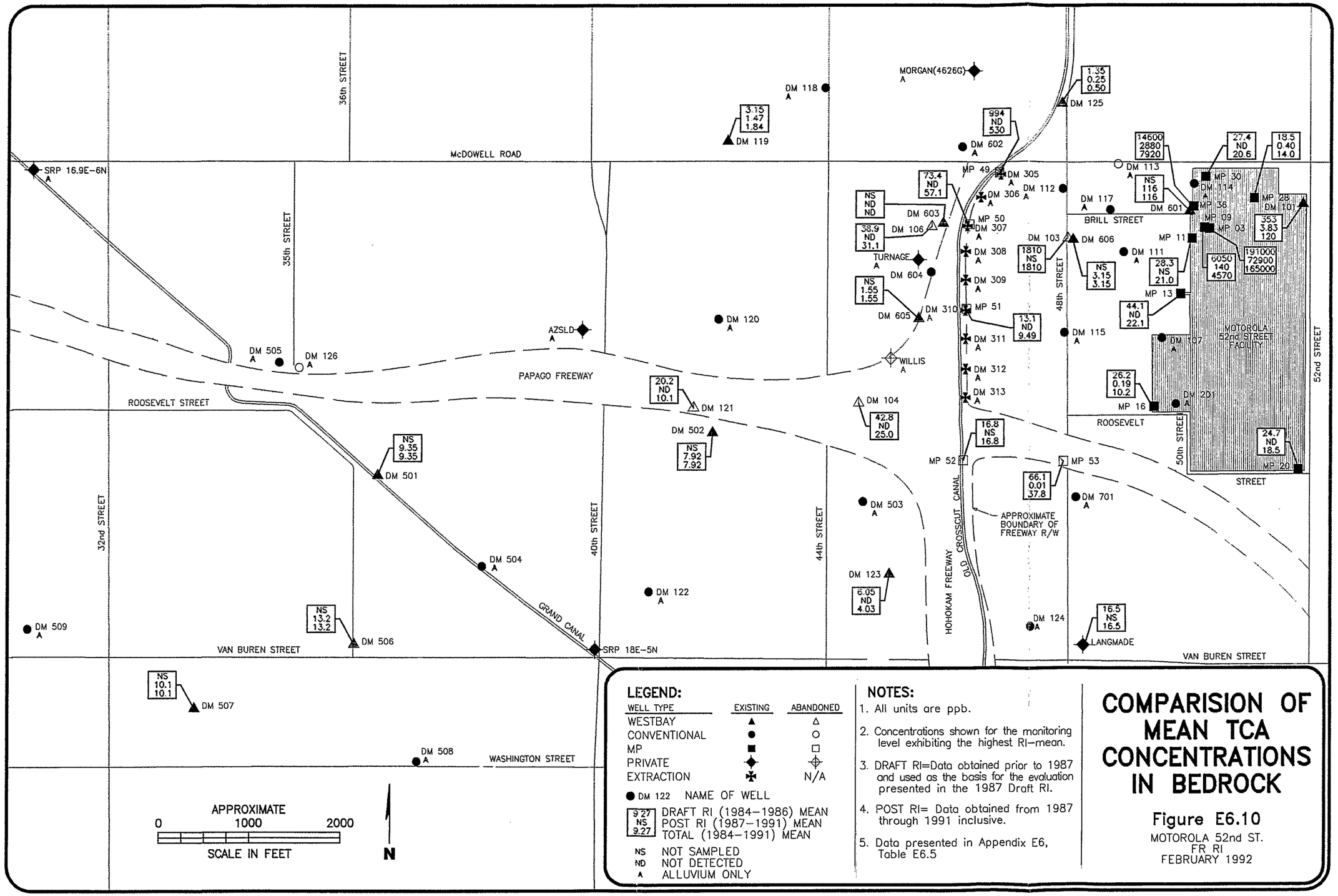
NOTES:

1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Data presented in Appendix E6, Table E6.5

COMPARISION OF MEAN TCA CONCENTRATIONS IN ALLUVIUM

Figure E6.9

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	◆	◇
EXTRACTION	✠	N/A

● DM 122 NAME OF WELL

9.27 / NS / 9.27 — DRAFT RI (1984–1986) MEAN / POST RI (1987–1991) MEAN / TOTAL (1984–1991) MEAN

NS NOT SAMPLED
ND NOT DETECTED
A ALLUVIUM ONLY

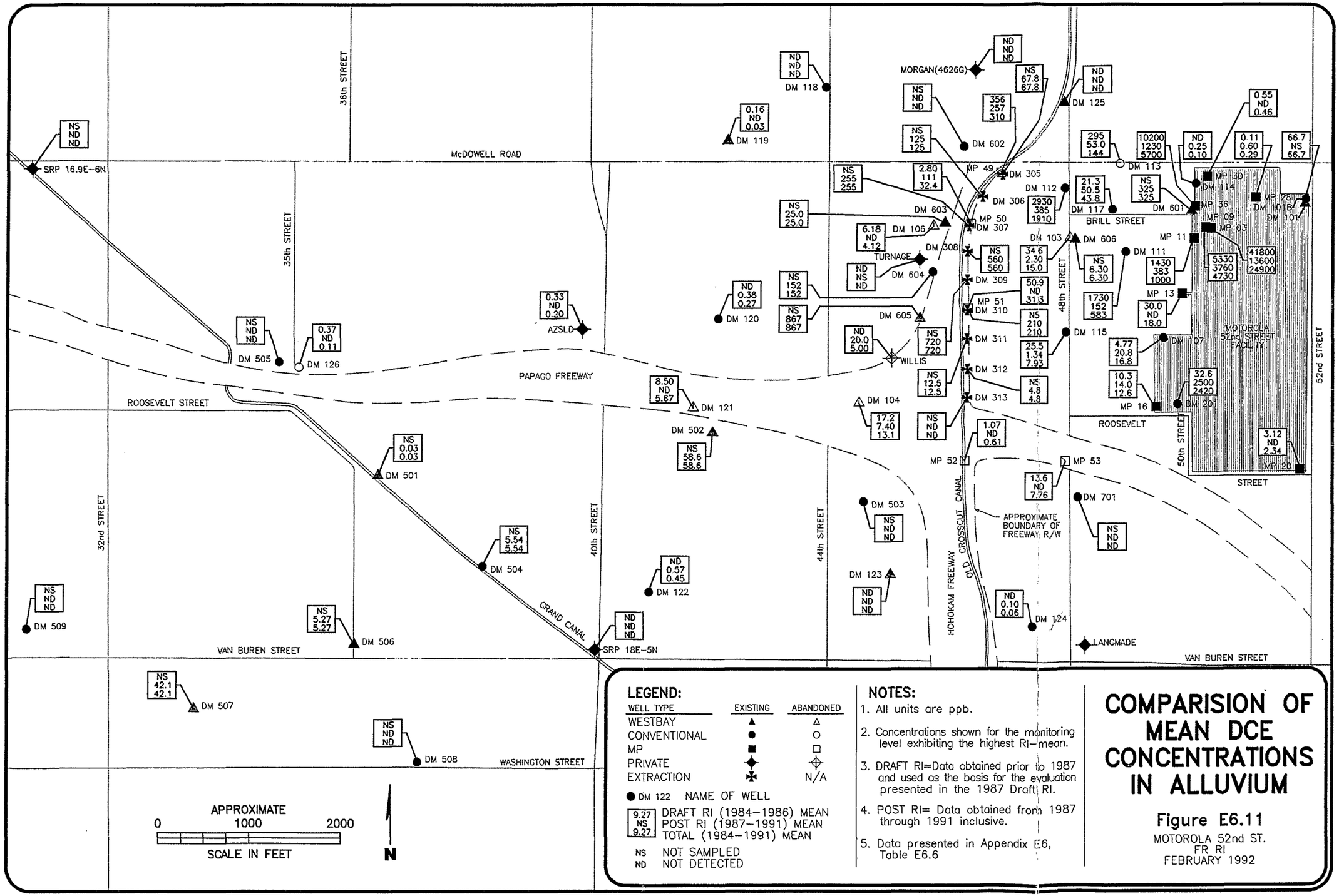
NOTES:

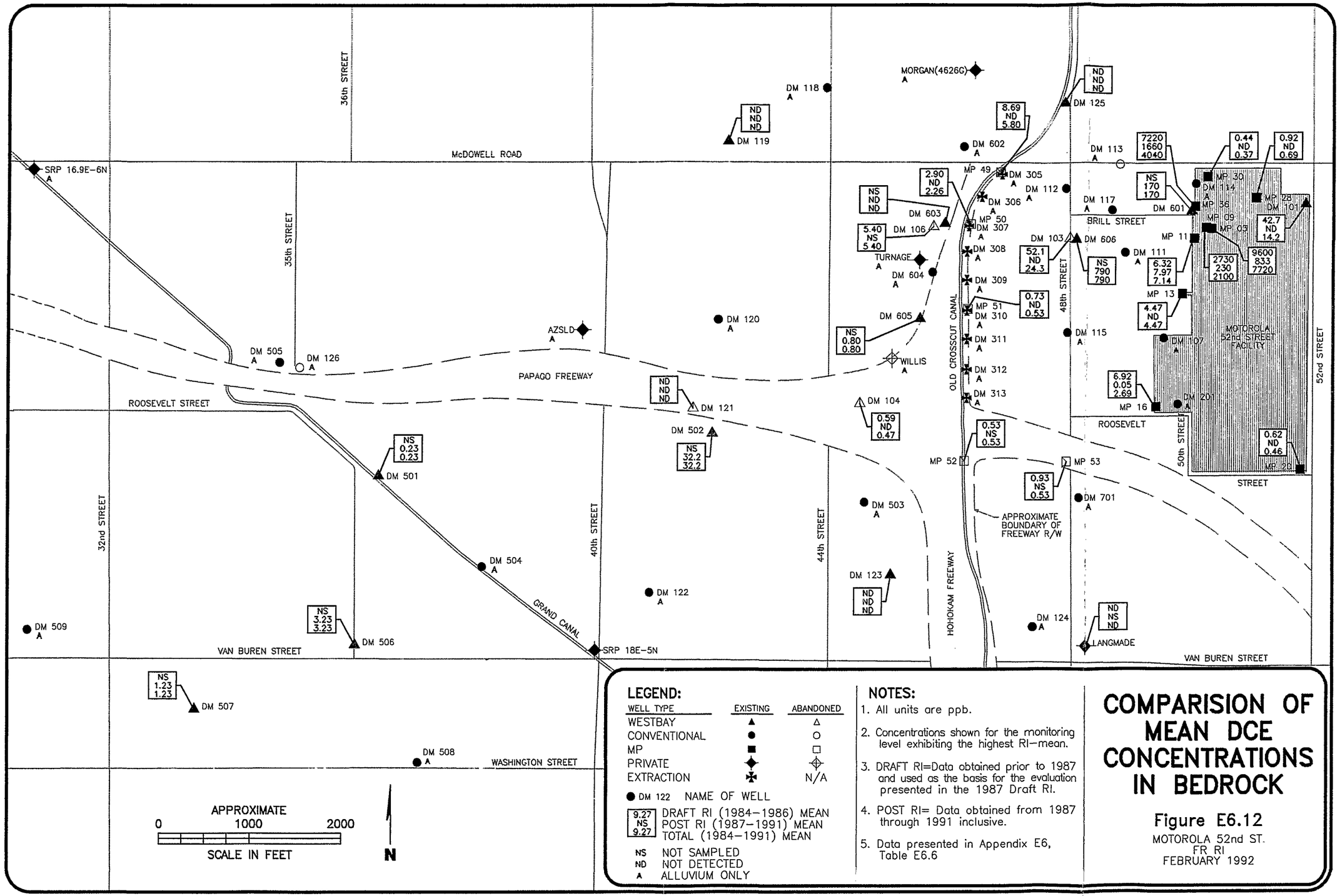
1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Data presented in Appendix E6, Table E6.5

COMPARISION OF MEAN TCA CONCENTRATIONS IN BEDROCK

Figure E6.10

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992


McDOWELL ROAD
36th STREET
35th STREET
32nd STREET
40th STREET
44th STREET
48th STREET
50th STREET
52nd STREET
ROOSEVELT STREET
ROOSEVELT
BRILL STREET
VAN BUREN STREET
WASHINGTON STREET
PAPAGO FREEWAY
GRAND CANAL
HOHOKAM FREEWAY
OLD CROSSCUT CANAL
MOTOROLA 52nd STREET FACILITY
APPROXIMATE BOUNDARY OF FREEWAY R/W
SRP 16.9E-6N
SRP 18E-5N
AZSLD
TURNAGE
WILLIS
MORGAN(4626G)
LANGMADE
MP 49
MP 50
MP 51
MP 52
MP 53
MP 30
MP 28
MP 36
MP 09
MP 03
MP 11
MP 13
MP 16
MP 20
DM 118
DM 119
DM 125
DM 602
DM 305
DM 306
DM 307
DM 603
DM 106
DM 308
DM 604
DM 605
DM 309
DM 310
DM 311
DM 312
DM 313
DM 104
DM 112
DM 103
DM 606
DM 111
DM 115
DM 107
DM 201
DM 113
DM 114
DM 117
DM 601
DM 101B
DM 101
DM 120
DM 505
DM 126
DM 501
DM 502
DM 121
DM 504
DM 122
DM 503
DM 123
DM 124
DM 701
DM 509
DM 506
DM 507
DM 508
NS ND ND
NS 25.0 25.0
NS 255 255
NS 125 125
NS 152 152
NS 867 867
ND 0.38 0.27
0.16 ND 0.03
0.33 ND 0.20
0.37 ND 0.11
NS 0.03 0.03
NS 5.54 5.54
NS 5.27 5.27
8.50 ND 5.67
NS 58.6 58.6
ND 0.57 0.45
ND 20.0 5.00
NS 720 720
NS 12.5 12.5
17.2 7.40 13.1
6.18 ND 4.12
2.80 111 32.4
NS 560 560
ND NS ND
NS 67.8 67.8
356 257 310
34.6 2.30 15.0
50.9 ND 31.3
NS 210 210
25.5 1.34 7.93
NS 4.8 4.8
1.07 ND 0.61
13.6 ND 7.76
ND 0.10 0.06
NS 42.1 42.1
295 53.0 144
21.3 50.5 43.8
2930 385 1910
NS 325 325
6.30 6.30
1730 152 583
1430 383 1000
30.0 ND 18.0
4.77 20.8 16.8
10.3 14.0 12.6
10200 1230 5700
ND 0.25 0.10
5330 3760 4730
32.6 2500 2420
0.55 ND 0.46
0.11 0.60 0.29
41800 13600 24900
66.7 NS 66.7
3.12 ND 2.34
APPROXIMATE
0 1000 2000
SCALE IN FEET
N
LEGEND:
WELL TYPE
EXISTING
ABANDONED
WESTBAY
CONVENTIONAL
MP
PRIVATE
EXTRACTION
N/A
DM 122 NAME OF WELL
9.27 NS 9.27
DRAFT RI (1984–1986) MEAN
POST RI (1987–1991) MEAN
TOTAL (1984–1991) MEAN
NS NOT SAMPLED
ND NOT DETECTED
NOTES:
1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Data presented in Appendix E6, Table E6.6
COMPARISION OF MEAN DCE CONCENTRATIONS IN ALLUVIUM
Figure E6.11
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	✦	✧
EXTRACTION	✠	N/A

● DM 122 NAME OF WELL

9.27 / NS / 9.27 — DRAFT RI (1984–1986) MEAN; POST RI (1987–1991) MEAN; TOTAL (1984–1991) MEAN

NS NOT SAMPLED
ND NOT DETECTED
A ALLUVIUM ONLY

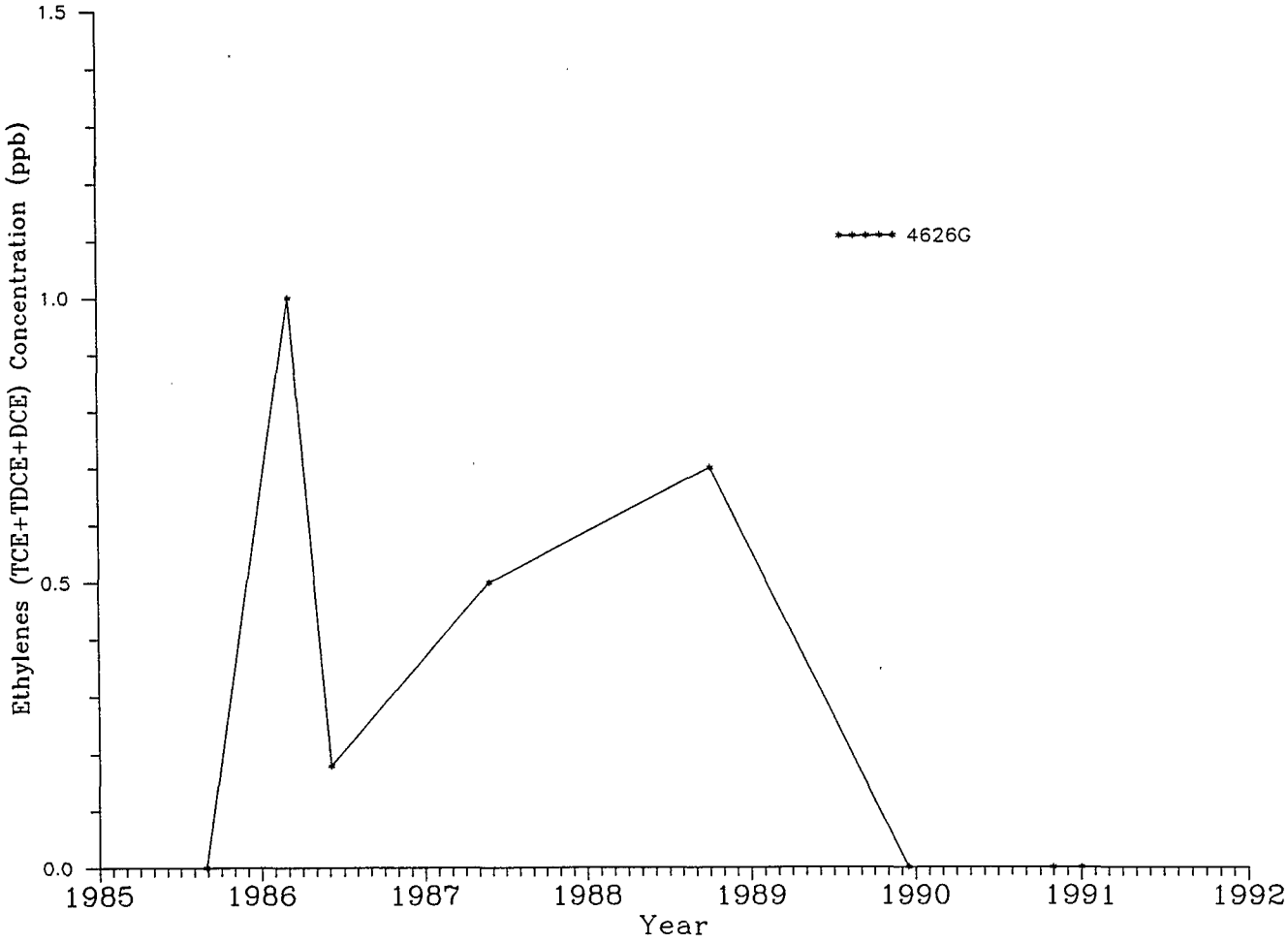
NOTES:

1. All units are ppb.
2. Concentrations shown for the monitoring level exhibiting the highest RI–mean.
3. DRAFT RI=Data obtained prior to 1987 and used as the basis for the evaluation presented in the 1987 Draft RI.
4. POST RI= Data obtained from 1987 through 1991 inclusive.
5. Data presented in Appendix E6, Table E6.6

COMPARISION OF MEAN DCE CONCENTRATIONS IN BEDROCK

Figure E6.12

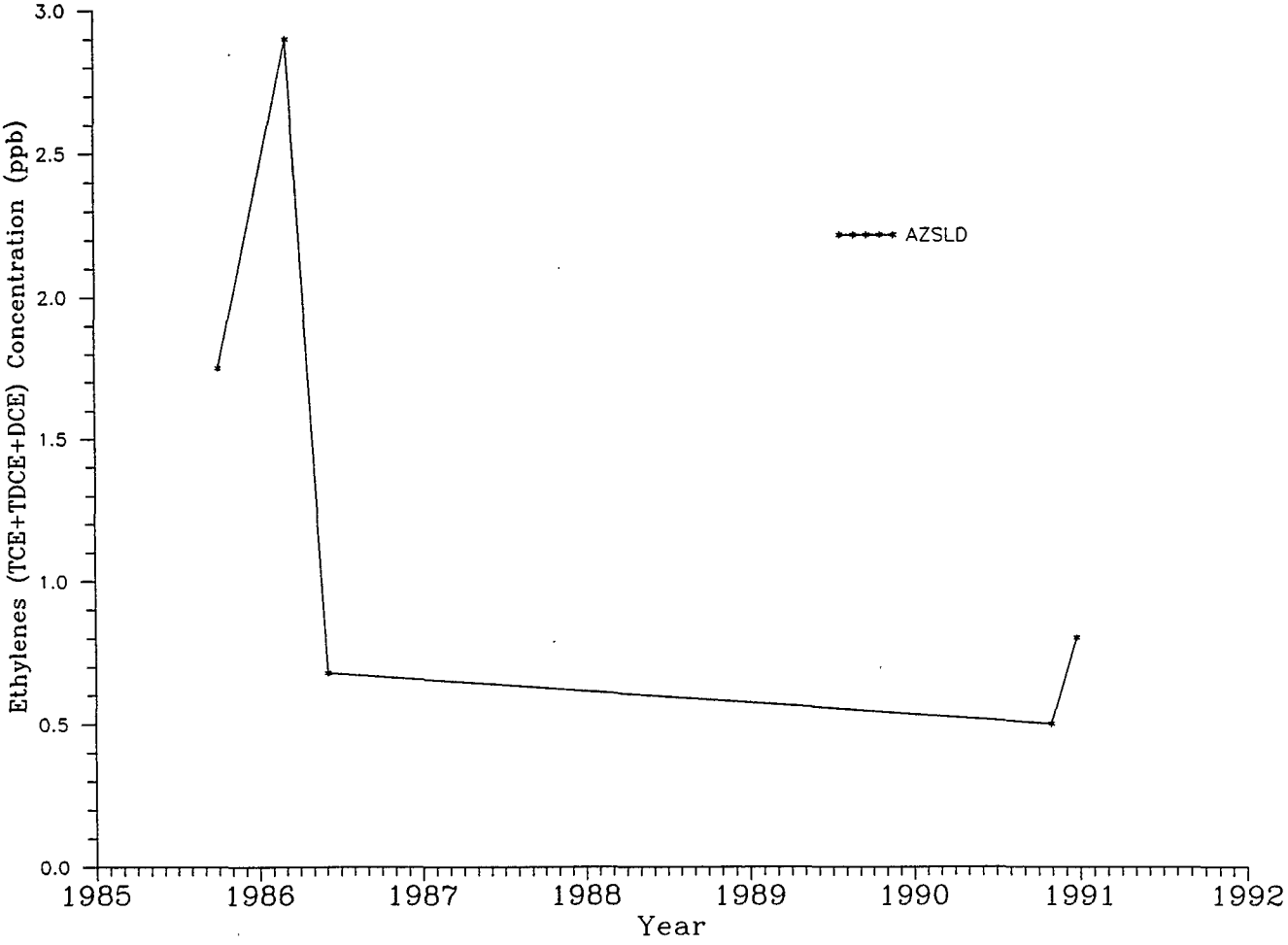
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL 4626G

Figure E6.17

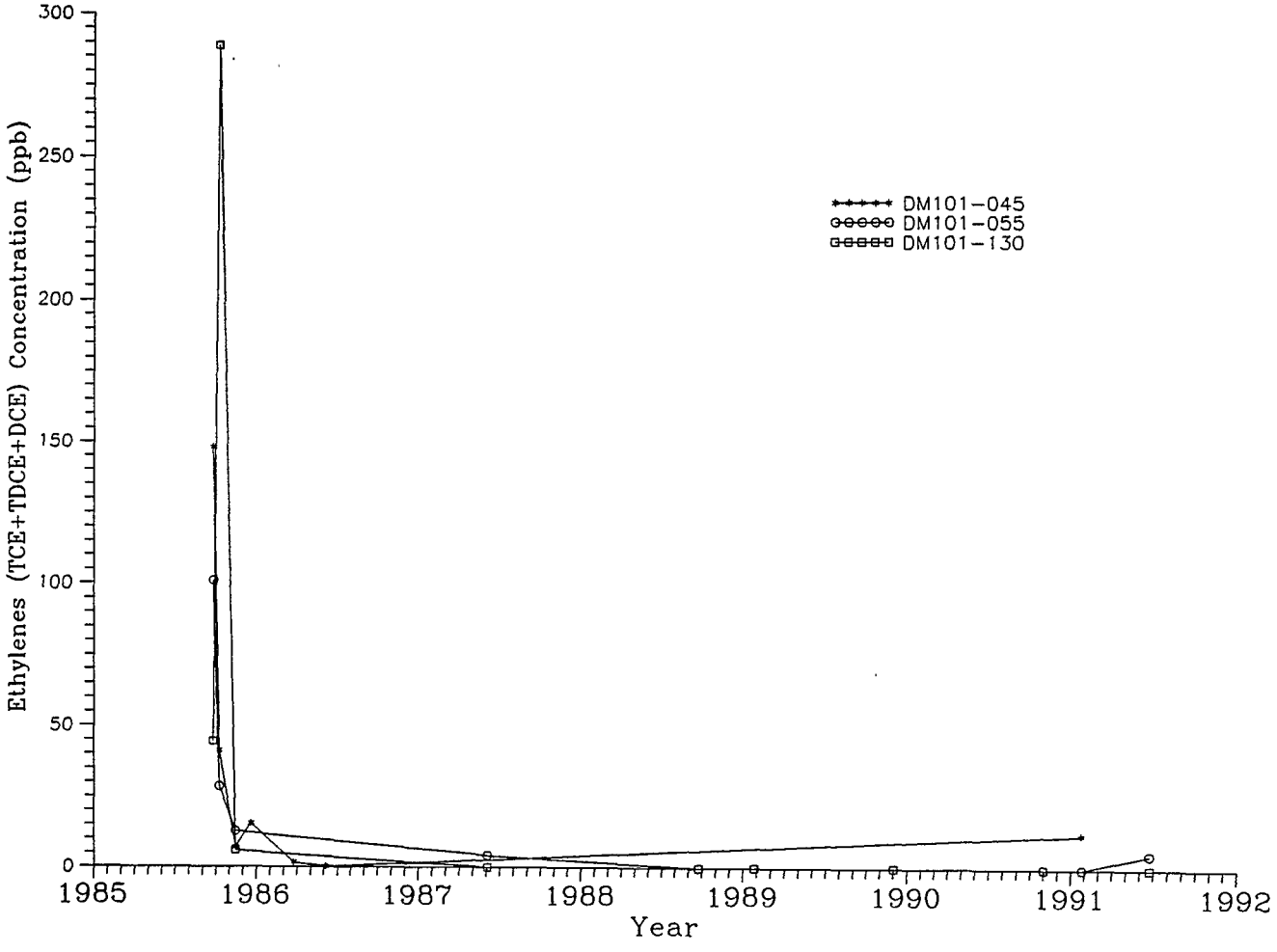
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL AZSLD

Figure E6.18

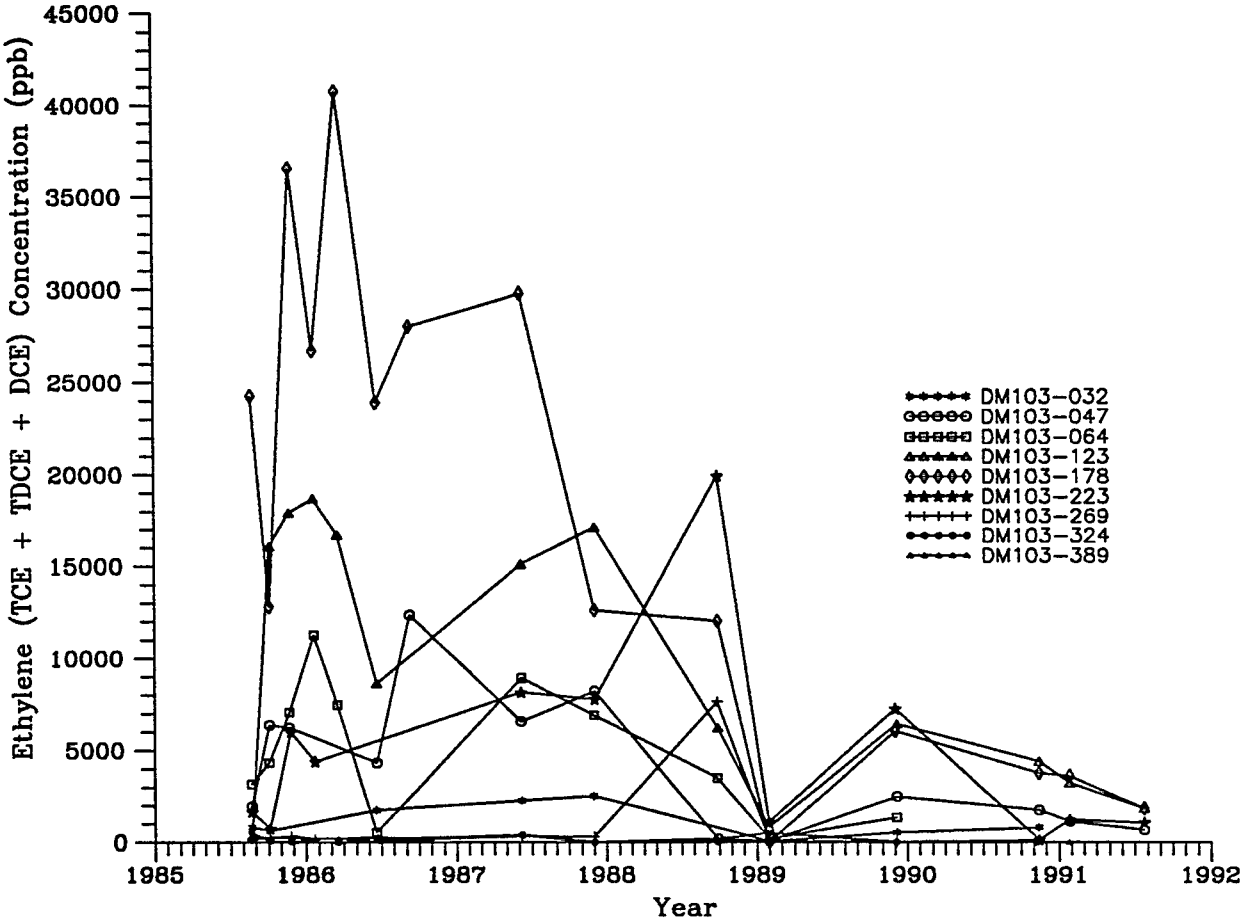
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 101

Figure E6.19

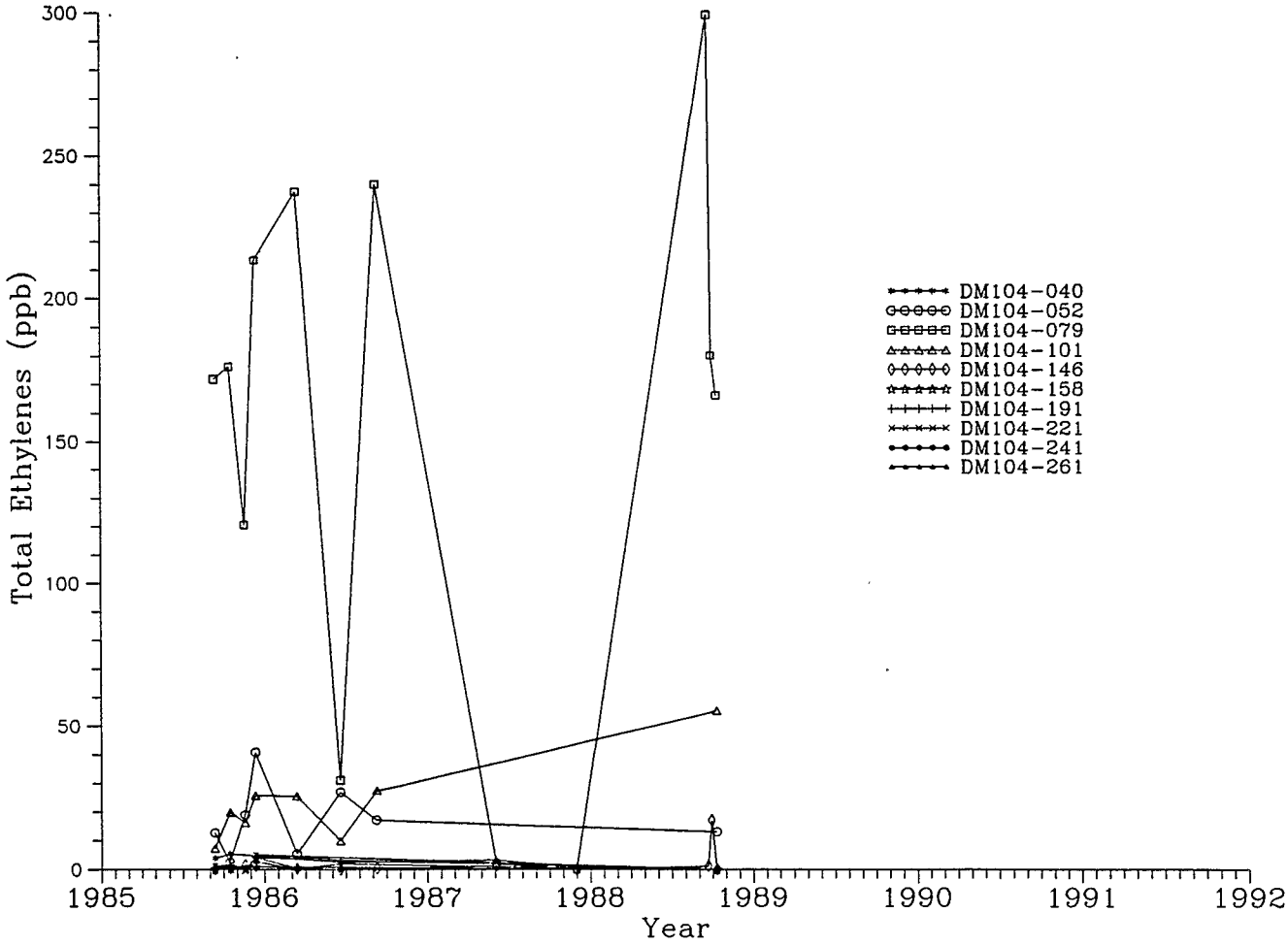
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 103

Figure E6.20

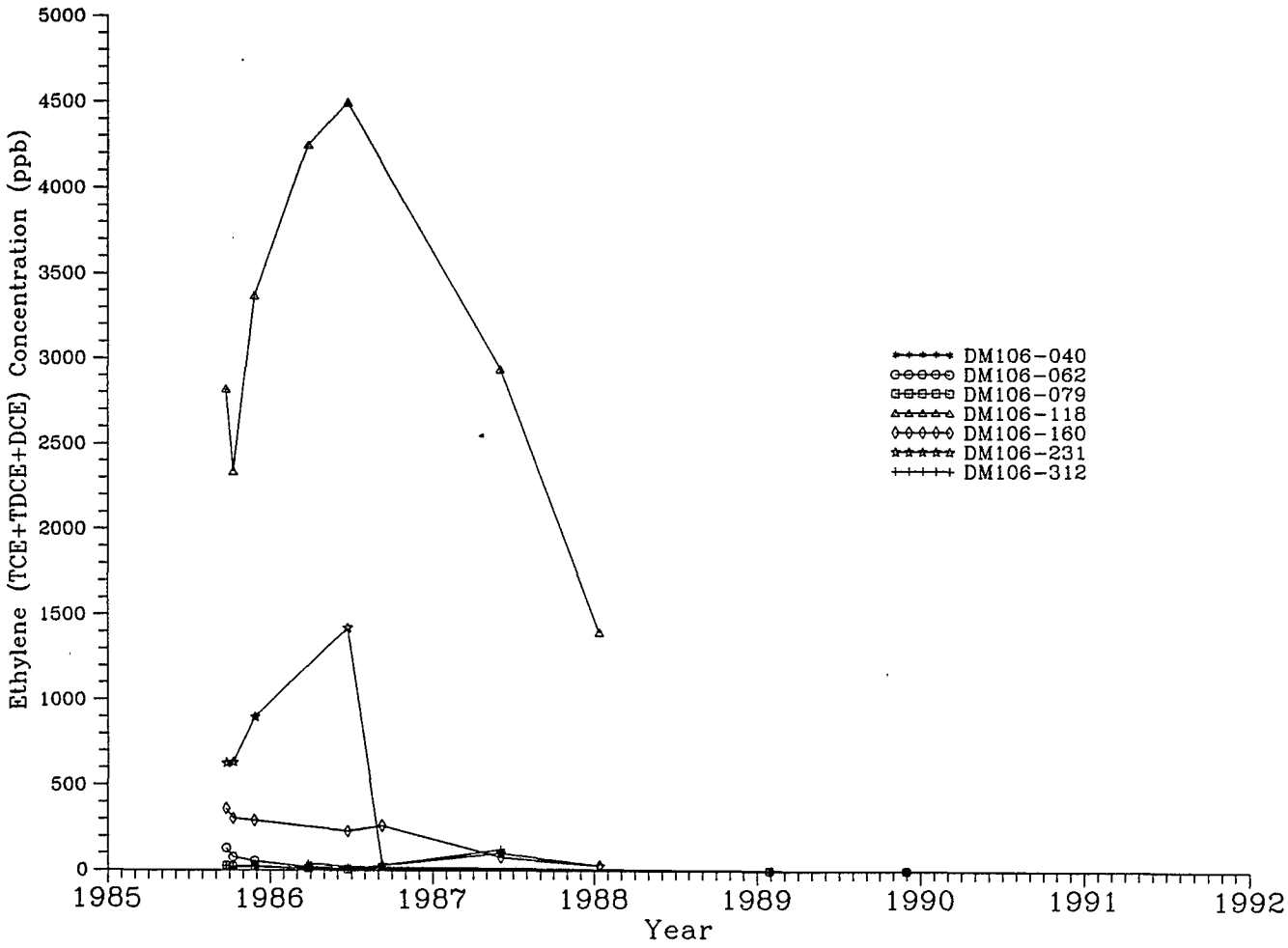
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 104

Figure E6.21

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 106

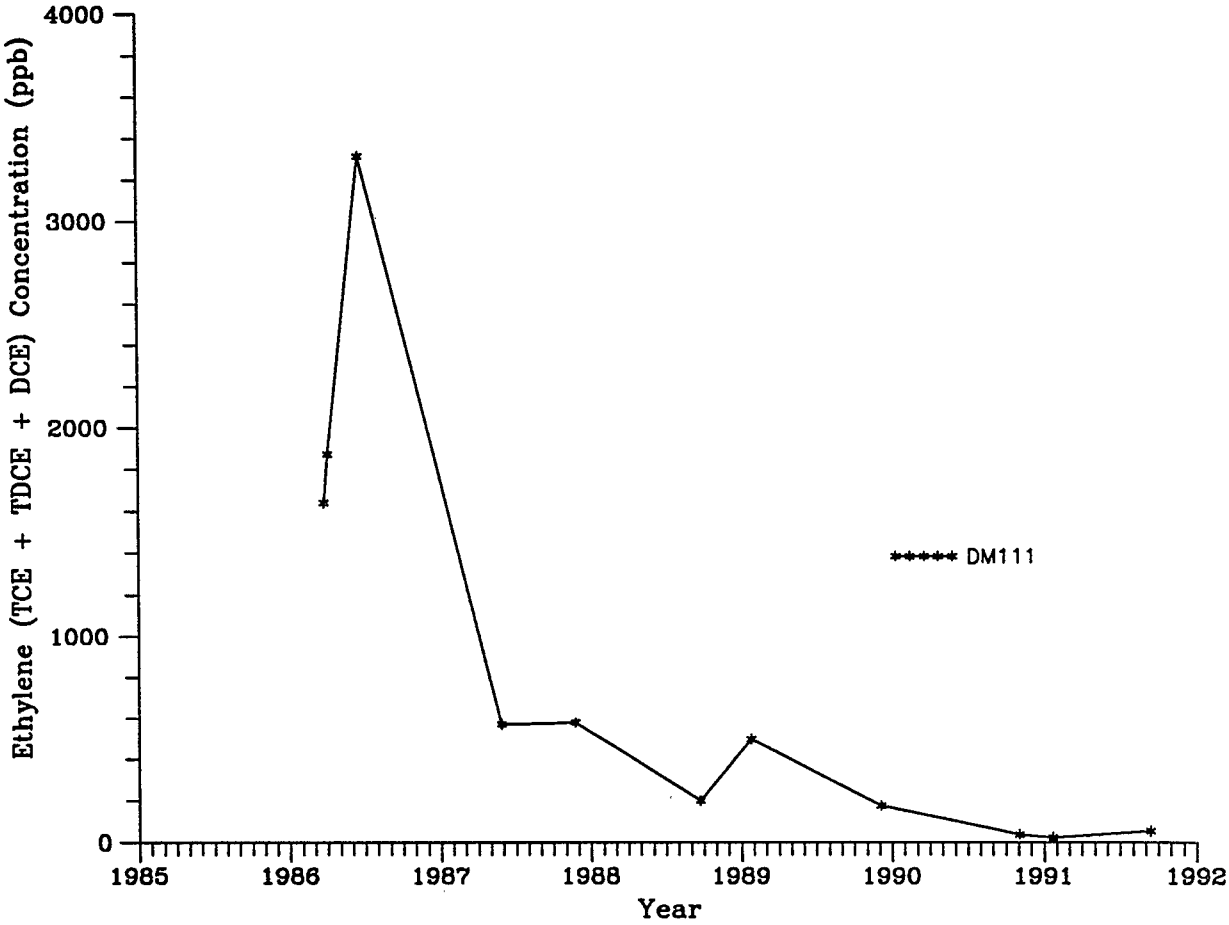
Figure E6.22

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 107

Figure E6.23

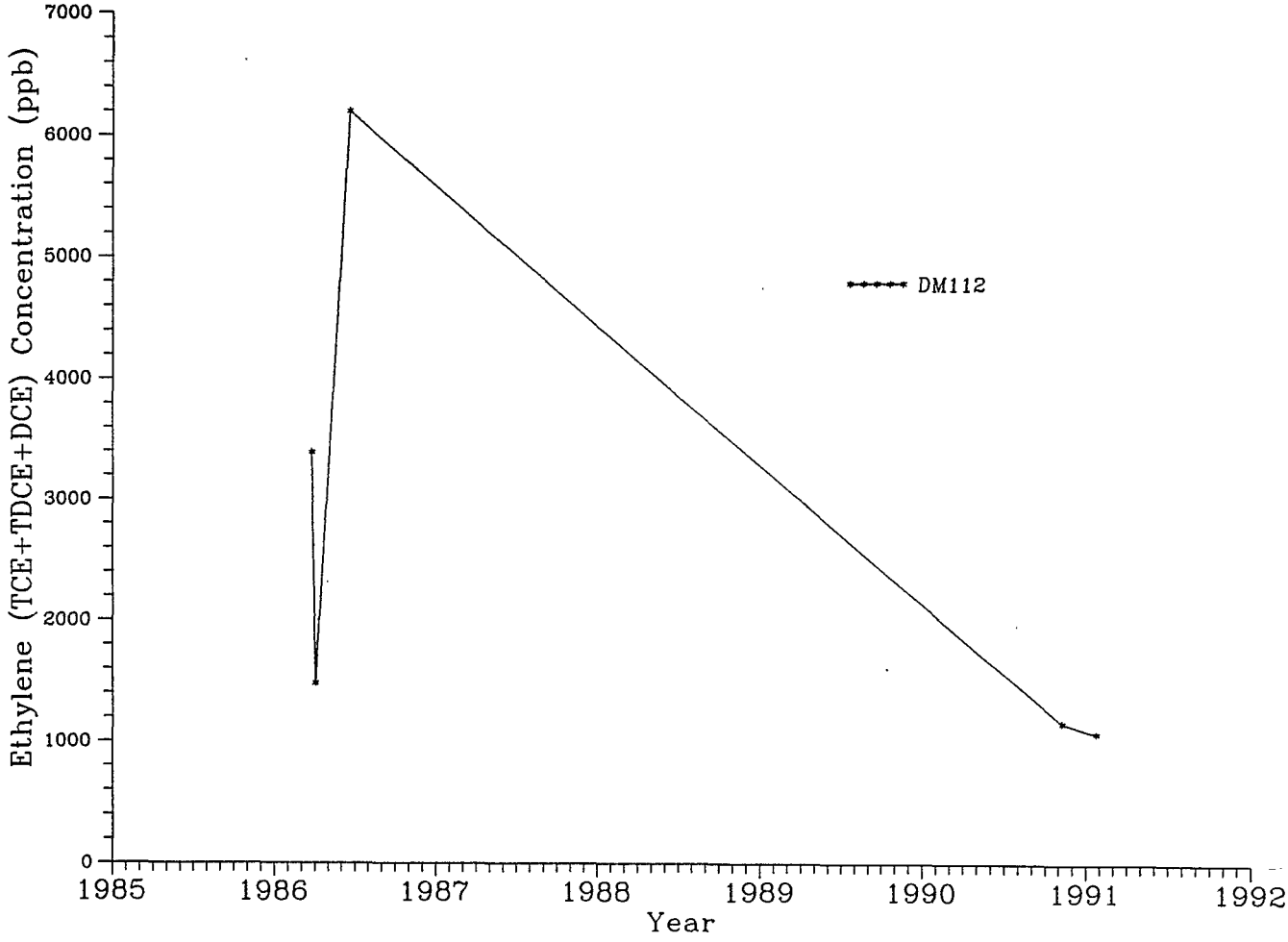
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 111

Figure E6.24

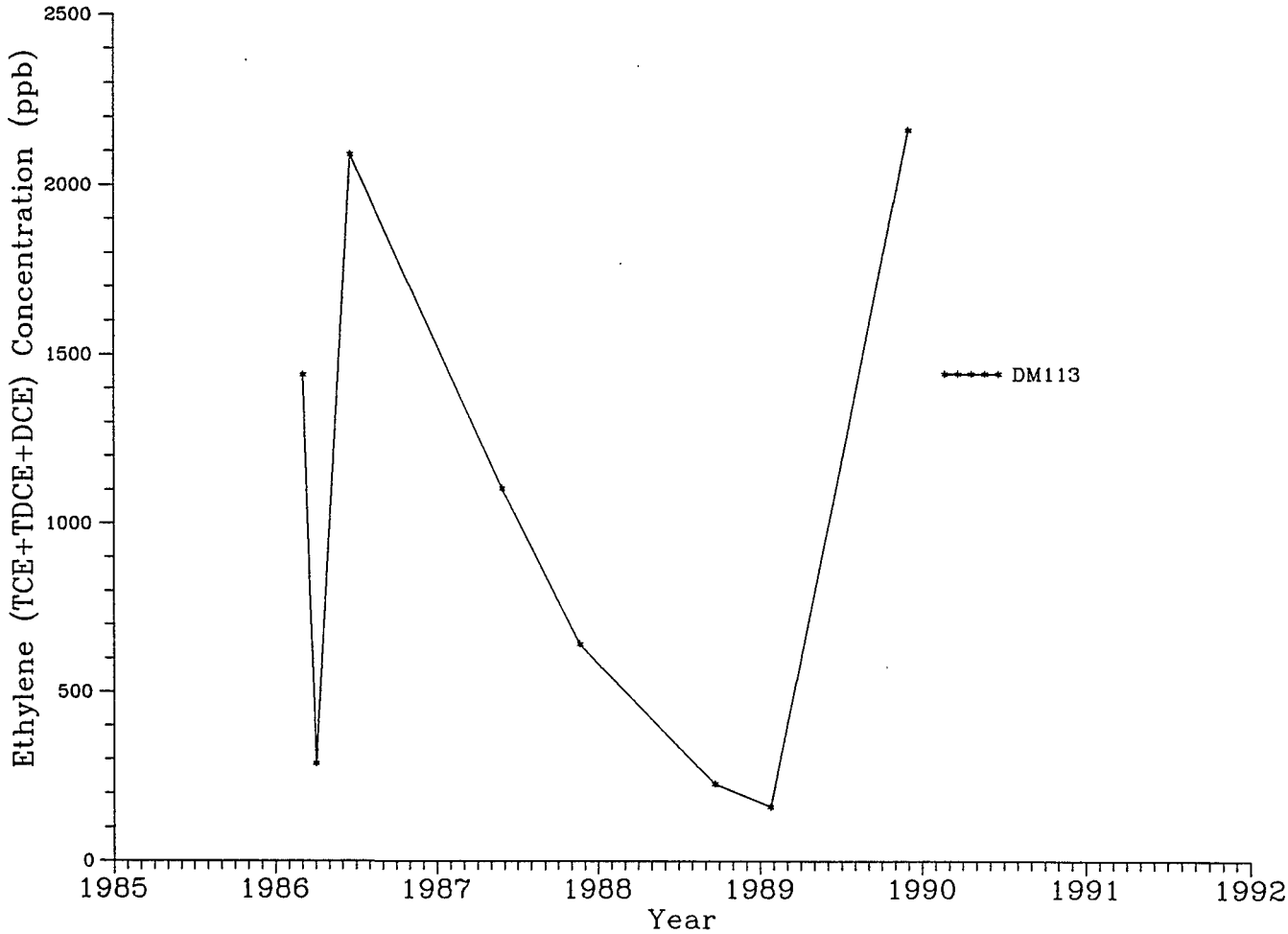
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 112

Figure E6.25

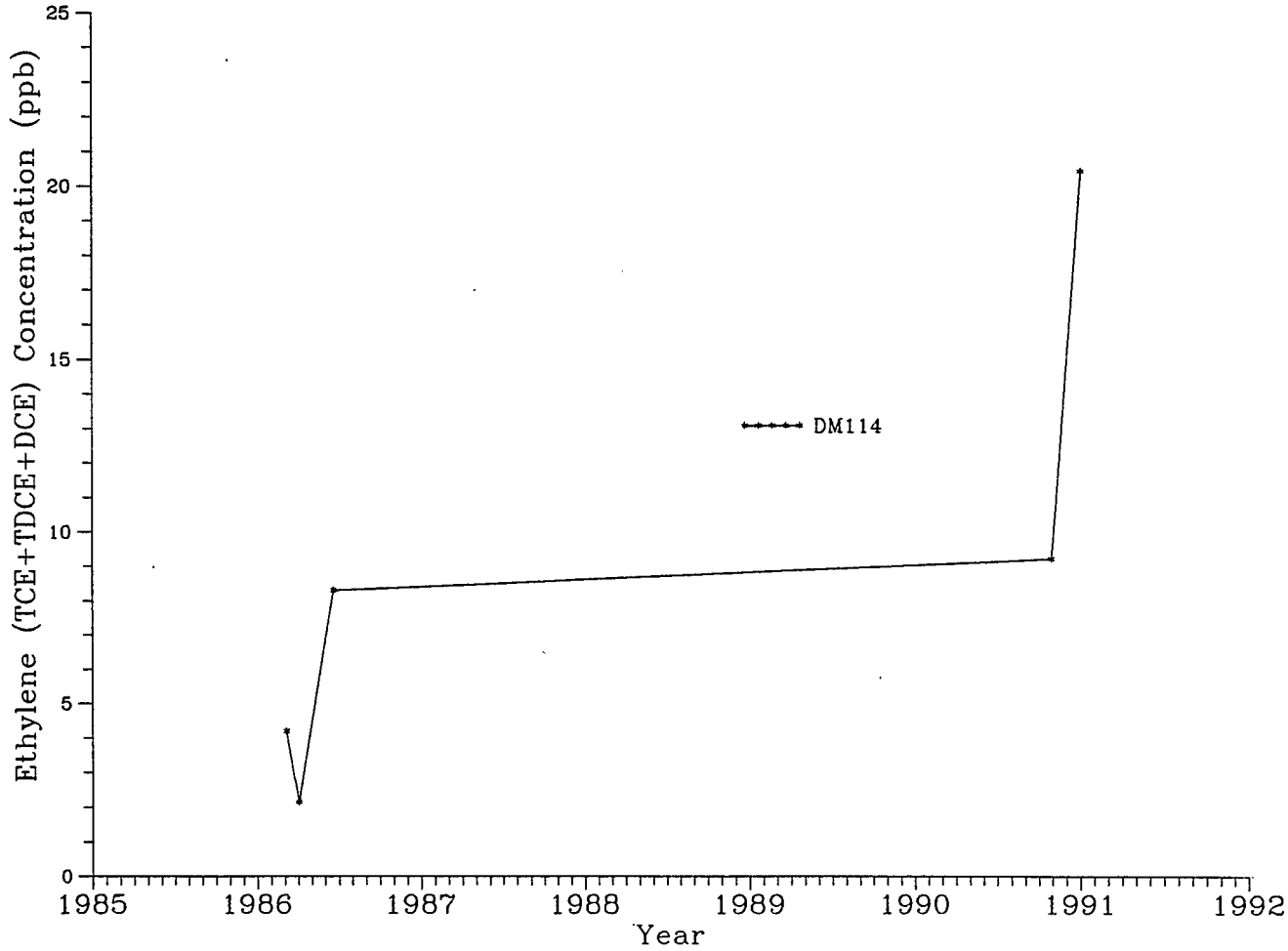
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 113

Figure E6.26

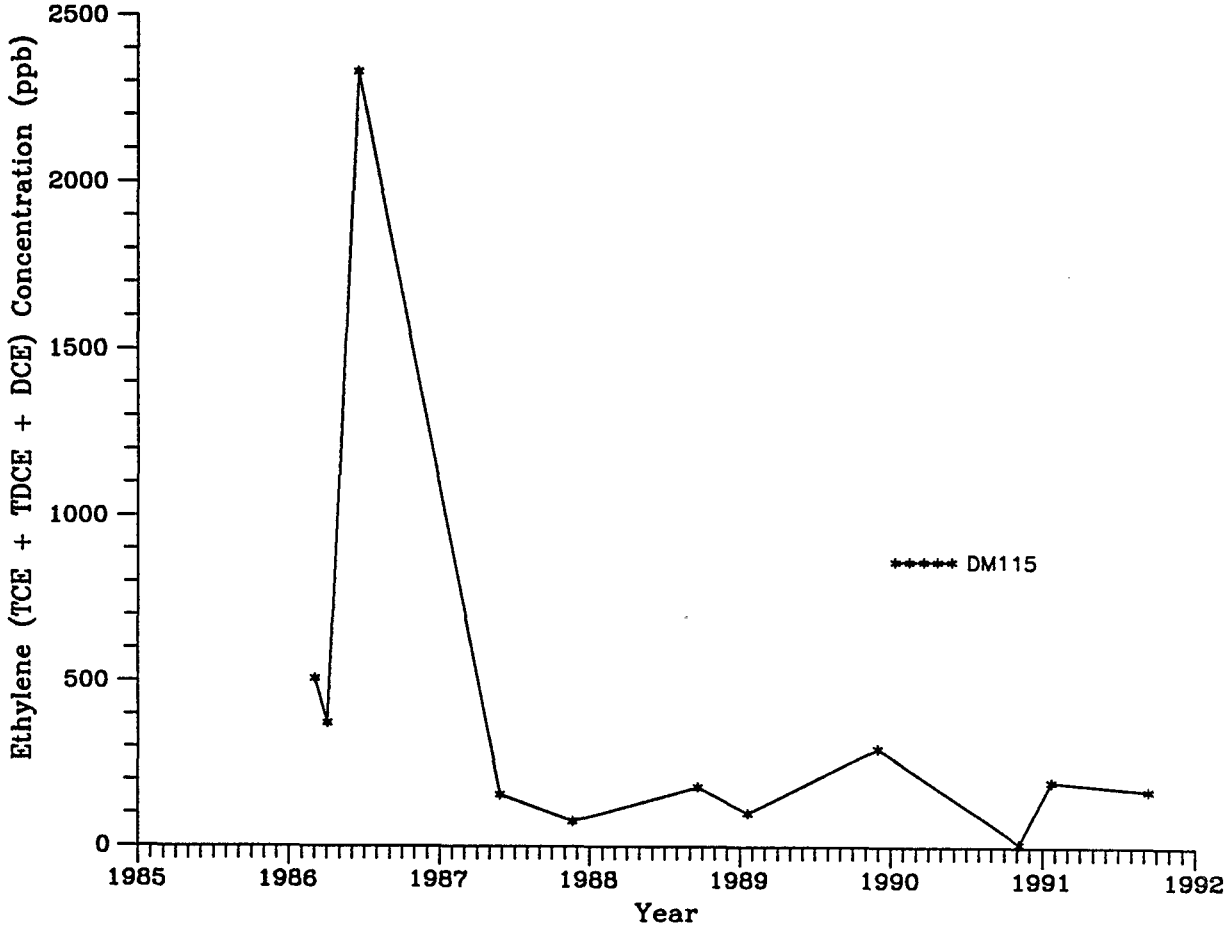
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 114

Figure E6.27

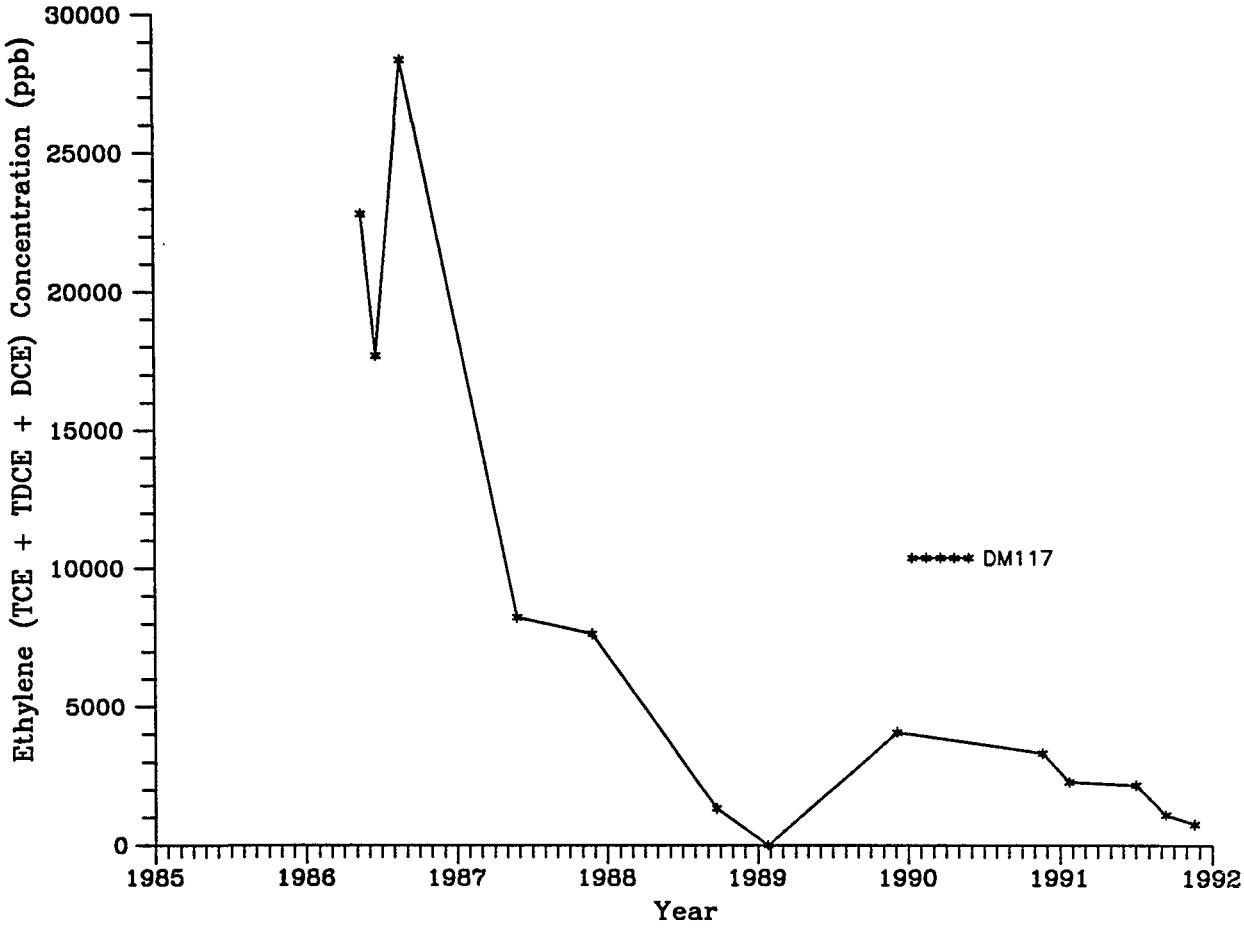
MOTOROLA 52nd St.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 115

Figure E6.28

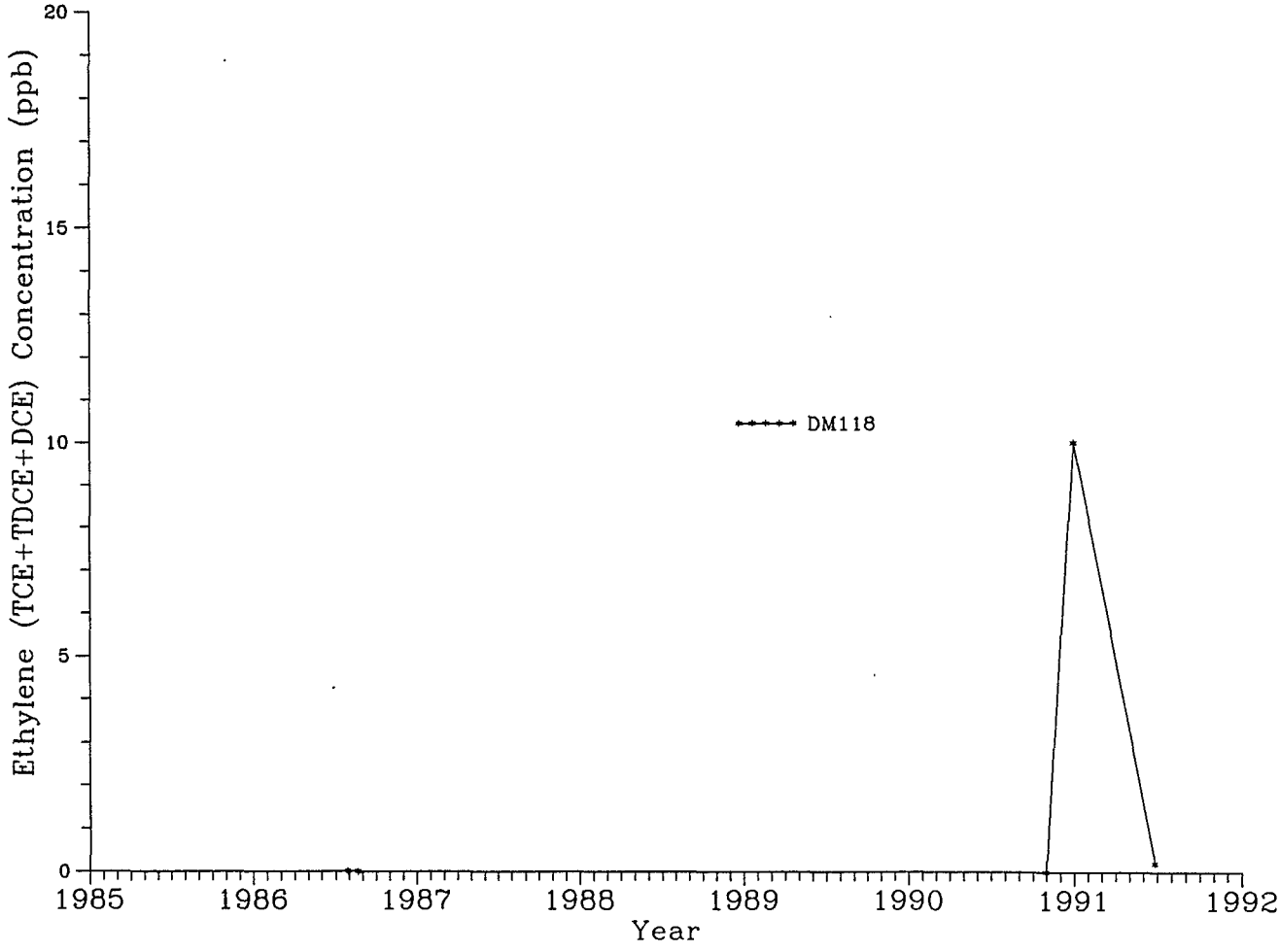
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 117

Figure E6.29

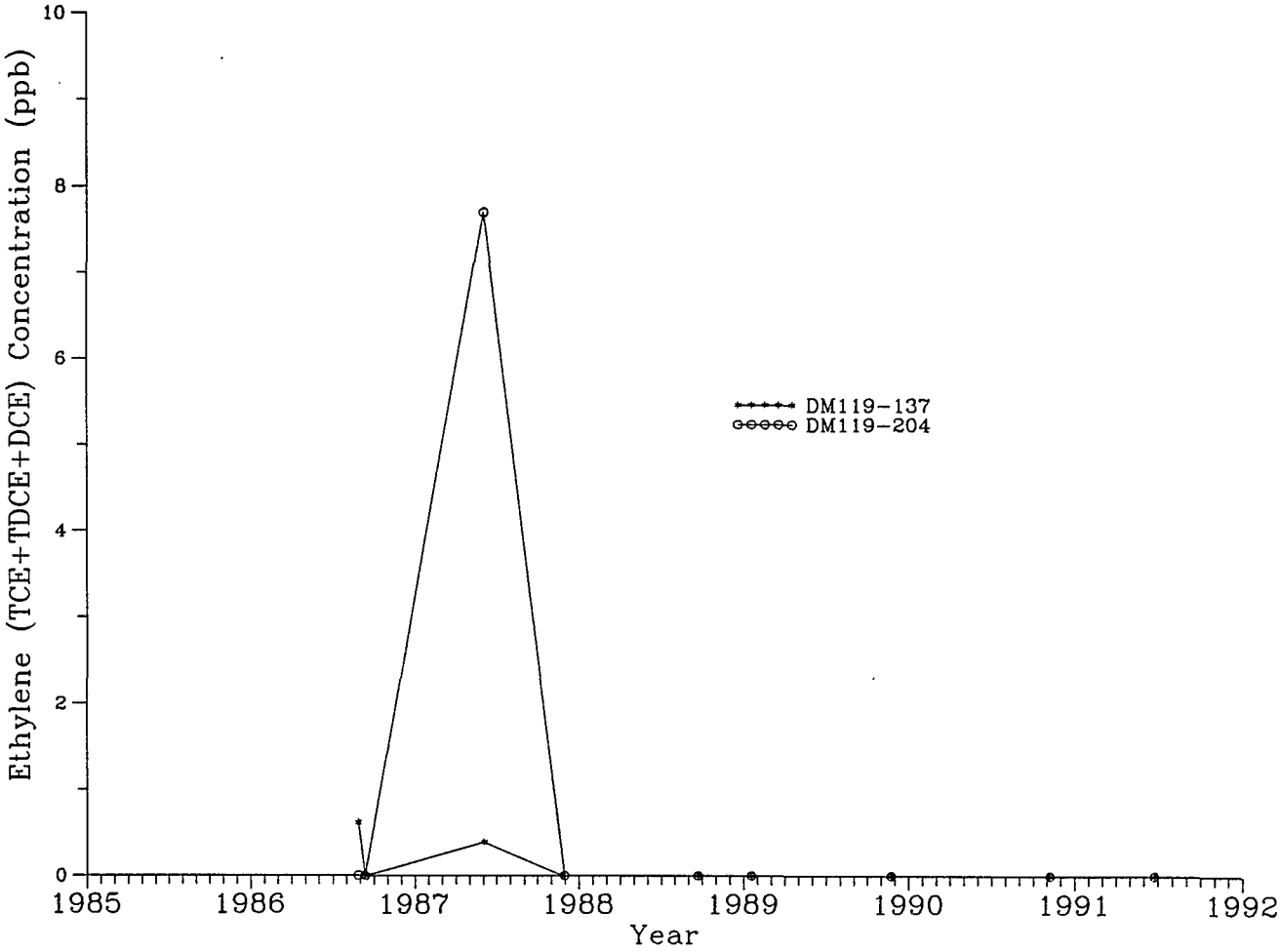
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 118

Figure E6.30

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 119

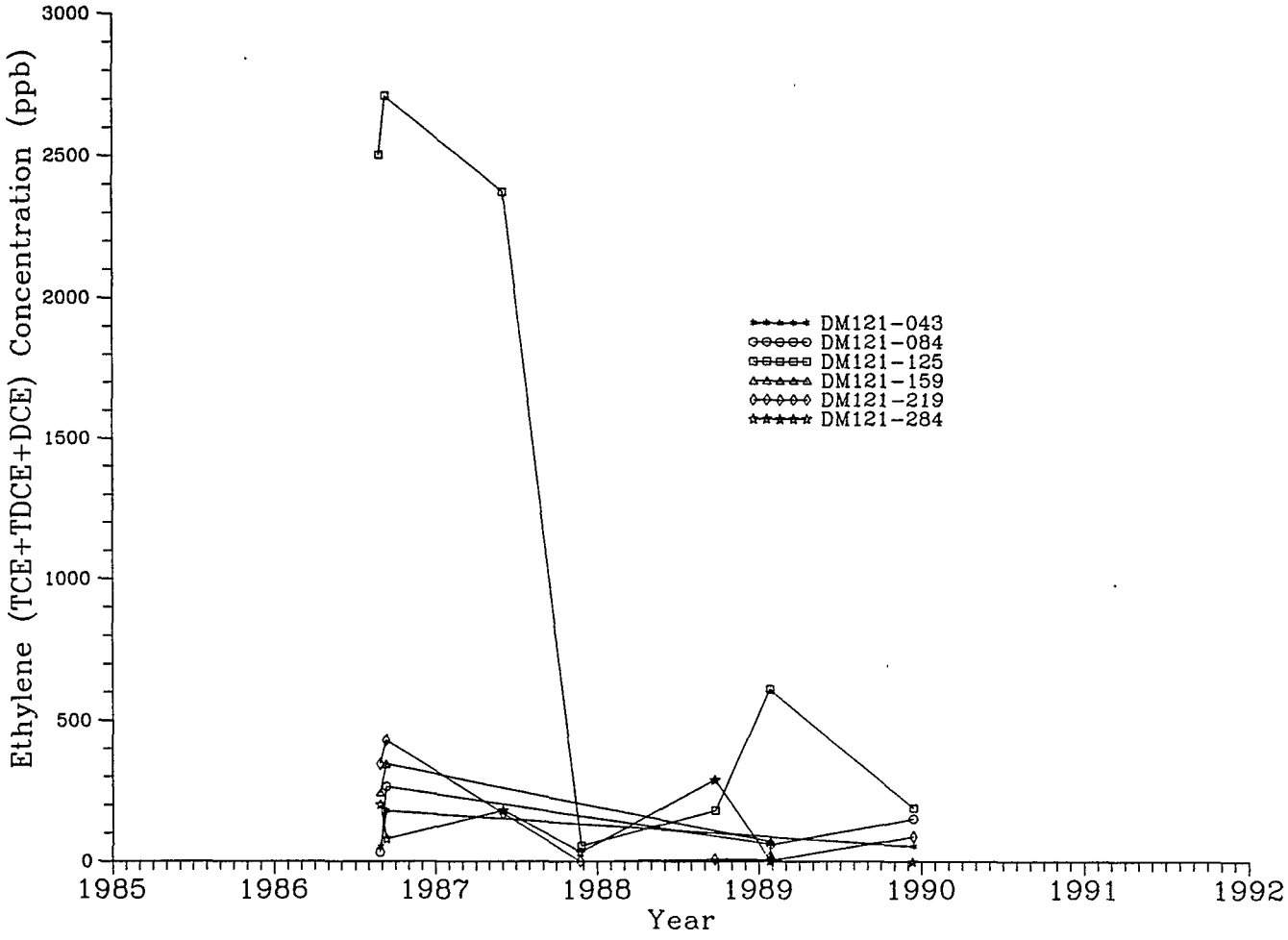
Figure E6.31

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 120

Figure E6.32

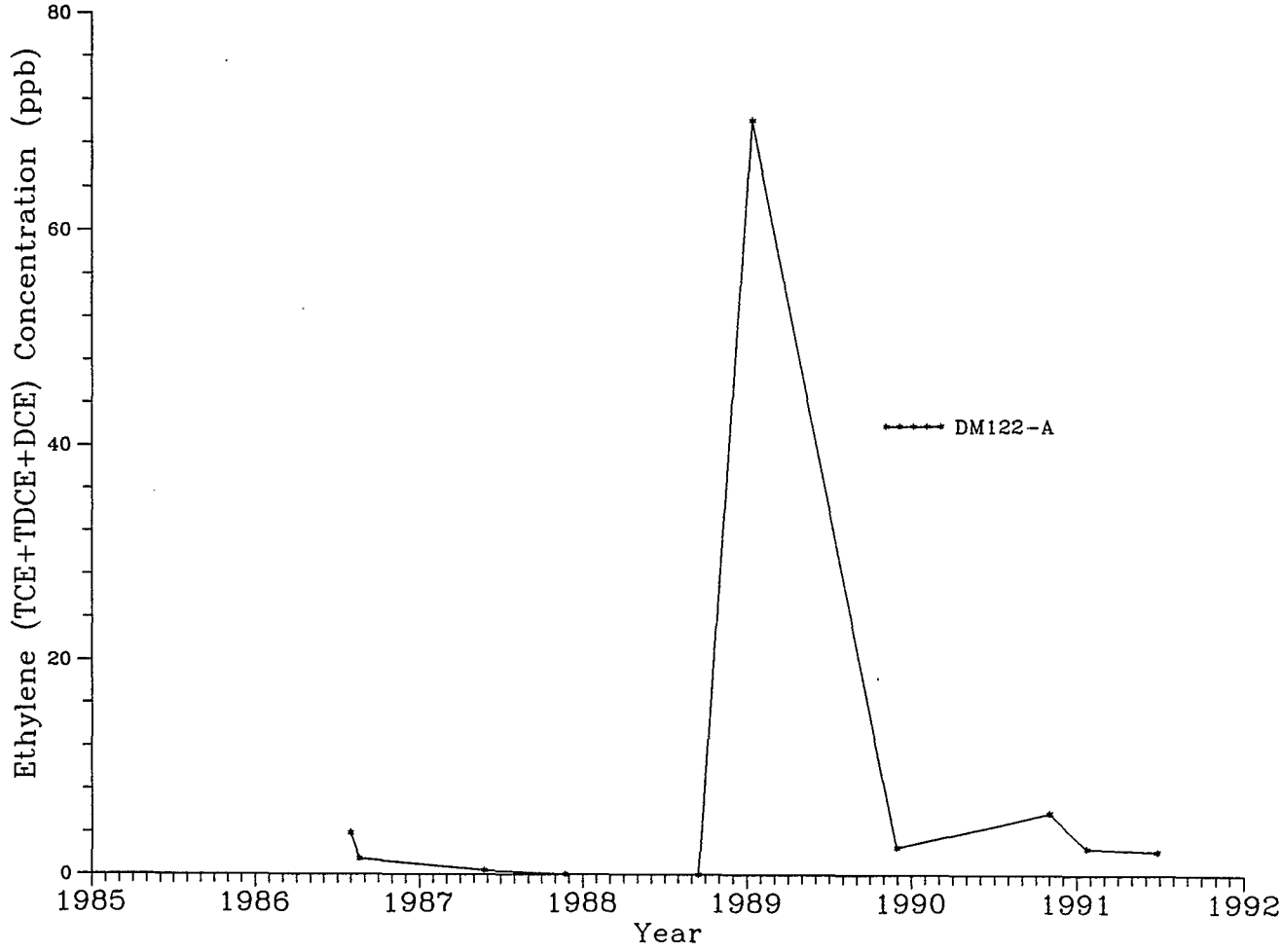
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 121

Figure E6.33

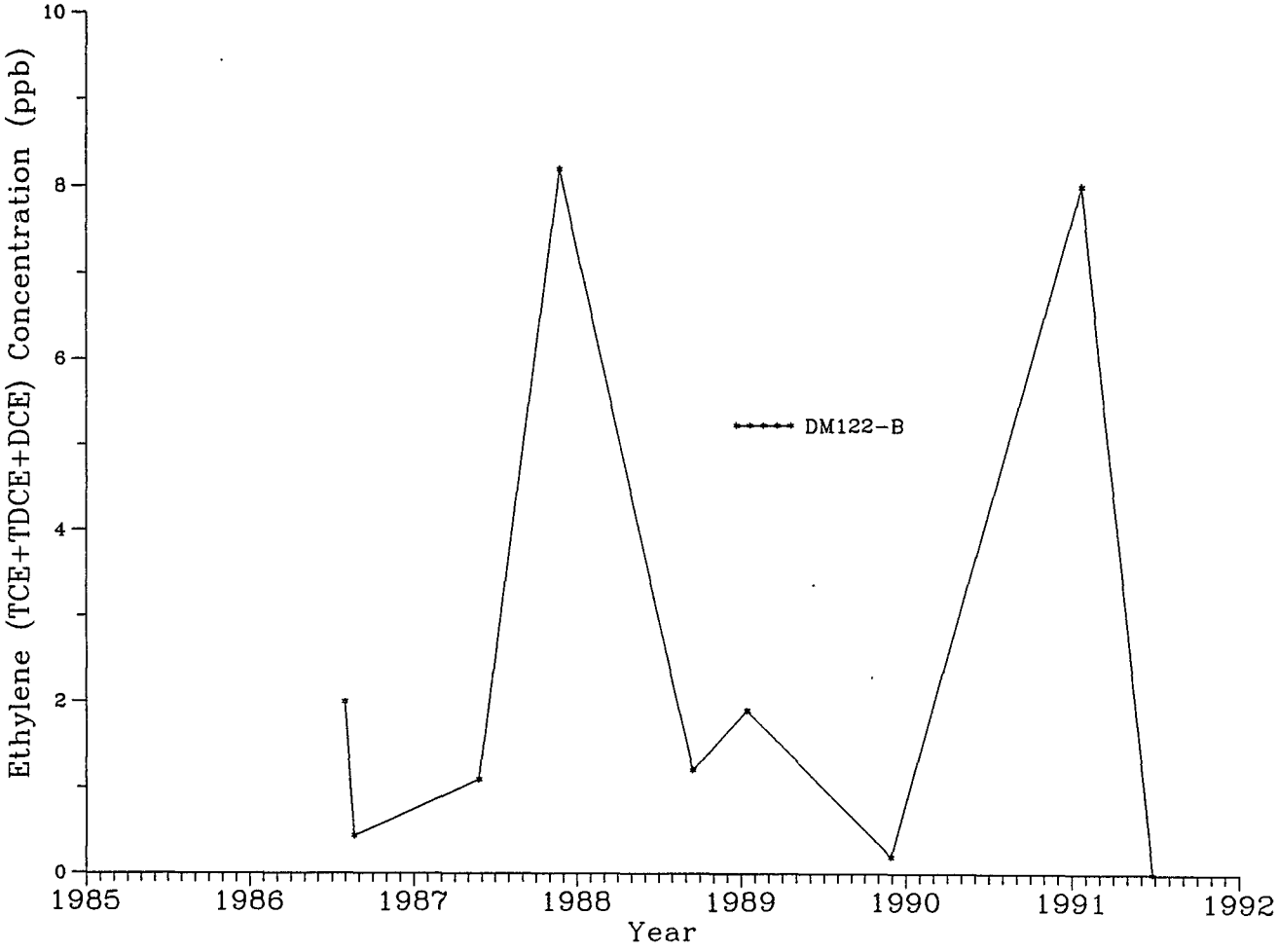
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 122-A

Figure E6.34

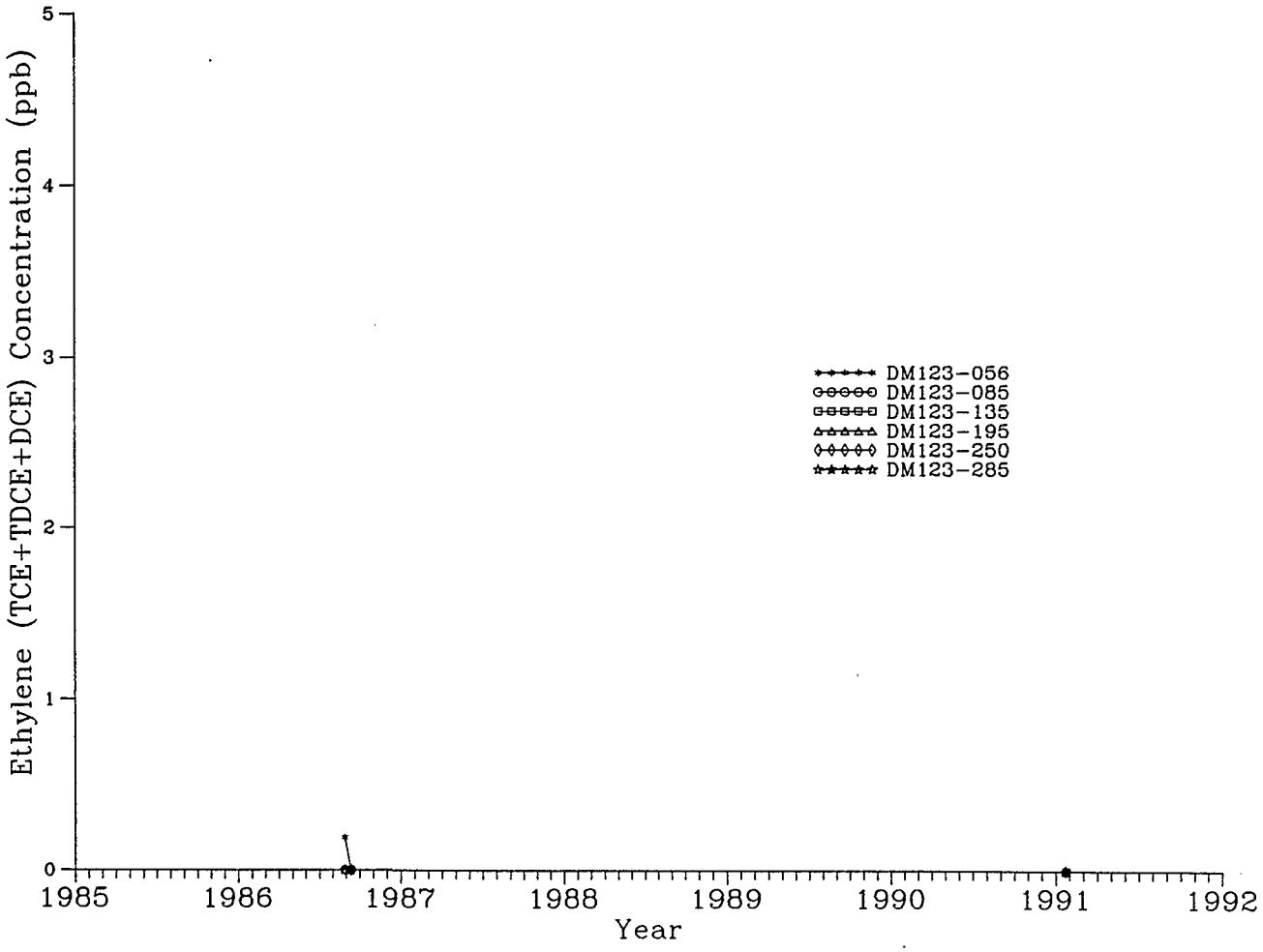
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 122-B

Figure E6.35

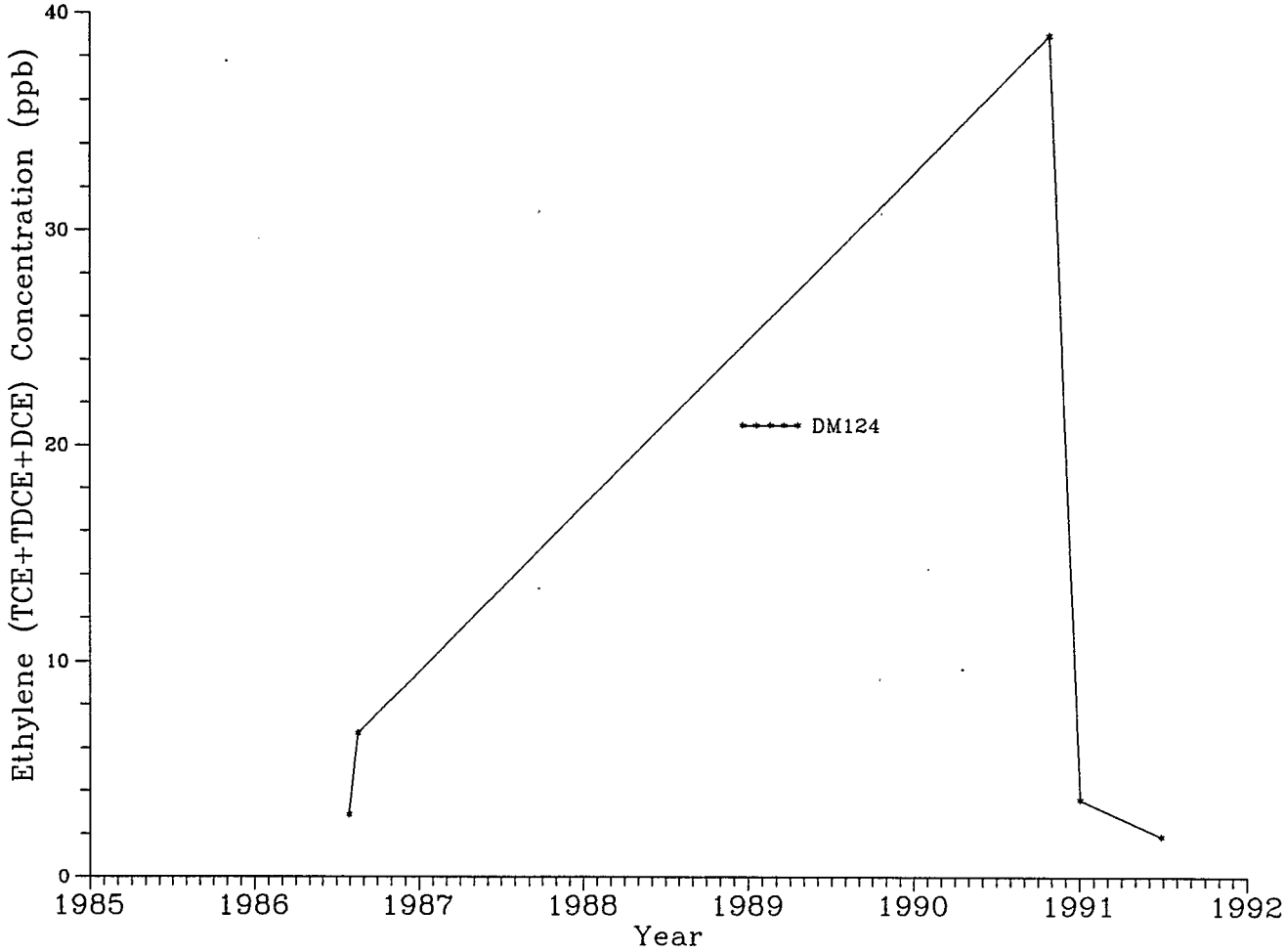
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 123

Figure E6.36

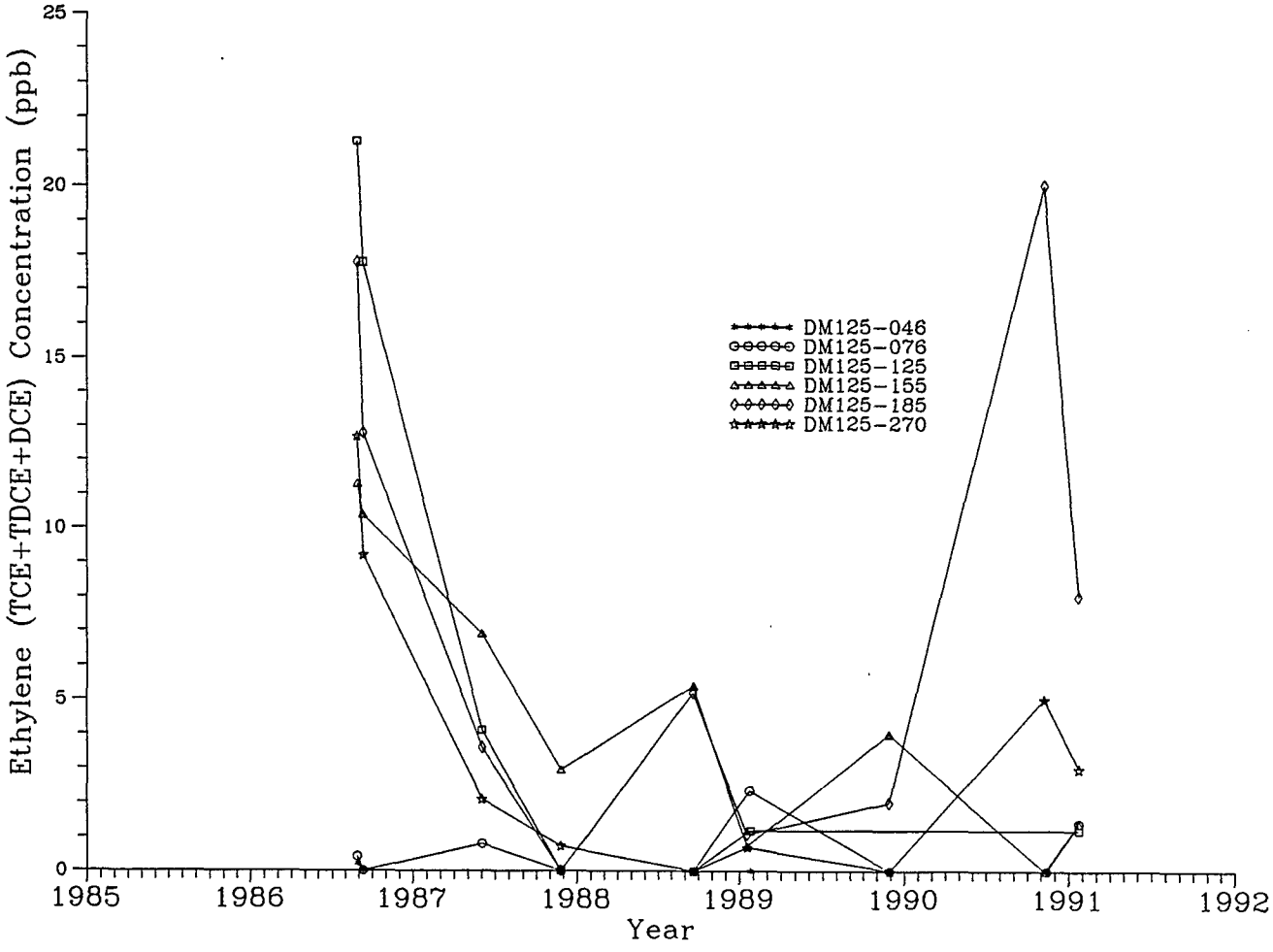
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 124

Figure E6.37

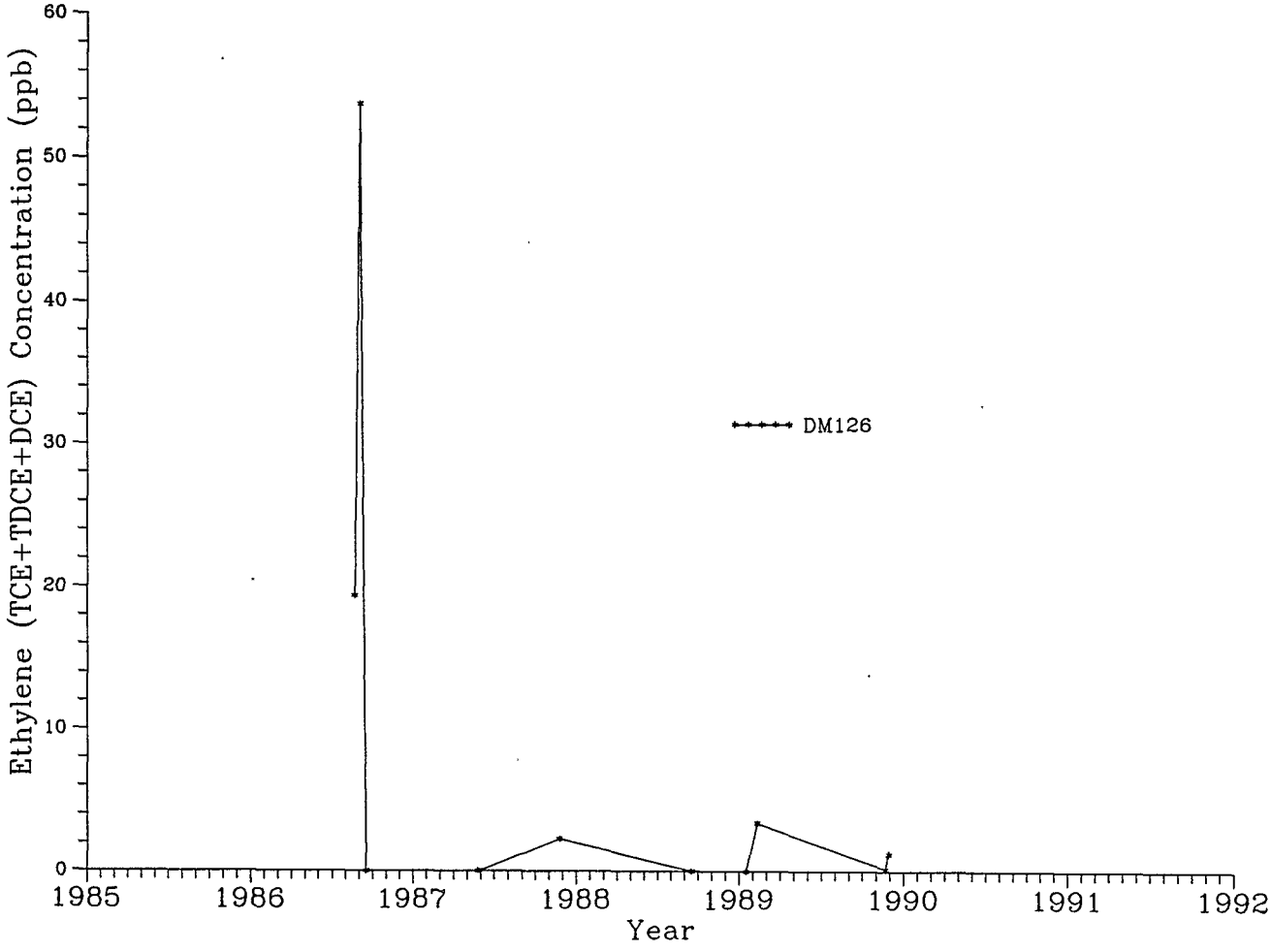
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 125

Figure E6.38

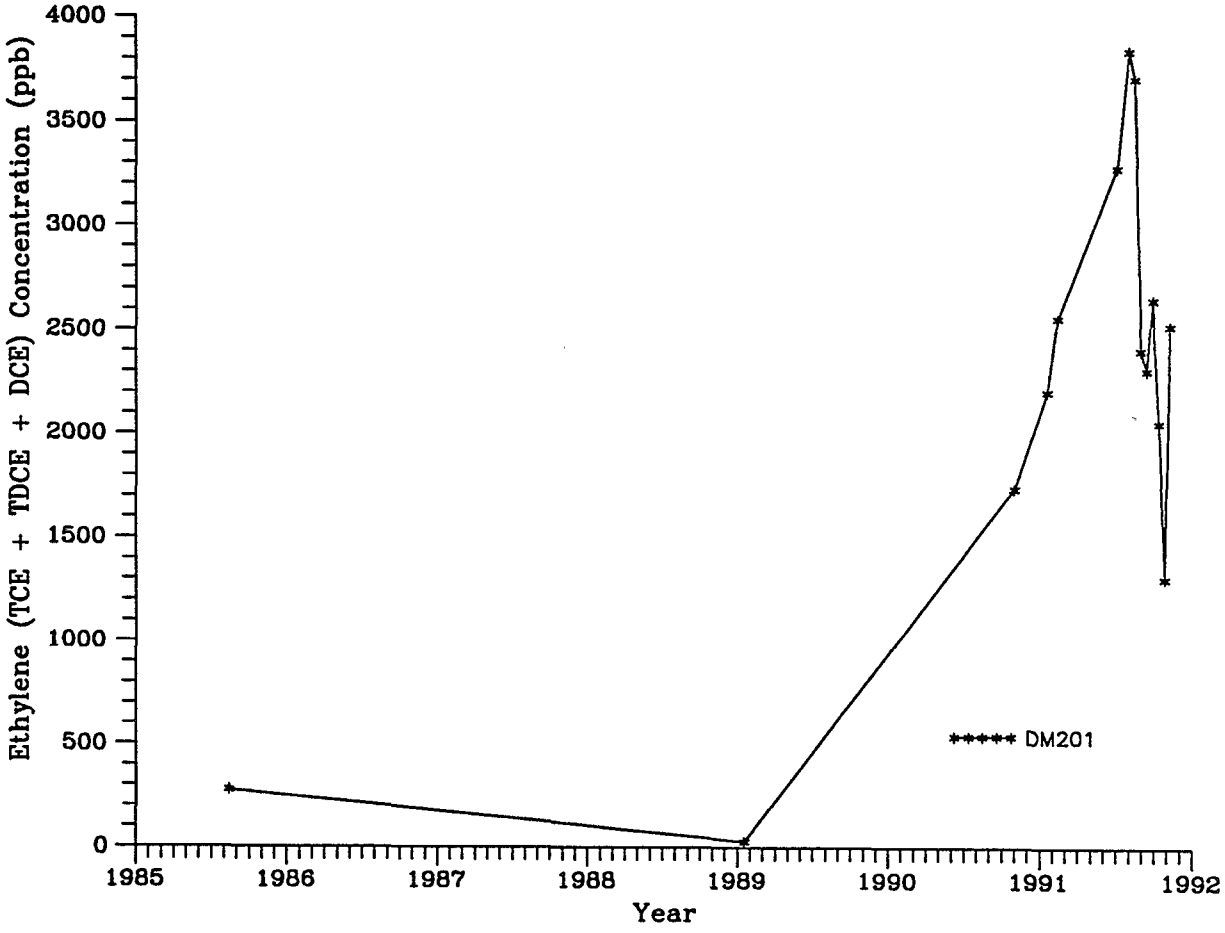
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 126

Figure E6.39

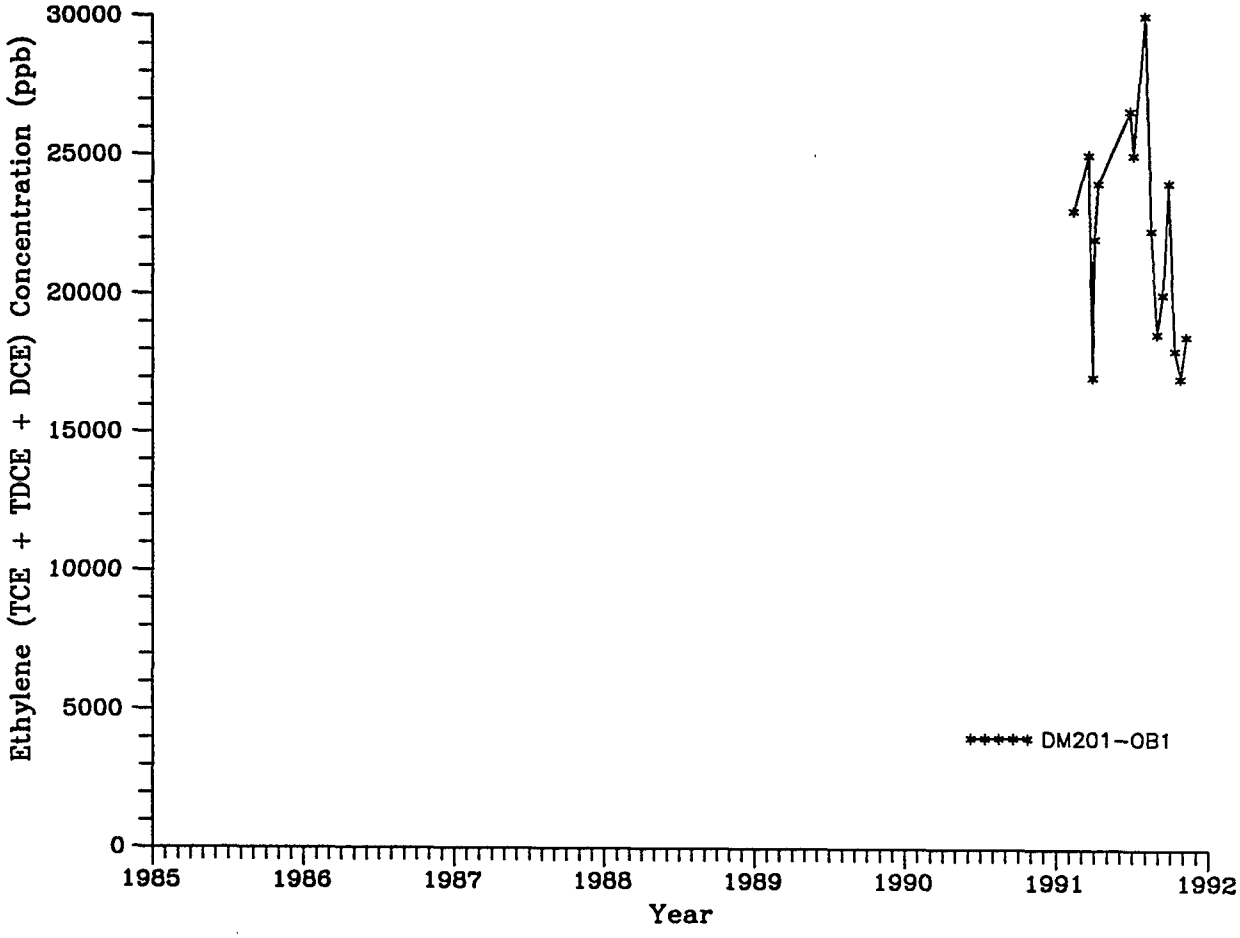
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 201

Figure E6.40

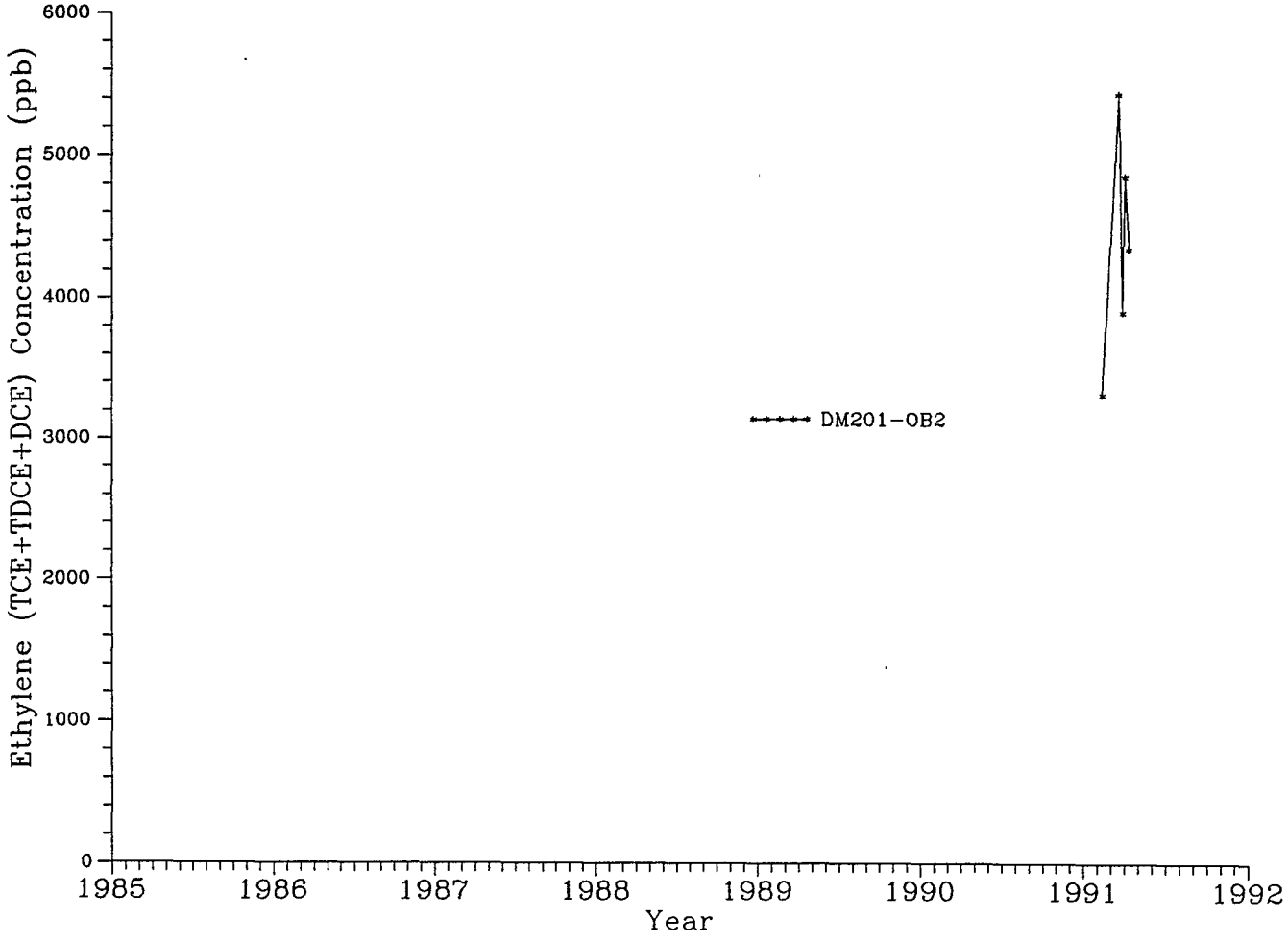
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 201-OB1

Figure E6.41

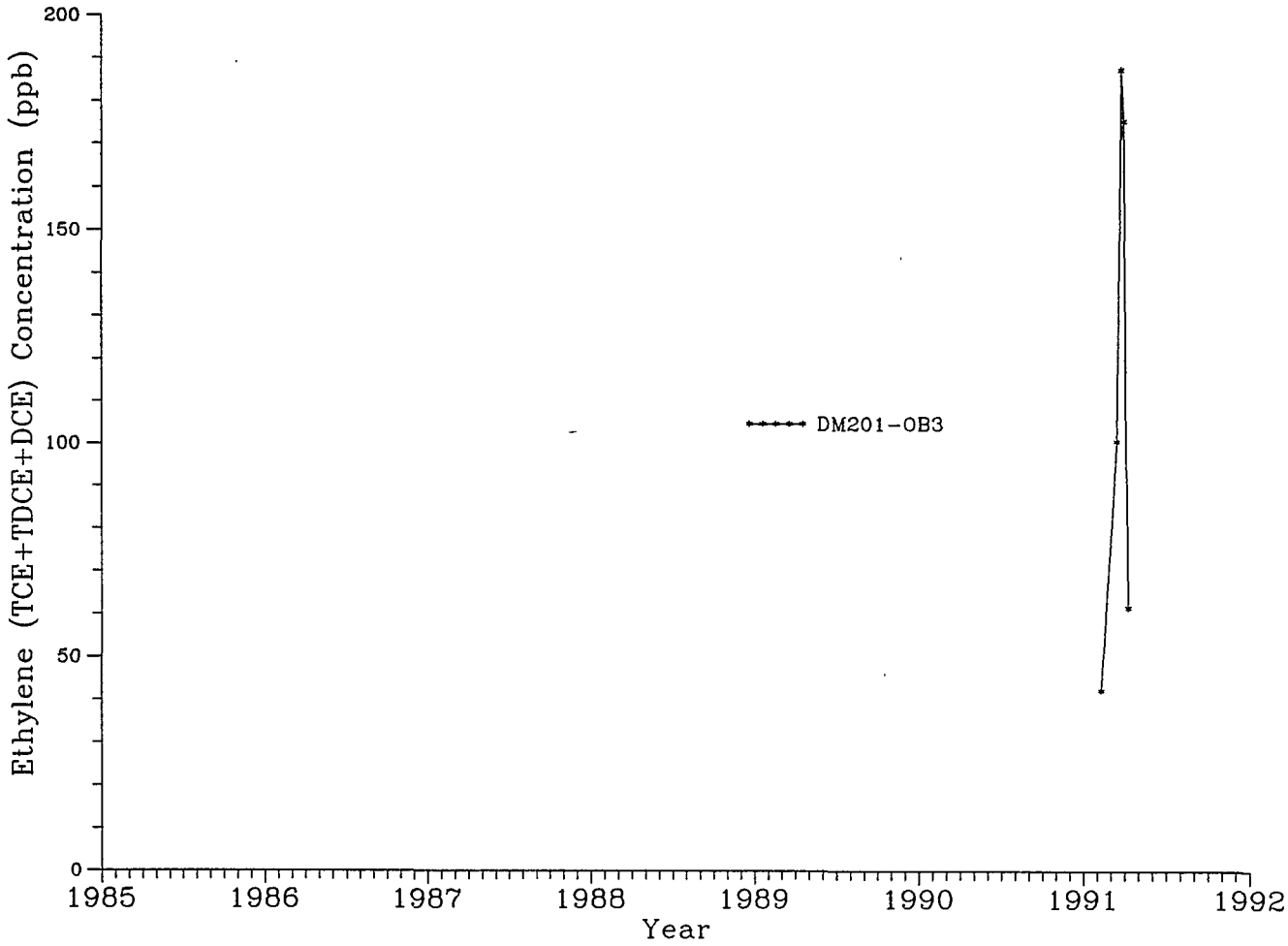
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 201-OB2

Figure E6.42

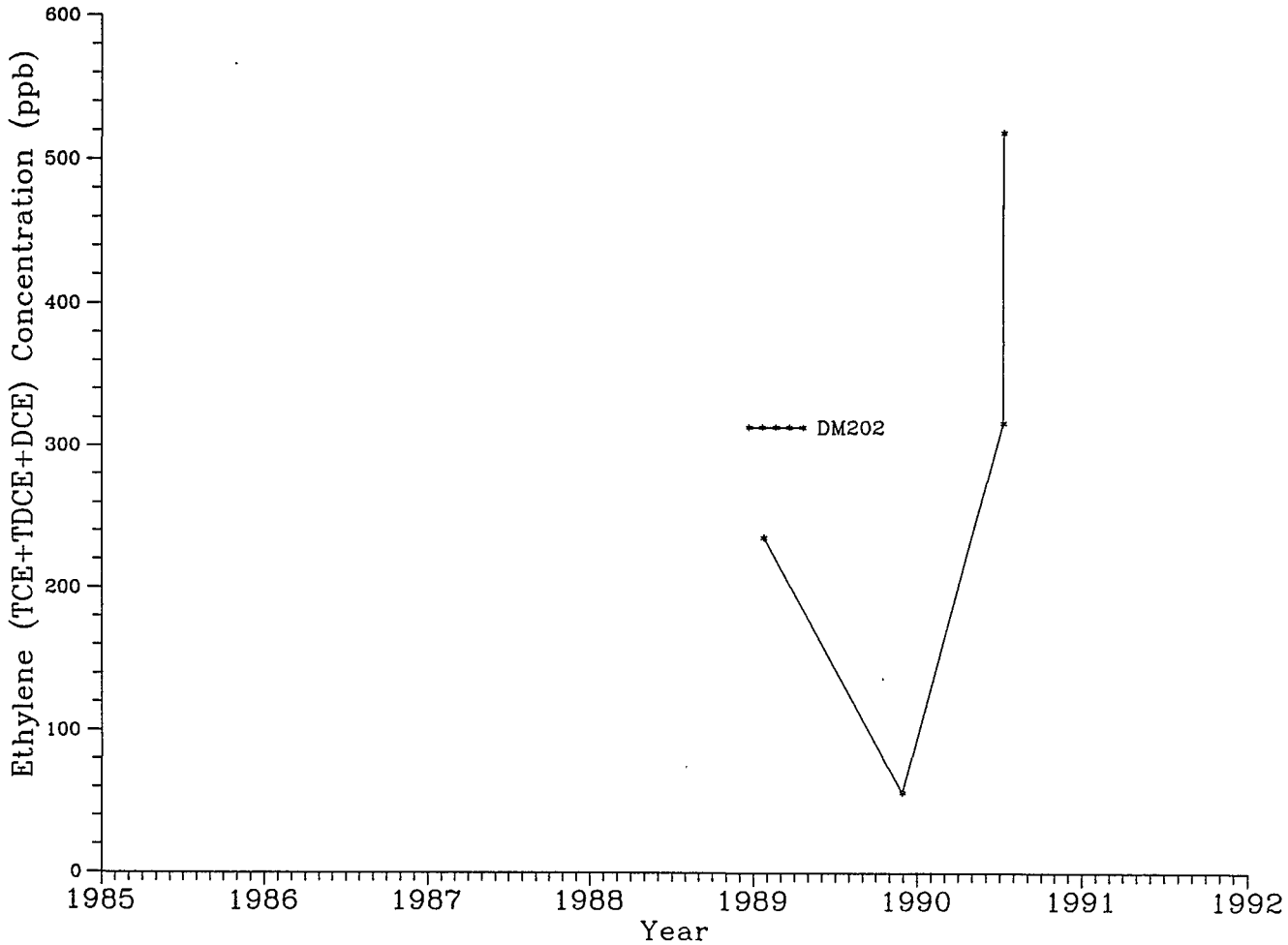
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 201-OB3

Figure E6.43

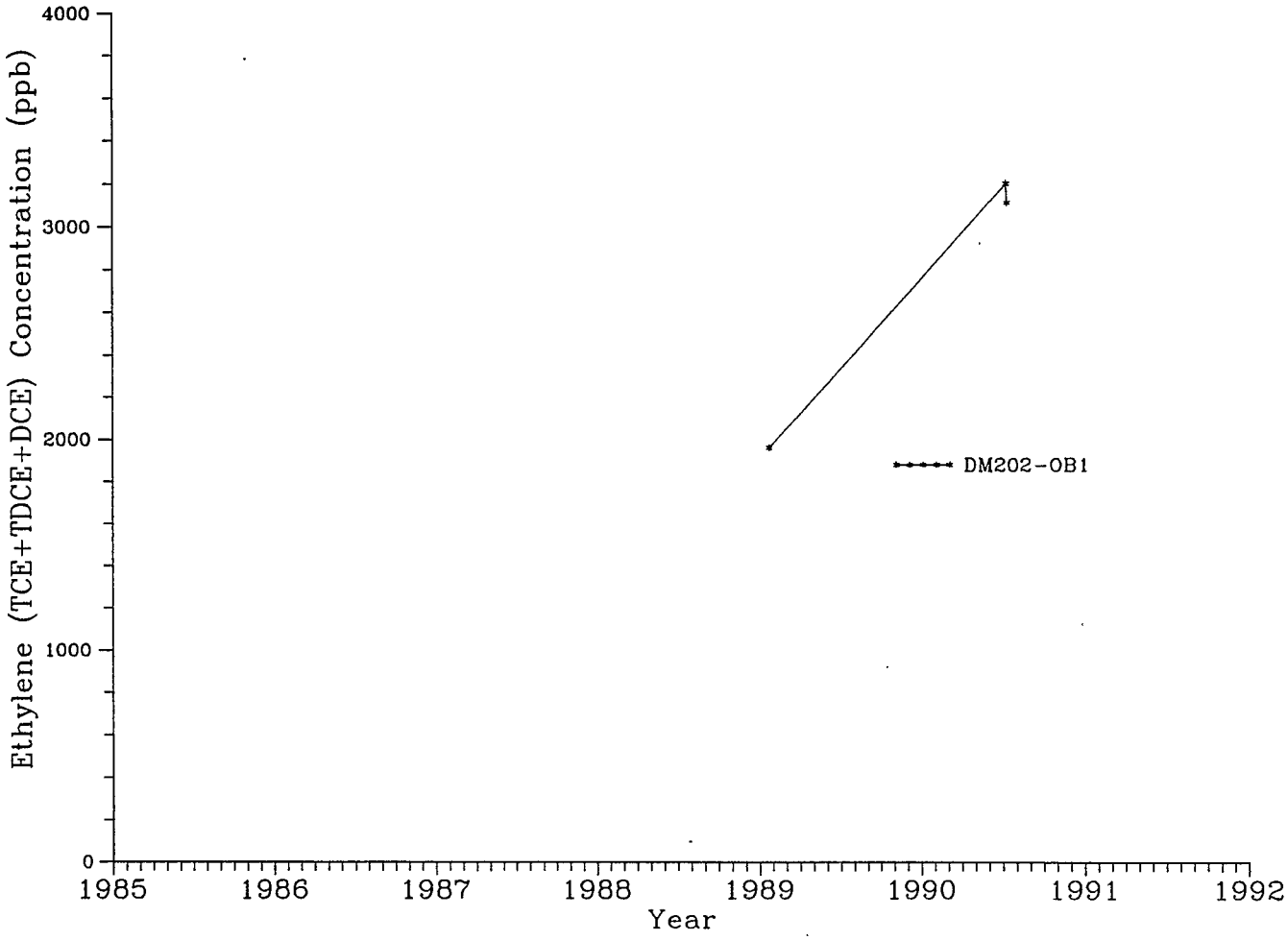
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 202

Figure E6.44

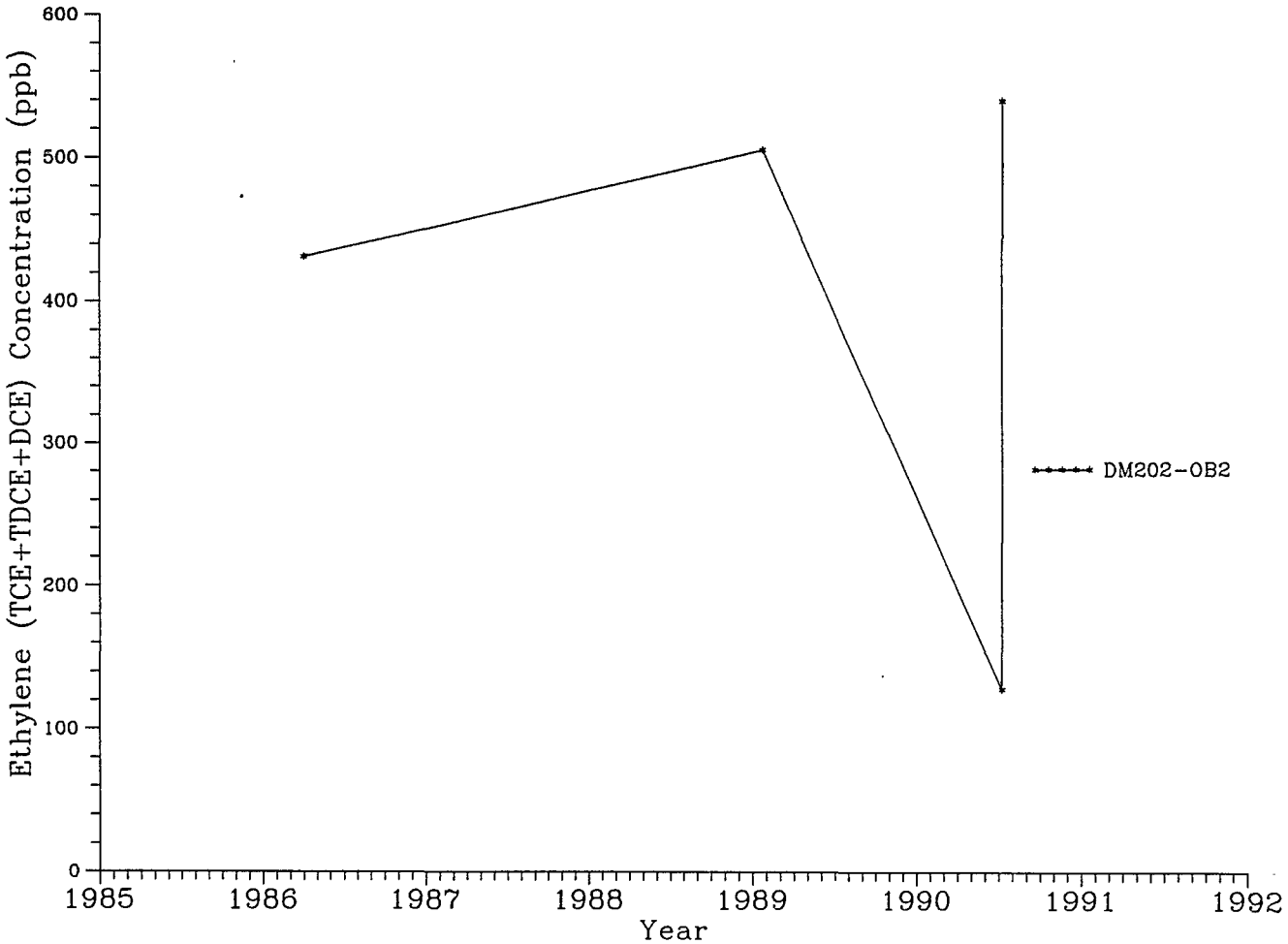
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 202-OB1

Figure E6.45

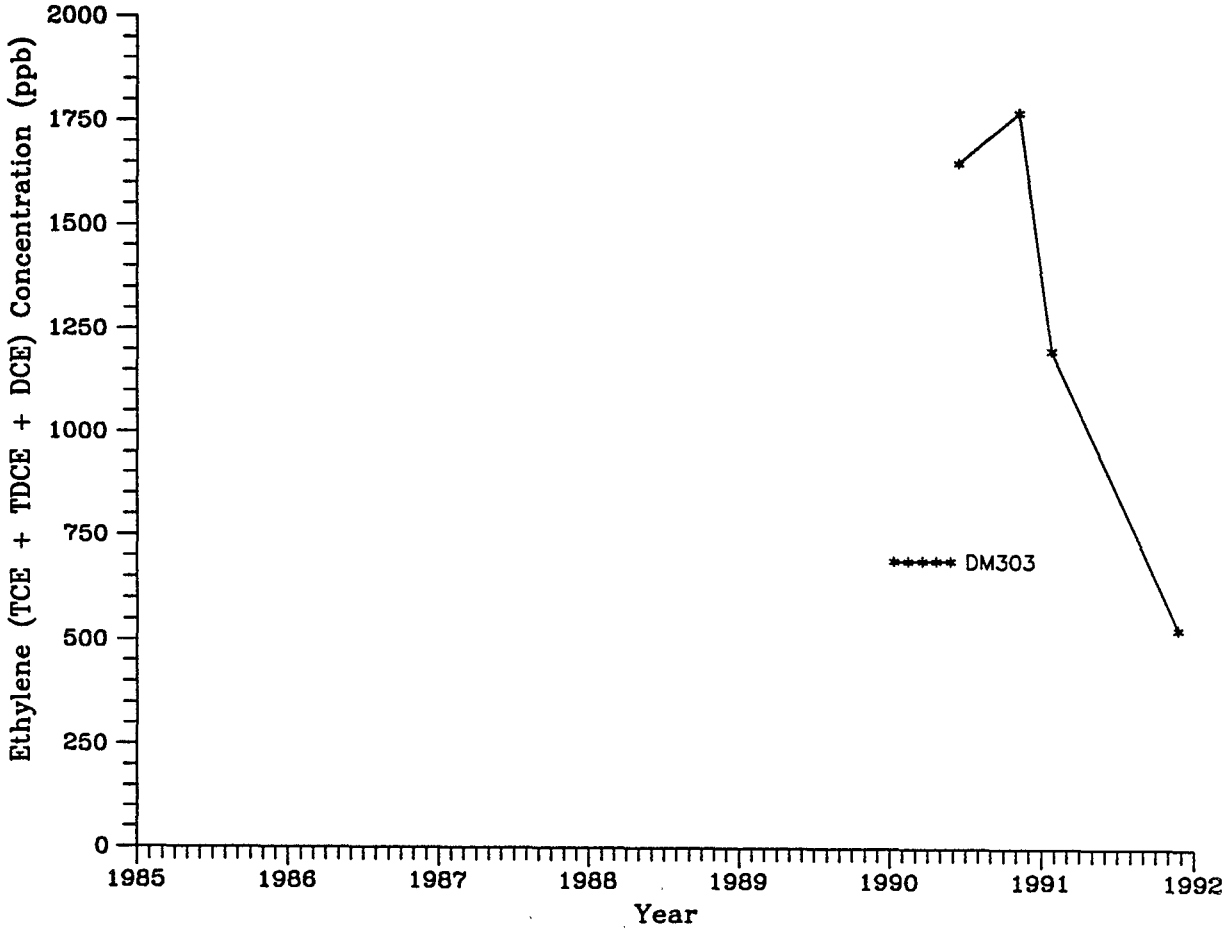
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 202-OB2

Figure E6.46

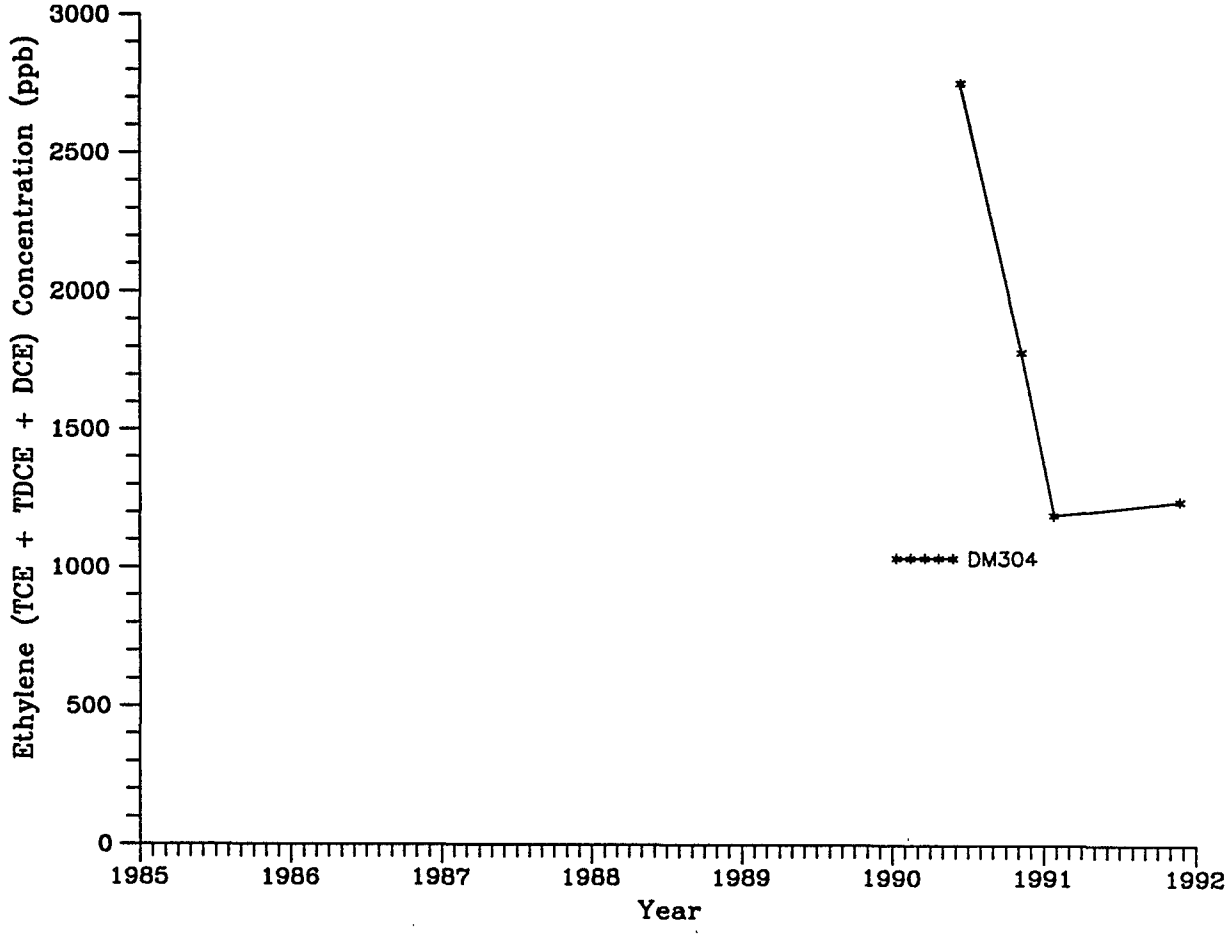
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 303

Figure E6.47

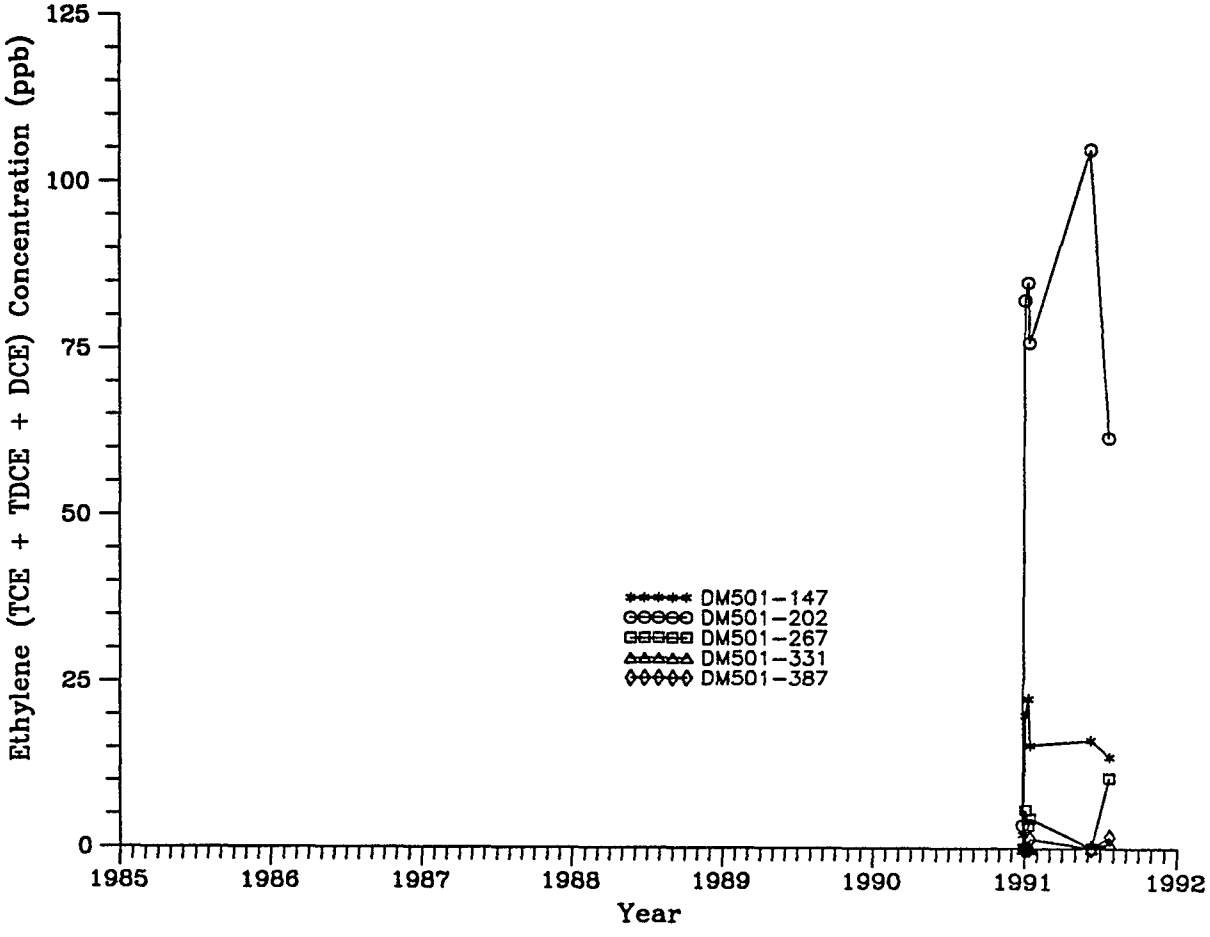
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 304

Figure E6.48

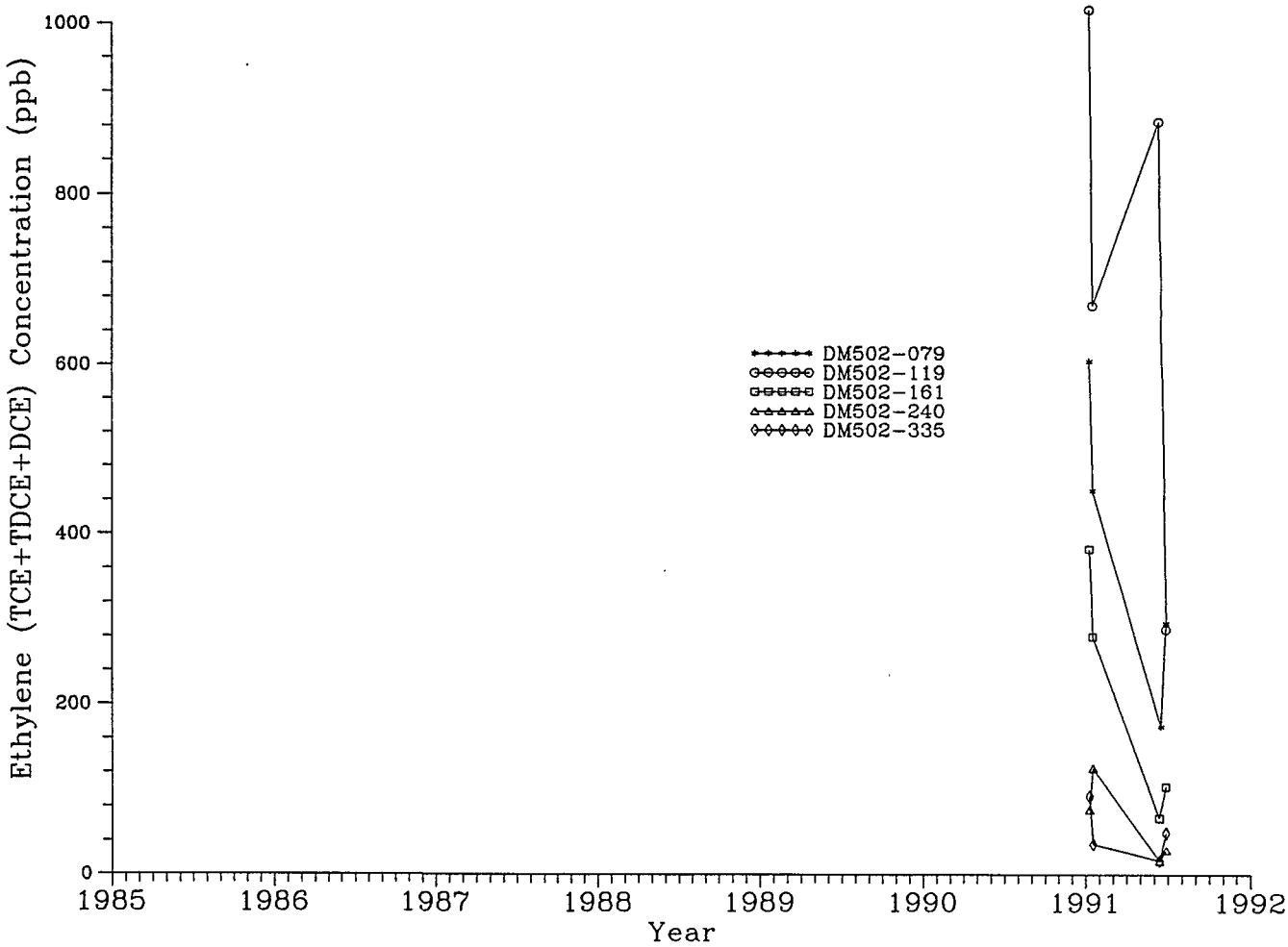
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 501

Figure E6.49

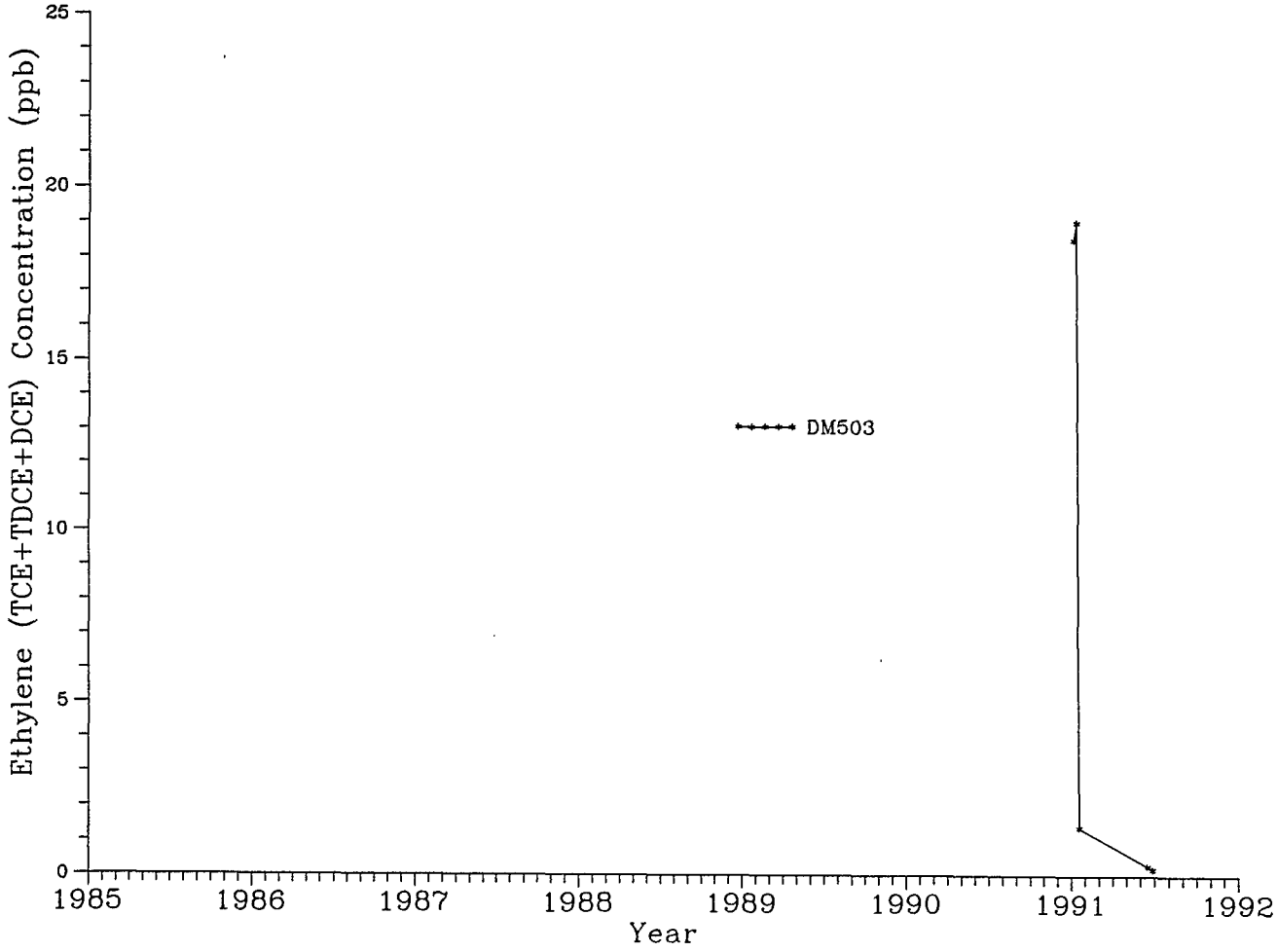
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 502

Figure E6.50

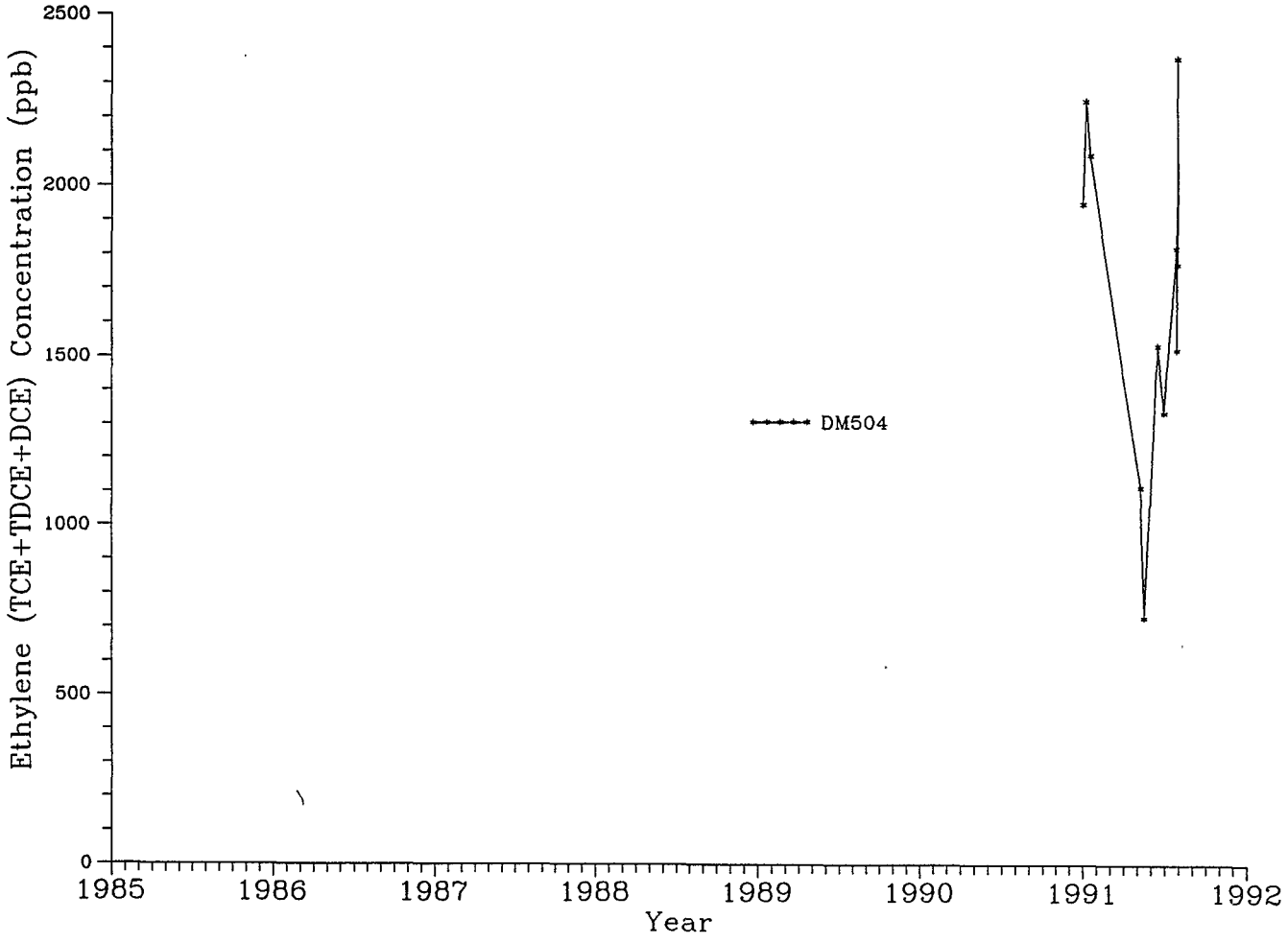
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 503

Figure E6.51

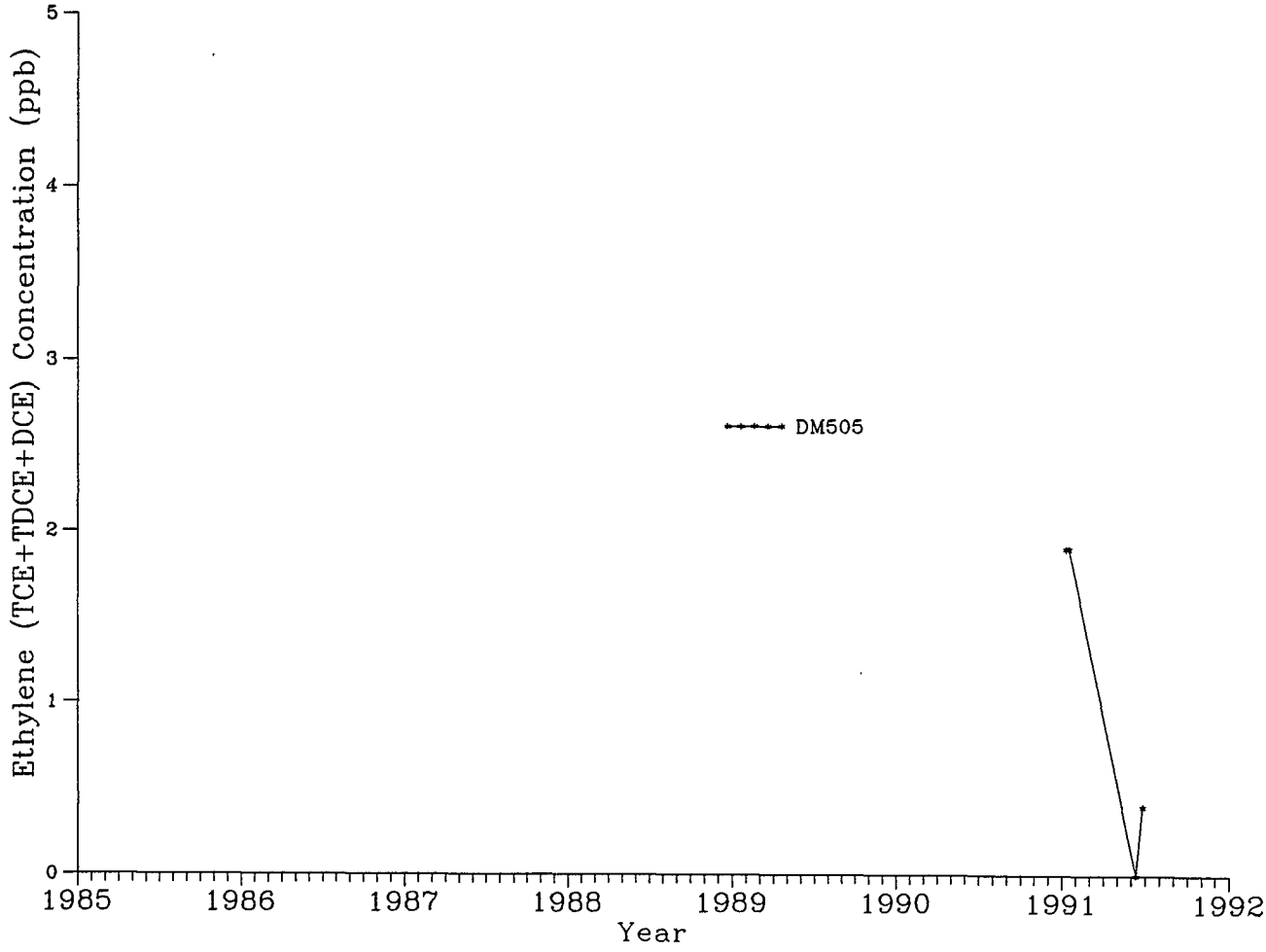
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 504

Figure E6.52

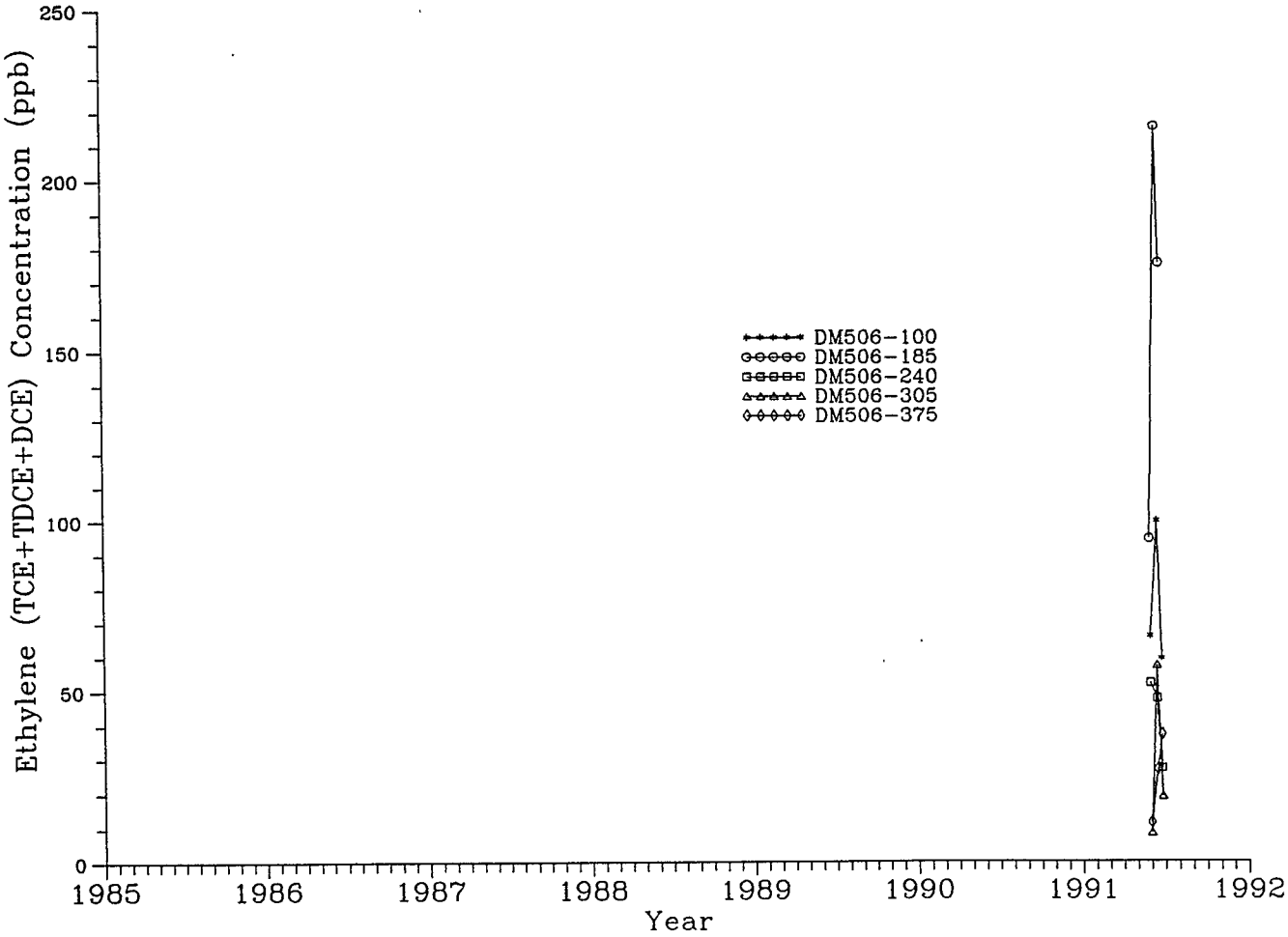
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 505

Figure E6.53

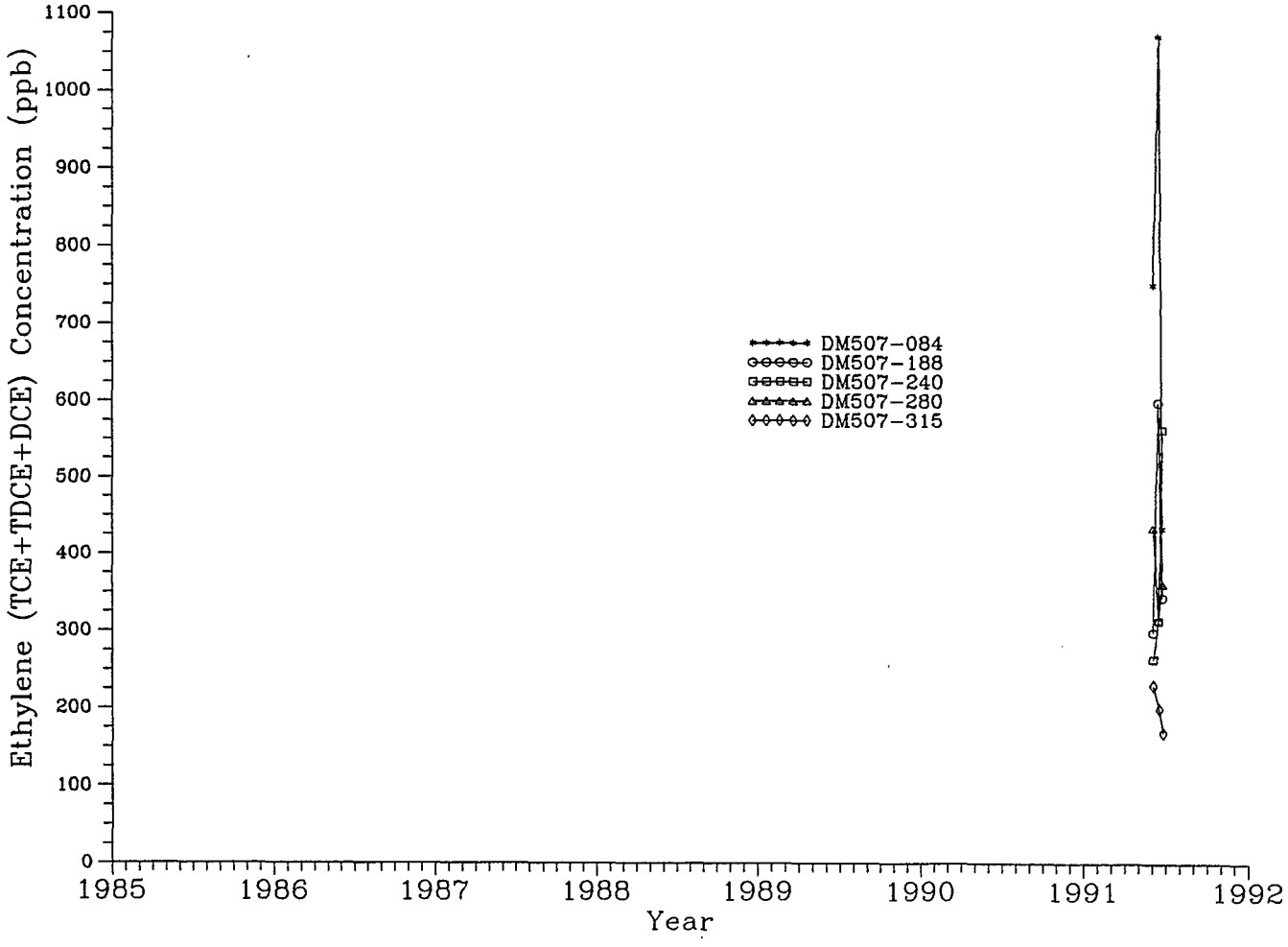
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 506

Figure E6.54

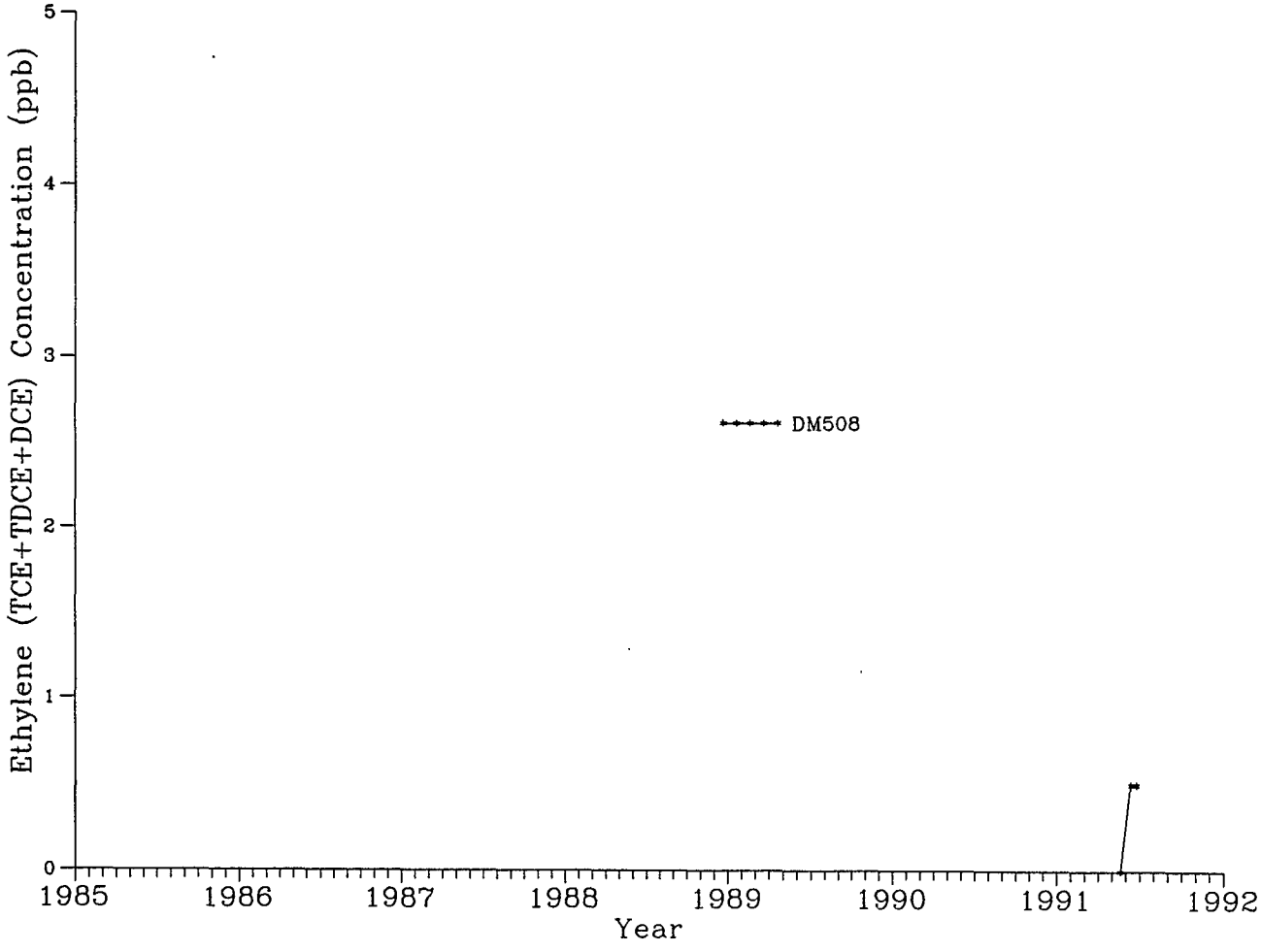
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 507

Figure E6.55

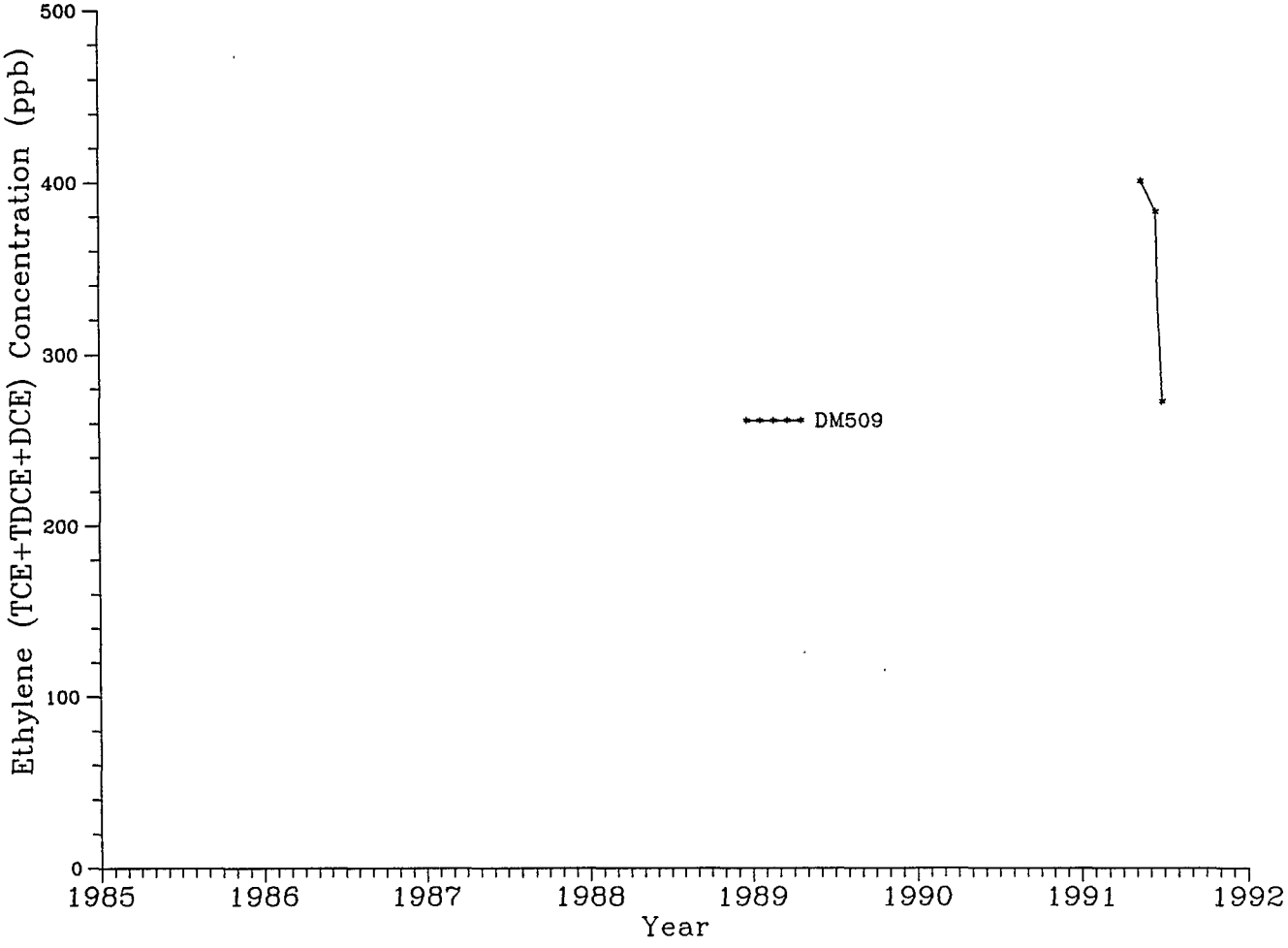
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 508

Figure E6.56

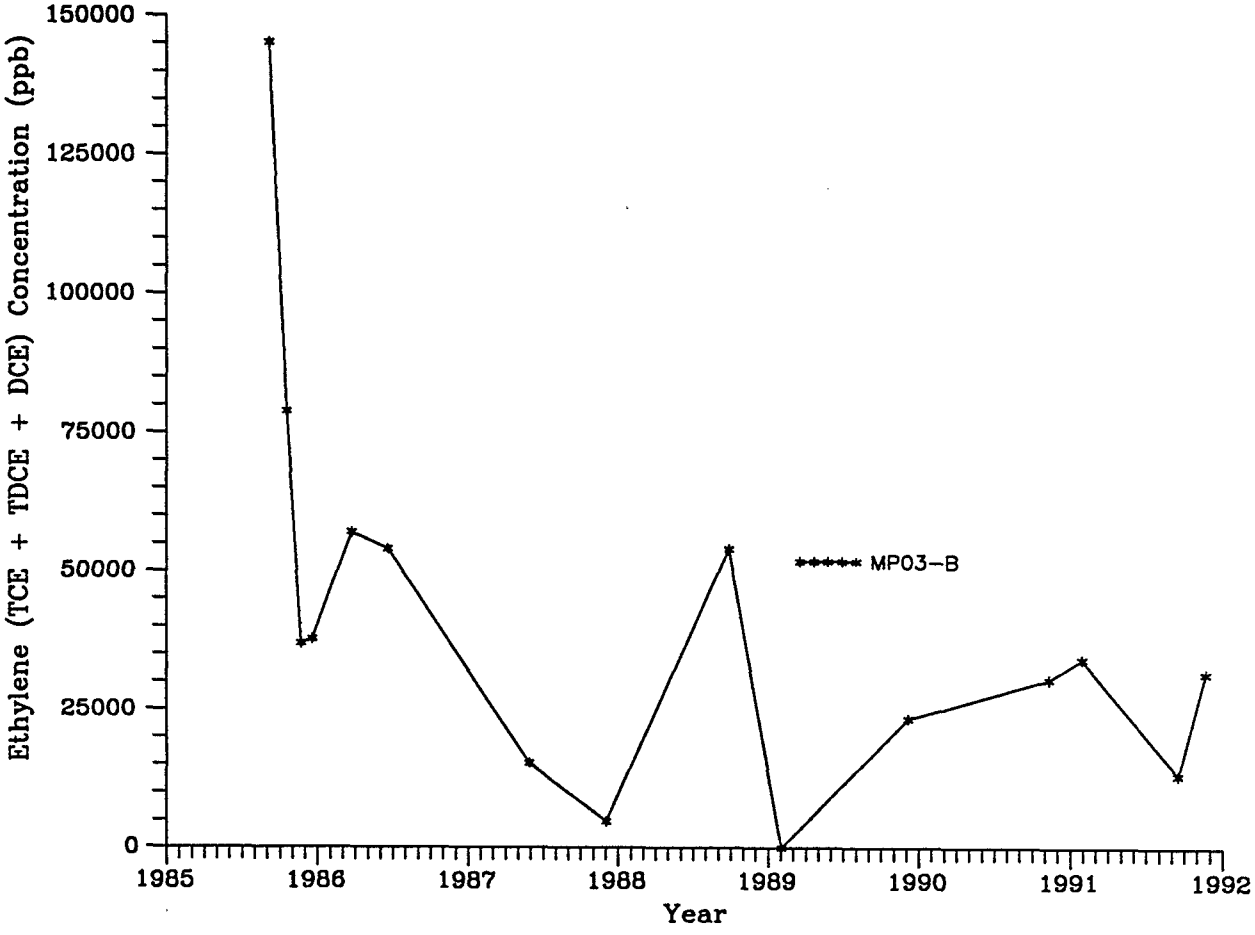
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL DM 509

Figure E6.57

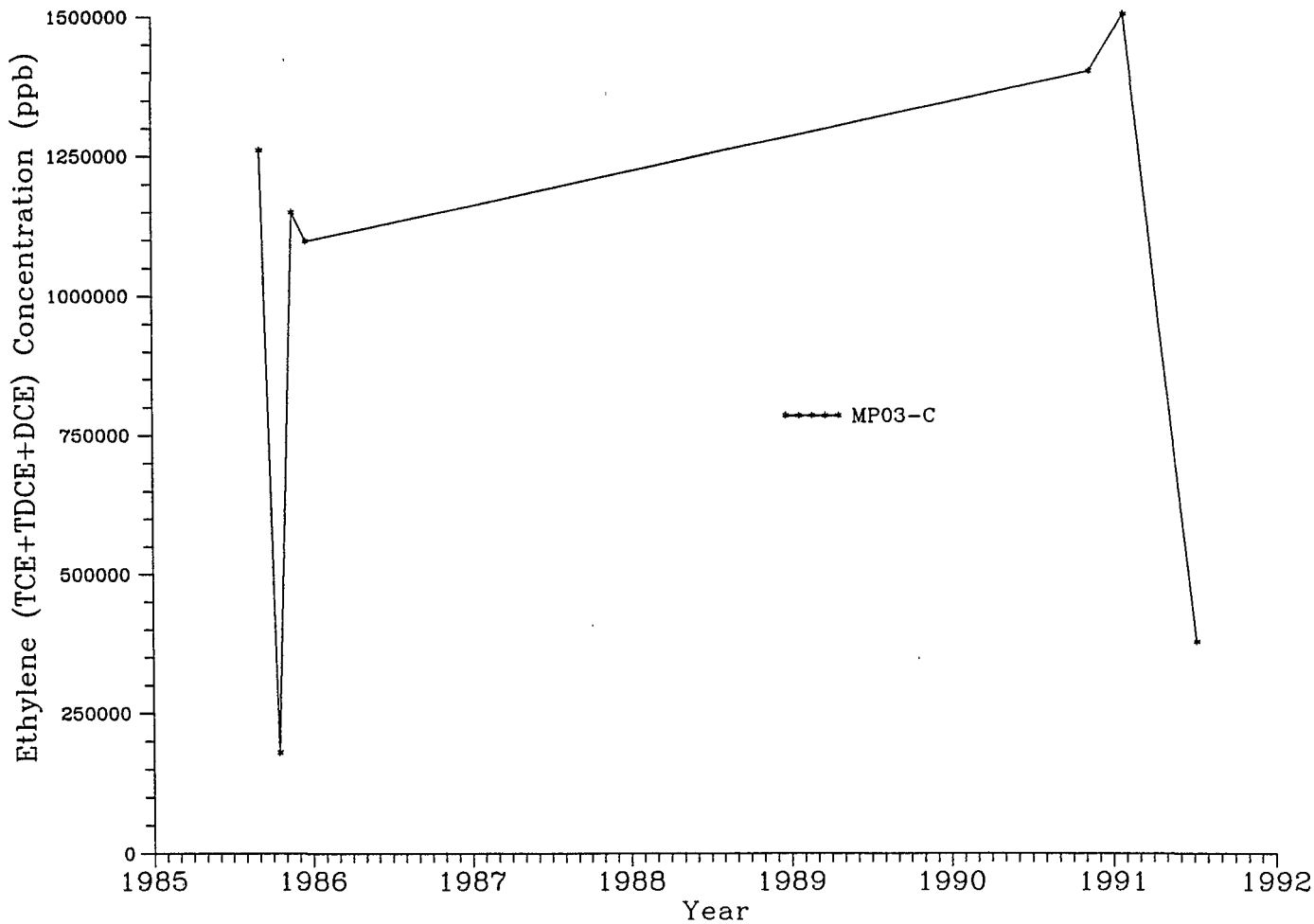
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 03-B

Figure E6.58

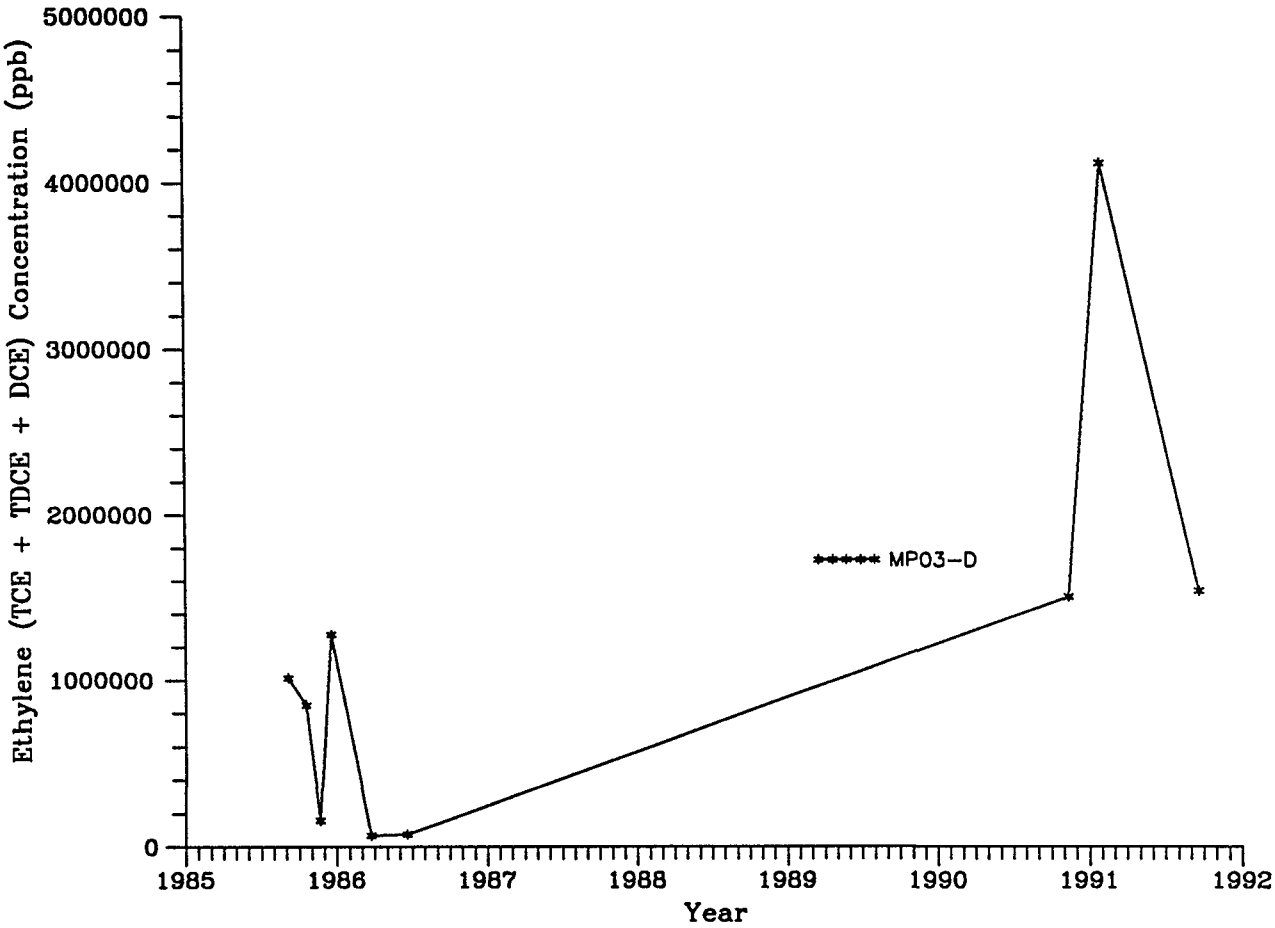
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 03-C

Figure E6.59

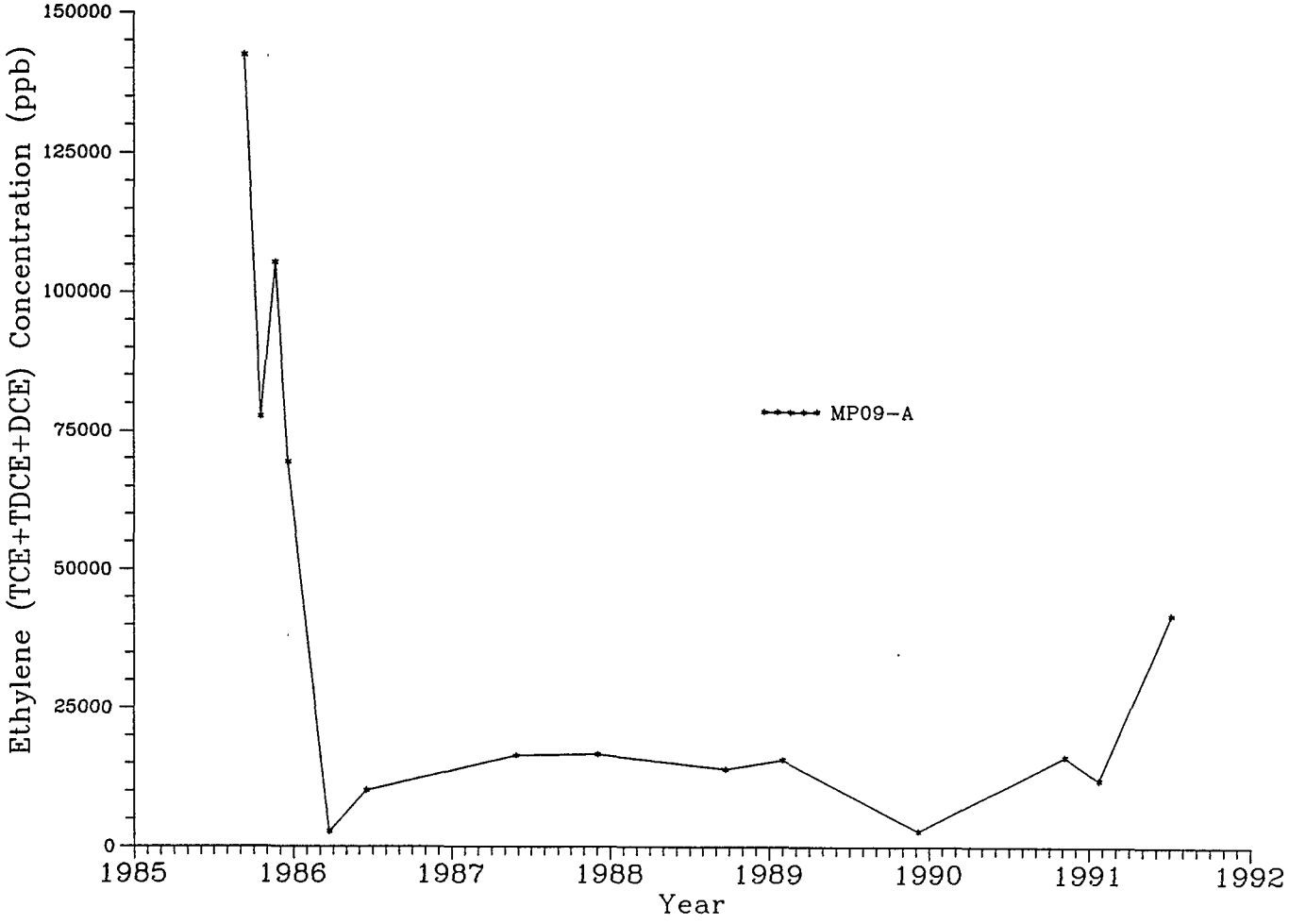
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 03-D

Figure E6.60

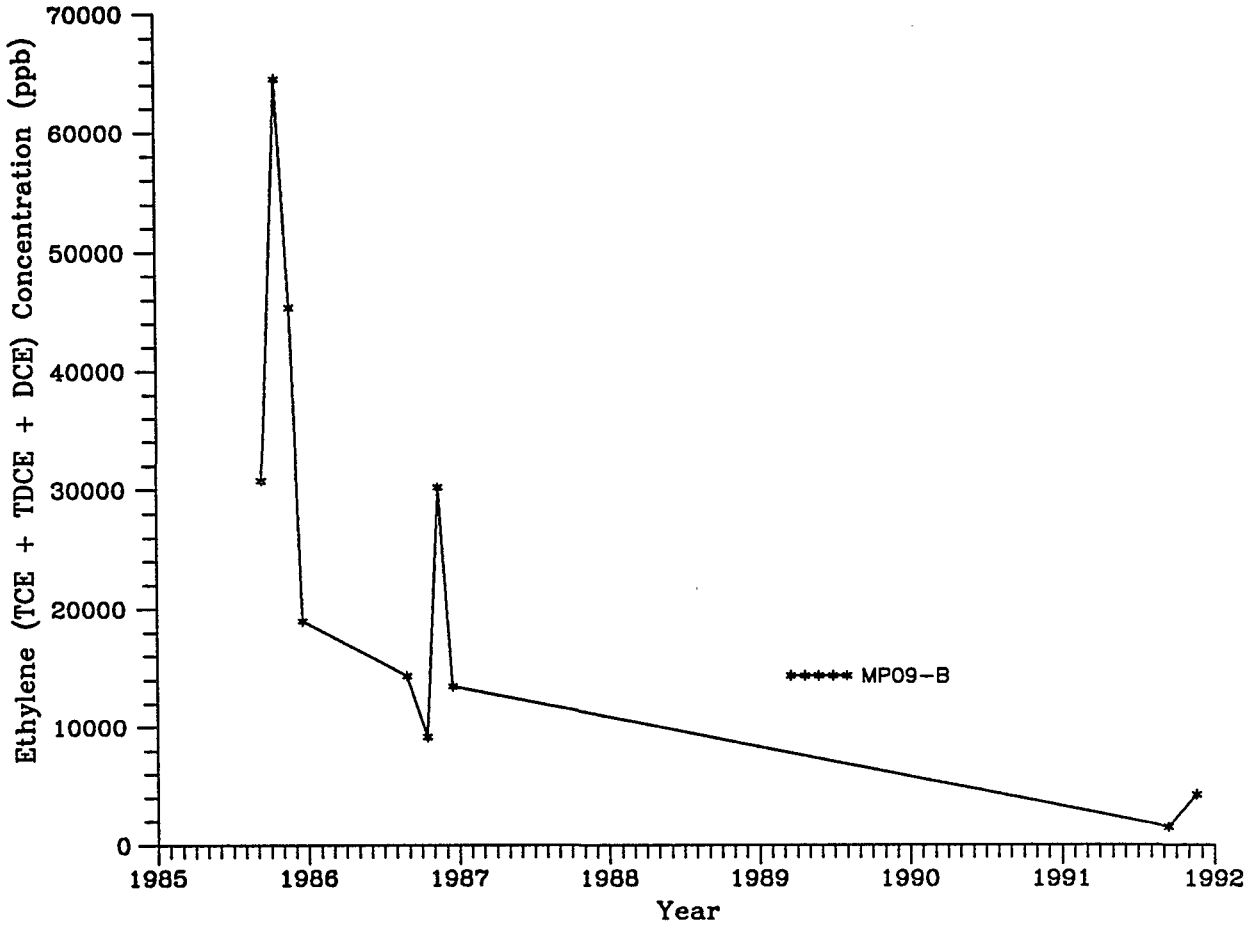
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 09-A

Figure E6.61

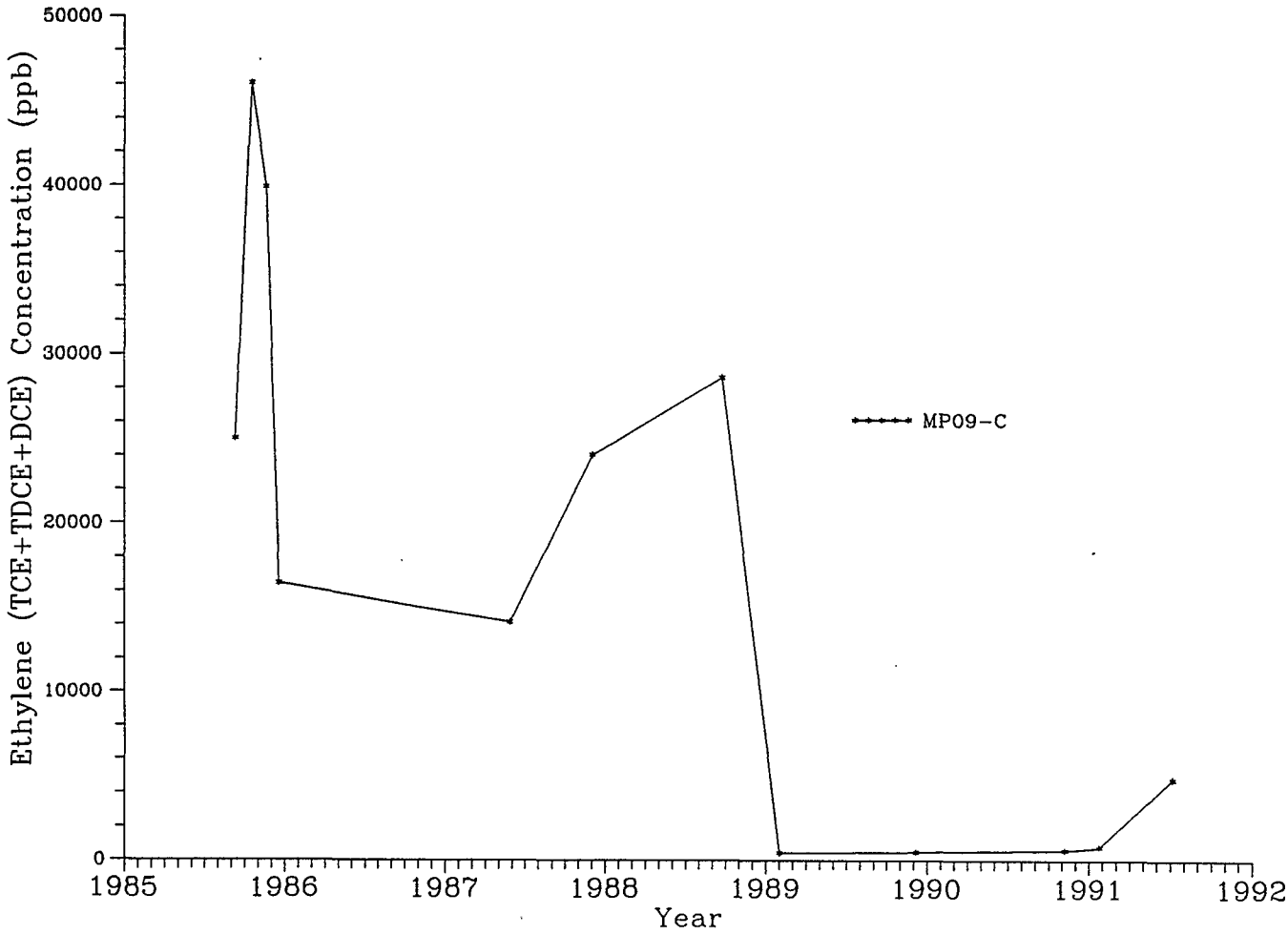
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 09-B

Figure E6.62

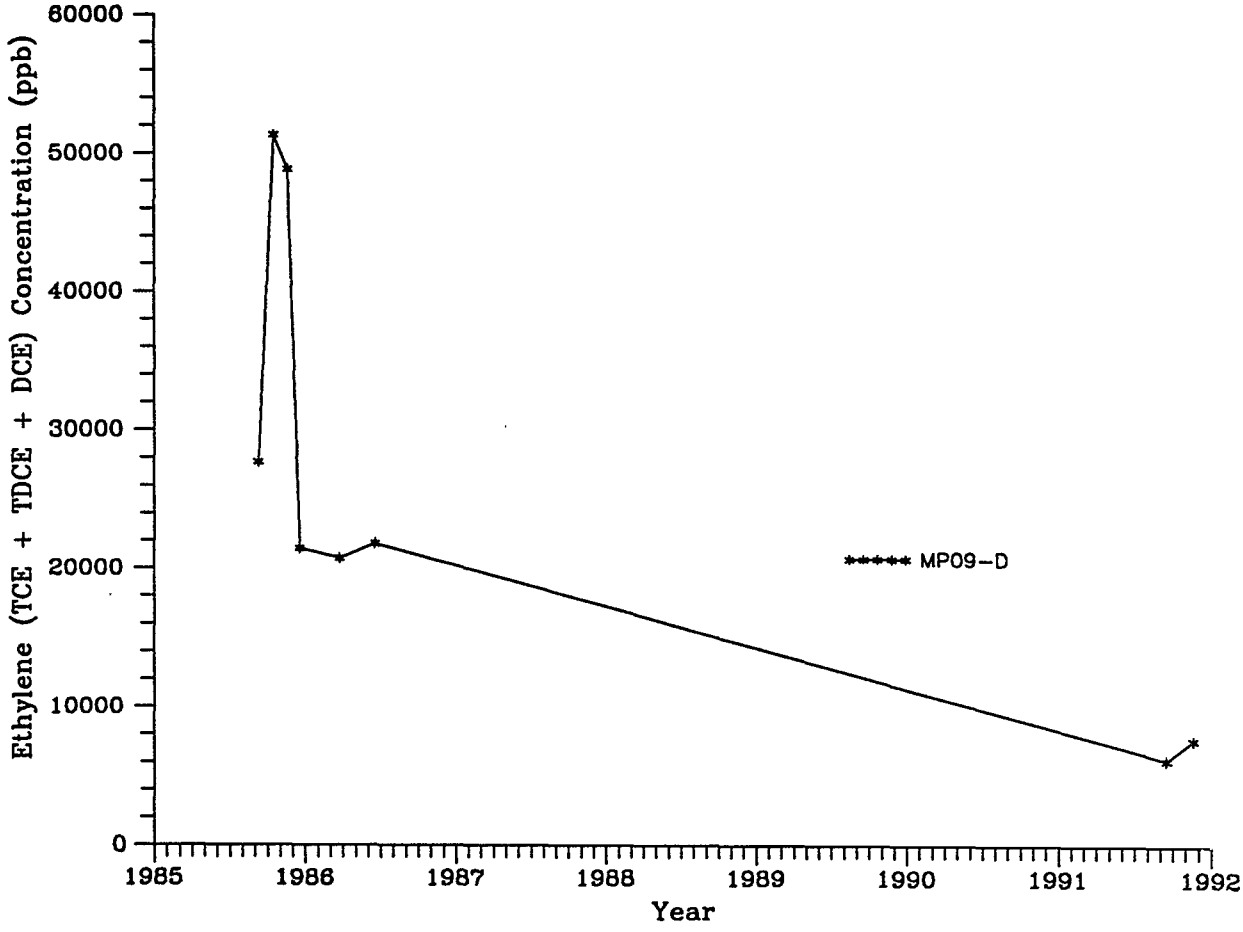
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 09-C

Figure E6.63

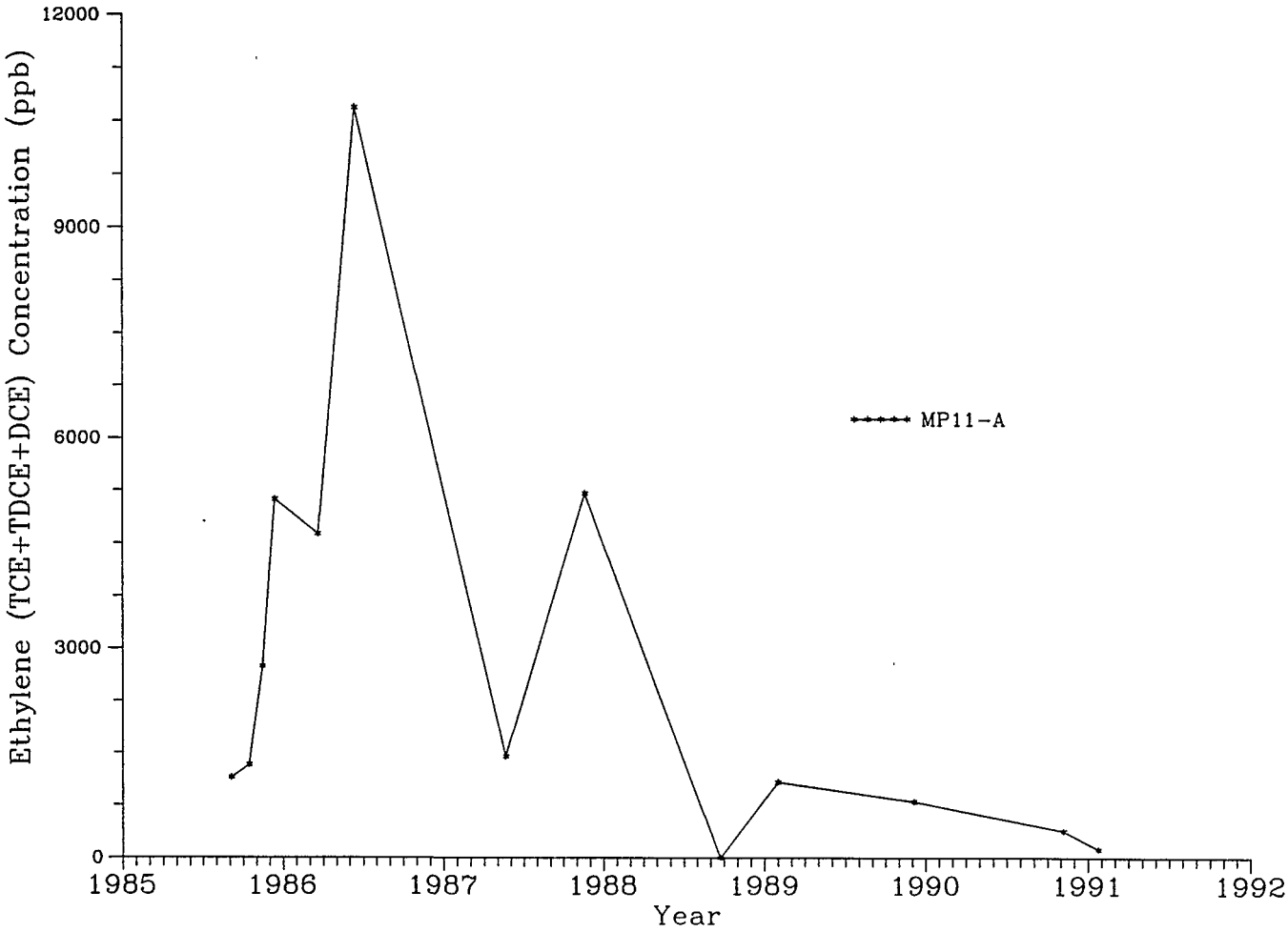
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 09-D

Figure E6.64

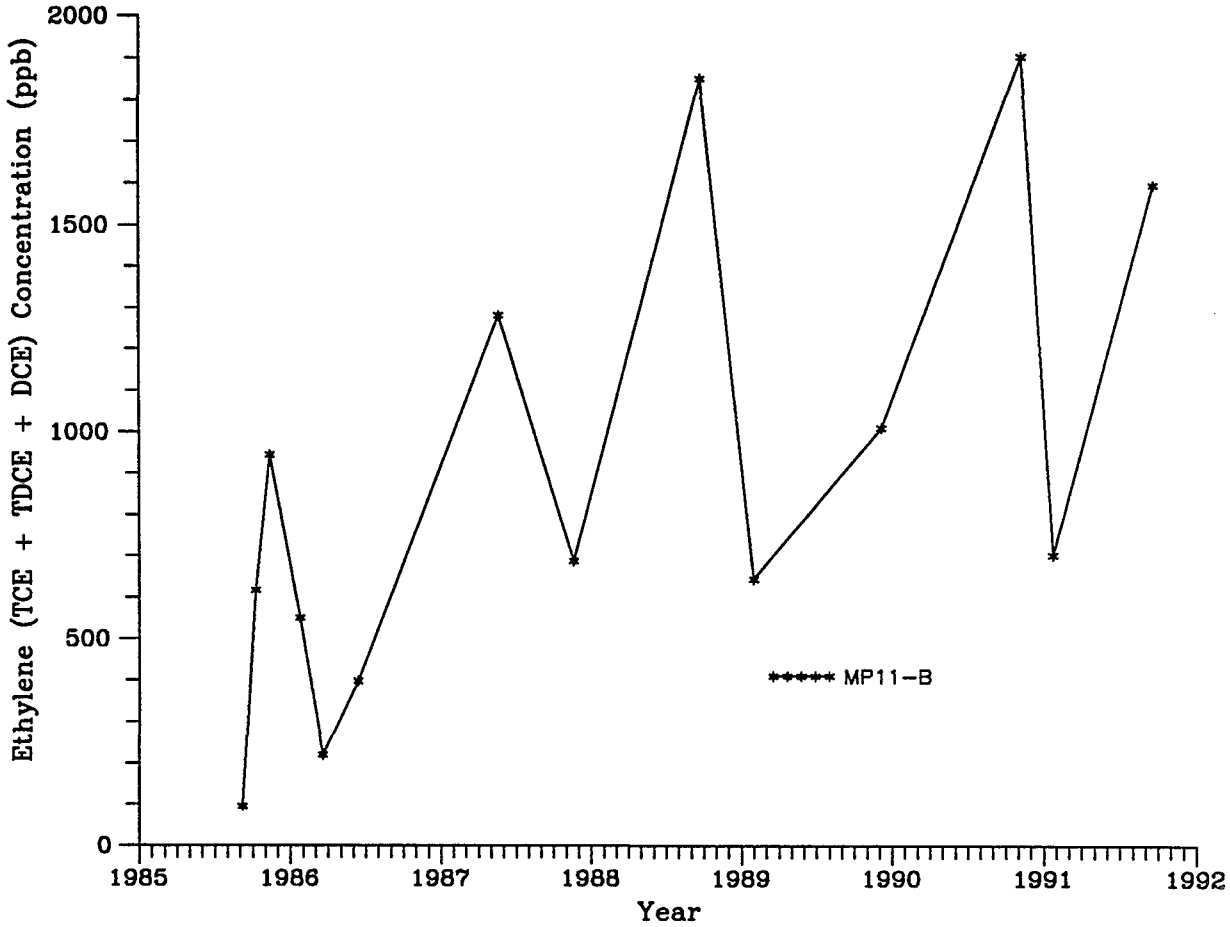
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 11-A

Figure E6.65

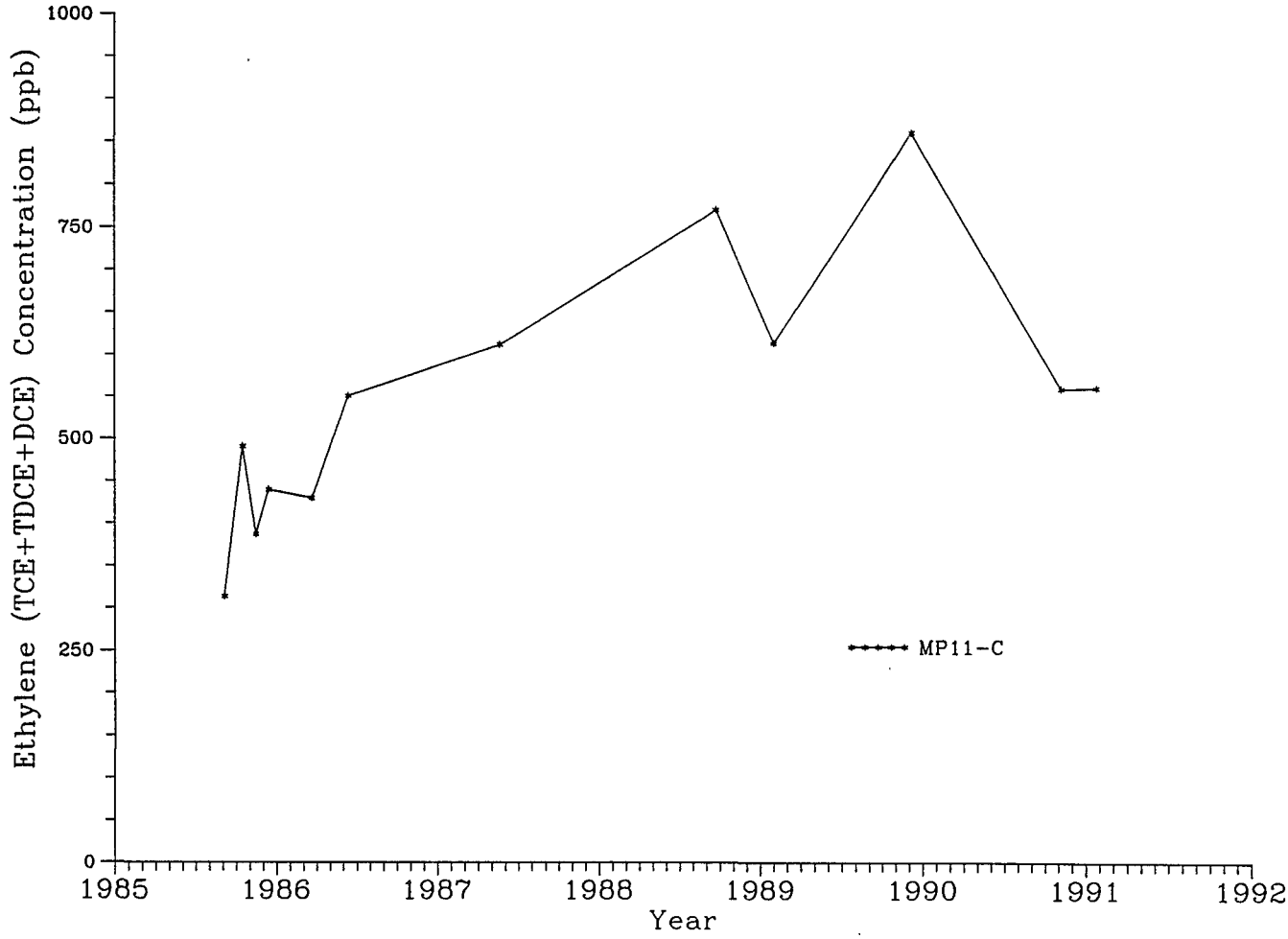
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 11-B

Figure E6.66

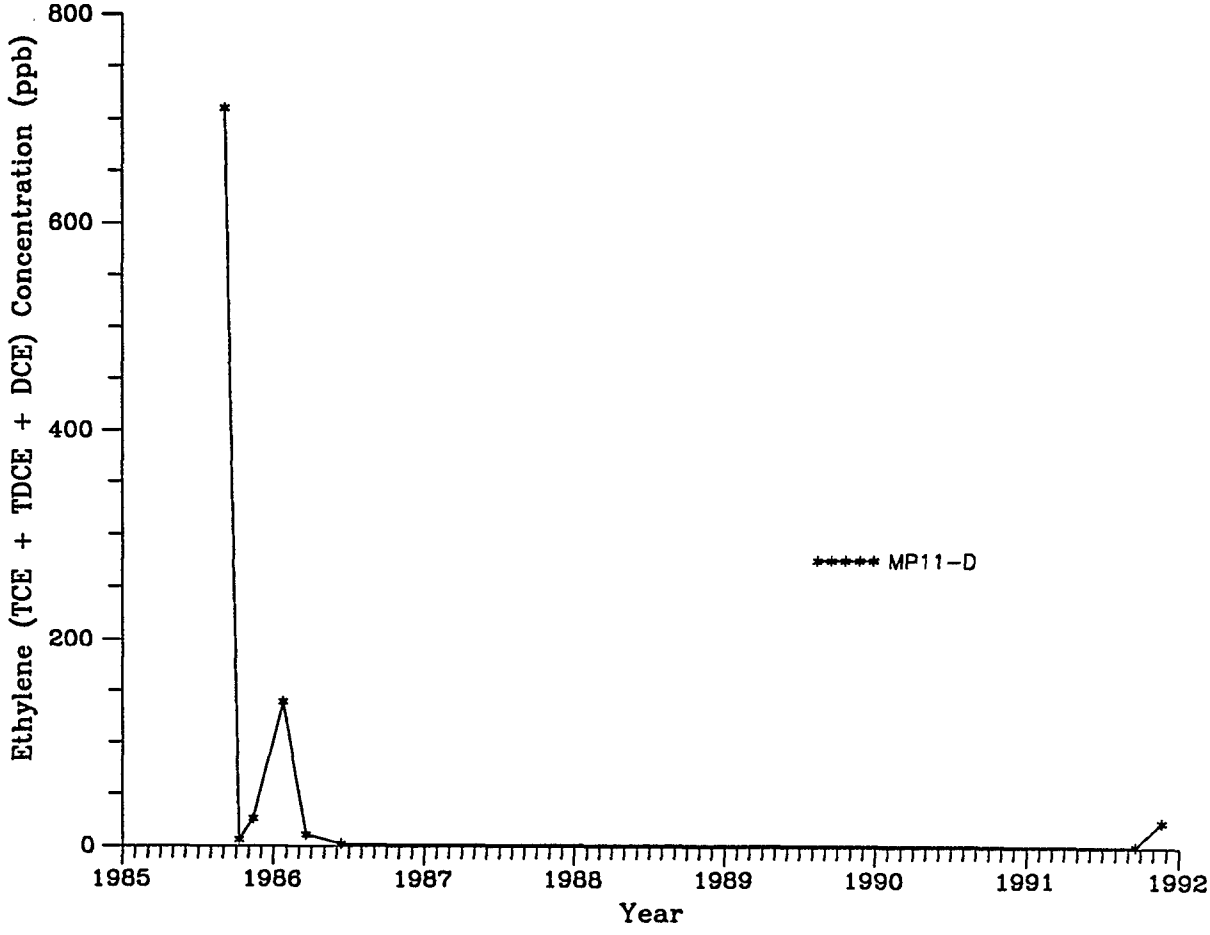
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 11-C

Figure E6.67

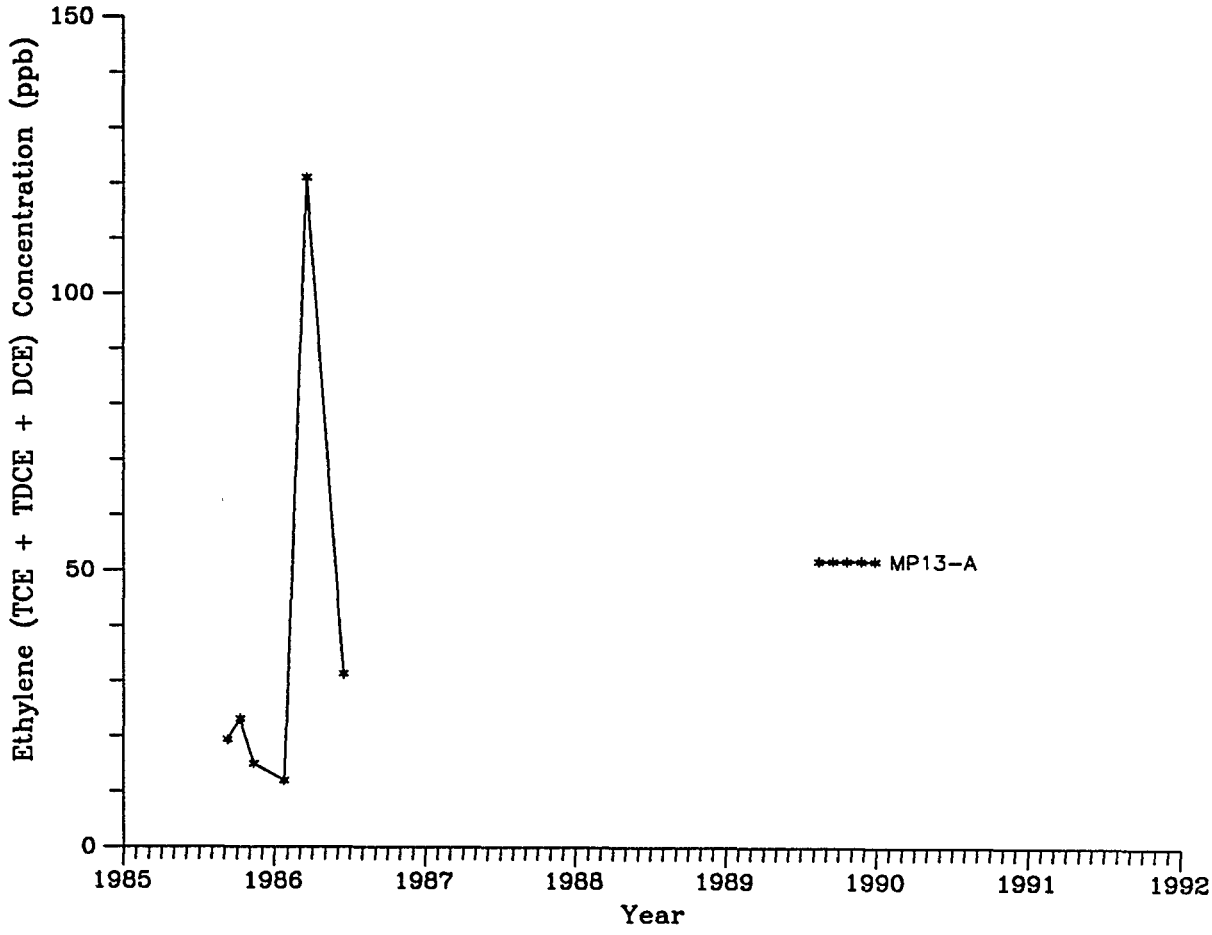
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 11-D

Figure E6.68

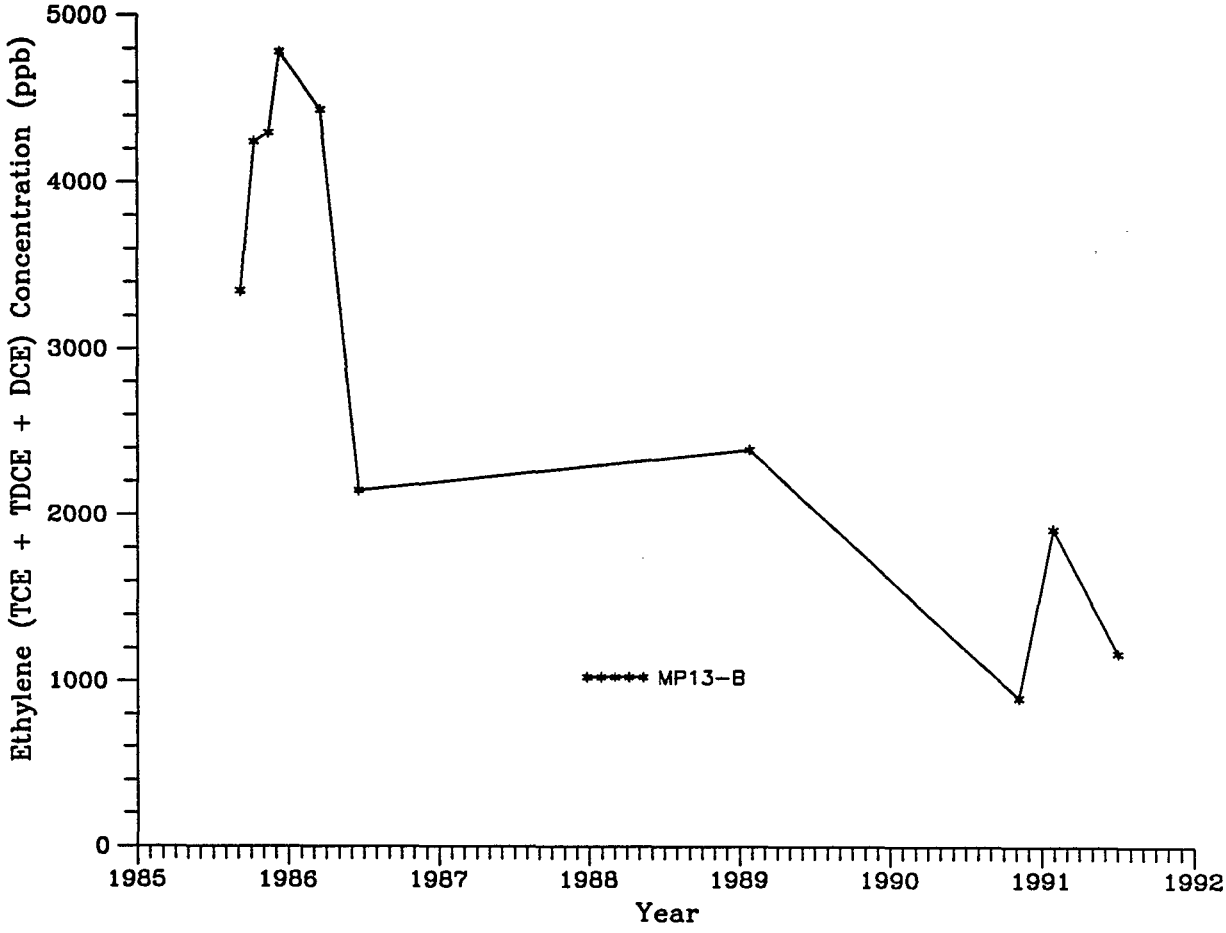
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 13-A

Figure E6.69

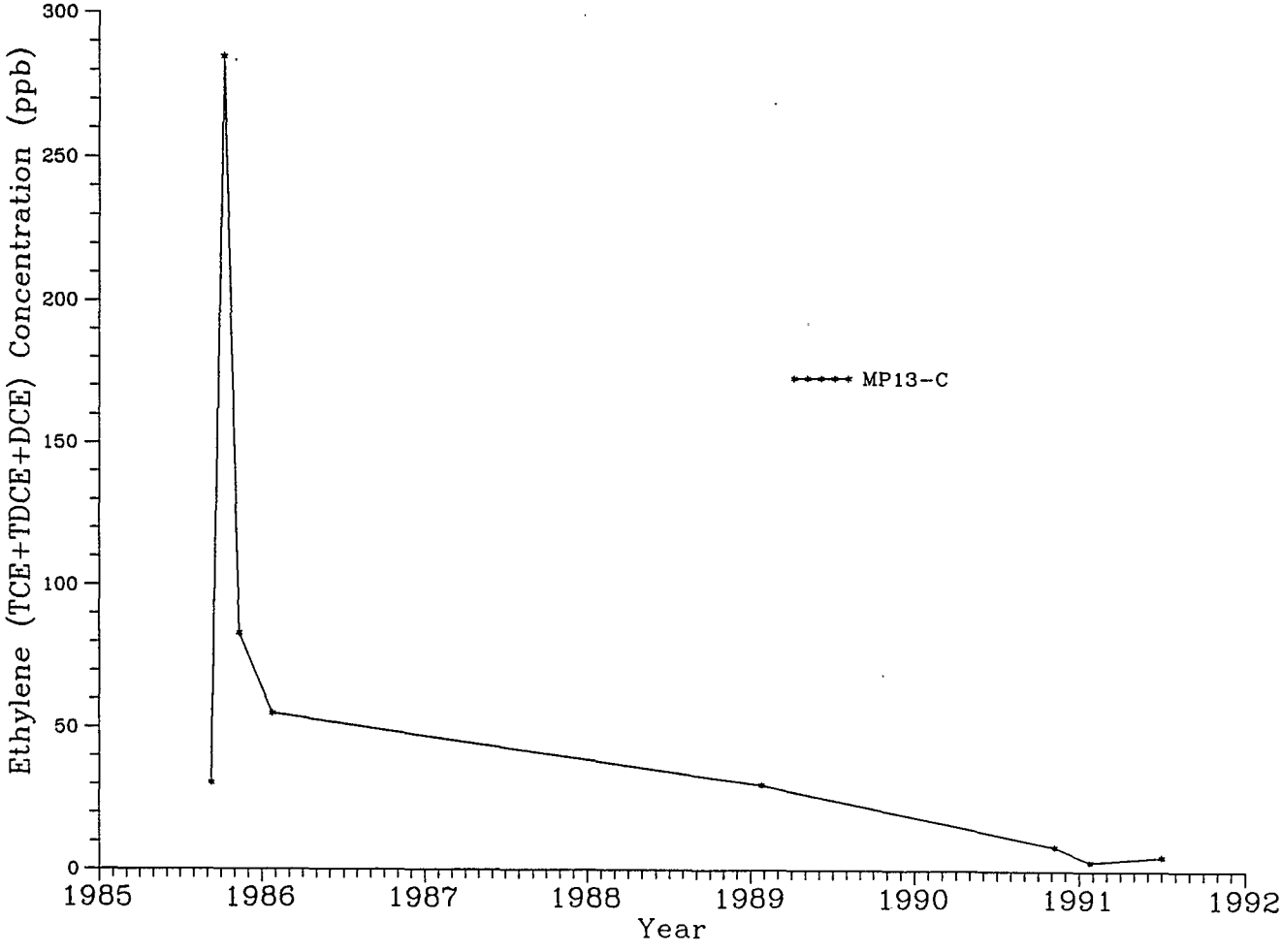
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 13-B

Figure E6.70

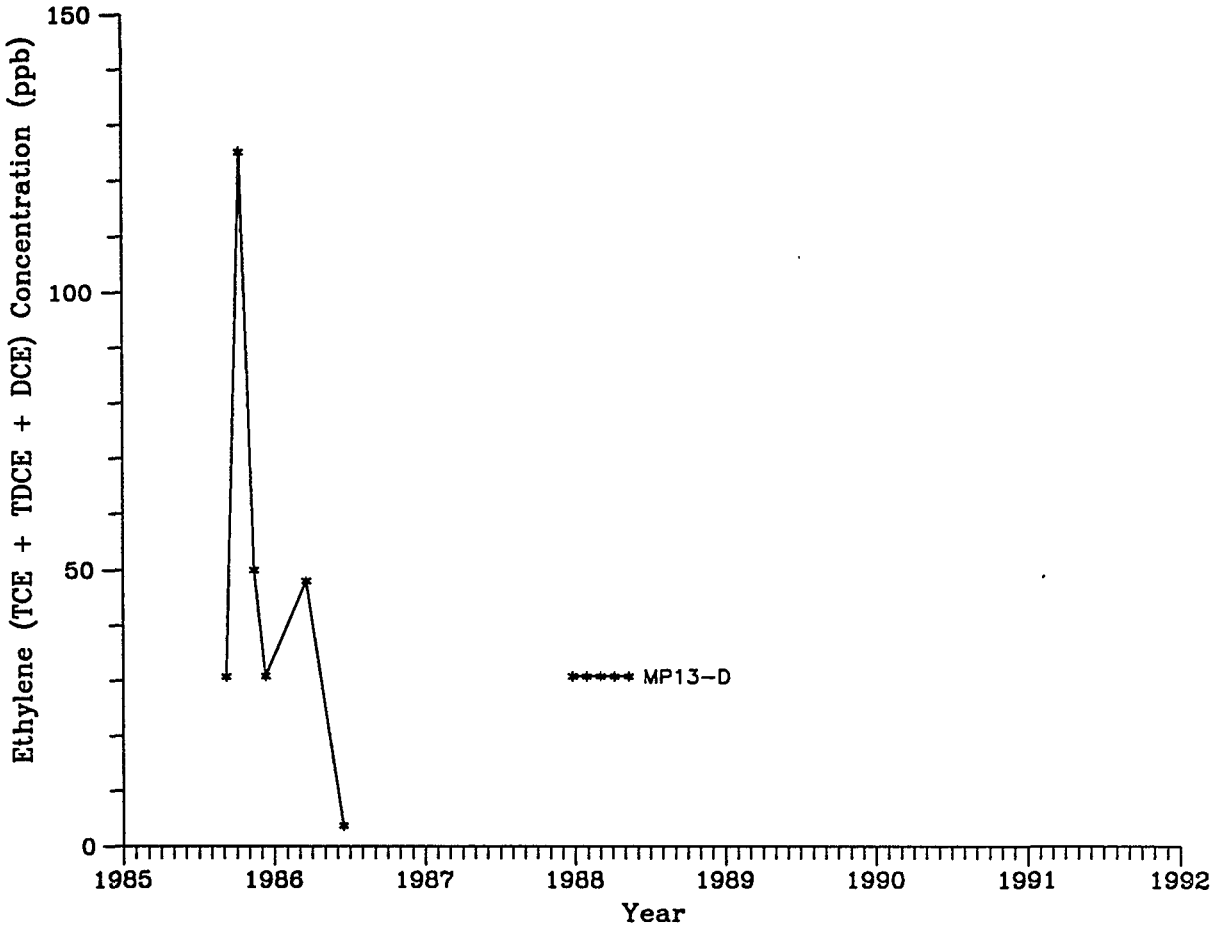
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 13-C

Figure E6.71

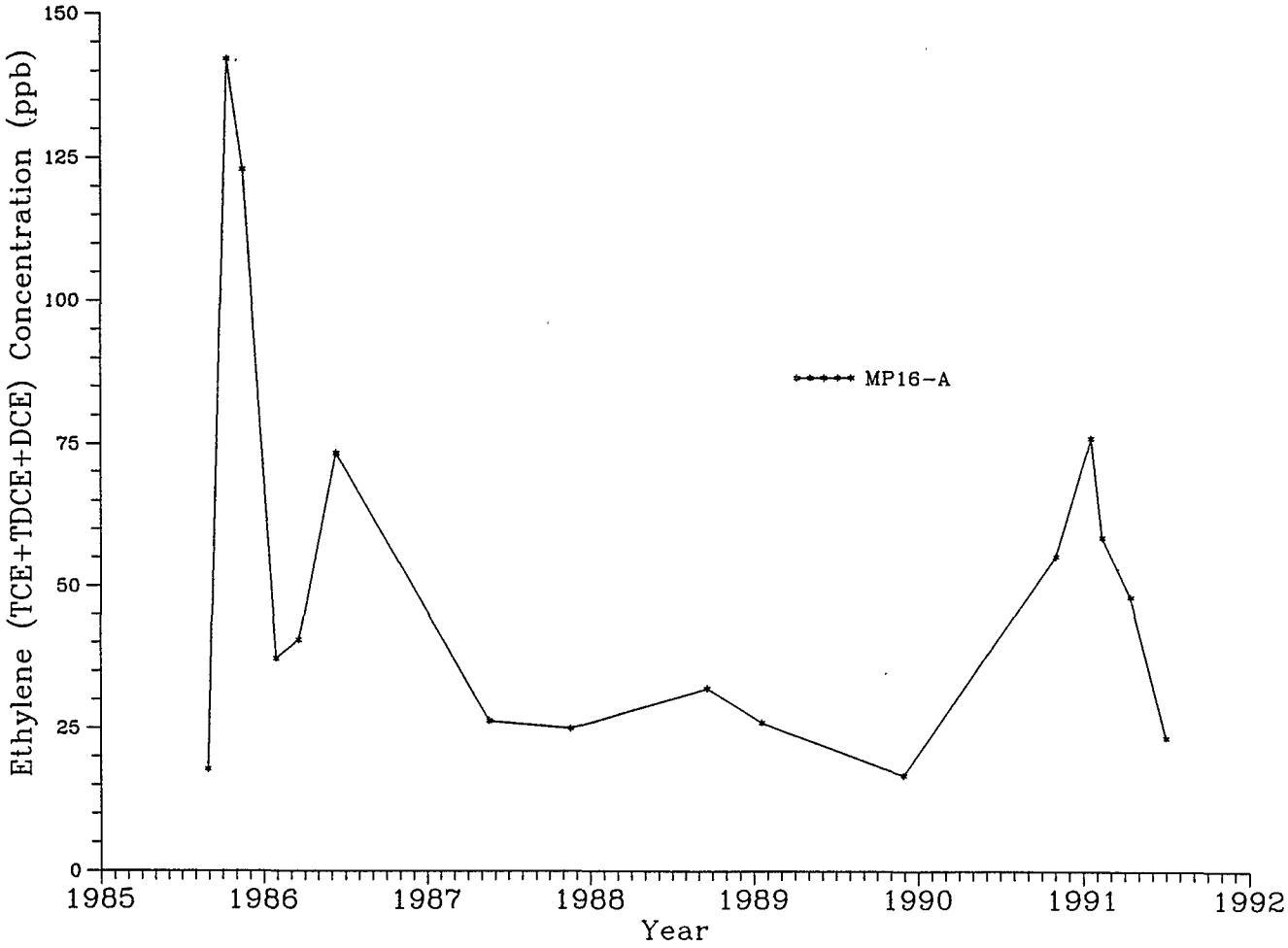
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 13-D

Figure E6.72

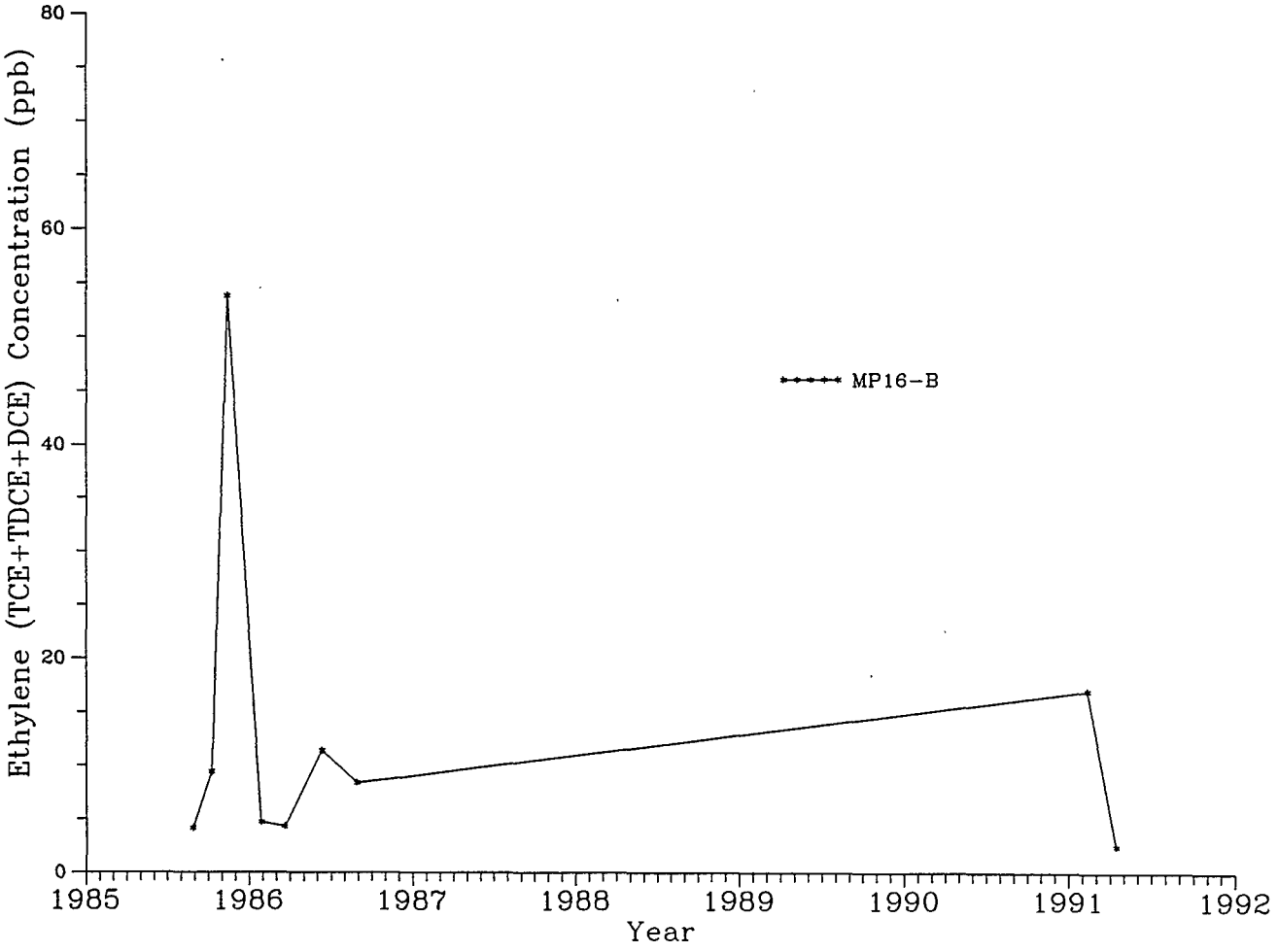
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 16-A

Figure E6.73

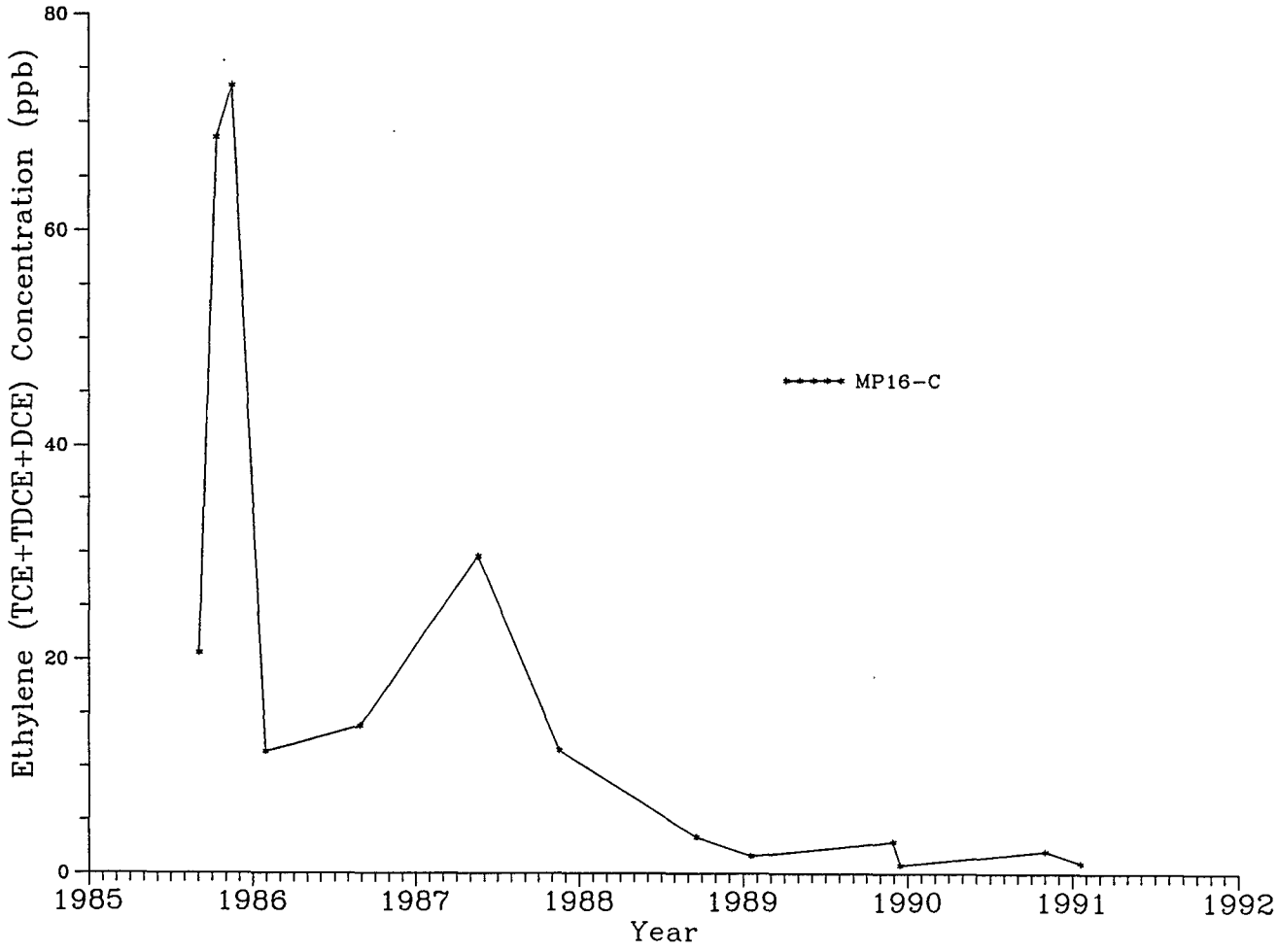
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 16-B

Figure E6.74

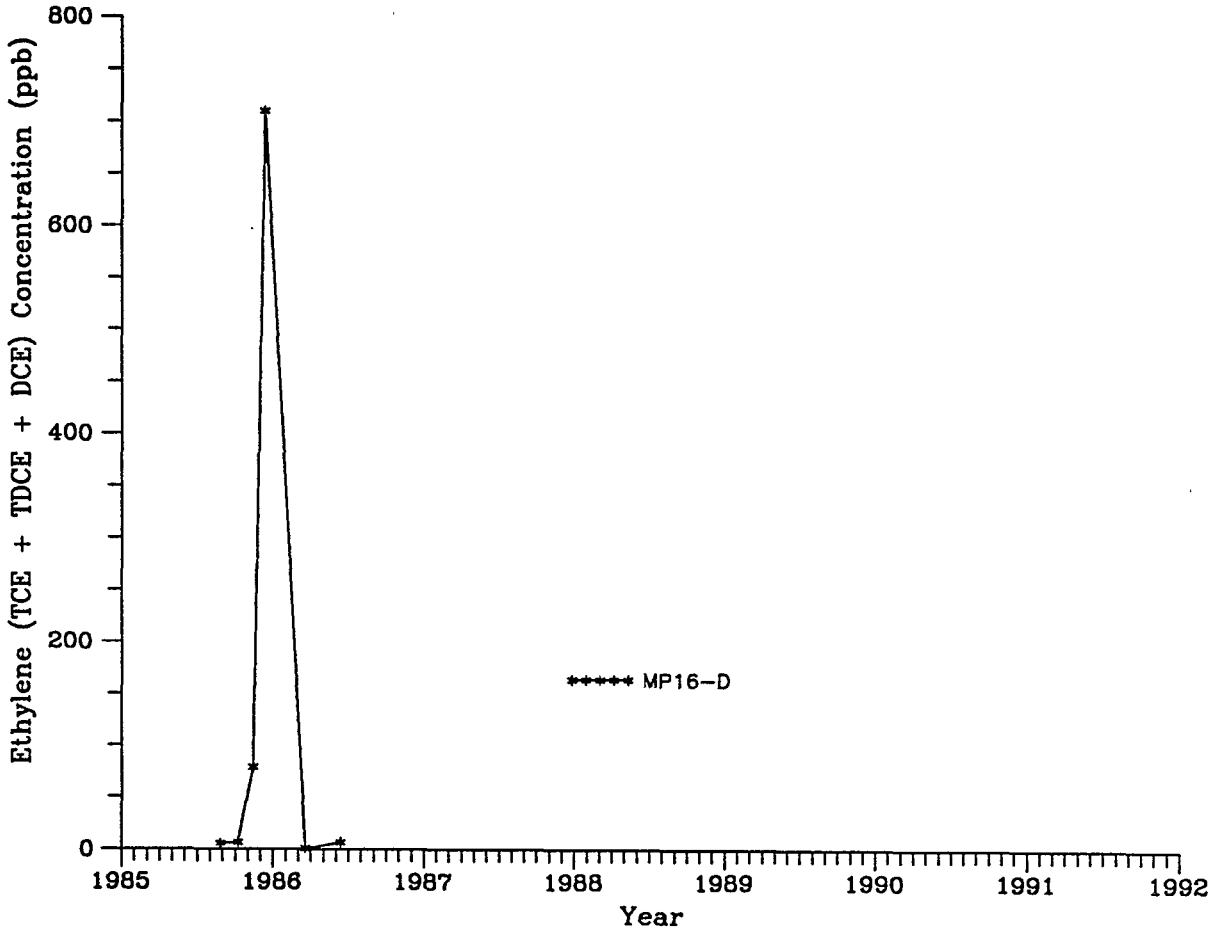
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 16-C

Figure E6.75

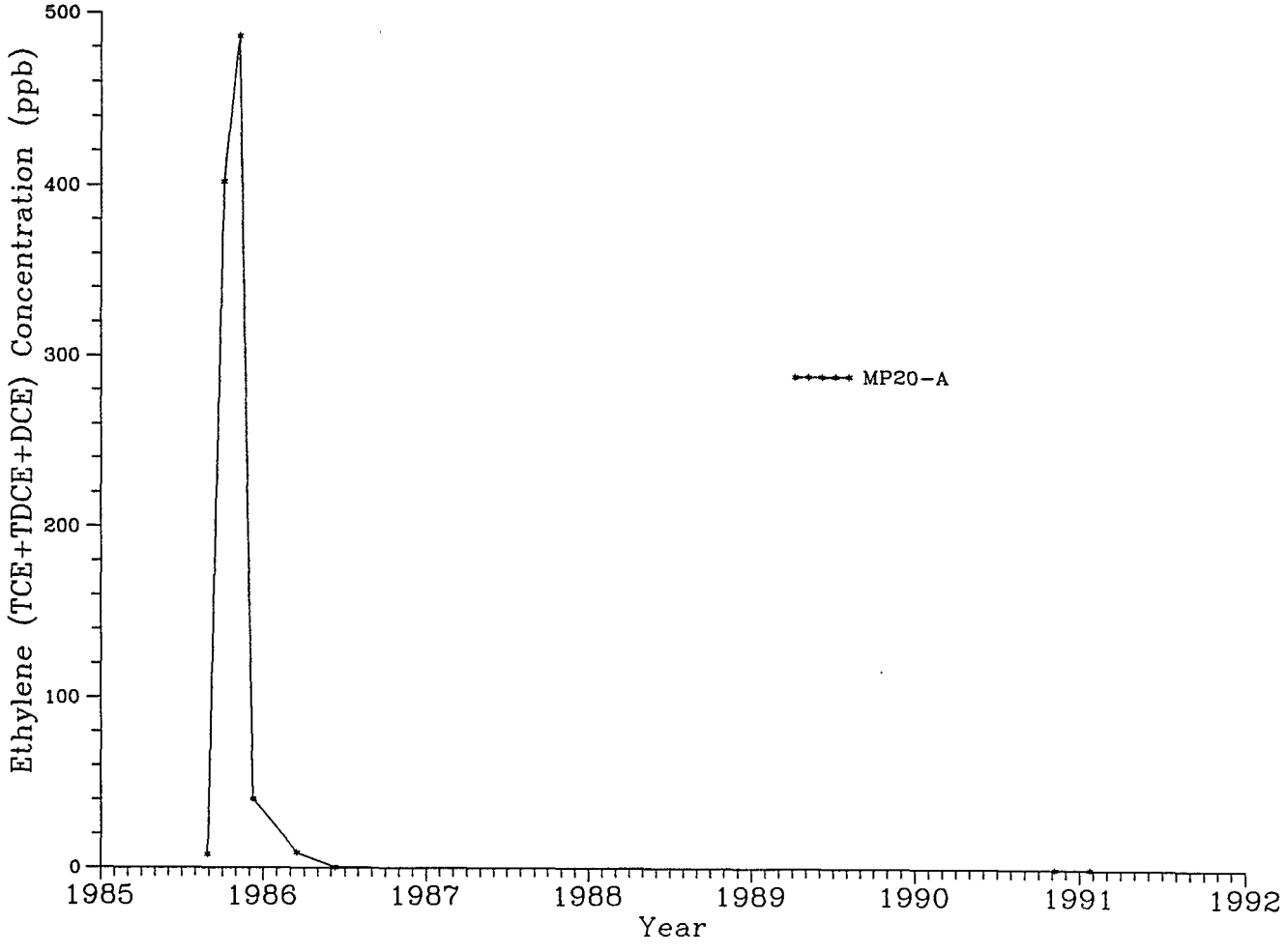
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 16-D

Figure E6.76

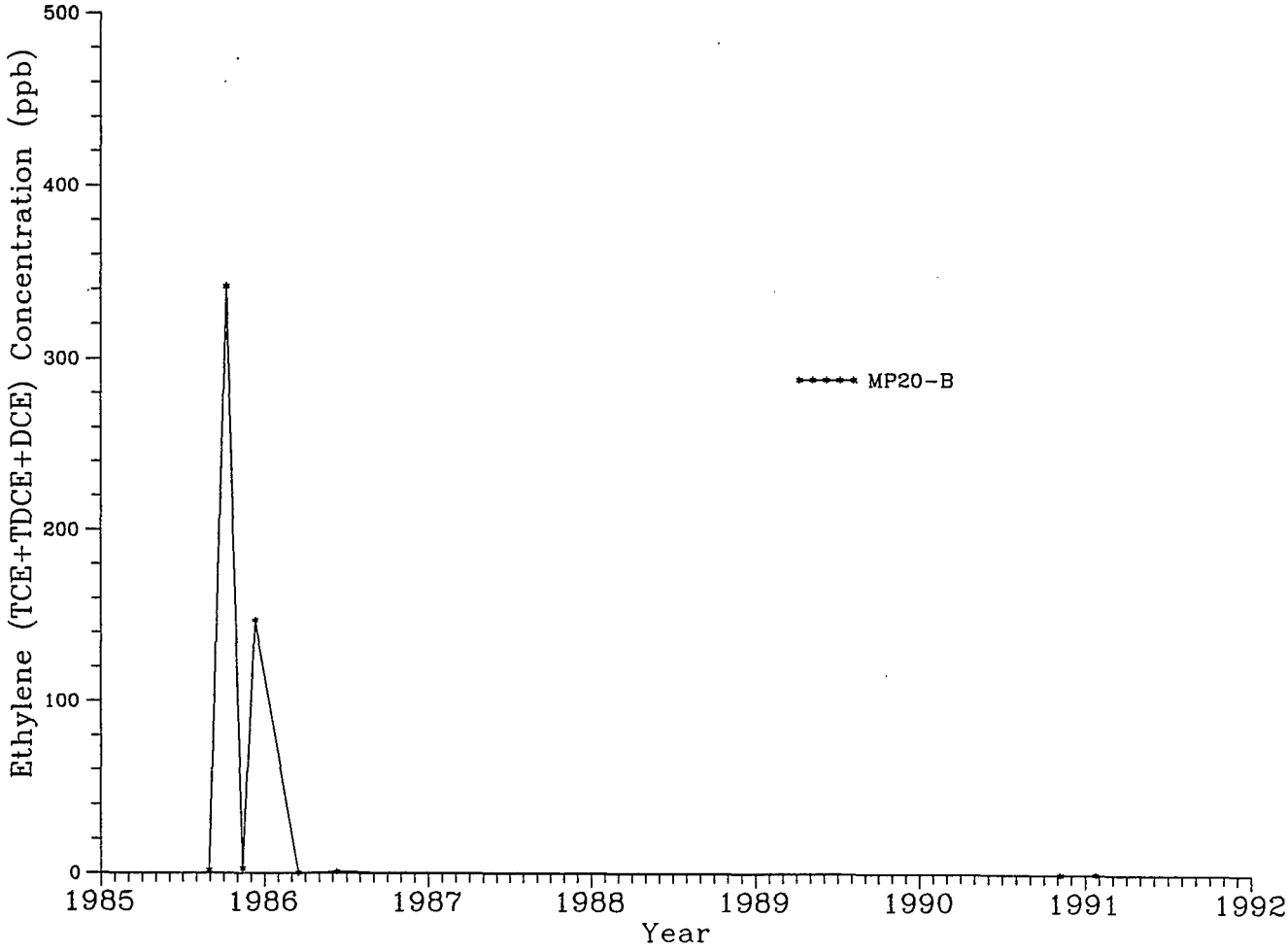
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 20-A

Figure E6.77

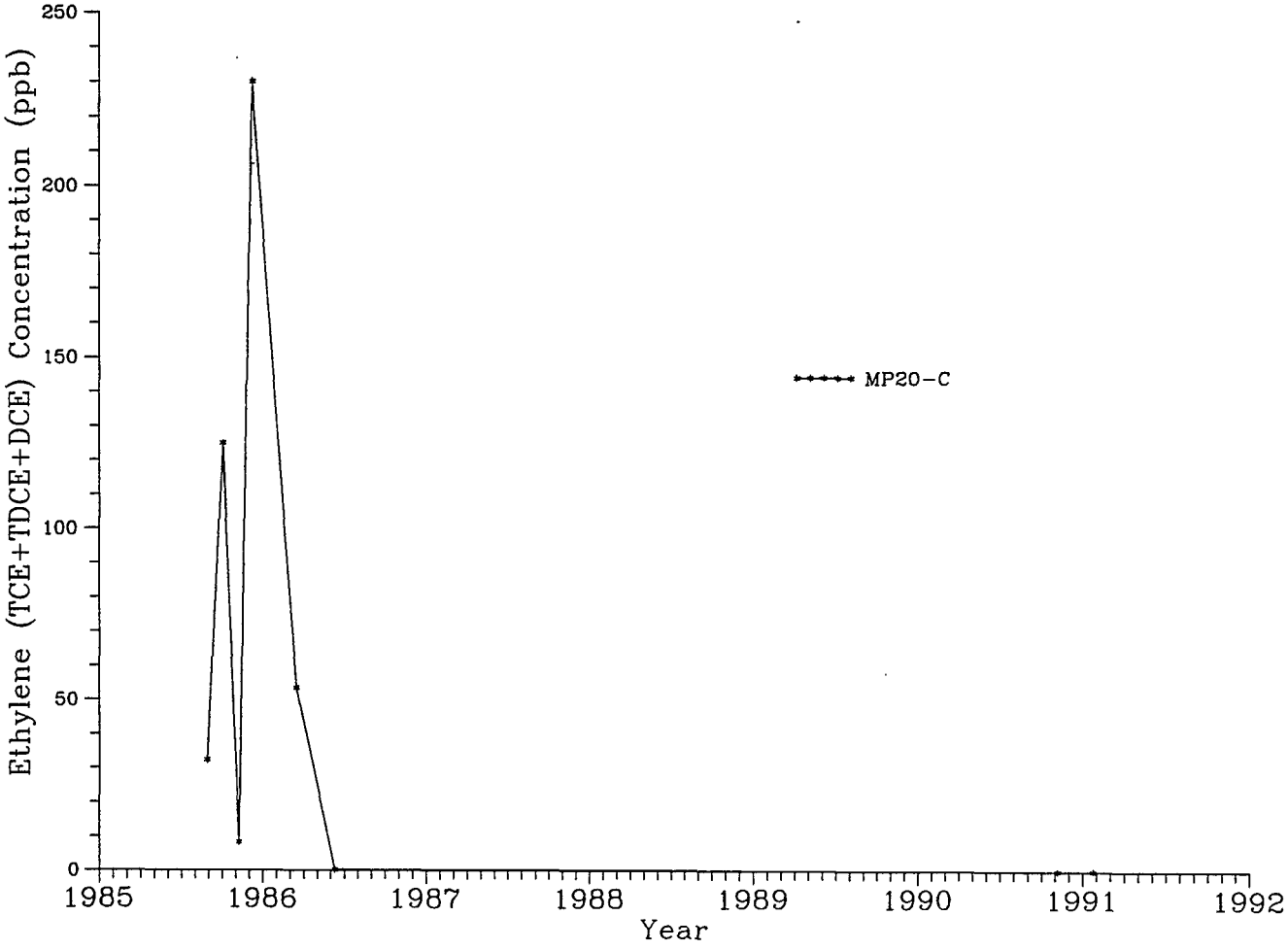
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 20-B

Figure E6.78

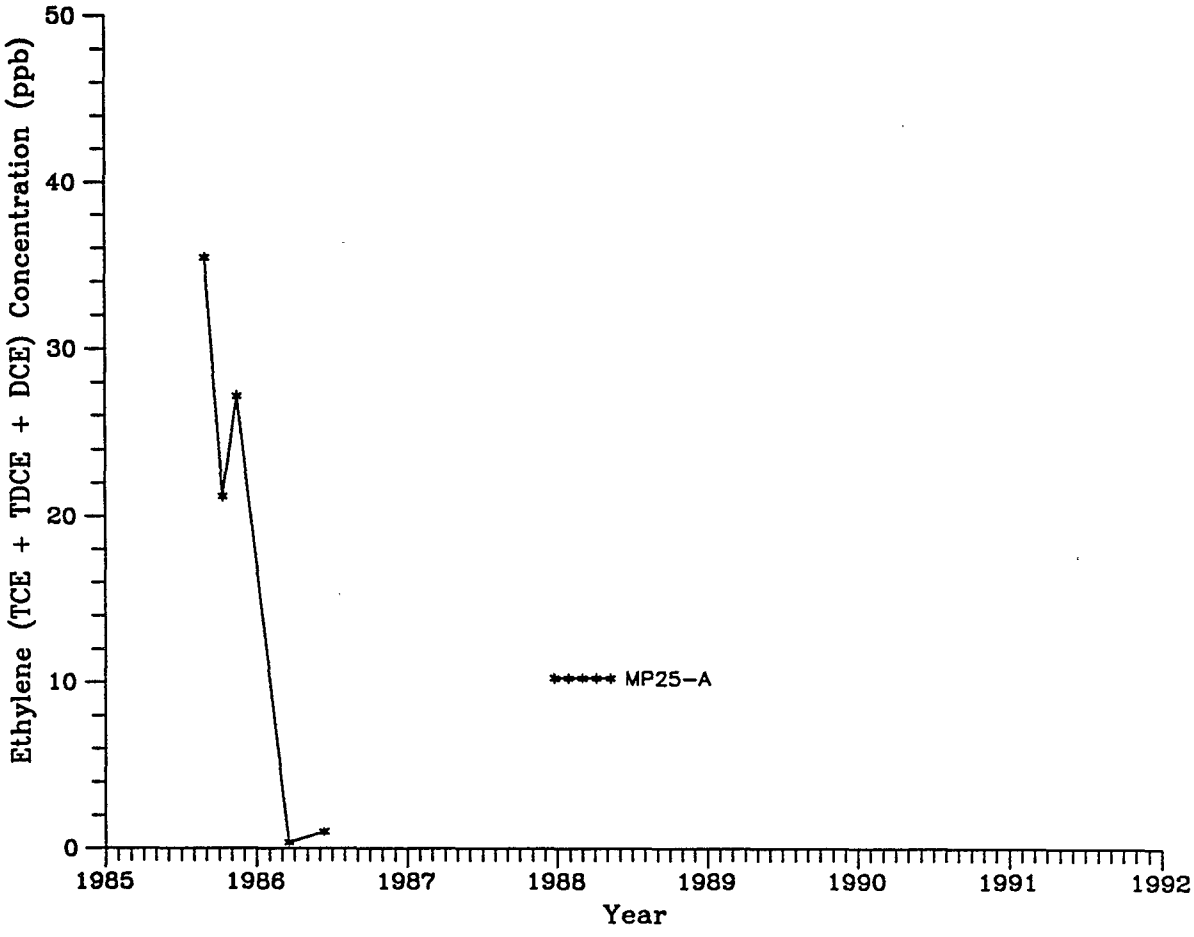
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 20-C

Figure E6.79

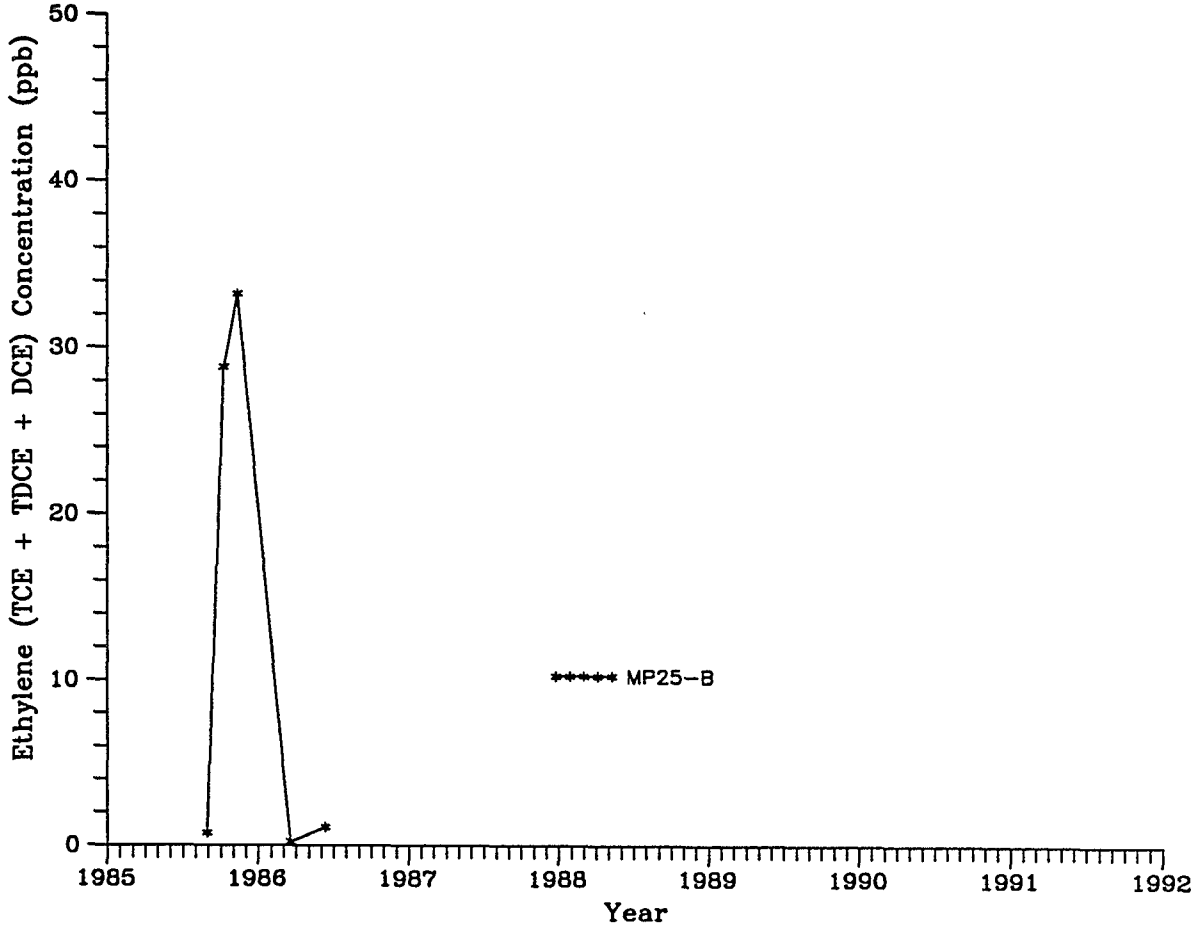
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 25-A

Figure E6.80

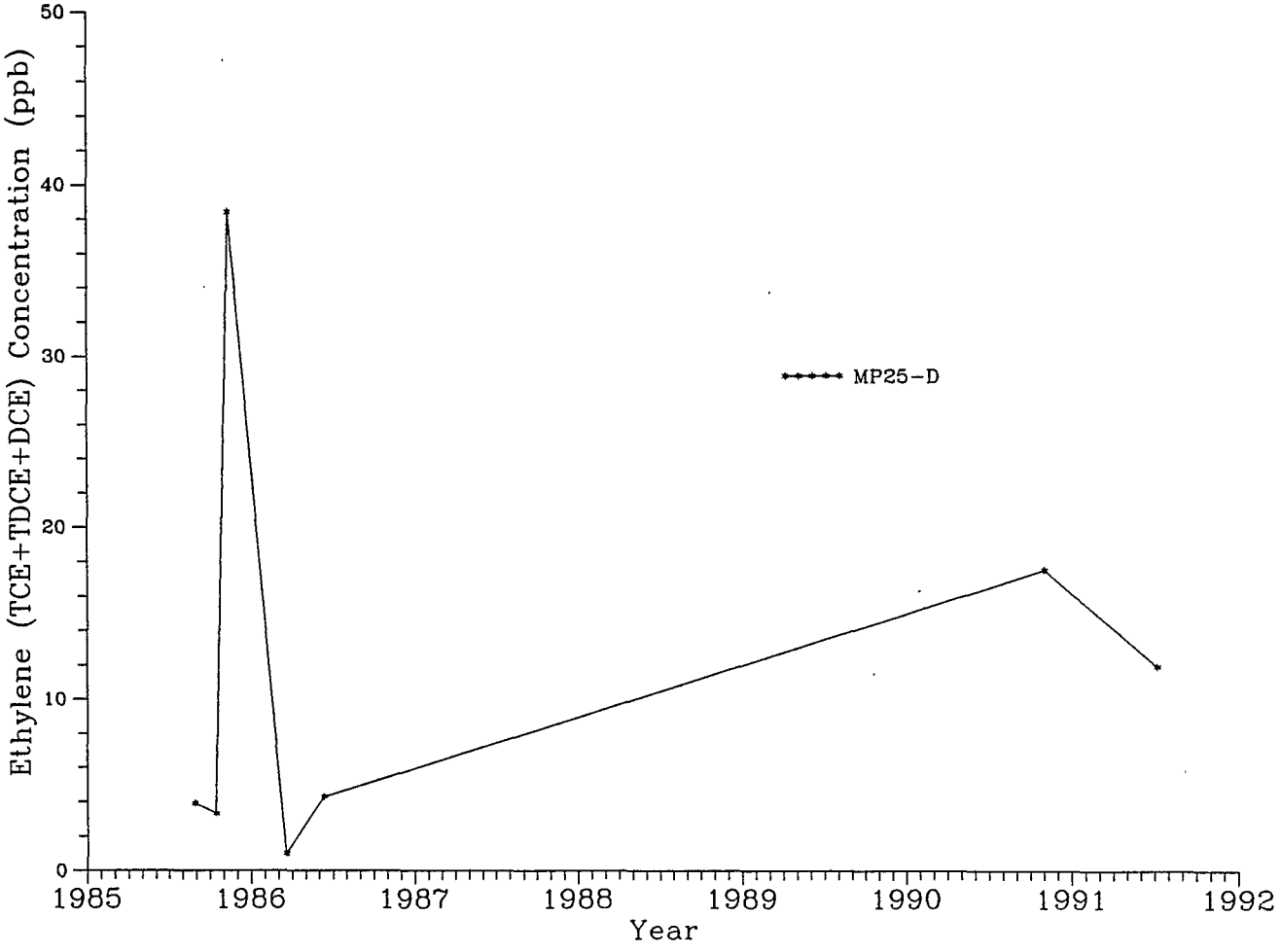
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 25-B

Figure E6.81

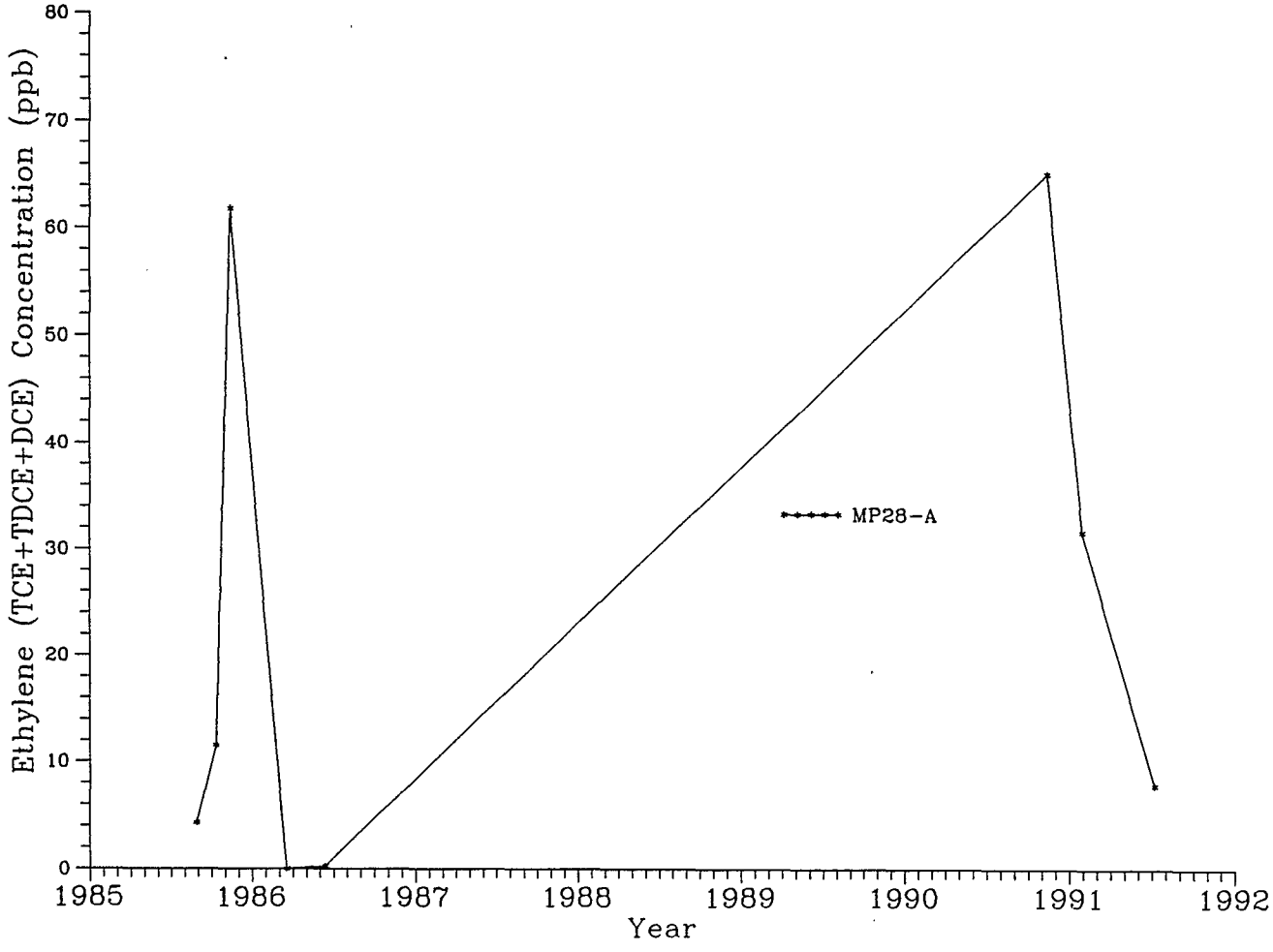
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 25-D

Figure E6.82

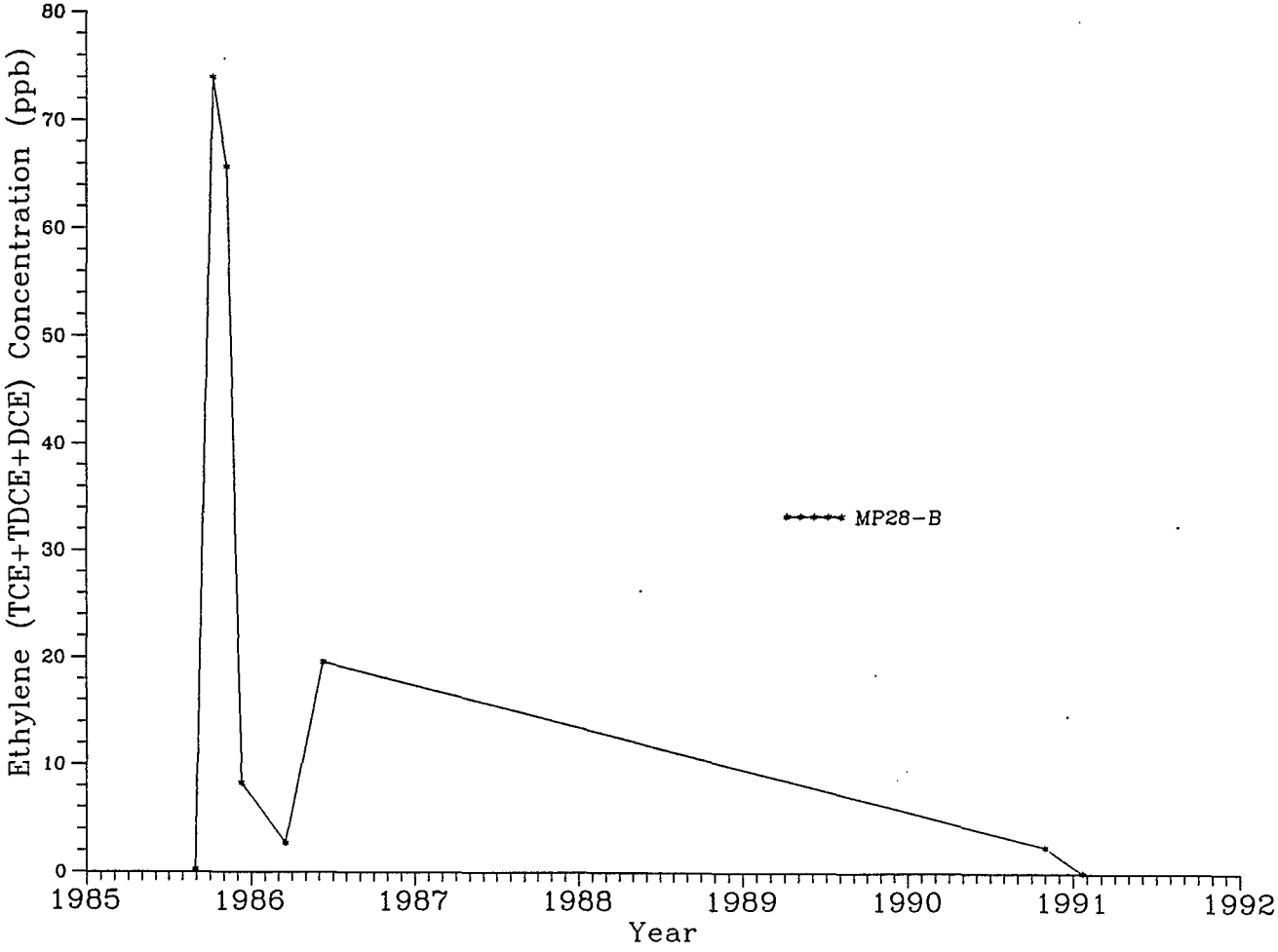
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 28-A

Figure E6.83

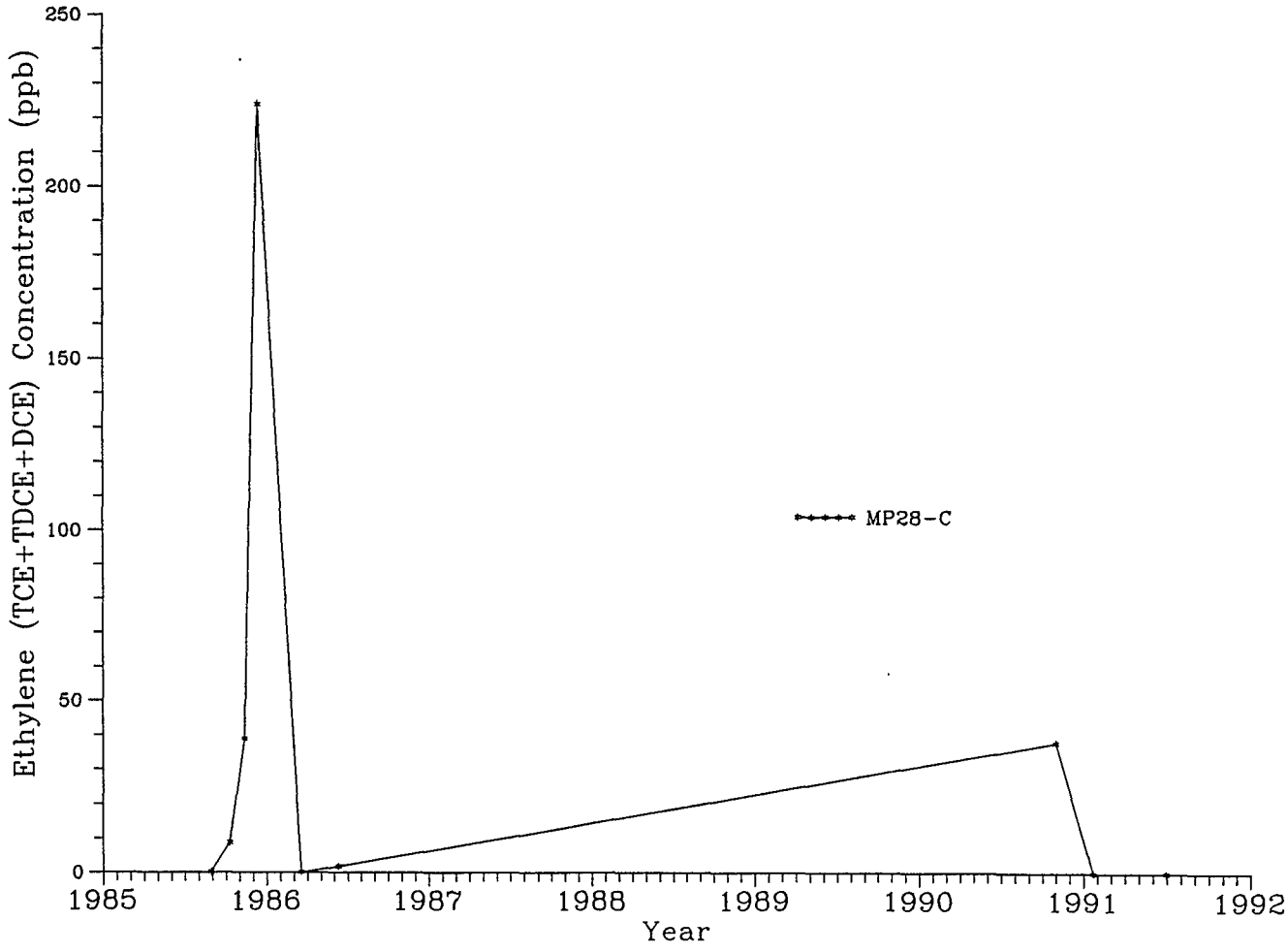
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 28-B

Figure E6.84

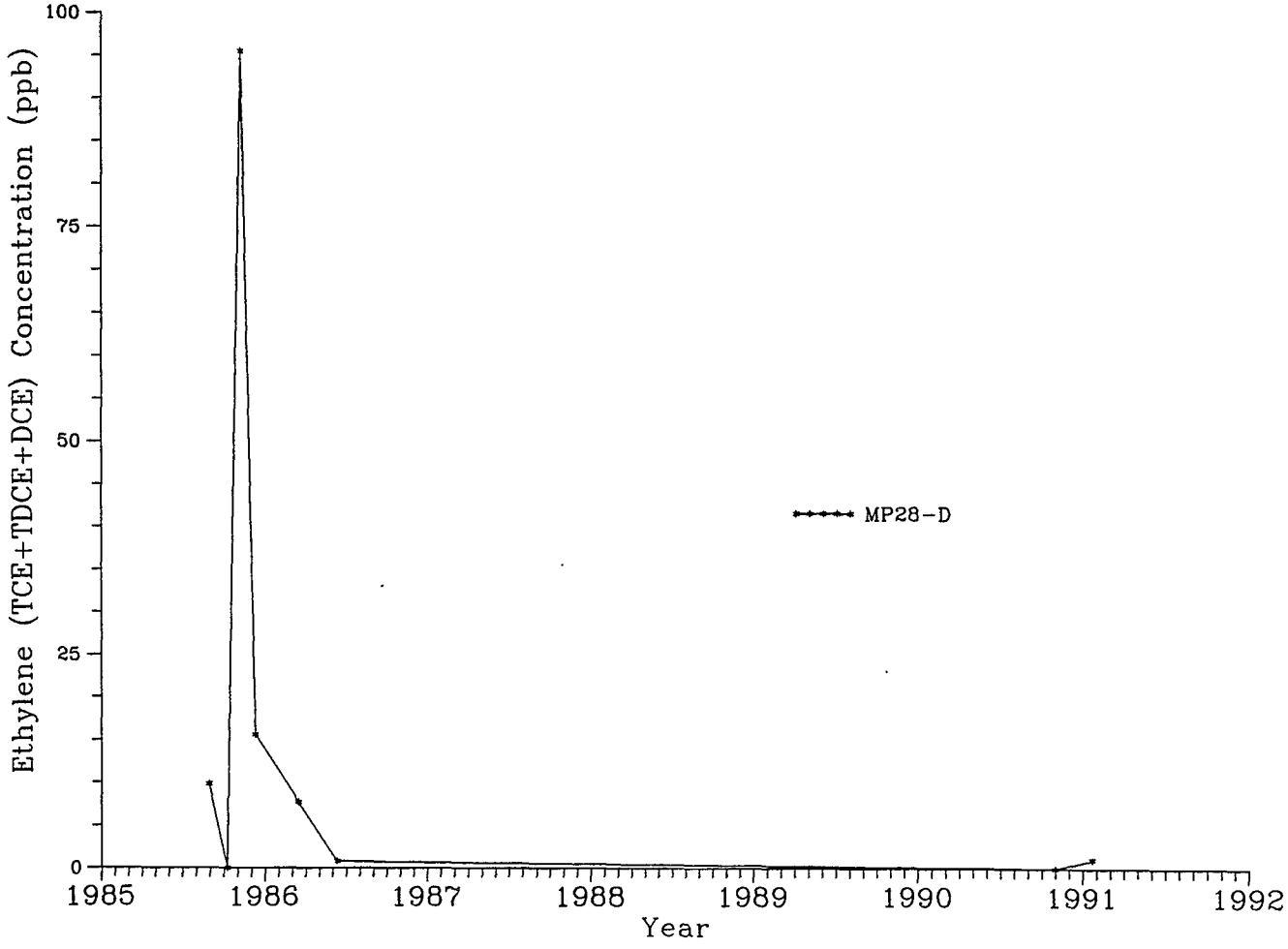
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 28-C

Figure E6.85

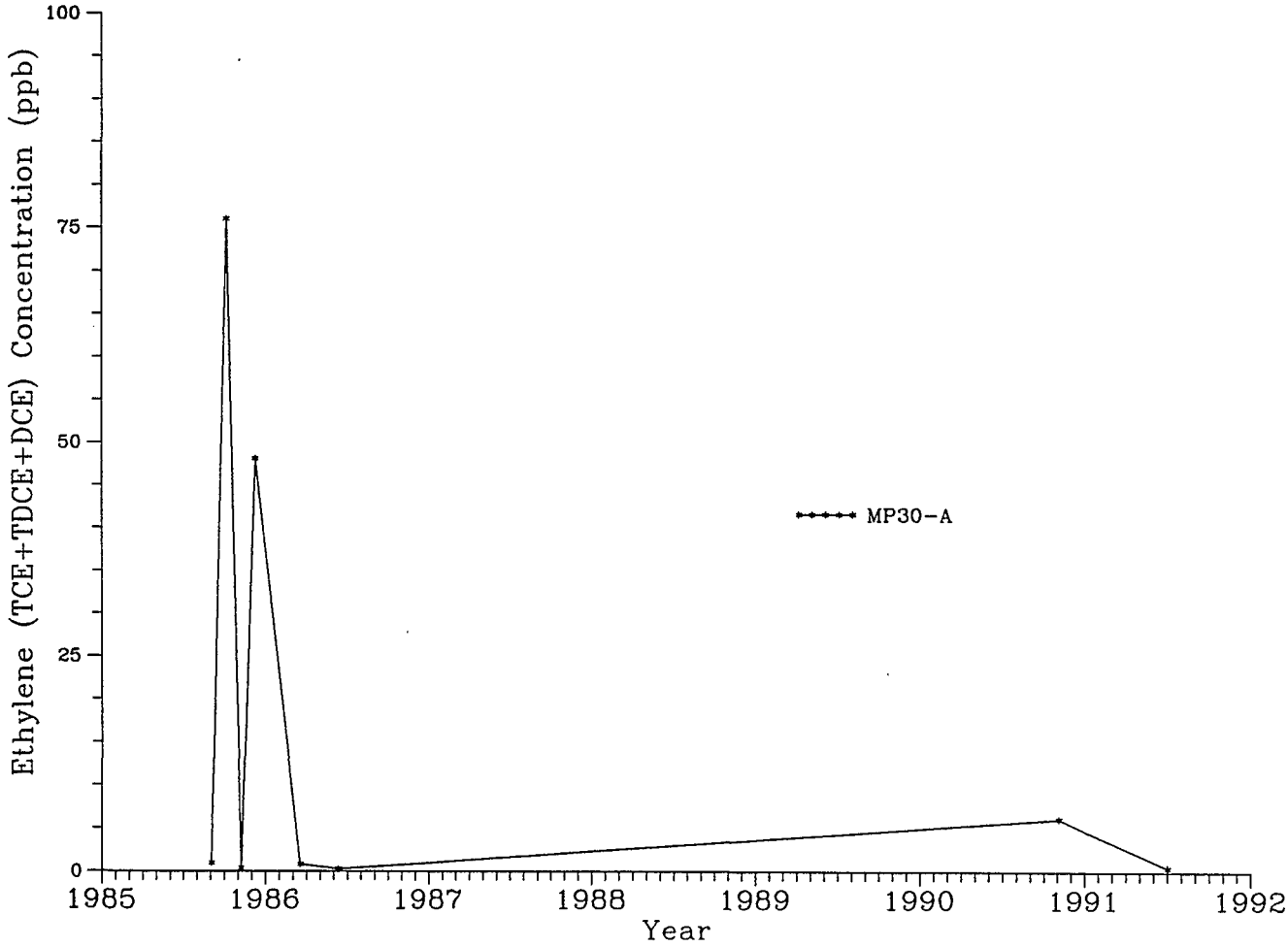
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 28-D

Figure E6.86

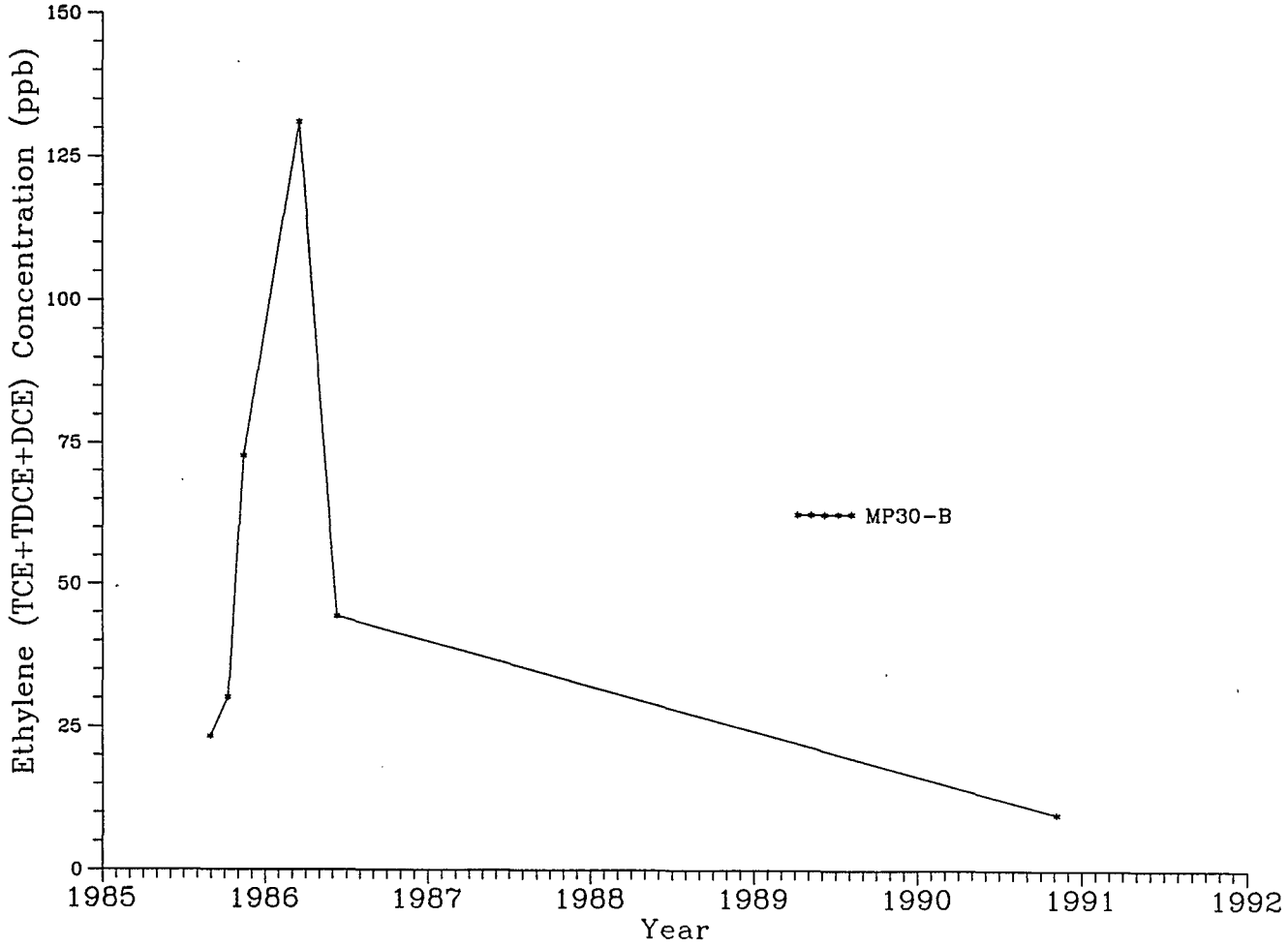
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 30-A

Figure E6.87

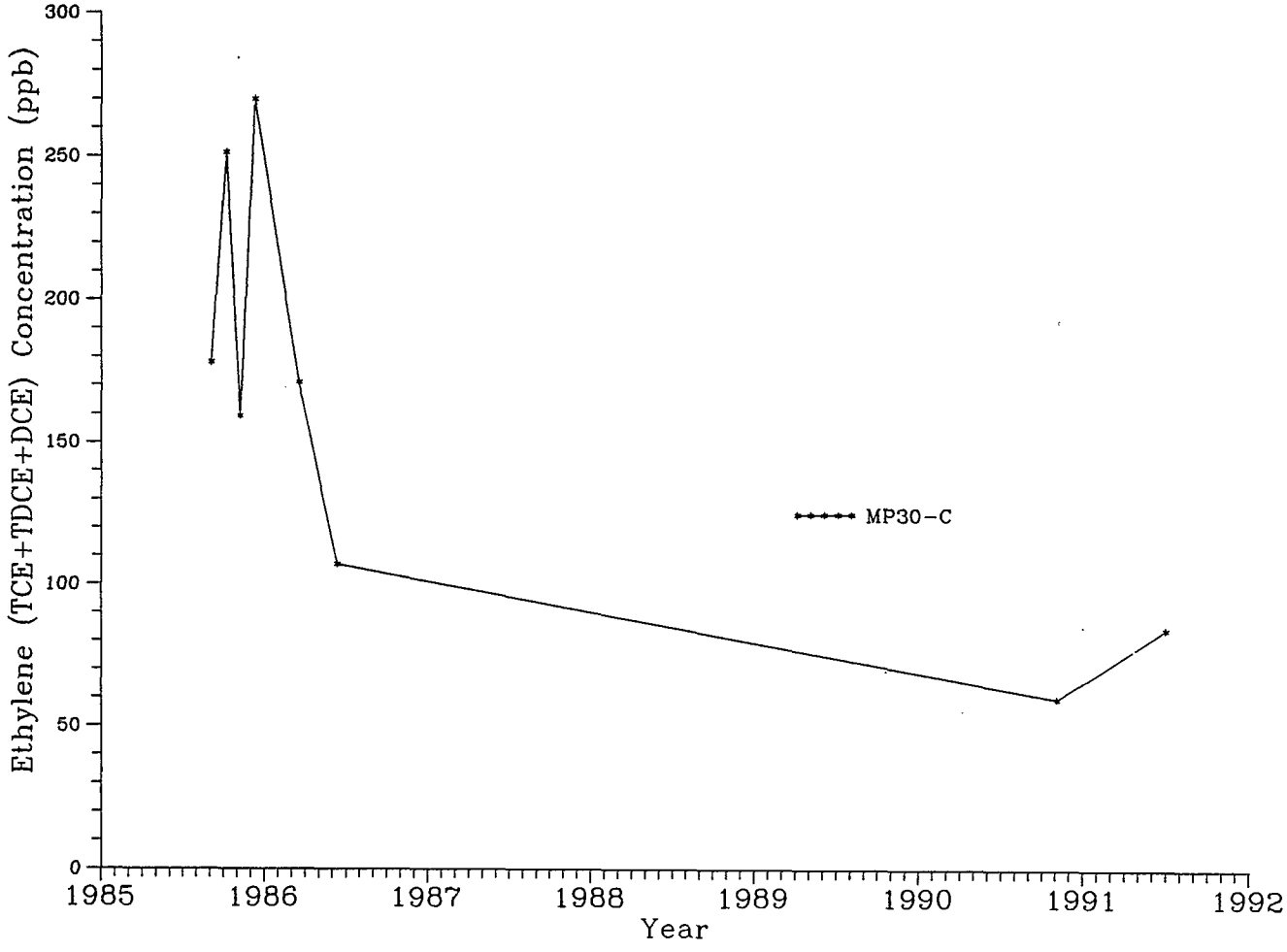
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 30-B

Figure E6.88

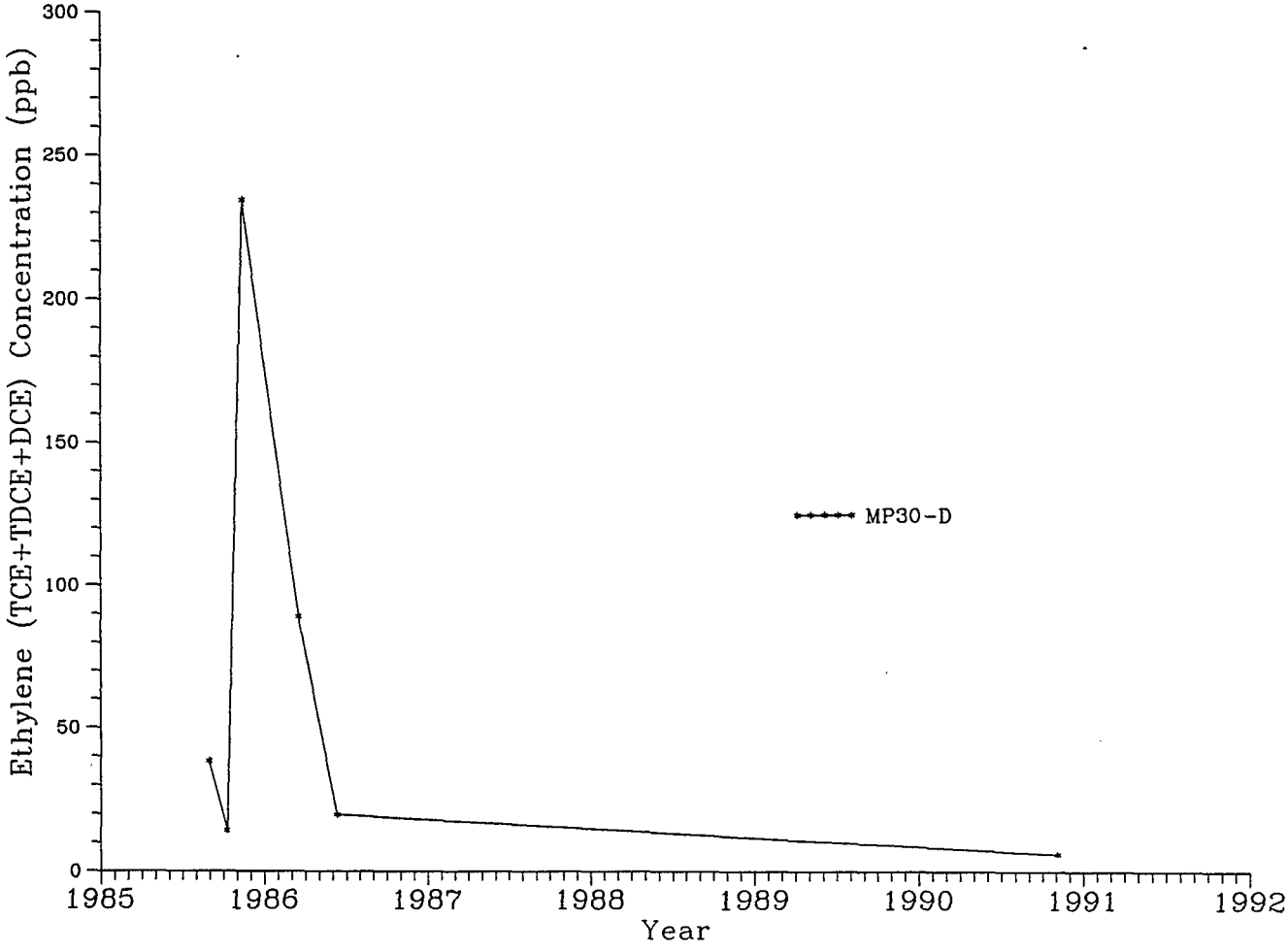
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 30-C

Figure E6.89

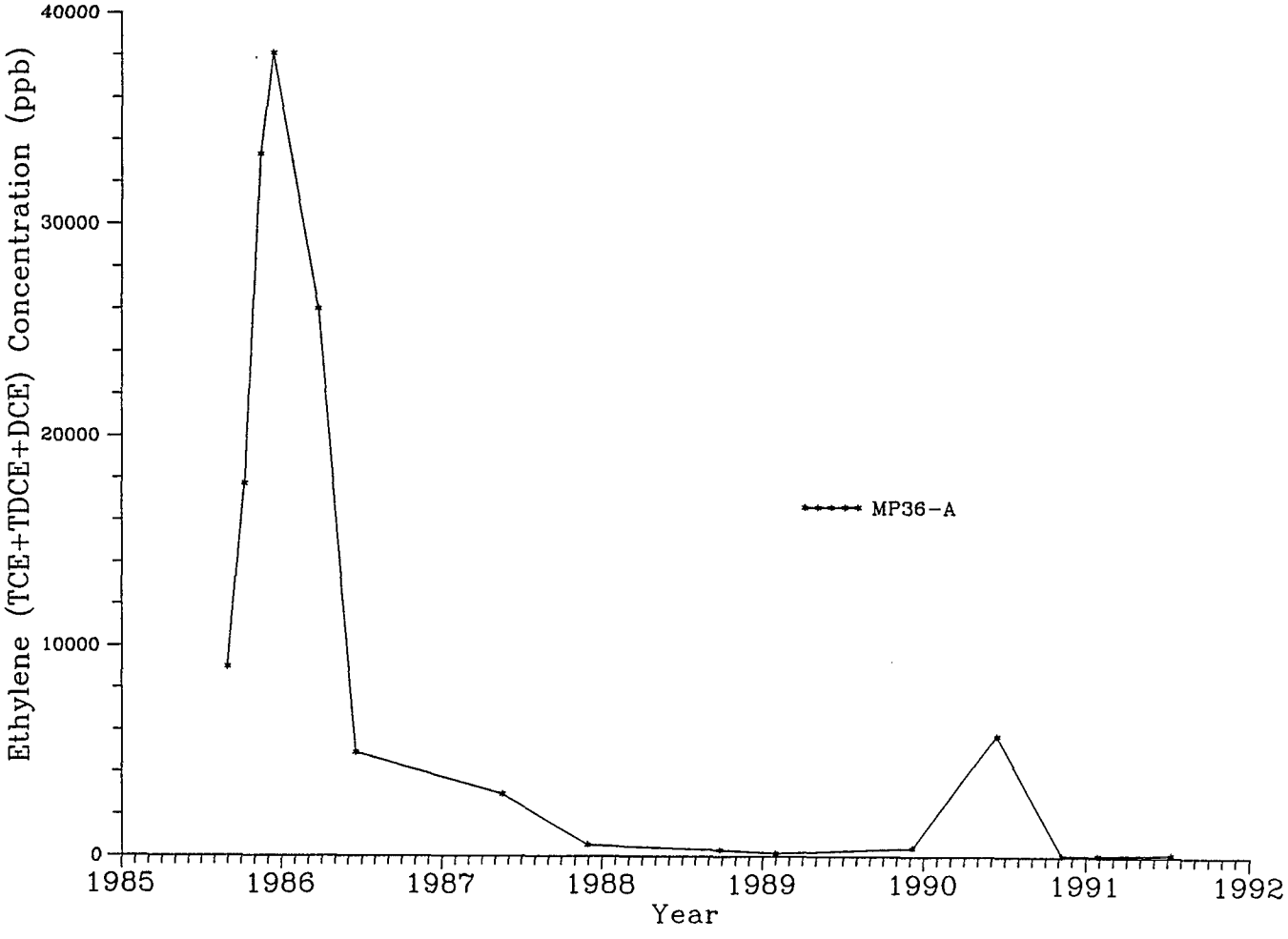
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 30-D

Figure E6.90

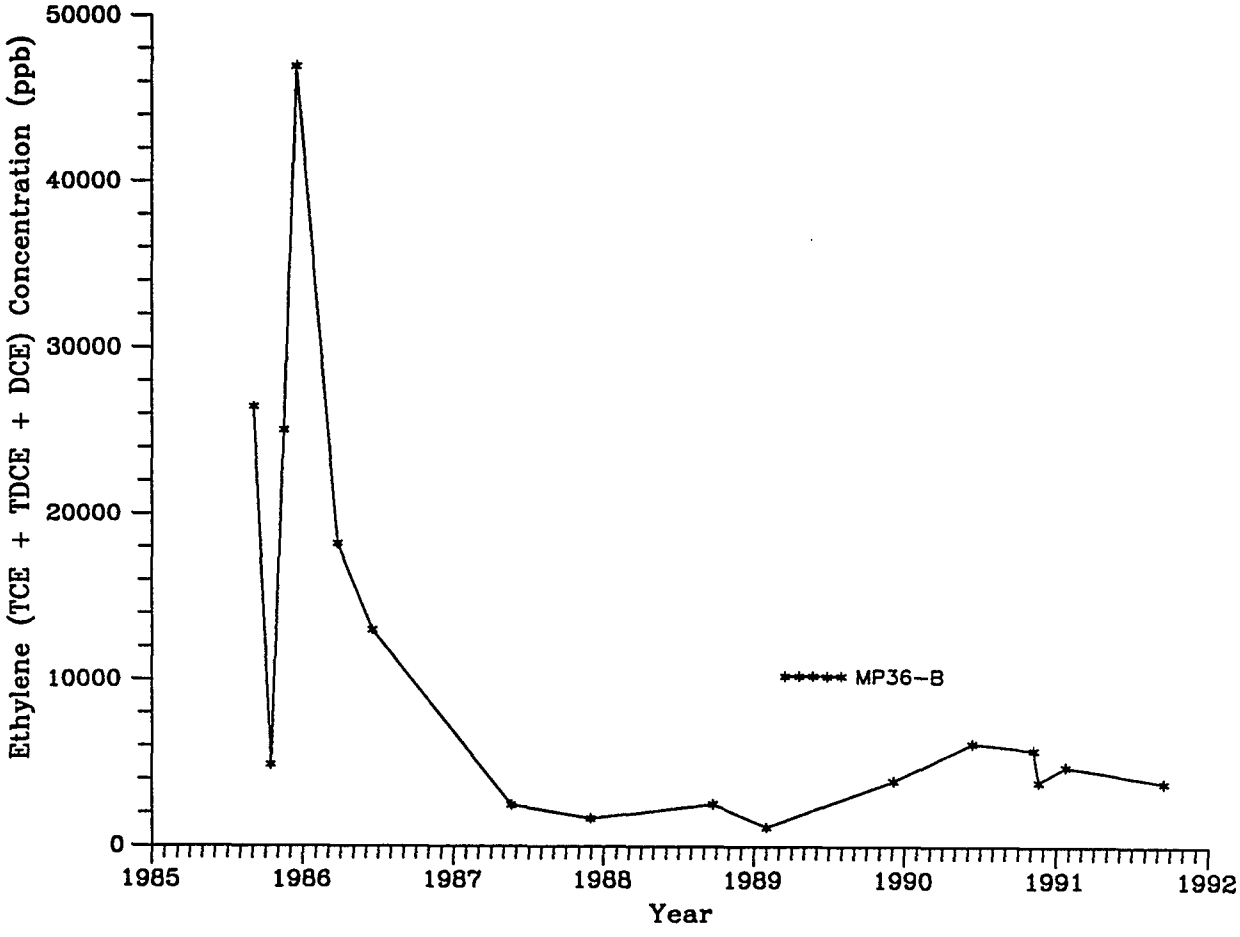
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 36-A

Figure E6.91

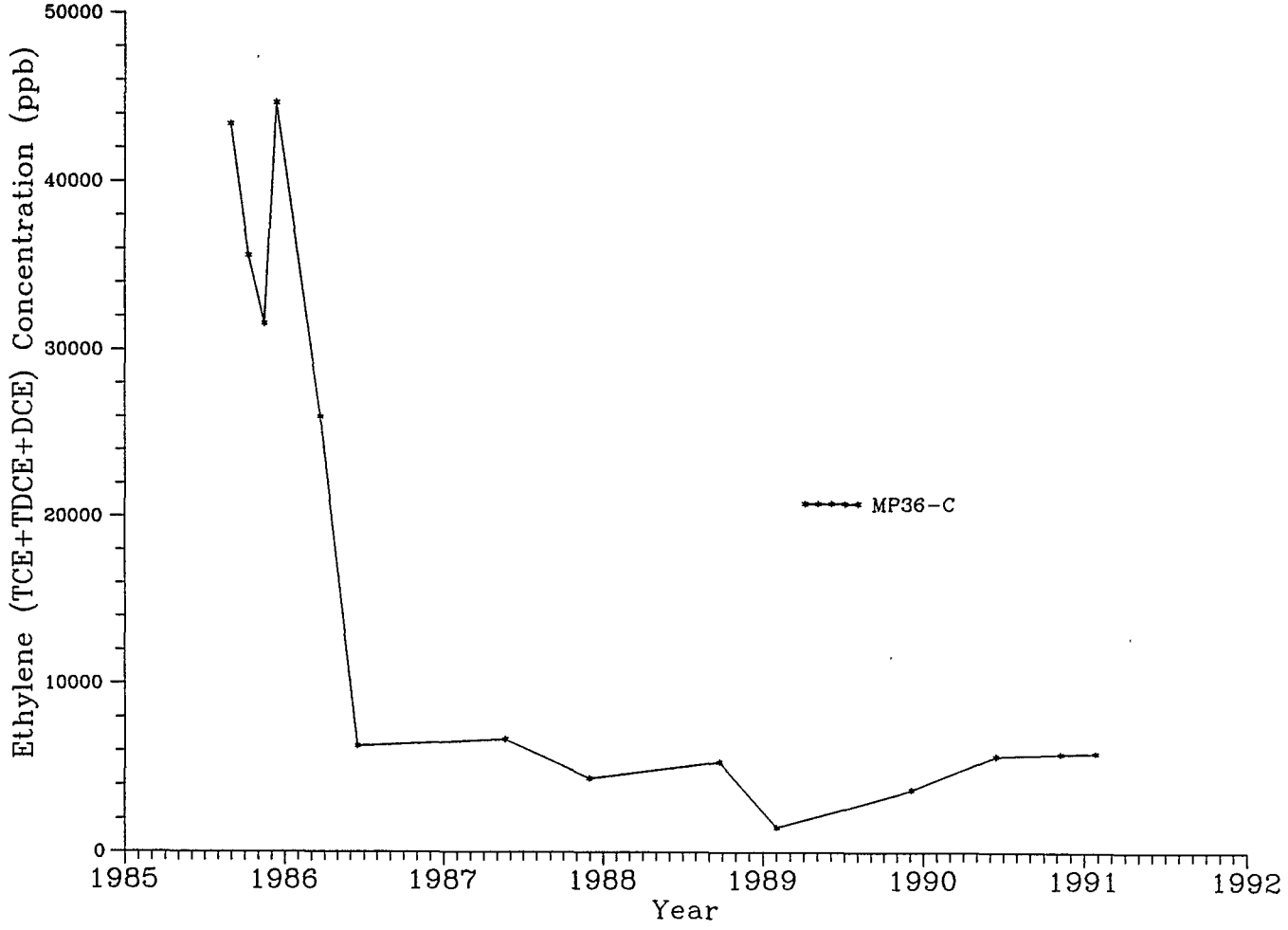
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 36-B

Figure E6.92

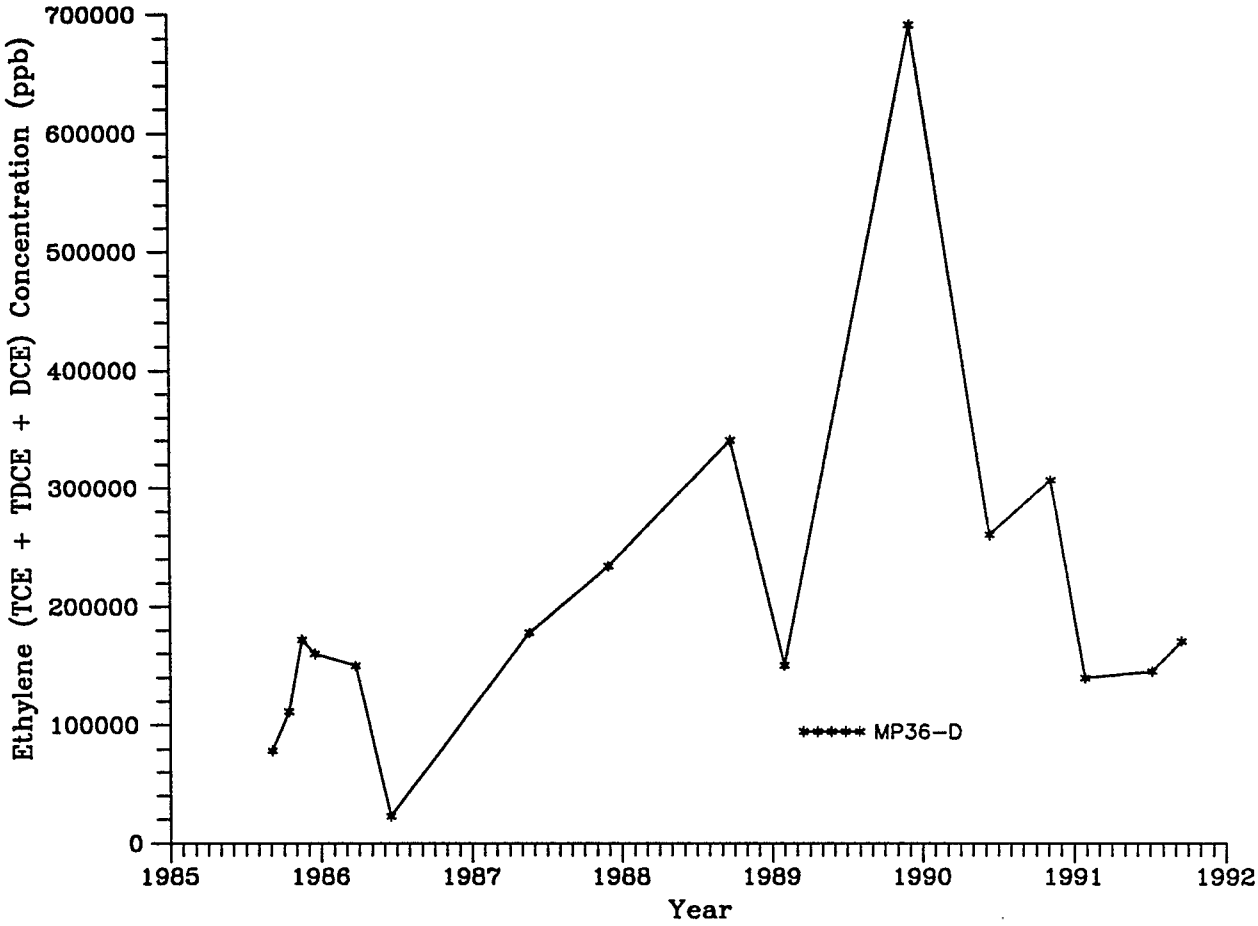
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 36-C

Figure E6.93

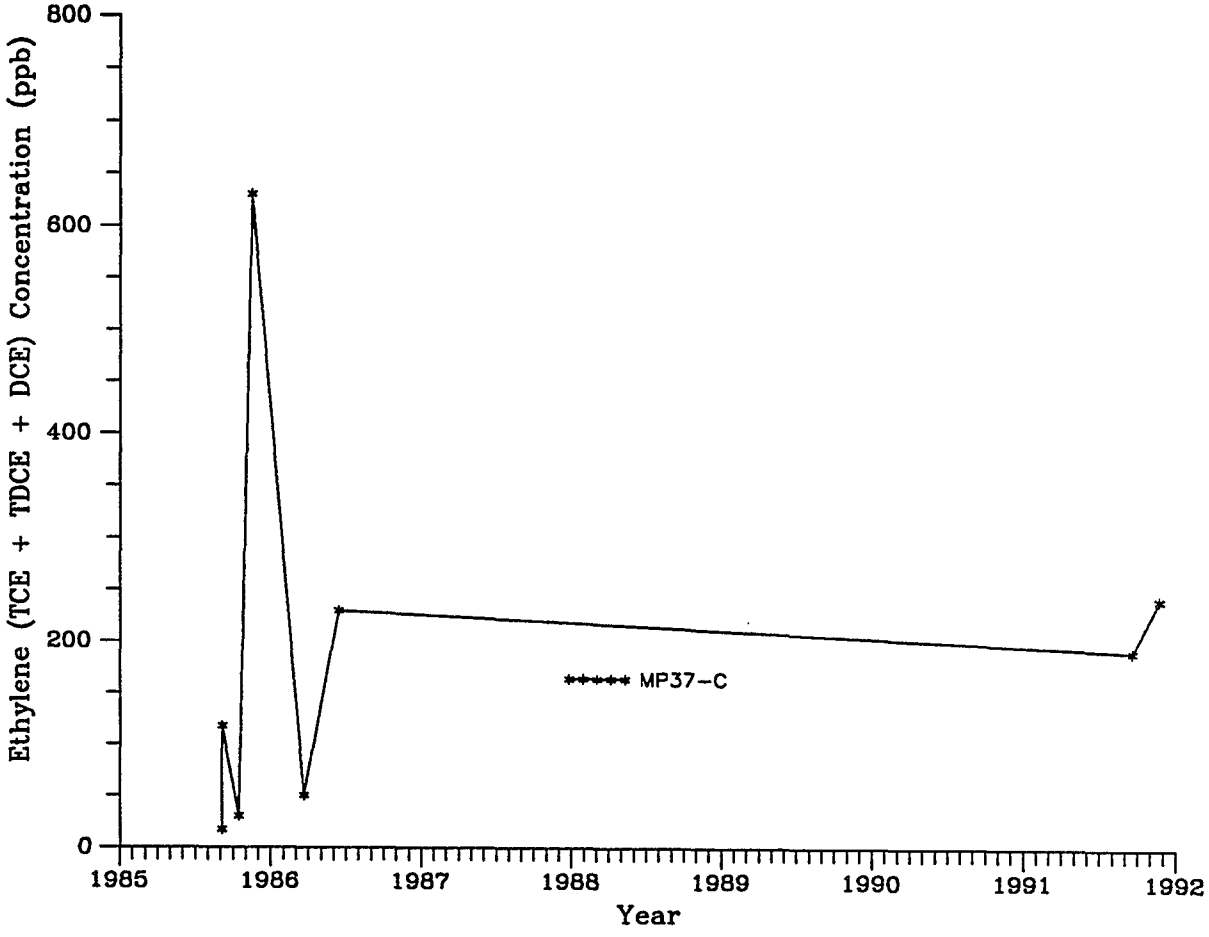
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 36-D

Figure E6.94

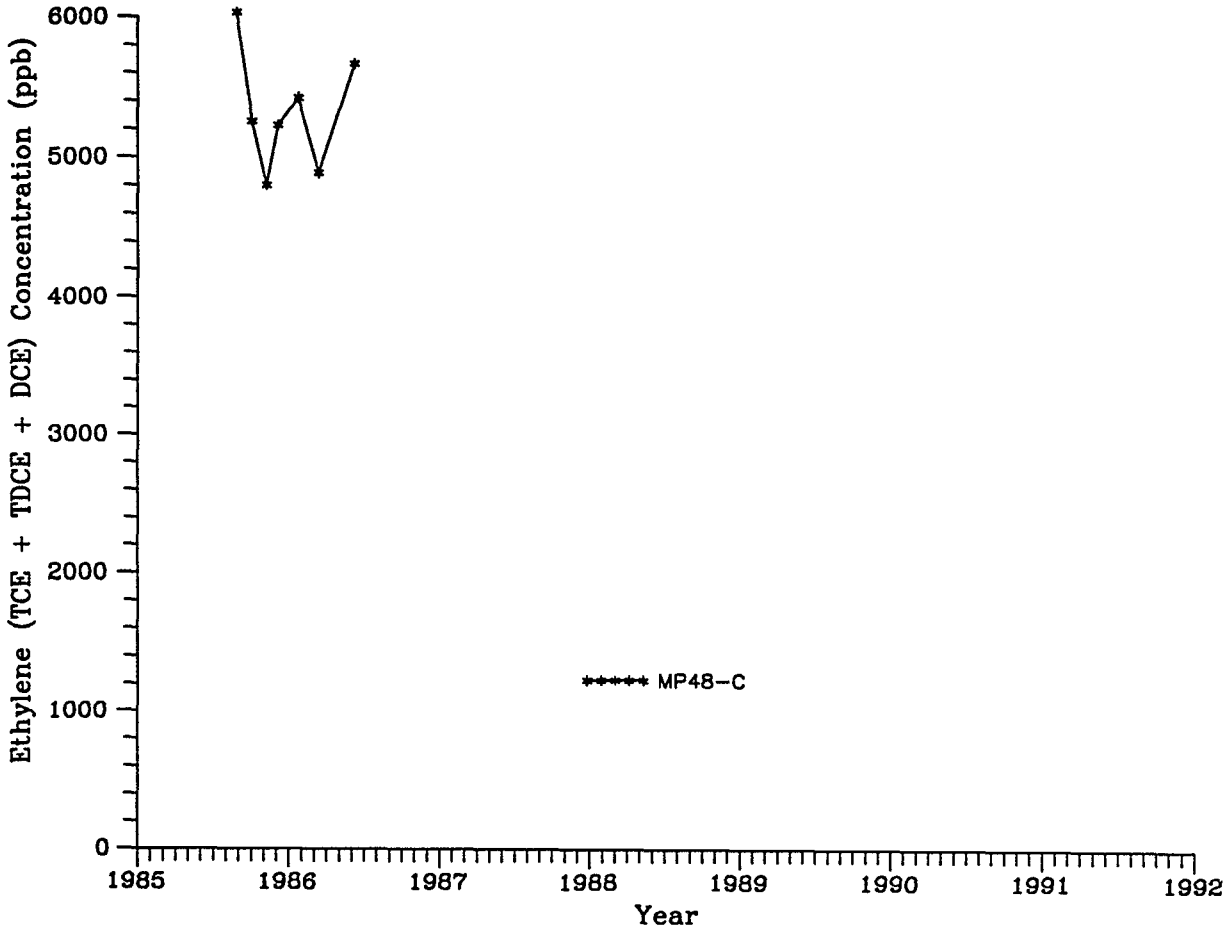
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 37-C

Figure E6.95

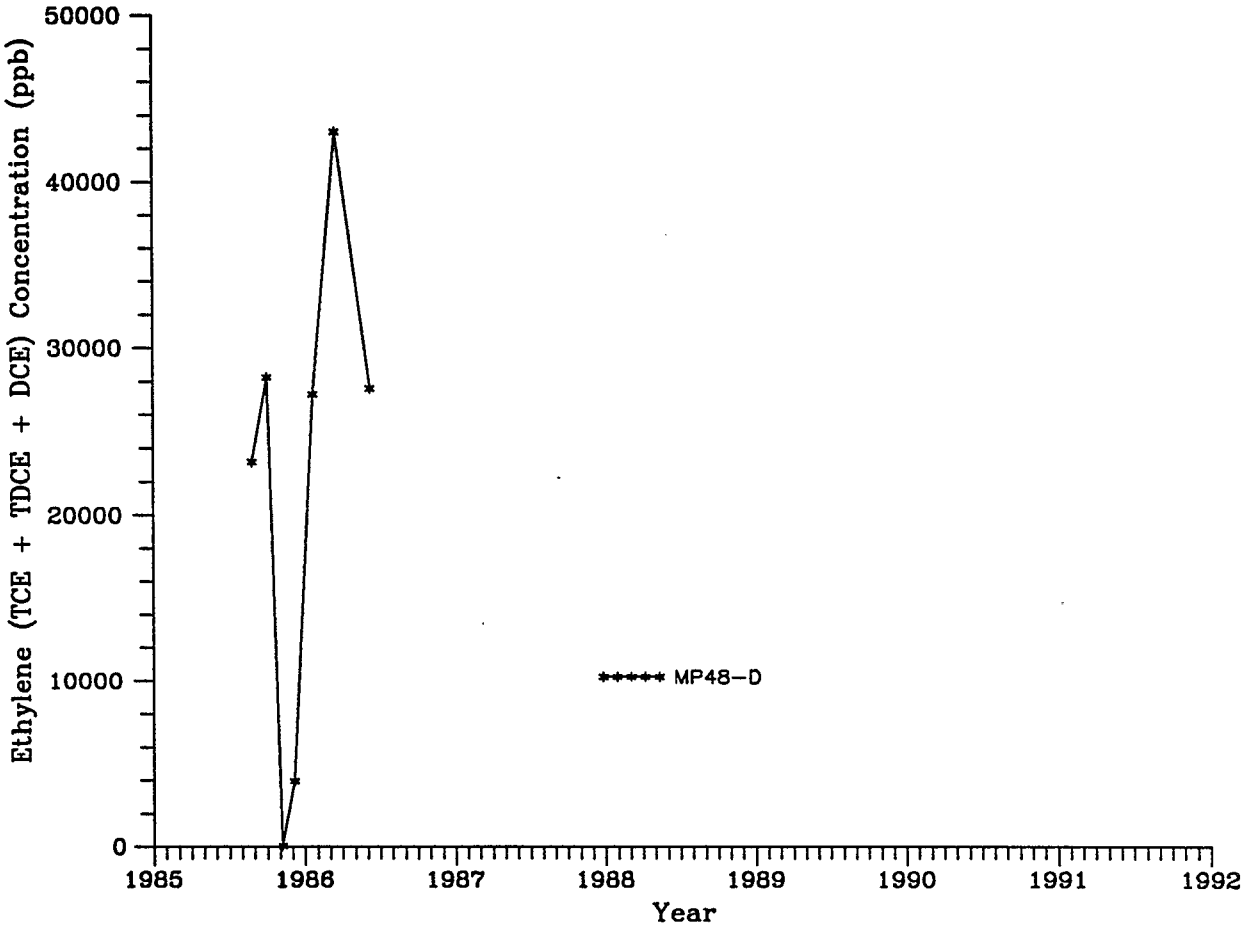
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 48-C

Figure E6.96

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 48-D

Figure E6.97

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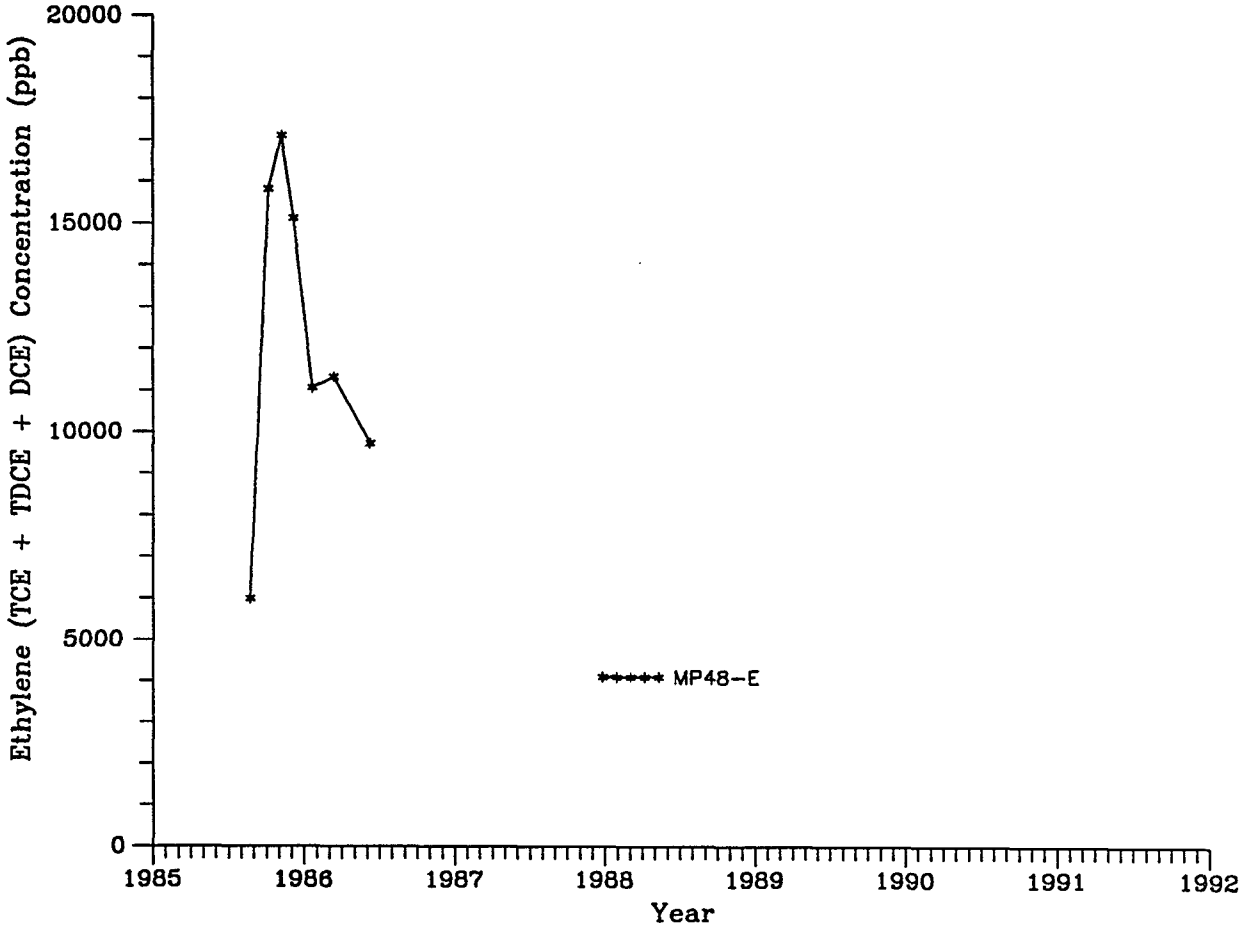

ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 48-E

Figure E6.98

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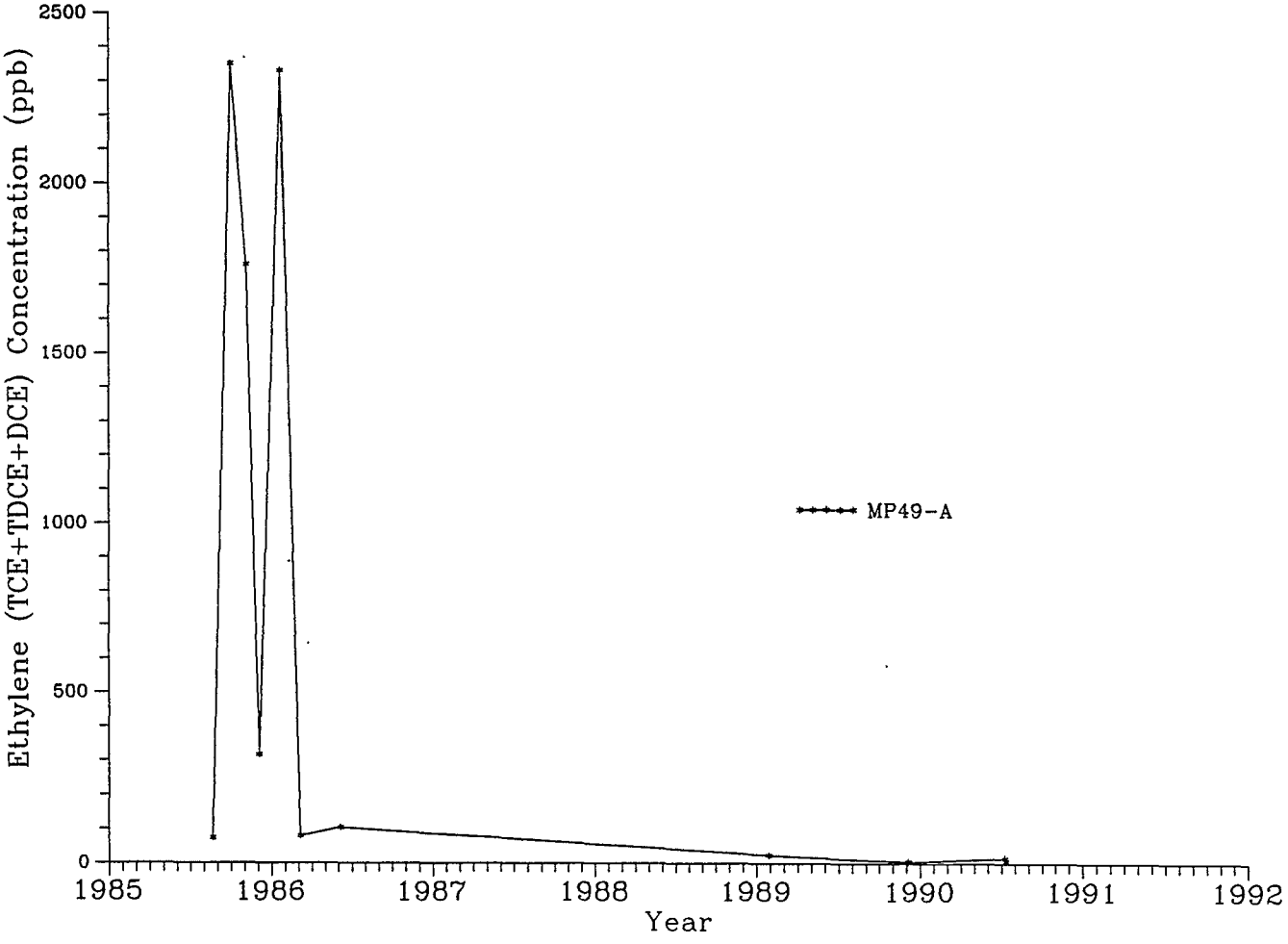
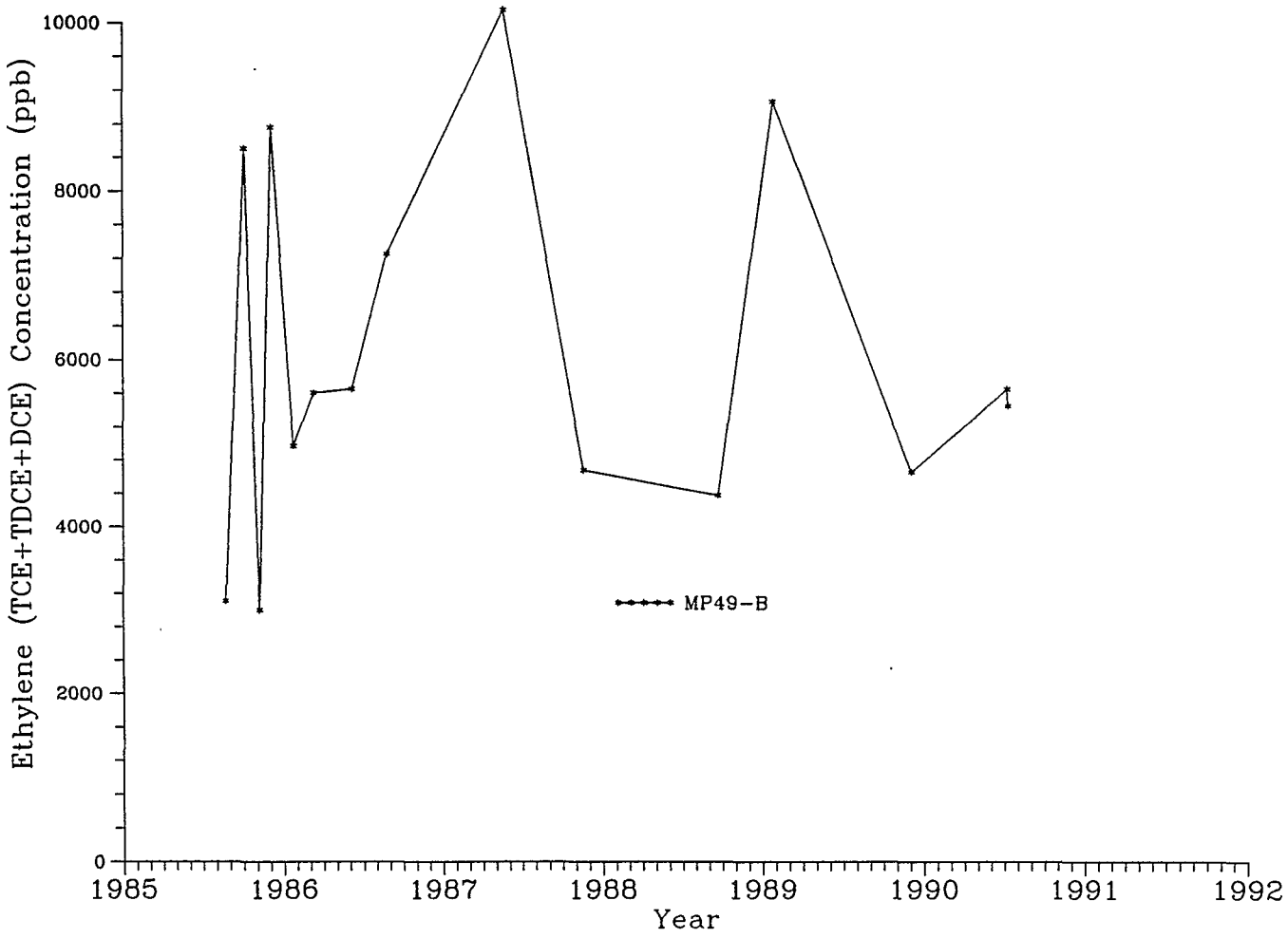


ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 49-A

Figure E6.99

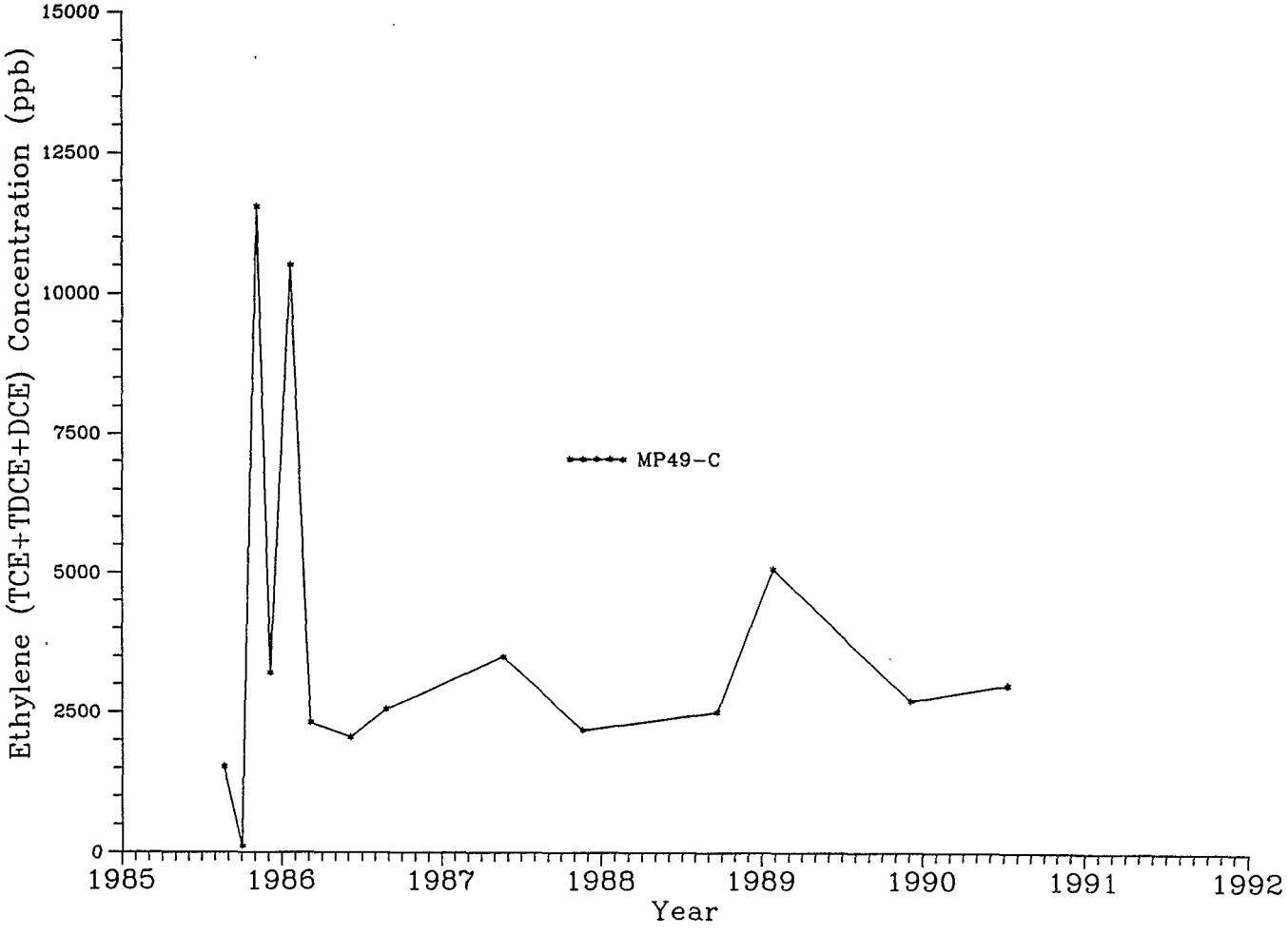
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 49-B

Figure E6.100

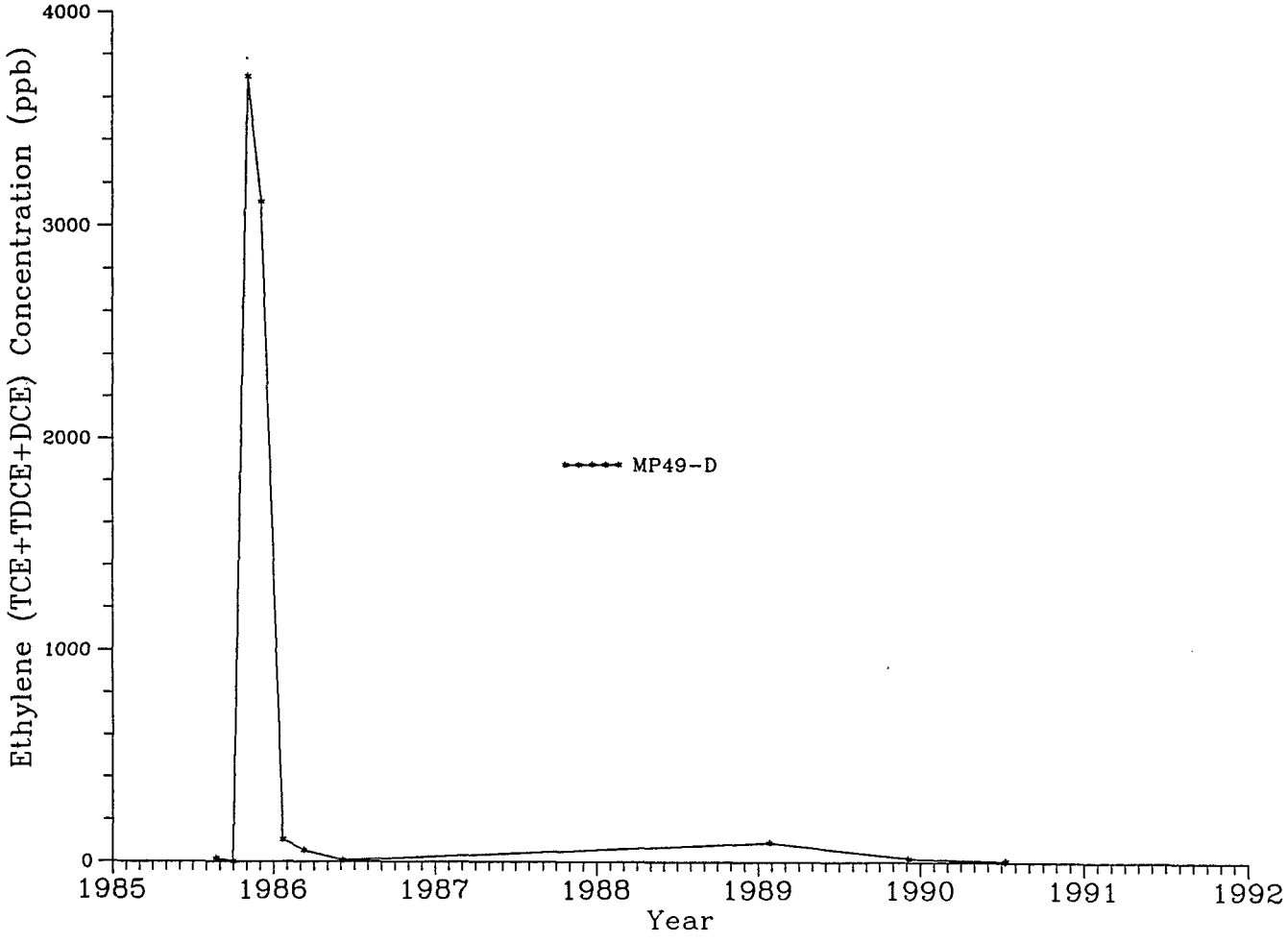
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 49-C

Figure E6.101

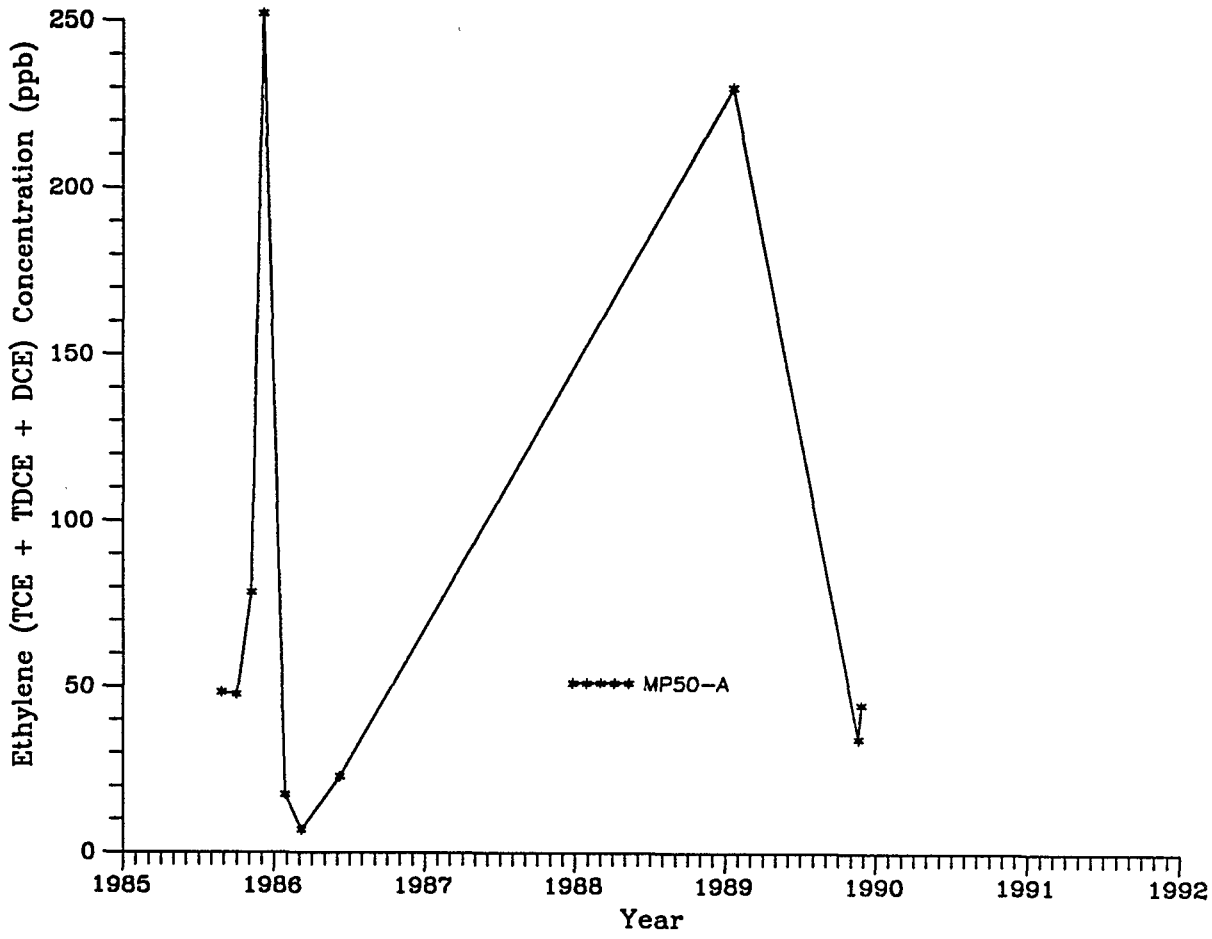
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 49-D

Figure E6.102

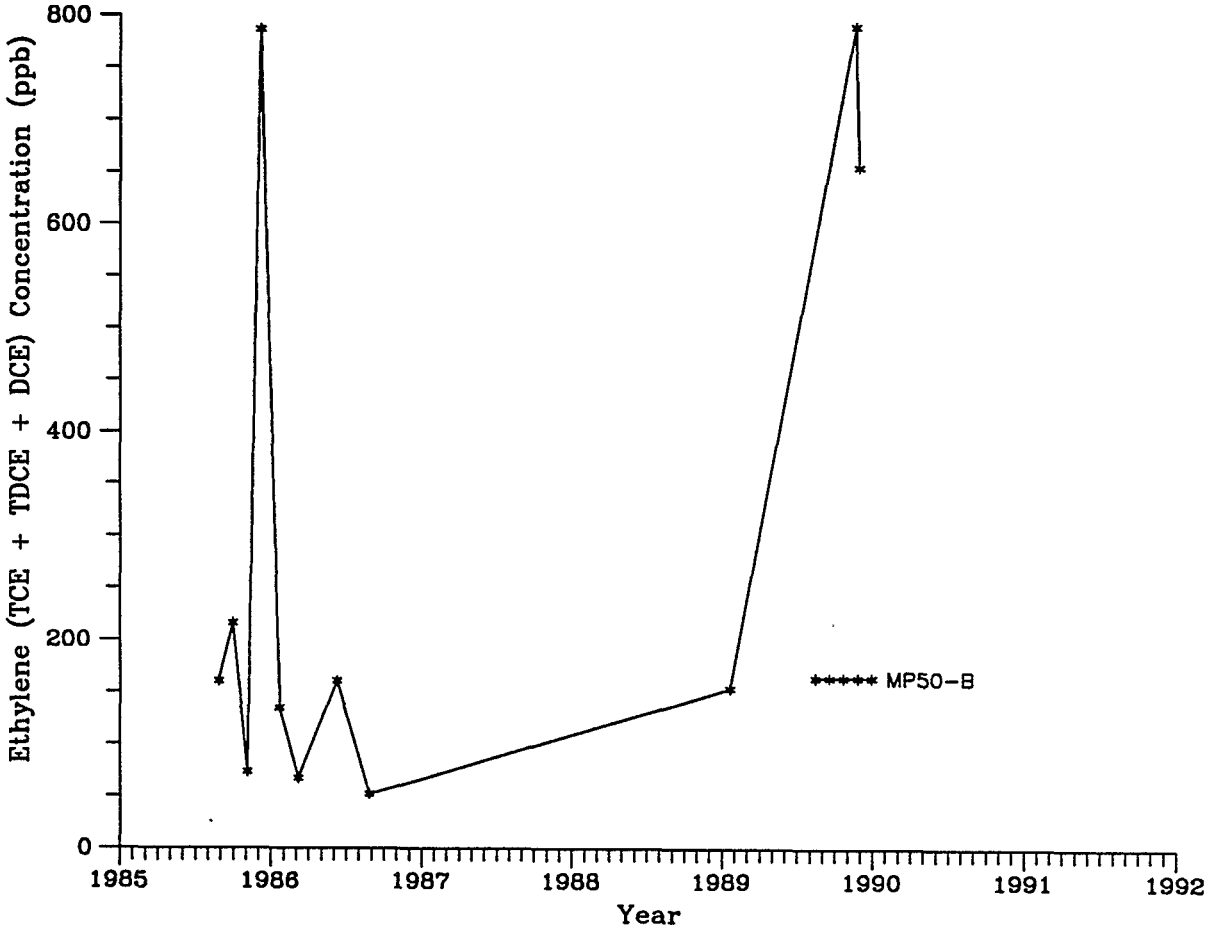
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 50-A

Figure E6.103

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 50-B

Figure E6.104

MOTOROLA 52nd ST.
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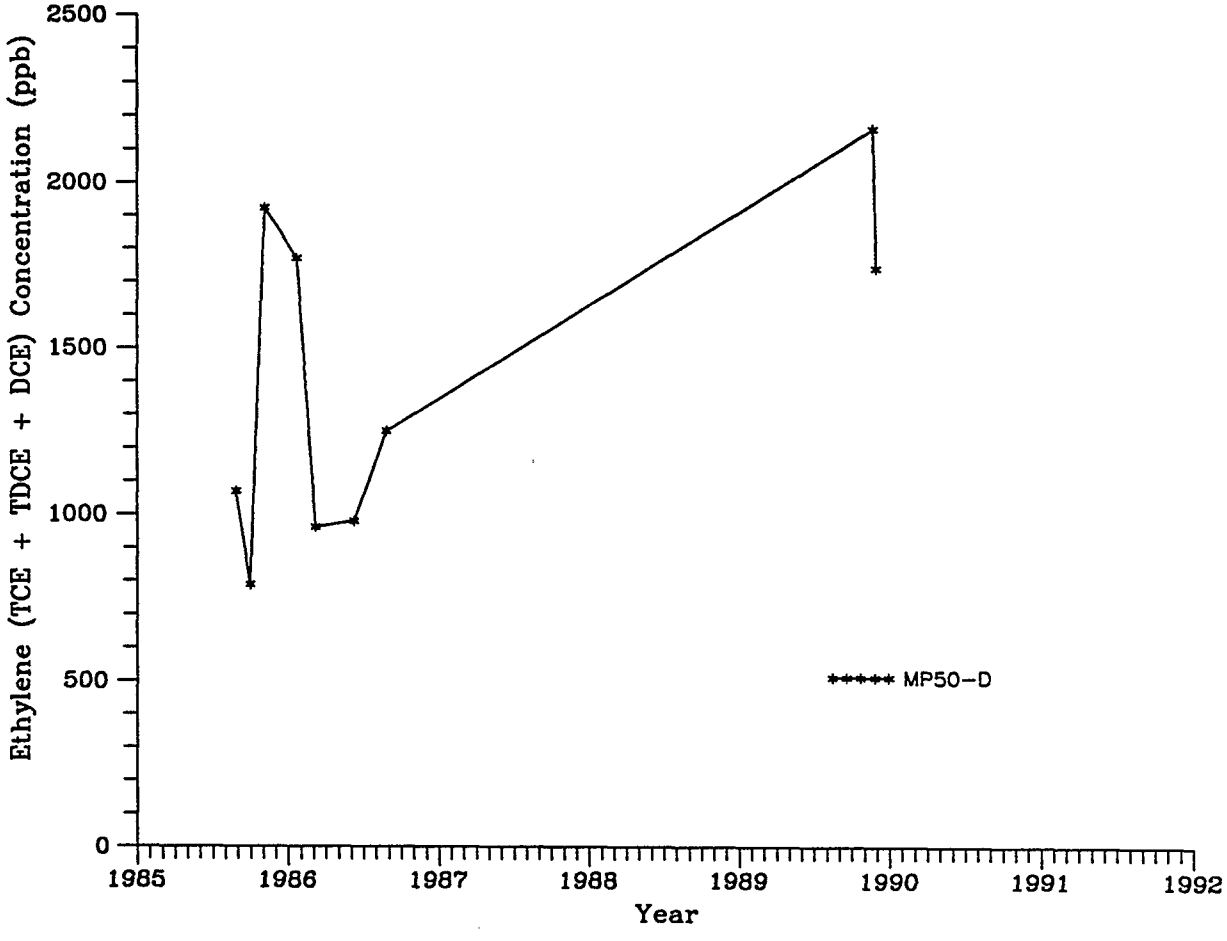
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 50-D

Figure E6.105

MOTOROLA 52nd ST.
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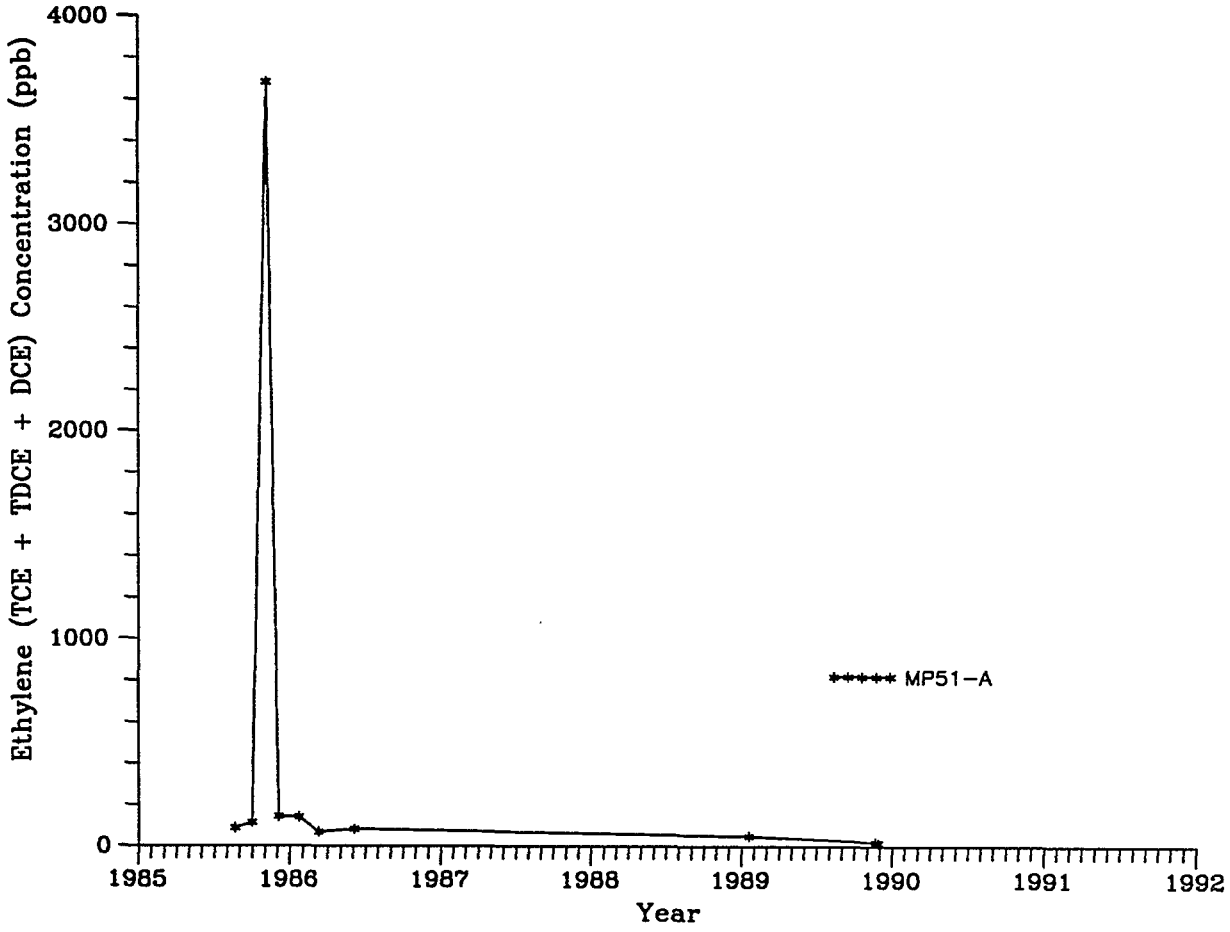

ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 51-A

Figure E6.106

MOTOROLA 52nd ST.
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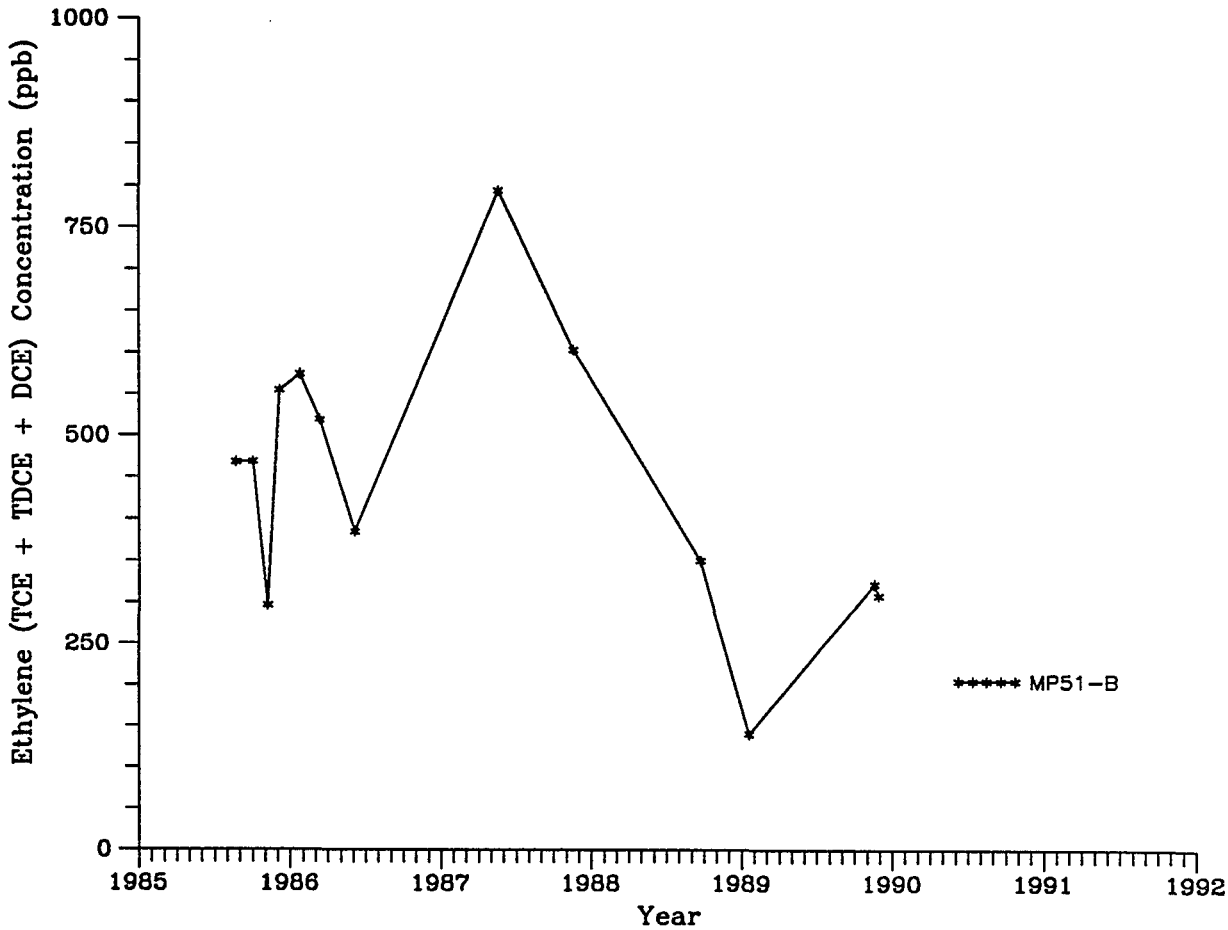

ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 51-B

Figure E6.107

MOTOROLA 52nd ST.
FR RI
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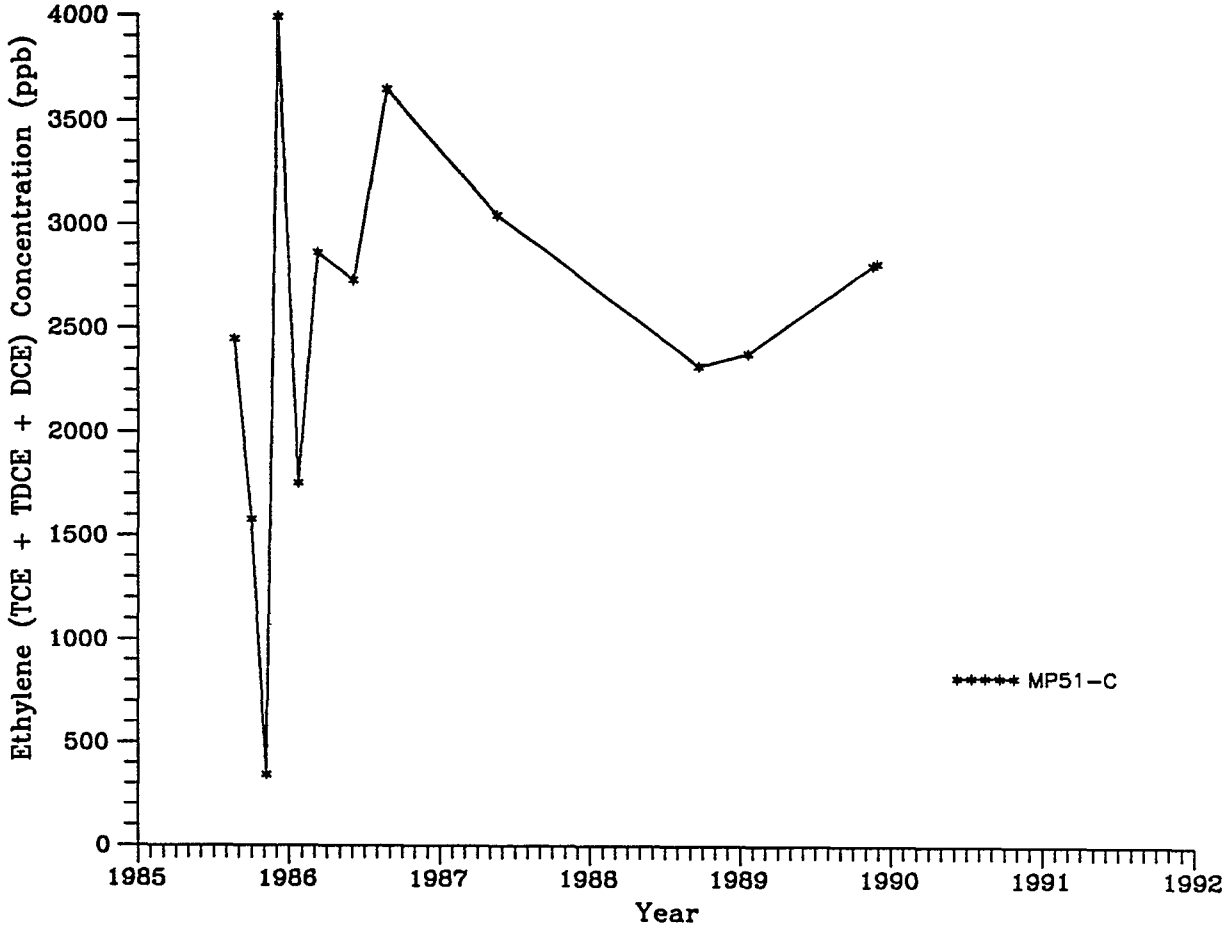

ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 51-C

Figure E6.108

MOTOROLA 52nd ST.
FR RI
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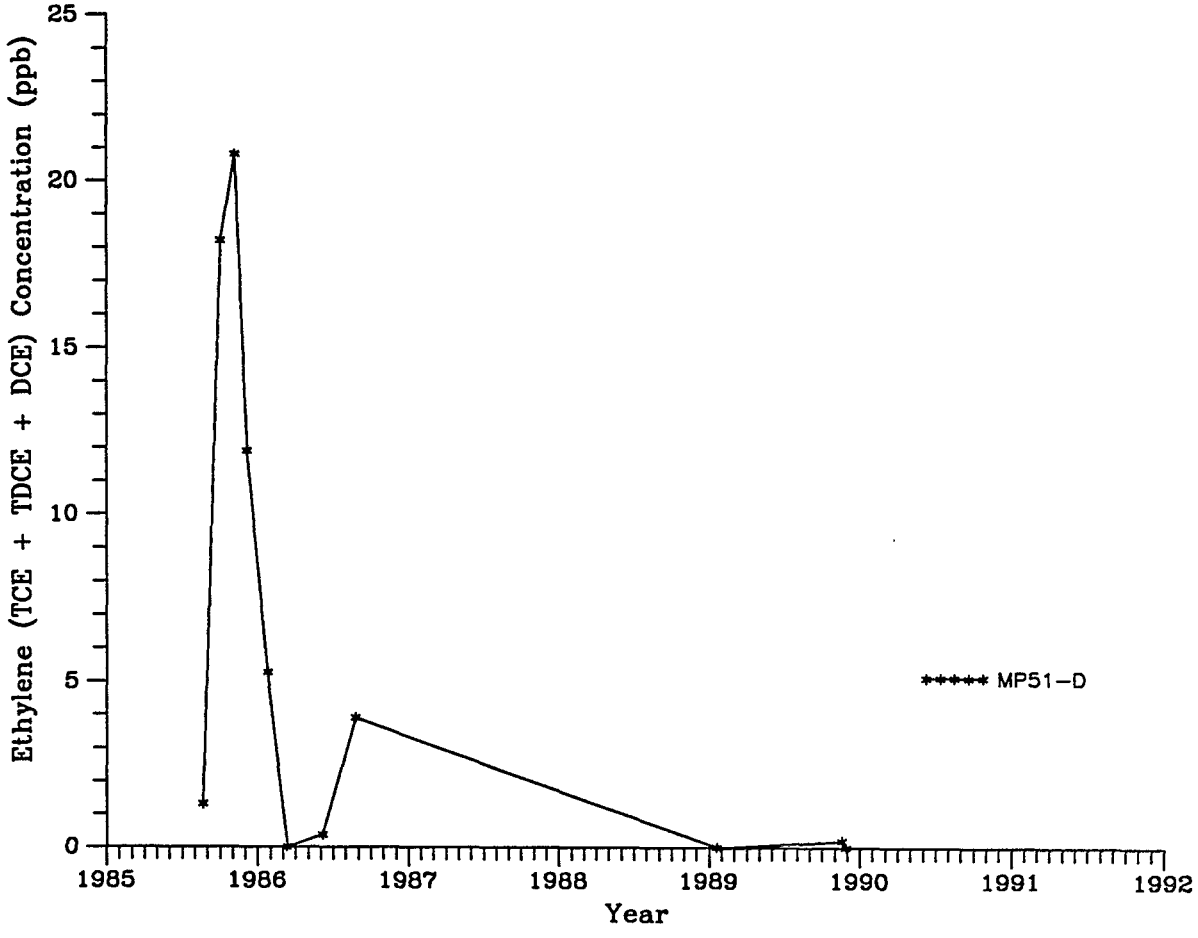

ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 51-D

Figure E6.109

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FR RI
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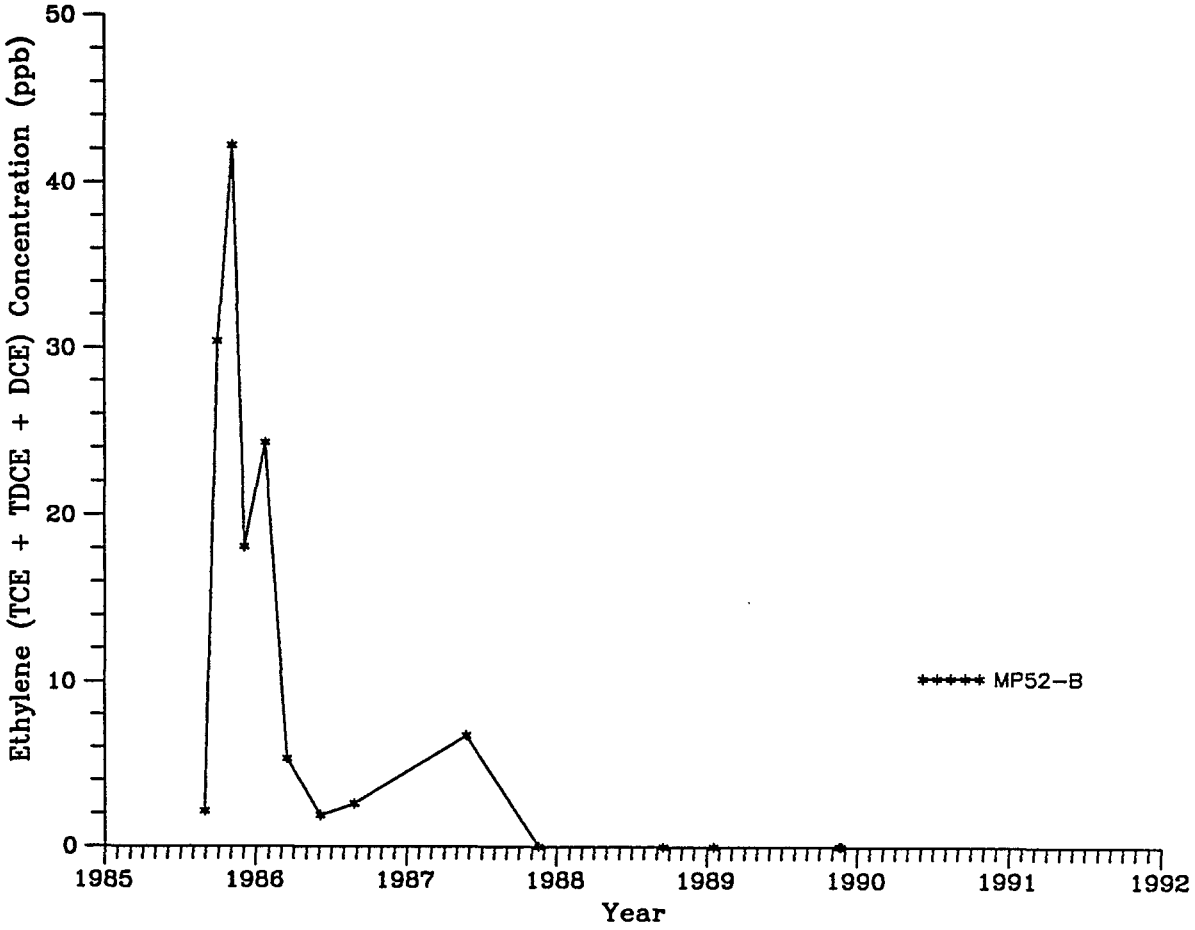

ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 52-B

Figure E6.110

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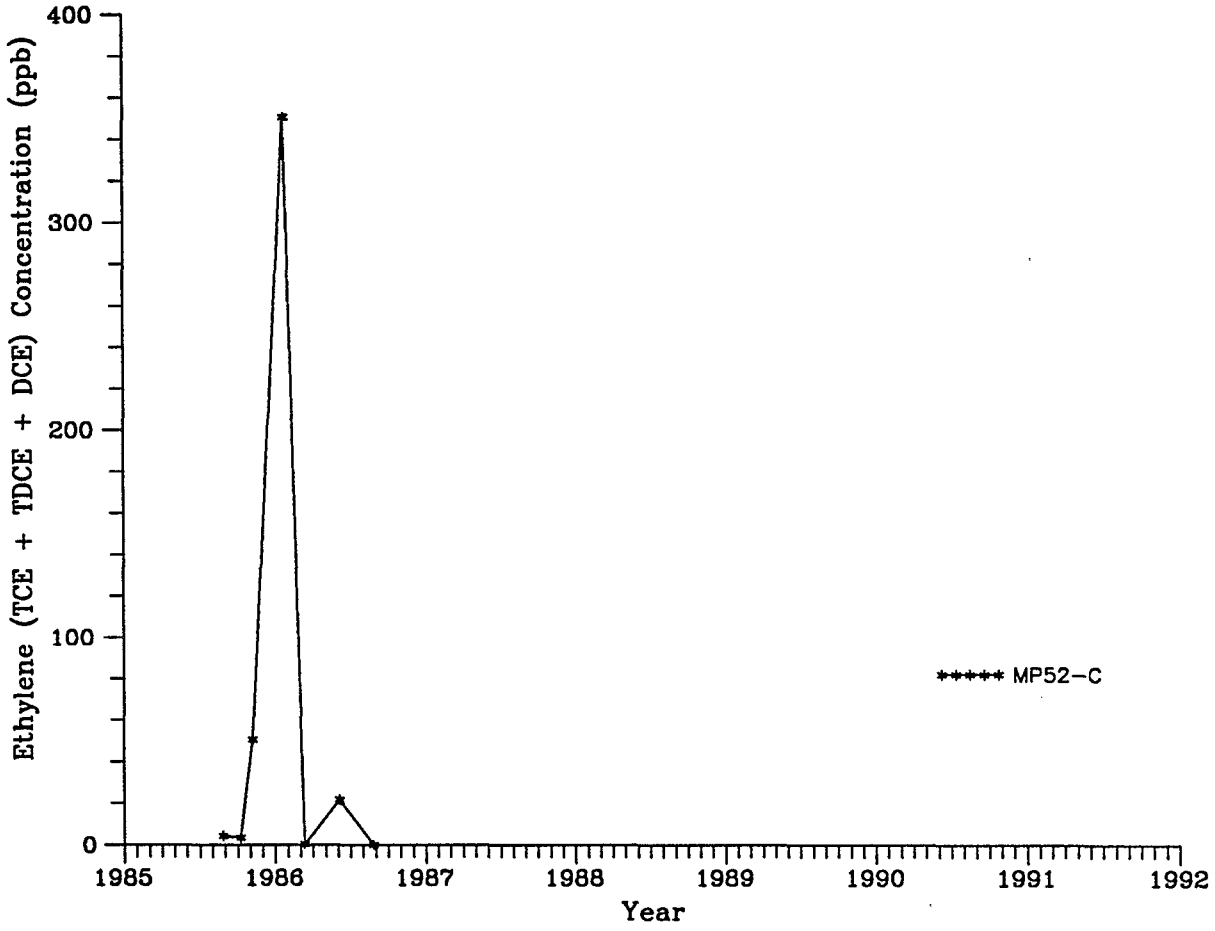

ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 52-C

Figure E6.111

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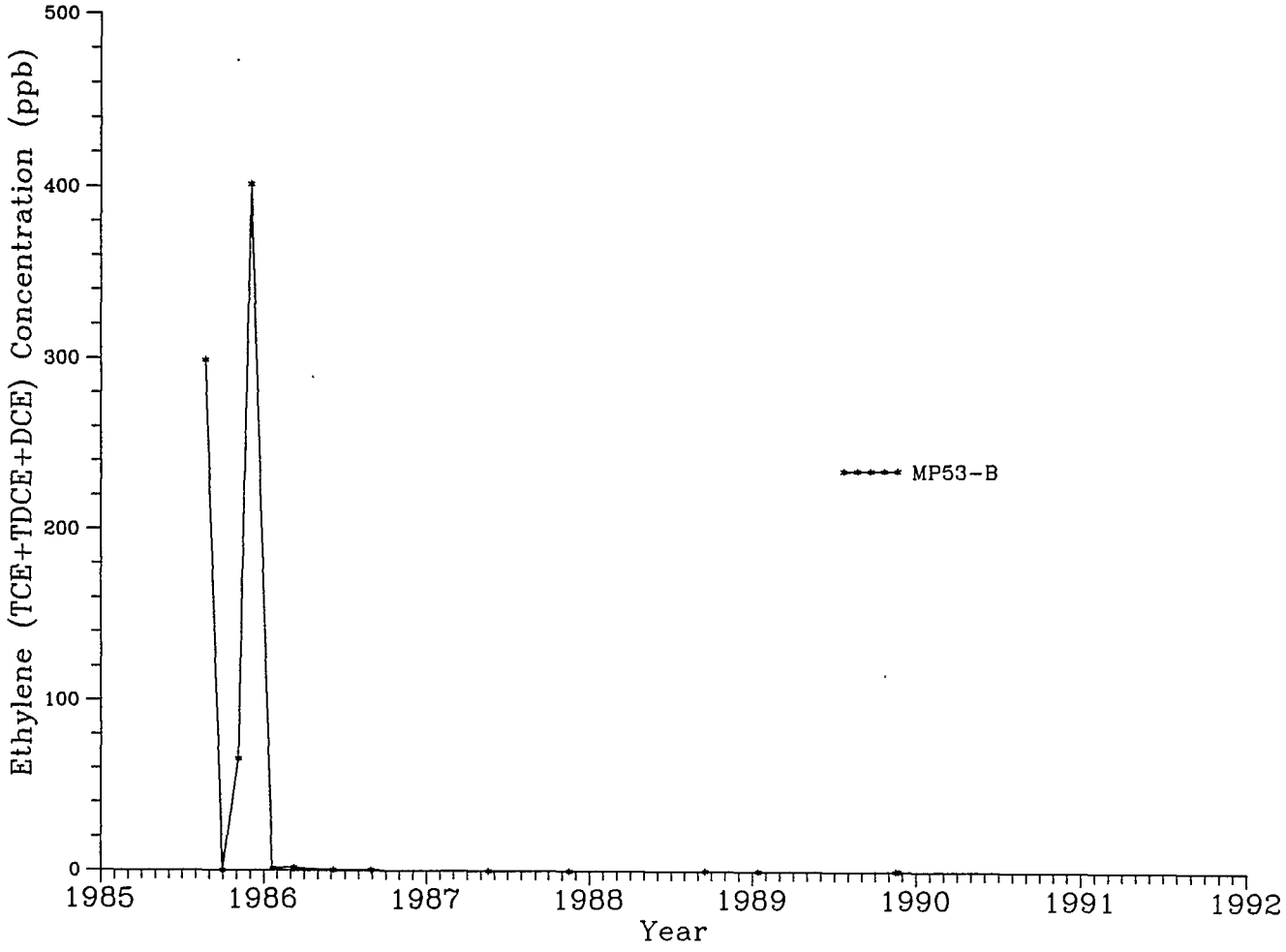
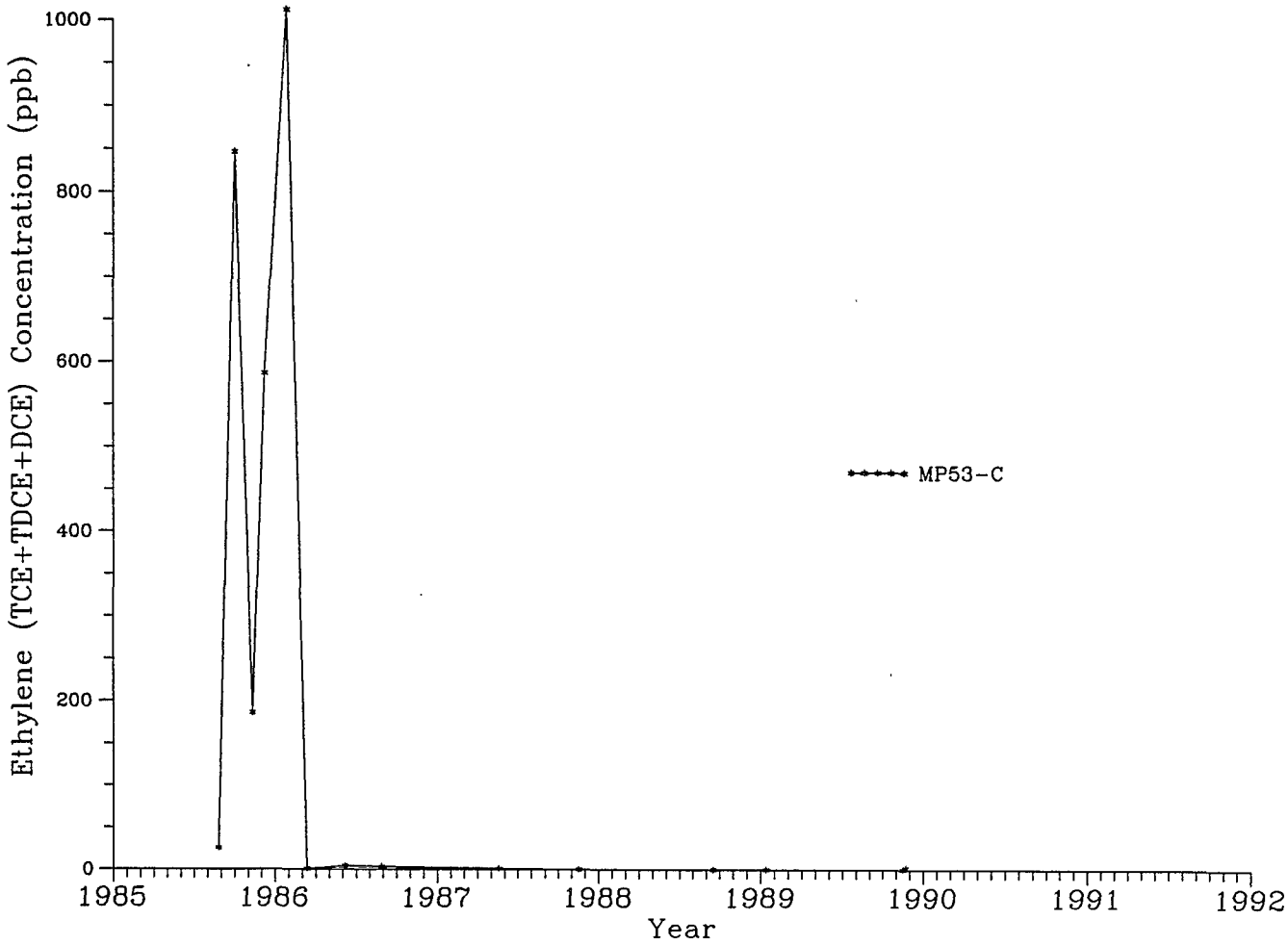


ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 53-B

Figure E6.112

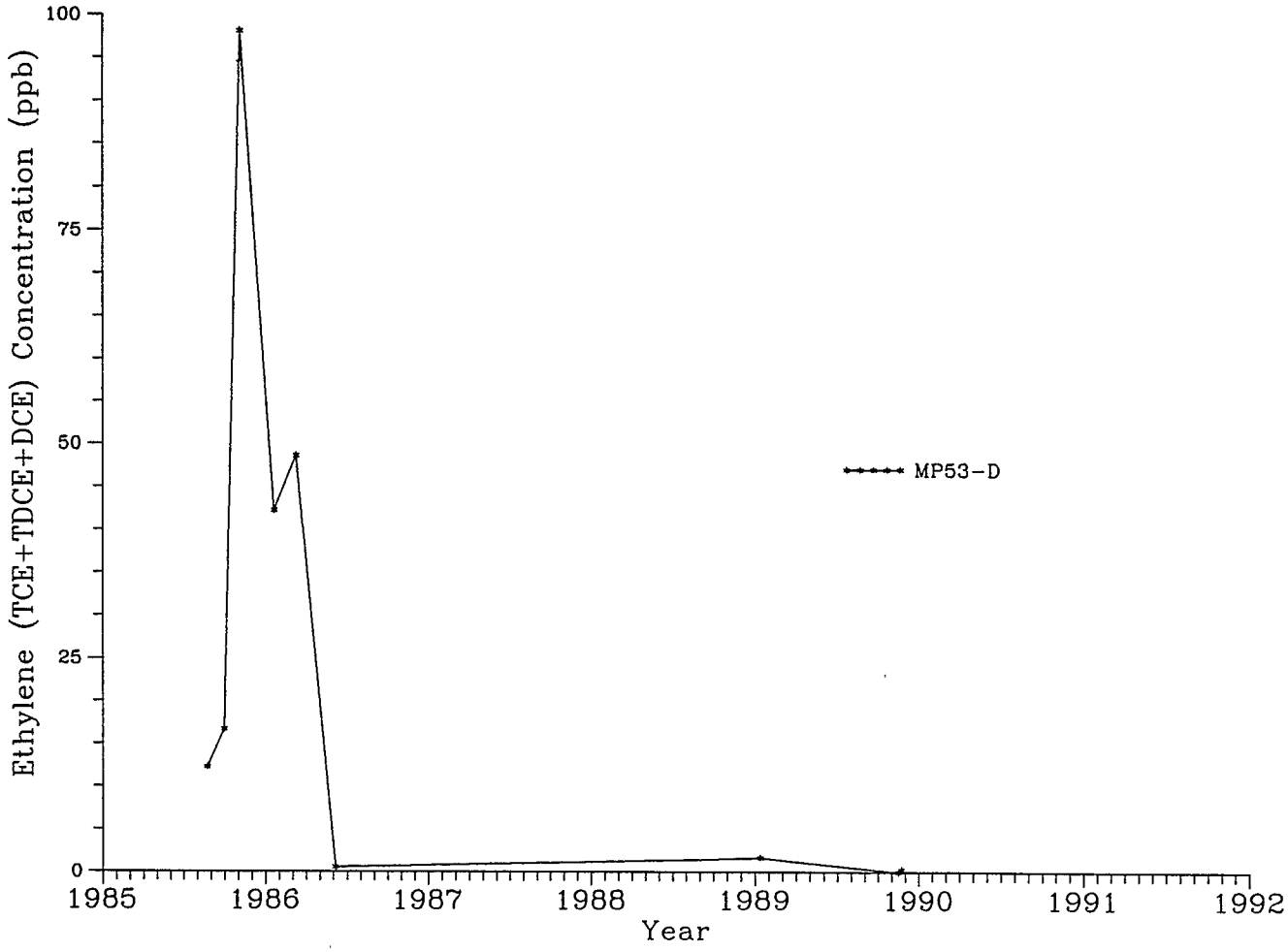
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 53-C

Figure E6.113

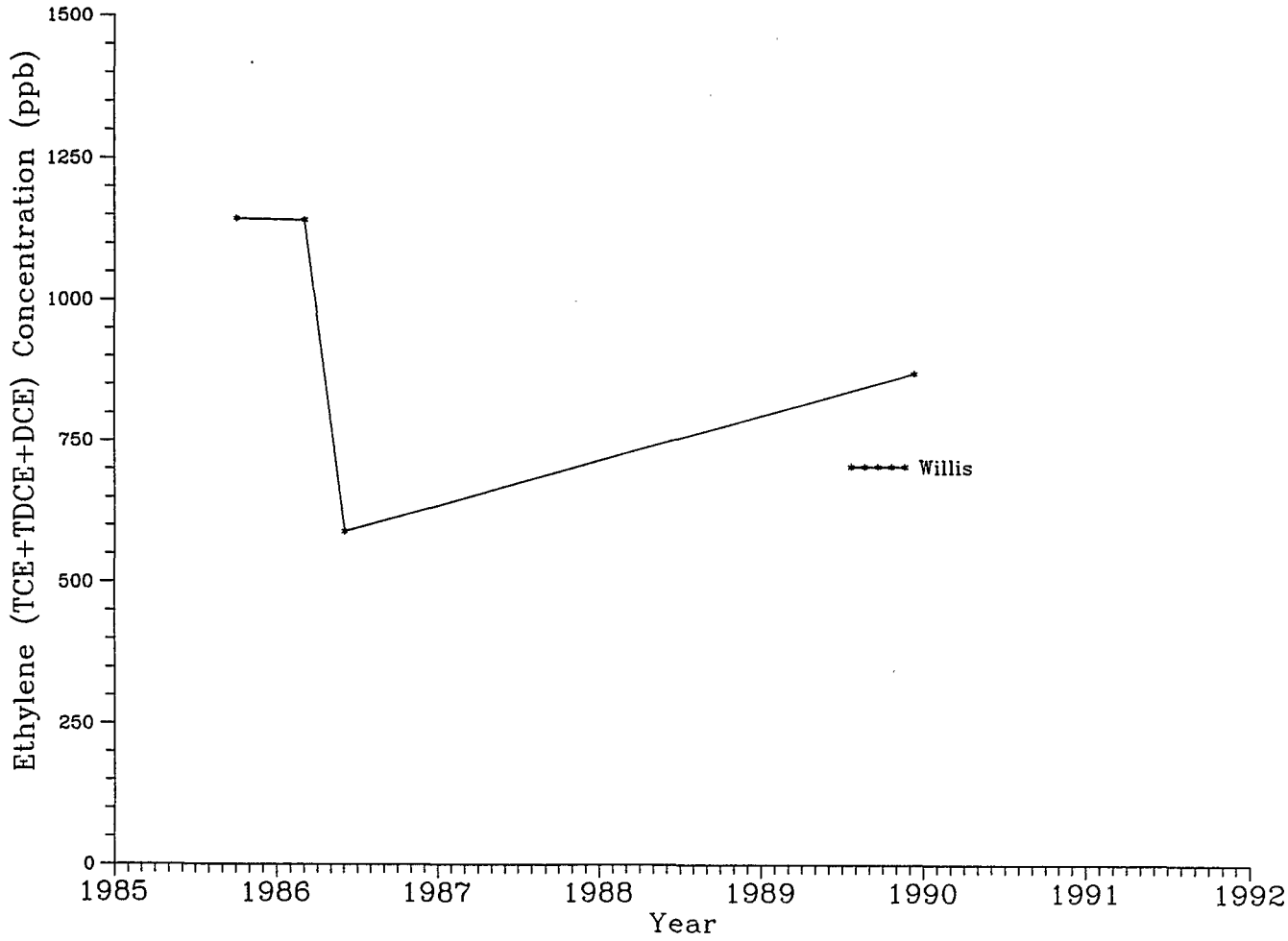
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL MP 53-D

Figure E6.114

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



ETHYLENE CONCENTRATION VS. TIME MONITOR WELL WILLIS

Figure E6.115

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

APPENDIX E7

INORGANIC WATER QUALITY

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APPENDIX E7

INORGANIC WATER QUALITY

E7.1.0 INTRODUCTION

This appendix presents a set of tables summarizing water quality for selected inorganic compounds detected in monitor wells at the Motorola 52nd St. site. This appendix also presents maps showing minimum, mean, and maximum values of selected inorganic contituents in all monitor wells as well as plots of concentration vs. time for selected wells.

E7.2.0 DATA TABLES

The data tables provided in this appendix include a table showing mean values calculated for 39 selected inorganic parameters for all samples collected during the RI (1985-1986) and post-RI (1987-1991) period. Also included are two tables showing 1991 minimum, mean, and maximum concentrations of fluoride and arsenic in monitor wells.

All of the data tables provided in this appendix were developed using data presented in tables E3.1 (RI inorganics, 1985-1986) and Table E4.1 (post-RI inorganics, 1987-1991). Mean inorganic concentrations were calculated using only field original (FO) and field duplicate (FD) samples. Samples taken during aquifer tests were not used. To calculate a mean concentration value for a particular inorganic constituent within a given interval of time, FO and FD samples from the same sampling event were first averaged to obtain an average value for a particular sampling date. Concentrations from all sampling dates within the time interval were then averaged to obtain the mean. If the constituent was not detected, a zero value was assigned for the purpose of calculating the mean.

E7.3.0 FIGURES

The figures presented in this appendix include 19 plots of concentration vs. time for sulfate, chloride, total dissolved solids (TDS), fluoride, nitrate, and arsenic for selected monitor wells. The data used to generate the plots are presented in tables E3.1 and E4.1. Also provided are four maps showing 1991 minimum, mean and maximum values of fluoride and arsenic for alluvium and bedrock. The data used to generate the maps are presented in tables E7.2 and E7.3.

TABLE E7.1
MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	16.9E6N	40&VB	4626G	AZSLD	DM101-102	DM101B	DM102-048	DM102-082	DM102-104	DM102-144
ZONE	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	BEDROCK	ALLUVIUM	ALLUVIUM	BEDROCK	BEDROCK	BEDROCK
SILVER	.	.	0	0	0	0	0	0	0	0
ARSENIC	.	.	0.0038	0.0053	0	0	0.034	0.024	0.01	0
BERYLLIUM	.	.	0	0	0	0	0	0	0	0
CALCIUM	96.4	35.6	114.75	86.5667	120	86	98.5	94.6	49.2	88
CADMIUM	.	.	0	0	0	0	0	0	0	0
CHROMIUM	.	.	0	0	0	0	0.055	0	0	0.026
COPPER	.	.	0	0	0.13	0	0.27	0	0.1	0.21
IRON	.	.	0.023	0.321	12	0.23	2.1	.	.	1
HARDNESS	408	154	411.5	341	.	.	.	.	.	.
MERCURY	.	.	0	0.0001	0	0	0.0005	0	0	0
MAGNESIUM	40.75	15.9	29	29.2667	21	31	34.75	45.6	16.6	33
MANGANESE	.	.	0.0025	0	0.96	0	1.1	.	.	0.92
SODIUM	468	490	198.75	511.6667	46	260	305.5	648	341	309
NICKEL	.	.	0	0	0	0	0.1	0.02	0.03	0
LEAD	.	.	0	0.005	0	0	0.0085	0.003	0.003	0
ANTIMONY	.	.	0	0	0	0	0	0	0	0
SELENIUM	.	.	0	0	0	0	0	0	0	0
SILICA	.	.	26.95	25.45	.	.	.	.	.	.
THALLIUM	.	.	0	0	0	0	0	.	.	0
ZINC	.	.	0	1.17	0.5	0	0.68	0.34	0.15	0.71
CARBONATE	0	0	0	0	.	.	.	.	.	.
BICARBONATE	230.5	243	293	327.6667	399	275	346	.	.	455
HYDROXIDE	.	.	0	0	.	.	.	.	.	.
ALKALINITY	378	399	278.75	305.3333	327	225	343.5	854	580	373
CHLORIDE	423	290	268.5	306	98	256	369	552	177	322
pH	.	.	7.75	8.1	.	.	.	.	.	.
SULFATE	346	369	193	683.3333	37	277	329	176	74.4	280
TDS	1550	1371	1042.5	1833.3333	642	1140	1560.5	2144	1051	1300
BOD	.	.	10	.	.	.	.	.	.	.
CHROMIUM(HEX)	.	.	0	0	0	0	0	0	0	0
FLUORIDE	1.1	4.92	3.15	4.8	0.5	.	7.19	4.85	3.34	6.5
AMMONIA	.	.	0.84	0	2.2	0	13	.	.	6.6
NITRATE	55.45	46.4	3.65	3.2	0	24	0	0	0	0
PHOSPHOROUS(TOTAL)	0	0.16	0	0	0	0.01	0.2033	0.19	0.12	0.03
BORON	5.25	1.76	0.97	3.2	0.22	3	1.53	2.01	0.99	1.9
BARIUM	.	.	0	0	0.3	0	0.135	0.24	0.1	0.1
PHOSPHATE,ORTHO (AS P)	.	.	.	.	.	.	.	.	.	.
POTASSIUM	6.7	5	8.1	3.8	2.8	6.1	12	.	.	9.7
CYANIDE	.	.	0	0	0.2	0	0.005	0	0	0

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. = NOT ANALYZED

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TABLE E7.1
MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	DM102-299	DM104-079	DM104-146	DM107	DM111	DM112	DM113	DM114	DM115	DM117
ZONE	BEDROCK	ALLUVIUM	BEDROCK	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM
SILVER	0	0	0	0.0013	0	0	0	0	0	0
ARSENIC	0	0.23	0	0.15	0.0336	0.0317	0.036	0.0437	0.0308	0.265
BERYLLIUM	0	.	.	0	0	0	0	0	0	0
CALCIUM	74.9	0.9	140	268.0444	57.0111	91.4333	77.1	75.2667	269.8	60.1
CADMIUM	0	0	0	0.0008	0	0	0	0	0	0
CHROMIUM	0	0.03	0	0.0028	0.0033	0	0	0	0.1258	0
COPPER	0	0.06	0.1	0.0033	0	0	0	0.0067	0.0026	0
IRON	.	0	1.9	0.1983	1.1333	0	0.4985	0.0887	0.0888	1.2284
HARDNESS	.	.	.	889	207.6667	564	.	361.5	1720	412.5
MERCURY	0.0007	0	0	0	0	0	0	0	0	0
MAGNESIUM	18	7	47	157.5	48.2444	69.4333	52.85	37.8333	233.8	71.57
MANGANESE	.	0	0.46	0.0179	0.03	0.0043	0.3335	0.0033	0.0092	0.344
SODIUM	217	540	300	1444.5556	254.4444	290	200	153.3333	1197.6	219.4
NICKEL	0.04	.	.	0	0	0	0	0	0	0.026
LEAD	0.004	0	0	0.0013	0.0044	0	0.005	0	0.0054	0.0003
ANTIMONY	0	.	.	0	0	0	0	0	0	0
SELENIUM	0	0	0	0.0037	0	0	0	0	0.0032	0
SILICA	.	.	.	39.8	28.3333	41.95	.	56	39	27.275
THALLIUM	.	.	.	0.0043	0	0	0	0	0.008	0
ZINC	0.52	0	0	0.0162	0.0333	0	0.0055	0.0087	0.012	0.0072
CARBONATE	.	.	.	0	0	0	0	0	0	0
BICARBONATE	.	.	.	335.4	300.4	407	415	320.6667	298.8	565.5
HYDROXIDE	.	.	.	0	0	0	0	0	0	0
ALKALINITY	437	473	469	295.3333	325.8889	376	374	299.6667	287.6	536.6
CHLORIDE	216	311	526	1430.2222	228.6667	319.6667	173	148.6667	2236	252
pH	.	.	.	7.6375	7.84	7.7	.	7.6	7.6667	7.608
SULFATE	123	240	0	1832	211.2222	296.6667	182	153.6667	670.4	65.3
TDS	985	1360	1310	5674.4444	1068.8889	1443.3333	947	820	5190	1057.2
BOD	.	0	10	1.6	30	.	0	.	0	7.3333
CHROMIUM(HEX)	0	0	0	0	0	0	0	0	0.075	0
FLUORIDE	14.38	10.1	10.1	4.0529	7.7643	6.5	4.145	2.4	4.28	5.3137
AMMONIA	.	0	0.81	0.2486	0.0483	0	0.115	0	0	1.0186
NITRATE	0	7	0	67.5857	8.7571	6.4	4.85	2.9	33.6667	0.855
PHOSPHOROUS(TOTAL)	0	0.17	0.09	0.1	0.1117	0	0.045	0	0	0.085
BORON	0.07	2.1	0.5	6.69	0.912	1	0.7	0.64	2.505	1.1483
BARIUM	0	0	0.4	0.0101	0.0433	0	0.0575	0	0.098	1.0713
PHOSPHATE,ORTHO (AS P)	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	23.65	9.5	5.7	6.8	4.7	26.7	9.4
CYANIDE	0	.	.	0.0017	0.01	0	0	0	0	0

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TABLE E7.1
MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	DM118	DM119-137	DM119-244	DM120	DM121-125	DM121-219	DM122-A	DM122-B	DM123-056	DM124
ZONE	ALLUVIUM	INTERFACE	BEDROCK	ALLUVIUM	INTERFACE	BEDROCK	ALLUVIUM	INTERFACE	INTERFACE	ALLUVIUM
SILVER	0	0	0	0	0	0	0	0	0	0
ARSENIC	0.0078	0	0	0.0119	0	0	0.0198	0.3419	0	0.0398
BERYLLIUM	0	0	0	0	0	0	0	0	0	0
CALCIUM	118.5	114	21	19.0727	20	28	32.625	84.925	53	114.5
CADMIUM	0	0	0	0	0	0.008	0	0.0004	0	0
CHROMIUM	0	0	0	0.0018	0	0	0	0.03	0	0
COPPER	0	0.07	0.09	0	0.13	0.39	0	0	0.1	0
IRON	0.004	3.9	0.17	0.05	1	3.5	0.0765	0.108	3.7	0.047
HARDNESS	486.6667	.	.	78.35	.	.	184.5	382.5	.	421.3333
MERCURY	0	0	0	0	0	0	0	0	0	0
MAGNESIUM	50.775	33	1.7	8.4909	7.8	8.7	26	45.7375	26	36.05
MANGANESE	0	0.7	0.05	0.0045	0	0.08	0	0.0075	0.22	0.0345
SODIUM	374.75	341	160	440.4545	407	275	510.75	503.875	198	281.25
NICKEL	0	0	0	0	0	0	0	0	0	0
LEAD	0	0	0	0.0021	0	0.03	0.0008	0.0006	0	0
ANTIMONY	0	0	0	0	0	0	0	0	0	0
SELENIUM	0.0035	0	0	0	0	0	0	0.0008	0	0
SILICA	56.5667	.	.	25.05	.	.	34.6	36.9	.	69.2667
THALLIUM	0	0	0	0	0	0	0	0	0	0
ZINC	0.0293	0.11	0.08	0.0226	0.34	0.5	0	0.0358	0.08	0.0058
CARBONATE	0	.	.	0.4	.	.	0	0	.	0
BICARBONATE	325.75	322	225	352.6667	484	266	462.75	389.5	303	397.5
HYDROXIDE	0	.	.	0	.	.	0	0	.	0
ALKALINITY	310	264	184	332.8182	397	218	439	362.625	248	374.25
CHLORIDE	375	266	128	310.4545	253	240	337.5	362.75	211	297.5
pH	7.4667	.	.	8.166	.	.	7.9	7.82	.	7.5
SULFATE	467.5	364	32	245.9091	190	86	317.5	593.375	104	240
TDS	1655	1260	476	1258.1818	1160	820	1535	1733.75	768	1290
BOD	0	.	.	2.3333	.	.	0	1.5	.	0
CHROMIUM(HEX)	0	0	0	0	0	0	0	0	0	0
FLUORIDE	7.145	3.5	5.4	6.5388	7.6	3.8	5.5	5.23	4.3	3.83
AMMONIA	0	0.4	0.1	0.0838	0.2	0.9	0.05	0.0186	0.3	0.05
NITRATE	4.25	0.2	0	15.1513	6.3	1.5	7.3	8.6857	0	7
PHOSPHOROUS(TOTAL)	0	0.03	0.04	0.0588	0.07	0.19	0.065	0.0686	0	0.015
BORON	2.61	2	0.3	1.7571	1.4	1.3	1.885	2.64	0.82	0.935
BARIUM	0.0125	0.11	0	0.0064	0	0	0.02	0.0071	0	0.0195
PHOSPHATE,ORTHO (AS P)	.	.	.	.	.	.	.	.	.	.
POTASSIUM	5.85	5	1.6	2.5	2.4	3.7	0	3.9	5.8	3.2
CYANIDE	0	0	0	0	0	0	0	0	0	0

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TABLE E7.1
MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	DM125-046	DM125-076	DM125-270	DM126	DM201	DM202	DM202-OB1	DM202-OB2	DM301	DM302
ZONE	ALLUVIUM	INTERFACE	BEDROCK	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM
SILVER	.	0	0	0	0	0	0	0	0	0
ARSENIC	.	0	0	0	0.082	0.0073	0.009	0.015	0.068	0.0248
BERYLLIUM	.	0.1	0	0	0	0	0	0	0	0.0275
CALCIUM	80	81	84	140	264.3333	57.7667	68.4	37.2	291.3333	385.75
CADMIUM	.	0	0	0	0	0	0	0	0.0203	0.0023
CHROMIUM	.	0	0	0	0	0	0	0	9.708	0.174
COPPER	.	0.09	0.06	0	0	0	0	0	0.5333	0
IRON	.	4.4	0.53	6.8	0.3983	0.0043	0.02	0.015	0	0
HARDNESS	.	.	.	.	1100.5	247	322	166	.	.
MERCURY	.	0	0	0	0	0	0	0	0.0003	0.0001
MAGNESIUM	32	32	18.5	48	114.4	27.7	36.7	17.8	217.5	171.5
MANGANESE	.	0.28	0.235	0.16	0.093	0	0	0	4.1	3
SODIUM	312	314	213	460	855.3333	168.6667	297	161	511	683.75
NICKEL	.	0	0	0	0	0	0	0	6.456	0.13
LEAD	.	0	0	0	0.0013	0	0	0	0.0167	0
ANTIMONY	.	0	0	0	0	0	0	0	0	0
SELENIUM	.	0	0	0	0	0	0	0	0.0087	0
SILICA	.	.	.	.	60.2	23.8	40.8	21.8	.	.
THALLIUM	.	0	0	0	0	0	0	0	0	0
ZINC	.	0.31	0.115	0	1.3617	0.0333	0	0	4.1433	0.845
CARBONATE	.	.	.	.	0	0	0	0	.	.
BICARBONATE	442	440	270.5	339	351	280.3333	310	235	383	188
HYDROXIDE	.	.	.	.	0	0	0	0	.	.
ALKALINITY	362	361	222	278	329.6667	255.3333	310	235	212	164.4
CHLORIDE	246	218	172.5	360	1016.6667	164.6667	240	100	2898	1240
pH	.	.	.	.	7.75	7.9	7.8	8.1	.	.
SULFATE	.	292	267.5	710	1280	116	230	100	875.6	1069.4
TDS	1140	1260	943	2020	4136.6667	720	1090	580	6490	4232.2
BOD	.	.	.	.	.	0	.	.	.	.
CHROMIUM(HEX)	.	0	0	0	0	0	.	.	0.4	0
FLUORIDE	.	5	4.55	0.3	4.8	4.6333	5.32	4.23	8.136	14.54
AMMONIA	.	1.7	0.4	2.7	.	0.015	.	.	47	17
NITRATE	.	3.2	3	4.3	43	3.0667	8.3	2	45.92	84.84
PHOSPHOROUS(TOTAL)	.	0	0	0.17	0	0	.	.	16.252	41.19
BORON	.	1.3	0.825	7	4.5	0.555	.	.	2.92	3.38
BARIUM	.	0	0	0	0	0.0485	.	.	0.074	0.0764
PHOSPHATE,ORTHO (AS P)	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	7.5	6.6	6	20	6.4	.	.	30	15
CYANIDE	.	0	0	0	0	0	.	.	0	0

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TABLE E7.1
MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	DM303	DM304	DM305	DM306	DM307	DM308	DM309	DM310	DM311	DM312
ZONE	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM
SILVER	0	0	0	0	0	0	0	0	0	0
ARSENIC	0.059	0.073	0.017	0.009	0.006	0.006	0.018	0.052	0.18	0.012
BERYLLIUM	0	0	0	0	0	0	0	0	0	0
CALCIUM	157.25	183.15	79.8	64.1	52.7	47.7	32.8	19.1	3	42.4
CADMIUM	0	0	0	0	0	0	0	0	0	0
CHROMIUM	0	0	0	0	0	0	0	0	0.019	0.011
COPPER	0.0125	0	0	0	0	0	0	0	0	0
IRON	0.008	0.0188	0	0	0	0	0	0	0	0
HARDNESS	605.75	743.5	352	352	387.5	313	123	68.7	14.9	240
MERCURY	0	0	0	0	0	0	0	0	0	0
MAGNESIUM	51.8	66.85	37	46.7	62.2	47	9.9	5.1	1.8	32.7
MANGANESE	1.2775	1.681	0.012	0.018	0.0165	0	0.018	0	0	0.01
SODIUM	517	567.75	286	290	230	273	449	400	518	668
NICKEL	0.0253	0.0288	0	0	0	0	0	0	0	0
LEAD	0.003	0.0035	0	0	0	0	0	0	0	0
ANTIMONY	0	0	0	0	0	0	0	0	0	0
SELENIUM	0.0013	0.0045	0	0	0	0	0	0	0	0.008
SILICA	30.525	27.15	15.5	17.5	20.95	16.6	17.2	13.8	9.4	17.1
THALLIUM	0	0	0	0	0	0	0	0	0	0
ZINC	0.0068	0.0183	0.011	0.011	0.0125	0	0	0	0	0.012
CARBONATE	0	0	0	0	0	0	0	0	84	0
BICARBONATE	236.5	310.25	296	299	394.5	280	450	405	297	352
HYDROXIDE	0	0	0	0	0	0	0	0	0	0
ALKALINITY	236.5	310.25	296	299	394.5	280	450	405	381	352
CHLORIDE	572.5	720	280	300	220	270	310	260	360	560
pH	7.65	7.575	7.8	7.7	7.55	7.8	7.8	8.1	9.1	8
SULFATE	605.25	709.75	270	240	190	220	200	160	200	470
TDS	2315	2770	1200	1200	1100	1100	1300	1200	1400	2100
BOD	0	0	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	.
FLUORIDE	12.9	18.2	3.42	4.45	5.775	6.54	4.62	6.3	8.78	7.73
AMMONIA	.	.	.	.	.	.	.	.	.	.
NITRATE	37	66	8.6	7.9	6.3	11	4.1	4.3	8.5	19
PHOSPHOROUS(TOTAL)	.	.	.	.	.	.	.	.	.	.
BORON	.	.	.	.	.	.	.	.	.	.
BARIUM	.	.	.	.	.	.	.	.	.	.
PHOSPHATE,ORTHO (AS P)	.	.	.	.	.	.	.	.	.	.
POTASSIUM	10.35	17.6	7.2	10.6	17.9	19.8	6.3	3.7	21.7	17.7
CYANIDE	.	.	.	.	.	.	.	.	.	.

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MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	DM313	DM503	DM504	DM505	DM508	DM509	DM601-040	DM601-085	DM601-200	DM602
ZONE	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	INTERFACE	BEDROCK	BEDROCK	ALLUVIUM
SILVER	0	0	0	0	0	0	0	0	0	0
ARSENIC	0.07	0.0242	0.011	0	0.0145	0.01	0	0.009	0.006	0.0123
BERYLLIUM	0	0	0	0	0	0	0	0	0	0
CALCIUM	17.1	81	31.225	175.25	36.8	16.5	148	23.1	59.05	62.375
CADMIUM	0	0	0	0	0	0	0	0	0	0
CHROMIUM	0	0	0	0	0.0065	0	0	0	0	0
COPPER	0	0.004	0.0075	0	0.0105	0	0.038	0.024	0.0235	0
IRON	0.053	0.075	1.378	0.0333	4.9725	0.009	1.43	0.2	0.6745	0.005
HARDNESS	90.9	345.2	128.8	640	149	81.4	704	96	197	278
MERCURY	0	0	0	0	0	0	0	0	0	0
MAGNESIUM	11.7	35.04	12.325	48.9	14.6	9.8	81.3	9.3	17.3	29.675
MANGANESE	0.02	0.2648	0.1638	0.047	0.106	0	0.417	0.02	0.064	0.0223
SODIUM	661	606.2	373.75	216.25	357.5	260	615	467	184	193.75
NICKEL	0	0	0	0	0	0	0	0	0	0
LEAD	0	0.0014	0.0045	0	0.003	0	0	0	0	0
ANTIMONY	0	0	0	0	0	0	0	0	0	0
SELENIUM	0	0	0	0.0018	0	0	0	0	0	0
SILICA	14.3	45.06	57.825	27.95	206	34.9	2.9	11	14.55	16.325
THALLIUM	0	0.001	0	0	0	0	0.008	0	0	0
ZINC	0.016	0.0468	0.054	0.034	0.0495	0.0055	0	0.013	0.02	0.0205
CARBONATE	0	0	22	0	11	45	0	2	0	0
BICARBONATE	432	305.2	334.25	135	276	118	126	208	170.5	280.5
HYDROXIDE	0	0	0	0	0	0	0	0	0	0
ALKALINITY	432	305.2	356.25	135	287	163	126	210	170.5	280.5
CHLORIDE	430	370	295	340	270	240	800	380	85	190
pH	8.1	7.96	8.35	7.9	8.55	9	8.2	8.4	7.95	7.7
SULFATE	380	1030	165	502.5	180	170	840	320	145	148
TDS	1900	2454	1132.5	1467.5	1100	830	2600	1400	775	850
BOD	.	0	0	0	0	3	.	.	.	.
CHROMIUM(HEX)	.	.	.	0	0	.	.	.	.	.
FLUORIDE	9.55	6.18	8.01	2.375	3.08	0.38	7.85	5.21	2.985	7.45
AMMONIA	.	0.175	0.755	0.035	0.07	0.16	.	.	.	.
NITRATE	10.2	7.85	4.7	0.61	4.95	1.185	18	16	3.315	3.5
PHOSPHOROUS(TOTAL)	.	0	0	0	0.29	0	.	.	.	.
BORON	.	3.35	1.325	0.155	1.125	1.415	.	.	.	.
BARIUM	.	0.0395	0.044	0.16	0.0515	0.03	.	.	.	.
PHOSPHATE,ORTHO (AS P)	.	.	.	.	0	.	.	.	.	.
POTASSIUM	6.9	4.85	3.9	4.5	7.45	17.35	26.2	.	5.1	7.6
CYANIDE	.	0	0	0	0	0	.	.	.	.

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MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	DM603-115	DM603-245	DM604	DM605-105	DM605-290	DM606-045	DM606-370	DM701	MP03-A	MP03-B
ZONE	INTERFACE	BEDROCK	ALLUVIUM	INTERFACE	BEDROCK	INTERFACE	BEDROCK	ALLUVIUM	ALLUVIUM	INTERFACE
SILVER	0	0	0	0	0	0	0	0	.	0.0024
ARSENIC	0	0	0.024	0	0	0	0.006	0.017	.	0.0191
BERYLLIUM	0	0	0	0	0	0	0	0	.	0
CALCIUM	28.1	110	38.55	5.3	50.2	63.2	59.9	200	.	507.5
CADMIUM	0	0	0	0	0	0	0	0	.	0
CHROMIUM	0	0	0	0	0	0	0	0	.	0.0054
COPPER	0.032	0.053	0.012	0.029	0.042	0.014	0	0	.	0.0051
IRON	0.68	0.4	0.4645	0.039	0	0.387	1	0	.	0.0478
HARDNESS	109	340	221.5	1784	168	370.5	208	762	.	1870
MERCURY	0	0	0	0	0	0	0	0	.	0.0002
MAGNESIUM	9.5	15.9	30.4	0.6	10.3	51.65	14.2	63.7	.	163.625
MANGANESE	0.087	0.016	0.008	0	0	0.1075	0.332	0	.	4.8325
SODIUM	227	326	234.5	424	314	191	277	639	.	766.25
NICKEL	0	0	0	0	0	0	0	0	.	0.098
LEAD	0	0.002	0	0	0	0	0	0	.	0.0178
ANTIMONY	0	0	0	0	0	0	0	0	.	0
SELENIUM	0	0	0	0	0	0	0	0	.	0.0041
SILICA	11	17.6	17.45	17.2	16.7	19.95	12.2	25.4	.	35.5
THALLIUM	0	0	0	0	0	0	0	0.007	.	0.0043
ZINC	0.013	0.015	0.0365	0	0	0.005	0.099	0	.	0.0328
CARBONATE	0	0	0	35	0	0	0	0	.	0
BICARBONATE	153	164	317.5	292	194	439	326	278	.	300.25
HYDROXIDE	0	0	0	0	0	0	0	0	.	0
ALKALINITY	153	164	317.5	327	194	439	326	278	.	253.125
CHLORIDE	190	310	190	260	210	285	280	470	554	1385
pH	8.2	8.2	7.9	8.8	8.1	7.95	8	7.8	.	6.805
SULFATE	160	410	127	180	270	105	58	1300	412	1183.75
TDS	740	1300	855	1100	1100	970	1000	2700	.	4721.25
BOD	.	.	.	.	.	.	.	.	.	35
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	0.014
FLUORIDE	4.34	2.45	5.22	3.88	4.34	6.18	5.54	4.03	46	15.0167
AMMONIA	.	.	.	.	.	.	.	.	.	10.28
NITRATE	1.5	1.32	5.5	1.9	11	1.245	0.16	13.9	8.3	83.5
PHOSPHOROUS(TOTAL)	.	.	.	.	.	.	.	.	0.47	0.418
BORON	.	.	.	.	.	.	.	.	.	3.362
BARIUM	.	.	.	.	.	.	.	.	.	0.1176
PHOSPHATE,ORTHO (AS P)	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	11.7	.	.	12.4	10	6	.	.
CYANIDE	.	.	.	.	.	.	.	.	.	0.0025

NOTE: 0 = NOT DETECTED
. = NOT ANALYZED

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TABLE E7.1
MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	MP03-C	MP03-D	MP09-A	MP09-B	MP09-C	MP09-D	MP11-A	MP11-B	MP11-C	MP11-D
ZONE	BEDROCK	BEDROCK	ALLUVIUM	INTERFACE	BEDROCK	BEDROCK	ALLUVIUM	INTERFACE	BEDROCK	BEDROCK
SILVER	0	0	0.0013	0	0	0	0	0.02	0	0
ARSENIC	0.0256	0.0223	0.1072	0.0343	0.0163	0.0348	0.0564	0.5775	0.0253	0.0305
BERYLLIUM	0.0075	0.0075	0.0043	0	0	0	0	0	0	0
CALCIUM	16.3075	17.5	302.1667	120.6	63.05	82.25	199.75	35.2667	33.9333	7.85
CADMIUM	0.0008	0	0.0057	0	0	0.003	0	0.0027	0	0
CHROMIUM	0.0044	0.03	0.0379	0.0133	0	0	0.0011	0.0029	0.0187	0
COPPER	0	0	0.0016	0.006	0	0.0028	0	0.0193	0.0233	0
IRON	0.008	0.0363	0.5879	0.0135	0.419	0.3178	0.1093	0.0981	5.0407	0
HARDNESS	51	50.7667	1523.3333	522	254.5	351.25	1260	29.7	50.85	25.8
MERCURY	0	0	0.0002	0	0	0	0	0.0001	0	0
MAGNESIUM	1.49	1.7333	120.2417	53.7	23.55	35.5	115.25	17.3	4.4667	1.5
MANGANESE	0	0.0263	3.595	0.66	1.485	0.8698	0.678	0.0226	0.177	0
SODIUM	398.25	301.3333	571.75	783.5	402.5	397	587.5	609.4444	247.3333	181.5
NICKEL	0.0278	0.0263	0.0384	0.2567	0.0483	0.0938	0.1341	0.0466	0.156	0.029
LEAD	0.0025	0.0267	0.0008	0.005	0	0.004	0.0113	0.0293	0.0283	0.048
ANTIMONY	0	0	0	0	0	0	0	0	0	0
SELENIUM	0	0	0.0012	0.004	0	0	0	0	0	0
SILICA	37.85	25.0667	26.2333	15.7	51	21.45	28.85	53.7667	26	14.7
THALLIUM	0	0	0.0003	0.0065	0	0	0.0017	0	0	0
ZINC	0	0.007	0.0047	0	0	0.0028	0.0123	0.0246	0.1717	0
CARBONATE	56	35.6667	0	0	0	0	0	475	10.5	5.5
BICARBONATE	206.5	161	283.25	285	691	460.75	186.75	26.25	276	306.5
HYDROXIDE	0	0	0	0	0	0	0	83	0	0
ALKALINITY	292.2222	223	387.4667	345	477.5	460.75	200.625	350.75	260.3333	312
CHLORIDE	303.8889	228.2571	878.3333	752.8333	280.8333	400	643.625	364.5	93.3333	26
pH	9.35	9.1	7.4125	7.75	7.8	7.7	7.85	10.0075	8.5	8.45
SULFATE	112.1111	103.2857	851.5333	714.3333	280	237.5	720.125	509.3333	223.3333	39
TDS	1213.2222	946.8571	3162.9333	2700.1667	1419.6667	1500	2470.625	1810.9167	776.6667	515
BOD	.	.	129.8	.	.	.	0	6.2	.	.
CHROMIUM(HEX)	0	0	0.0125	0	0	.	0	0	0	.
FLUORIDE	4.5757	4.86	14.3985	9.705	8.6857	6.4925	4.4229	7.9545	11.6	11.3
AMMONIA	.	.	35.9833	.	.	.	14.8	8.528	.	.
NITRATE	2.7629	8.904	25.8077	28.1833	0.5625	1.925	21.85	13.04	3.7	2.755
PHOSPHOROUS(TOTAL)	0.6729	0.29	0.5069	0.0975	0	.	0.0614	0.358	1.5	.
BORON	0.4271	0.35	2.7569	1.9175	1.83	.	1.4083	1.4475	1.3	.
BARIUM	0.0814	0.0167	0.0884	0.075	0.0575	.	0.0817	0.0759	0.2	.
PHOSPHATE,ORTHO (AS P)	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	21.9	26.8	.	13.7	7.1	.	12	5.7
CYANIDE	0	0	0.005	0	0	.	0.18	0.0963	0	.

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. = NOT ANALYZED

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TABLE E7.1
MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	MP13-A	MP13-B	MP13-C	MP13-D	MP16-A	MP16-B	MP16-C	MP16-D	MP20-A	MP20-B
ZONE	ALLUVIUM	INTERFACE	BEDROCK	BEDROCK	ALLUVIUM	INTERFACE	BEDROCK	BEDROCK	INTERFACE	BEDROCK
SILVER	.	0.005	0	0	0.0012	0	0	0	0	0
ARSENIC	0	0.0374	0.011	0	0.0282	0.086	0.0275	0	0.0303	0.0935
BERYLLIUM	.	0	0	0	0	0	0	0	0	0
CALCIUM	.	46.45	71.35	67	159.5778	5.4	9.65	16	95	12.35
CADMIUM	.	0	0	0	0.0004	0	0	0	0	0
CHROMIUM	0	0	0	0	0.0111	0	0	0	0	0
COPPER	.	0	0	0	0.0017	0	0	0	0	0
IRON	.	0.1253	0	0.1	0.1282	0.12	0	0.23	0	0.0355
HARDNESS	.	158.6667	250	.	180.1	.	36.05	.	373	47.9
MERCURY	.	0	0	0	0	0	0	0	0	0
MAGNESIUM	.	7.225	17.45	15	73.1667	0.5	2.9	3	41.8	4.15
MANGANESE	.	0.3948	0.2095	0.05	0.0998	0	0.009	0	0.0243	0.005
SODIUM	.	223	24.15	36	826.4444	353	336.5	279	453.6667	663.5
NICKEL	0	0.0404	0	0	0.1173	0	0	0	0	0
LEAD	.	0.044	0	0.079	0.0051	0.053	0	0.026	0.0013	0.0025
ANTIMONY	.	0	0	0	0	0	0	0	0	0
SELENIUM	.	0	0	0	0	0	0	0	0	0
SILICA	.	57.7333	52.95	.	30.4333	.	33.6	.	79.6	50.9
THALLIUM	.	0	0	0	0.0015	0	0	0	0	0
ZINC	.	0.0565	0	0	0.0522	0	0	0	0	0
CARBONATE	.	0	0	.	0	.	11.5	.	0	18
BICARBONATE	.	257	279.5	276	353.8	392	385.5	505	310.6667	342.5
HYDROXIDE	.	0	0	.	0	.	0	.	0	0
ALKALINITY	.	246.5	279.5	226	323.4444	451	397	414	294	360.5
CHLORIDE	.	129	8.6	34	693.8889	95	101.5	84	418	445
pH	.	7.8333	7.95	.	8.062	.	8.45	.	8	8.5
SULFATE	.	227.25	9.05	15	977.7778	180	230	140	512.3333	535
TDS	.	865	330	342	3092.2222	1100	975	840	1826.6667	1950
BOD	.	.	.	.	4	.	.	.	.	.
CHROMIUM(HEX)	.	0	.	0	0	0	.	0	0	.
FLUORIDE	5.5	4.6633	.	3.2	9.1071	16	.	16	6.2	.
AMMONIA	.	0.475	.	0.2	0	0.7	.	0	0	.
NITRATE	.	1.375	.	2.1	34.7714	2.5	.	0	3.3	.
PHOSPHOROUS(TOTAL)	0	0.0833	.	0	0	0.21	.	0	0	.
BORON	.	1.69	.	0.22	4.5717	2.9	.	2.7	1.8	.
BARIUM	.	0.0275	.	0	0.0056	0	.	0	0	.
PHOSPHATE,ORTHO (AS P)	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	8.35	.	6.9	18.65	12	.	3.7	8.5	.
CYANIDE	.	0	.	0	0.0017	0	.	0	0	.

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TABLE E7.1
MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	MP20-C	MP25-D	MP28-A	MP28-B	MP28-C	MP28-D	MP30-A	MP30-B	MP30-C	MP30-D
ZONE	BEDROCK	BEDROCK	INTERFACE	BEDROCK	BEDROCK	BEDROCK	ALLUVIUM	INTERFACE	BEDROCK	BEDROCK
SILVER	0	0	0	0	0	0	0	0.1	0	0
ARSENIC	0	0.018	0.005	0.007	0.01	0.0017	0.032	0.11	0.023	0.0075
BERYLLIUM	0	0	0	0	0	0	0	0	0	0
CALCIUM	16.9667	29	65.35	77.1667	101.05	145.6667	98.9	5	24.5	47.85
CADMIUM	0	0	0	0	0	0.0017	0	0	0	0
CHROMIUM	0	0	0	0.0083	0	0.021	0	0.01	0	0
COPPER	0	0	0	0	0	0	0	0	0	0
IRON	0.0567	0	0	0.1267	0	0.1267	0	0.292	0	0.085
HARDNESS	47.6	94.6	165	232.5	343.5	442	505.5	65.2	110	169
MERCURY	0	0	0	0	0	0	0	0	0	0
MAGNESIUM	2.8333	5.4	0.35	20.6667	22.2	20.9333	59.4667	0.2	11.8	13.4
MANGANESE	0	0.034	0	0	0	0.0093	0.0233	0	0	0.027
SODIUM	404	74.1	260	537.6667	252.5	262.6667	142.3333	295	147	134
NICKEL	0	0.14	0	0	0	0.0607	0.0087	0.04	0.03	0.045
LEAD	0	0	0	0.0307	0	0	0	0.014	0.08	0.003
ANTIMONY	0	0	0	0	0	0	0	0	0	0
SELENIUM	0	0	0	0	0	0	0	0	0	0
SILICA	27.5	46.2	35.3	18.4	46.3	42.35	61.7	37.6	40.2	34
THALLIUM	0	0	0	0	0	0	0	0	0	0
ZINC	0.0183	0	0	0	0	0.034	0	0	0	0
CARBONATE	87	0	47	2	0	0	0	168	0	0
BICARBONATE	42	176	0	111.3333	237	172	421.3333	44	189	202.5
HYDROXIDE	0	0	70	0	0	0	0	0	0	0
ALKALINITY	122.6667	176	117	104.3333	237	160.6667	391.3333	212	189	181
CHLORIDE	349.3333	24	245	168	180	167	221.3333	160	100	99.5
pH	9.7	8.2	11.05	8.4	7.95	7.8	7.8	10	8.2	8
SULFATE	366	32	245	1146.6667	445	616.6667	116	210	83	135
TDS	1306.6667	330	965	2006.6667	1195	1403.3333	947.3333	820	520	591
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	0	.	.	0	.	0	0	.	.	0
FLUORIDE	2.2	.	.	3.8	.	3.2	4.5	.	.	5
AMMONIA	0.4	.	.	.	.	.	0	.	.	0
NITRATE	2.2	.	.	3.9	.	3.9	2.015	.	.	2.2
PHOSPHOROUS(TOTAL)	0	.	.	0.04	.	0	0	.	.	0
BORON	5.1	.	.	4.6	.	2.1	0.33	.	.	0.41
BARIUM	0	.	.	0	.	0	0.046	.	.	0
PHOSPHATE,ORTHO (AS P)	.	.	.	.	.	.	.	.	.	.
POTASSIUM	9.2	.	.	12	.	5.4	4.3	.	.	3.8
CYANIDE	0	.	.	0	.	0	0	.	.	0

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TABLE E7.1
MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	MP36-A	MP36-B	MP36-C	MP36-D	MP37-C	MP48-D	MP49-A	MP49-B	MP49-C	MP49-D
ZONE	ALLUVIUM	INTERFACE	BEDROCK	BEDROCK	BEDROCK	BEDROCK	ALLUVIUM	INTERFACE	BEDROCK	BEDROCK
SILVER	0	0.0015	0	0	0	0	0	0	0	0
ARSENIC	0.0469	0.1734	0.055	0.0186	0.0245	0	0.0125	0.019	0.052	0.003
BERYLLIUM	0	0	0	0	0	0	0	0	0	0
CALCIUM	77.48	349.7	270	139.175	5.7	38	47.15	48.4833	1.3	20.2
CADMIUM	0	0.0011	0	0	0	0	0	0	0	0
CHROMIUM	0.001	0.0009	0	0	0	0	0	0	0	0
COPPER	0	0.003	0	0.004	0.021	0	0	0	0	0
IRON	0.0974	0.0041	0.0275	0	0.093	0	0.017	0.0075	0.025	0.01
HARDNESS	228	1264	1370	511.5	20.2	.	196	248.5	3.2	62.8
MERCURY	0	0	0	0	0	0	0	0	0	0
MAGNESIUM	34.48	132.77	98.75	39.6875	1.45	9.2	27.75	27.6	0	4.55
MANGANESE	0.8188	4.869	3.2875	1.0201	0.073	0	0	0.0038	0	0
SODIUM	281.2	753.8	656.75	289.25	268	340	120	297.5	484	174
NICKEL	0.0322	0.0479	0.079	0.02	0.1235	0	0	0.015	0	0
LEAD	0.0012	0.002	0.0088	0.015	0.031	0	0	0	0	0
ANTIMONY	0	0	0	0	0	0	0	0	0	0
SELENIUM	0	0.0056	0.0093	0.003	0	0	0	0.001	0	0
SILICA	33.6667	29.08	37.4333	31.9875	15.75	.	27.6	46.5	77.1	35.5
THALLIUM	0	0.0024	0.0018	0.0009	0	0	0	0	0	0
ZINC	0.0038	0	0	0.0143	0.023	0	0	0	0	0
CARBONATE	0	0	8	0	22	.	0	0	256	0
BICARBONATE	356	200.8333	230.5	179.25	447.5	347	199	308.5	0	258
HYDROXIDE	0	0	0	0	0	.	0	0	226	0
ALKALINITY	345.5556	187.0714	224	179.25	469.5	284	199	288.8333	482	232
CHLORIDE	308.5556	1205.9286	884.75	362.5	21	252	138	230.1667	170	60.5
pH	7.8	7.15	7.4333	7.9125	8.6	.	8.1	8.05	11.5	8.3
SULFATE	335.7778	1062.2143	927.5	460	63.5	226	80	227.6667	160	87
TDS	1402.2222	4103.2857	3525	1571.25	705	1100	560	1068	1190	543
BOD	0	2.3333	0	0	.	.	0	0	.	.
CHROMIUM(HEX)	0	0	0	.	.	0	0	0	.	0
FLUORIDE	7.5857	21.9118	9.2	4.93	11.105	4	2.885	4.76	13.5	5.125
AMMONIA	13.8	20.74	.	.	.	.	0.03	0.03	.	0
NITRATE	23.8667	89.1	3.4	16	1.51	2.3	1.33	6.7883	7.6	5.2
PHOSPHOROUS(TOTAL)	0.0157	0.882	0.22	.	.	0	0	0	.	0
BORON	1.335	3.3438	0.89	.	.	3.3	0.18	0.92	.	0.61
BARIUM	0.0343	0.058	0	.	.	0	0.062	0.0245	.	0
PHOSPHATE,ORTHO (AS P)	.	.	.	.	.	.	.	.	.	.
POTASSIUM	14.45	17.4	14.05	13.1	4.2	6.4	.	7.4	.	4.8
CYANIDE	0	0	0	.	.	0	0	0	.	0

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TABLE E7.1
MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	MP50-A	MP50-B	MP50-D	MP51-A	MP51-B	MP51-D	MP52-B	MP52-C	MP53-B	MP53-D
ZONE	ALLUVIUM	ALLUVIUM	BEDROCK	ALLUVIUM	ALLUVIUM	BEDROCK	INTERFACE	BEDROCK	INTERFACE	BEDROCK
SILVER	0	0	0	0	0	0	0	0	0	0
ARSENIC	0.013	0.0075	0	0.014	0.0366	0	0.0023	0	0.0885	0.027
BERYLLIUM	.	0	0	.	0	0	0	0	0	0
CALCIUM	23	39.8	71	62.6	19.6	80	145.2857	52	37.15	16
CADMIUM	0	0	0	0	0.0004	0	0.0006	0	0	0
CHROMIUM	0	0	0	0	0.0029	0	0	0	0.027	0
COPPER	0	0	0	0	0	0	0.0017	0	0	0
IRON	0	0	0	0	0.0844	0	0.0231	0	0.075	0.27
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	0	0	0	0	0	0	0	0	0	0
MAGNESIUM	31.6	49.15	13	21.8	19.5	13.4	58.3143	7.6	38.9	15
MANGANESE	0	0	0	0	0	0	0.009	0	0	0
SODIUM	259	266	220	530	396.5714	270	627.8571	260	629	150
NICKEL	.	0	0	.	0	0	0	0	0	0
LEAD	0	0	0	0	0.0009	0	0.0157	0	0	0
ANTIMONY	.	0	0	.	0	0	0	0	0	0
SELENIUM	0	0	0	0.012	0	0	0	0	0	0
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	.	0	0	.	0	0	0	0	0	0
ZINC	0	0	0	0	0	0	0	0	0	0
CARBONATE	10	0	.	0	9	.	0	.	0	.
BICARBONATE	343	423.5	245	202	449.6667	214	284.6667	351	419	256
HYDROXIDE	0	0	.	0	0	.	0	.	0	.
ALKALINITY	353	394.5	201	202	425.8571	175	274	288	377	210
CHLORIDE	200	240.5	169	470	246.7143	191	416.4286	137	454	50
pH	.	.	.	.	8.3	.	7.57	.	.	.
SULFATE	110	155	230	330	196.1429	292	1063.2857	165	601	125
TDS	830	1000	940	1330	1322.8571	1050	2487.1429	996	1985	470
BOD	0	0	.	0	4.6	.	2.25	.	0	.
CHROMIUM(HEX)	0	0	0	0	0	0	0	0	0	0
FLUORIDE	7.64	6.57	4	9.13	8.3629	4.1	3.4357	2.2	6.885	4.6
AMMONIA	0	0	.	0.05	0.0957	0	0.09	0	0.04	.
NITRATE	4.7	6.65	5	27.7	6.5557	7.2	10.7286	5	8.2	6.6
PHOSPHOROUS(TOTAL)	0	0	0	0	0.0129	0	0.0186	0	0.045	0
BORON	0.8	0.835	1.35	1.88	1.2183	1.1	3.5483	1.4	2.055	0.36
BARIUM	0.042	0.045	0	0.045	0.0096	0	0.0081	0	0.016	0
PHOSPHATE,ORTHO (AS P)	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	13	5.3	.	3.1	4.6	9.1	6.6	9.4	2.7
CYANIDE	0	0	0	0	0.0017	0	0.0017	0	0	0

NOTE: 0 = NOT DETECTED
. = NOT ANALYZED

THE MEANS PRESENTED IN THE TABLE ARE CALCULATED FROM TESTS WITH VARIOUS DETECTION LIMITS. THE NUMBERS ARE PRESUMED TO BE ACCURATE TO NO MORE THAN 2 OR 3 SIGNIFICANT FIGURES.

TABLE E7.1
MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	PZ01	PZ02	PZ03	PZ04	PZ05	PZ06	PZ07	PZ08	PZ09	PZ10
ZONE	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM	ALLUVIUM
SILVER	.	.	.	.	.	.	.	.	.	.
ARSENIC	0.046	0.02	0	0.03	0.16	0.04	0.29	0	0.14	0.07
BERYLLIUM	.	.	.	.	.	.	.	.	.	.
CALCIUM	.	.	.	.	.	.	.	.	.	.
CADMIUM	.	.	.	.	.	.	.	.	.	.
CHROMIUM	0	0	0.1	0	0	0.025	0	0.025	0	0
COPPER	.	.	.	.	.	.	.	.	.	.
IRON	.	.	.	.	.	.	.	.	.	.
HARDNESS	.	.	.	.	.	.	.	.	.	.
MERCURY	.	.	.	.	.	.	.	.	.	.
MAGNESIUM	.	.	.	.	.	.	.	.	.	.
MANGANESE	.	.	.	.	.	.	.	.	.	.
SODIUM	.	.	.	.	.	.	.	.	.	.
NICKEL	0	0	0.11	0	0.2	0	0.11	0.2	0	0.14
LEAD	.	.	.	.	.	.	.	.	.	.
ANTIMONY	.	.	.	.	.	.	.	.	.	.
SELENIUM	.	.	.	.	.	.	.	.	.	.
SILICA	.	.	.	.	.	.	.	.	.	.
THALLIUM	.	.	.	.	.	.	.	.	.	.
ZINC	.	.	.	.	.	.	.	.	.	.
CARBONATE	.	.	.	.	.	.	.	.	.	.
BICARBONATE	.	.	.	.	.	.	.	.	.	.
HYDROXIDE	.	.	.	.	.	.	.	.	.	.
ALKALINITY	.	.	.	.	.	.	.	.	.	.
CHLORIDE	.	.	.	.	.	.	.	.	.	.
pH	.	.	.	.	.	.	.	.	.	.
SULFATE	.	.	.	.	.	.	.	.	.	.
TDS	.	.	.	.	.	.	.	.	.	.
BOD	.	.	.	.	.	.	.	.	.	.
CHROMIUM(HEX)	.	.	.	.	.	.	.	.	.	.
FLUORIDE	4.7	3	2	14	7.1	12	8.4	7.1	7.1	10
AMMONIA	.	.	.	.	.	.	.	.	.	.
NITRATE	.	.	.	.	.	.	.	.	.	.
PHOSPHOROUS(TOTAL)	0.05	0	0.18	0.06	0.12	0	0.13	0.9	0	0
BORON	.	.	.	.	.	.	.	.	.	.
BARIUM	.	.	.	.	.	.	.	.	.	.
PHOSPHATE,ORTHO (AS P)	.	.	.	.	.	.	.	.	.	.
POTASSIUM	.	.	.	.	.	.	.	.	.	.
CYANIDE	.	.	.	.	.	.	.	.	.	.

NOTE: 0 = NOT DETECTED
. = NOT ANALYZED

THE MEANS PRESENTED IN THE TABLE ARE CALCULATED FROM TESTS WITH VARIOUS DETECTION LIMITS. THE NUMBERS ARE PRESUMED TO BE ACCURATE TO NO MORE THAN 2 OR 3 SIGNIFICANT FIGURES.

TABLE E7.1
MEAN CONCENTRATIONS OF INORGANIC CONSTITUENTS IN PPM
RI (1985-1986) AND POST-RI (1987-1991)

WELL	SW-1	WILLIS
ZONE	INTERFACE	ALLUVIUM
SILVER	0	0
ARSENIC	0.3286	0.007
BERYLLIUM	0	.
CALCIUM	252.2857	62.3
CADMIUM	0.0024	0
CHROMIUM	0.7555	0
COPPER	0	0
IRON	7.53	10.5
HARDNESS	.	.
MERCURY	0	0
MAGNESIUM	111.1429	15.6
MANGANESE	2.4333	0.052
SODIUM	626.1429	539
NICKEL	0.039	.
LEAD	0.0078	0.003
ANTIMONY	0	.
SELENIUM	0	0
SILICA	.	.
THALLIUM	0	.
ZINC	0.0529	0.068
CARBONATE	.	0
BICARBONATE	305.6667	209
HYDROXIDE	.	0
ALKALINITY	319.5	209
CHLORIDE	937.8	351
pH	.	.
SULFATE	864.2	420
TDS	3152	1380
BOD	.	0
CHROMIUM(HEX)	0.3909	0
FLUORIDE	14.7882	4.2
AMMONIA	12	0.32
NITRATE	14.96	9.3
PHOSPHOROUS(TOTAL)	14.197	0.06
BORON	2.719	1.52
BARIUM	0.133	0.034
PHOSPHATE,ORTHO (AS P)	.	.
POTASSIUM	12.9	.
CYANIDE	0.0164	0

NOTE: 0 = NOT DETECTED
. = NOT ANALYZED

THE MEANS PRESENTED IN THE TABLE ARE CALCULATED FROM TESTS WITH VARIOUS DETECTION LIMITS. THE NUMBERS ARE PRESUMED TO BE ACCURATE TO NO MORE THAN 2 OR 3 SIGNIFICANT FIGURES.

Table E7.2

1991 MAXIMUM, MEAN AND MINIMUM MEASURED FLUORIDE CONCENTRATIONS IN PPM

Well	Zone	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
40&VB	A	4.92	4.92	4.92	1
DM107	A	4.48	4.48	4.48	1
DM111	A	8.09	8.09	8.09	1
DM115	A	4.48	4.48	4.48	1
DM117	A	6.17	6.06	5.96	2
DM118	A	7.09	7.09	7.09	1
DM120	A	6.46	6.46	6.46	1
DM122-B	I	5.45	5.45	5.45	1
DM124	A	4.06	4.06	4.06	1
DM303	A	12.90	12.90	12.90	1
DM304	A	18.20	18.20	18.20	1
DM305	A	3.42	3.42	3.42	1
DM306	A	4.45	4.45	4.45	1
DM307	A	5.78	5.78	5.78	1
DM308	A	6.54	6.54	6.54	1
DM309	A	4.62	4.62	4.62	1
DM310	A	6.30	6.30	6.30	1
DM311	A	8.78	8.78	8.78	1
DM312	A	7.73	7.73	7.73	1
DM313	A	9.55	9.55	9.55	1
DM503	A	6.18	6.18	6.18	2
DM504	A	8.08	8.01	7.94	2
DM505	A	2.39	2.37	2.36	2
DM508	A	3.25	3.08	3.08	2
DM509	A	0.40	0.38	0.36	2
DM601-085	B	5.21	5.21	5.21	1

*The means presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

Table E7.2 (Continued)

Well	Zone	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM601-200	B	2.64	2.64	2.64	1
DM602	A	7.52	7.45	7.38	2
DM603-115	I	4.34	4.34	4.34	1
DM603-245	B	2.45	2.45	2.45	1
DM604	A	5.98	5.22	4.46	2
DM605-105	I	3.88	3.88	3.88	1
DM605-290	B	4.34	4.34	4.34	1
DM606-045	I	6.18	6.18	6.18	1
DM606-370	B	5.54	5.54	5.54	1
DM701	A	4.03	4.03	4.03	1
MP03-B	I	17.40	17.40	17.40	1
MP03-D	B	3.76	3.76	3.76	1
MP09-A	A	11.90	11.90	11.90	1
MP09-B	I	9.41	8.44	7.47	2
MP09-D	B	6.50	6.49	6.48	2
MP11-B	I	7.23	7.23	7.23	1
MP11-D	B	11.40	11.30	11.20	2
MP13-B	I	5.39	5.39	5.39	1
MP16-A	A	10.50	10.50	10.50	1
MP30-A	A	4.00	4.00	4.00	1
MP36-B	I	19.50	19.50	19.50	1
MP36-D	B	4.93	4.93	4.93	1
MP37-C	B	11.70	11.11	10.51	2

*The means presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

Table E7.3

1991 MAXIMUM, MEAN AND MINIMUM MEASURED ARSENIC CONCENTRATIONS IN PPM

Well	Zone	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM107	A	0.200	0.165	0.130	2
DM111	A	0.040	0.036	0.032	2
DM112	A	0.030	0.030	0.030	1
DM114	A	0.039	0.039	0.039	1
DM115	A	0.032	0.029	0.026	2
DM117	A	0.360	0.183	0.030	3
DM118	A	0.009	0.009	0.009	1
DM120	A	0.024	0.021	0.019	2
DM122-A	A	0.017	0.017	0.017	1
DM122-B	I	0.030	0.025	0.020	2
DM124	A	0.042	0.034	0.025	2
DM201	A	0.046	0.046	0.046	1
DM303	A	0.068	0.060	0.052	2
DM304	A	0.084	0.077	0.069	2
DM305	A	0.017	0.017	0.017	1
DM306	A	0.009	0.009	0.009	1
DM307	A	0.006	0.006	0.006	1
DM308	A	0.006	0.006	0.006	1
DM309	A	0.018	0.018	0.018	1
DM310	A	0.052	0.052	0.052	1
DM311	A	0.180	0.180	0.180	1
DM312	A	0.012	0.012	0.012	1
DM313	A	0.070	0.070	0.070	1
DM503	A	0.044	0.024	0.010	5

*The means presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

Table E7.3 (Continued)

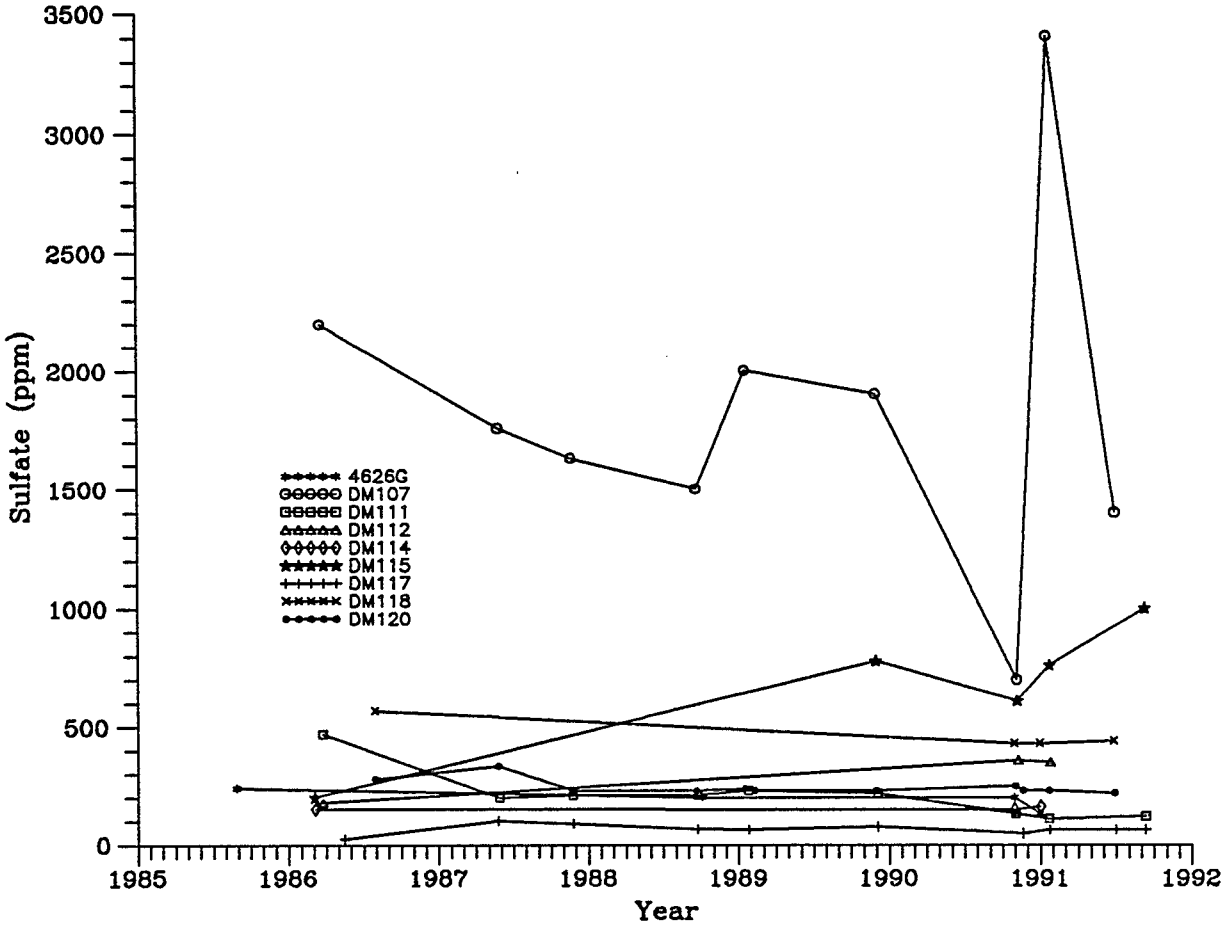
Well	Zone	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
DM504	A	0.008	0.008	0.007	3
DM505	A	0.000	0.000	0.000	4
DM508	A	0.015	0.014	0.014	2
DM509	A	0.012	0.010	0.008	2
DM601-085	B	0.009	0.009	0.009	1
DM601-200	B	0.006	0.006	0.006	1
DM602	A	0.014	0.012	0.011	2
DM603-115	I	0.000	0.000	0.000	1
DM603-245	B	0.000	0.000	0.000	1
DM604	A	0.032	0.024	0.016	2
DM605-105	I	0.000	0.000	0.000	1
DM605-290	B	0.000	0.000	0.000	1
DM606-045	I	0.000	0.000	0.000	1
DM606-370	B	0.006	0.006	0.006	1
DM701	A	0.017	0.017	0.017	1
MP03-B	I	0.026	0.025	0.024	2
MP03-C	B	0.023	0.023	0.023	1
MP03-D	B	0.030	0.029	0.028	2
MP09-A	A	0.046	0.039	0.032	2
MP09-B	I	0.046	0.036	0.026	2
MP09-C	B	0.012	0.012	0.012	1
MP09-D	B	0.037	0.035	0.033	2
MP11-A	A	0.048	0.048	0.048	1
MP11-B	I	0.600	0.515	0.430	2
MP11-C	B	0.027	0.027	0.027	1
MP11-D	B	0.033	0.030	0.028	2
MP13-B	I	0.045	0.042	0.039	2

*The means presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

Table E7.3 (Continued)

Well	Zone	1991 Maximum	1991 Mean	1991 Minimum	1991 Number of Observations
MP13-C	B	0.010	0.010	0.010	1
MP16-A	A	0.053	0.045	0.038	2
MP16-C	B	0.032	0.032	0.032	1
MP20-A	I	0.018	0.018	0.018	1
MP20-B	B	0.087	0.087	0.087	1
MP20-C	B	0.000	0.000	0.000	1
MP28-A	I	0.010	0.010	0.010	1
MP28-B	B	0.010	0.010	0.010	1
MP28-C	B	0.010	0.010	0.010	1
MP28-D	B	0.000	0.000	0.000	1
MP30-A	A	0.030	0.030	0.030	1
MP36-A	A	0.094	0.094	0.094	1
MP36-B	I	0.113	0.104	0.094	2
MP36-C	B	0.076	0.076	0.076	1
MP36-D	B	0.015	0.014	0.013	2
MP37-C	B	0.027	0.025	0.022	2

*The means presented in the table are calculated from tests with various detection limits. The numbers are presumed to be accurate to no more than 2 or 3 significant figures.

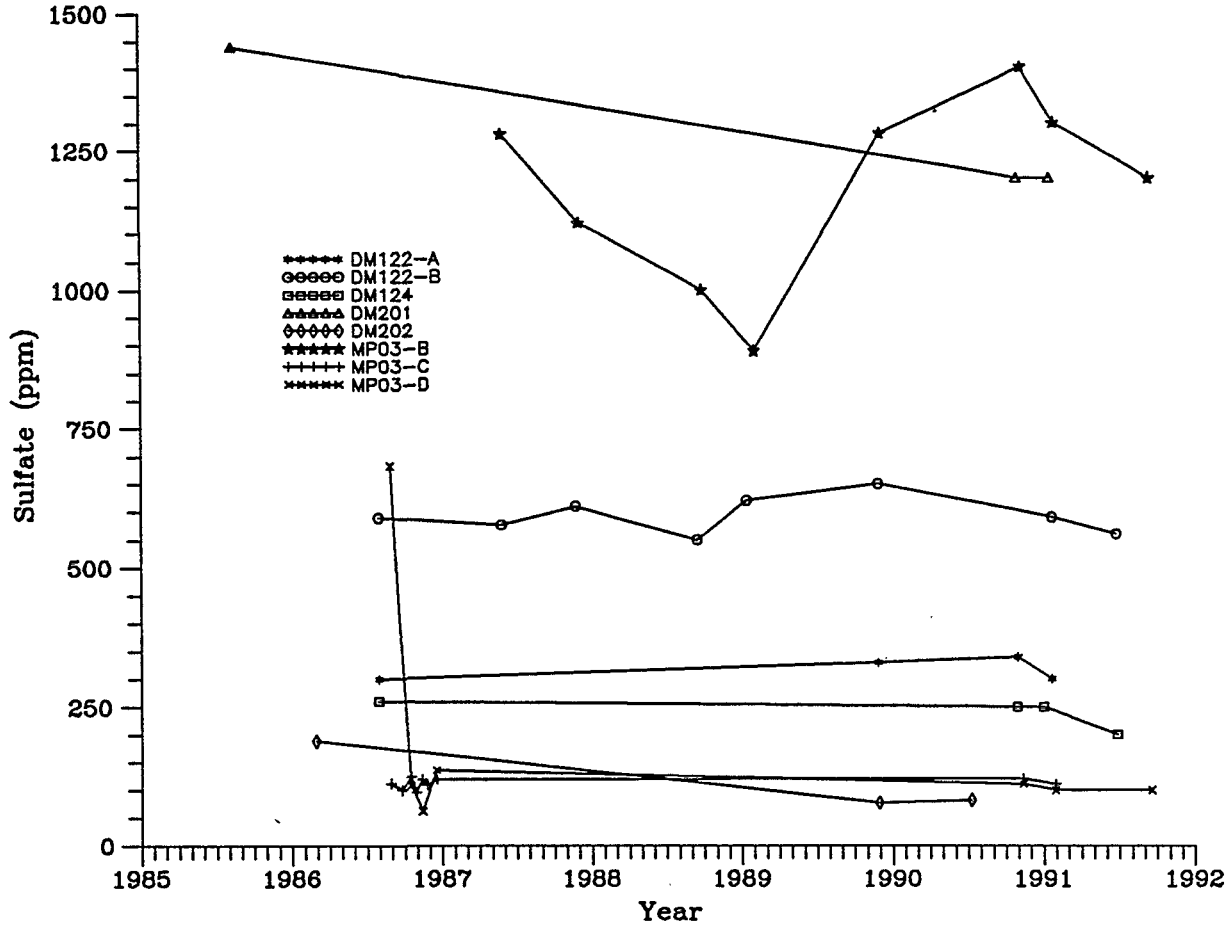


NOTE:
Data presented in Appendix E3 and E4

SULFATE VS. TIME

Figure E7.1A

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

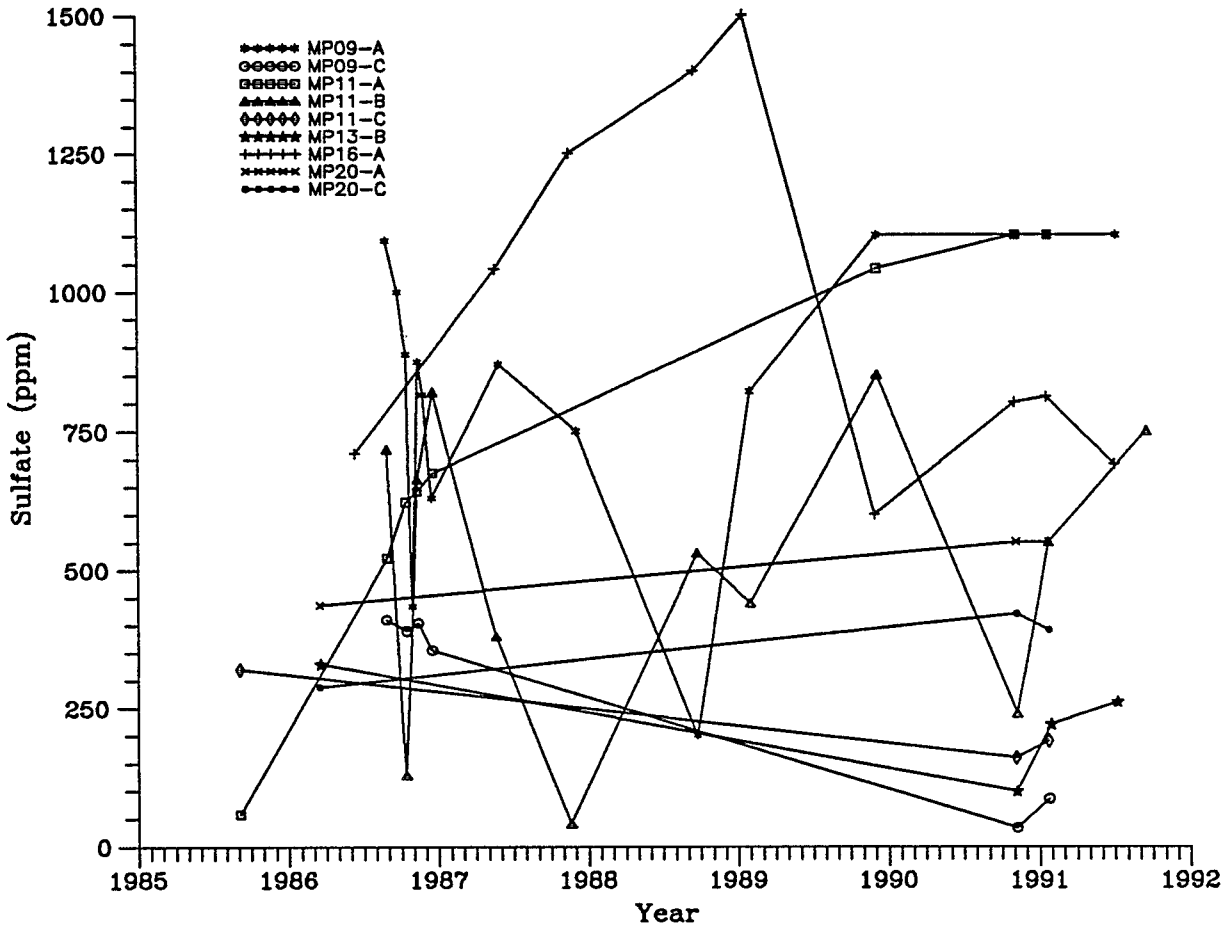


NOTE:
Data presented in Appendix E3 and E4

SULFATE VS. TIME

Figure E7.1B

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

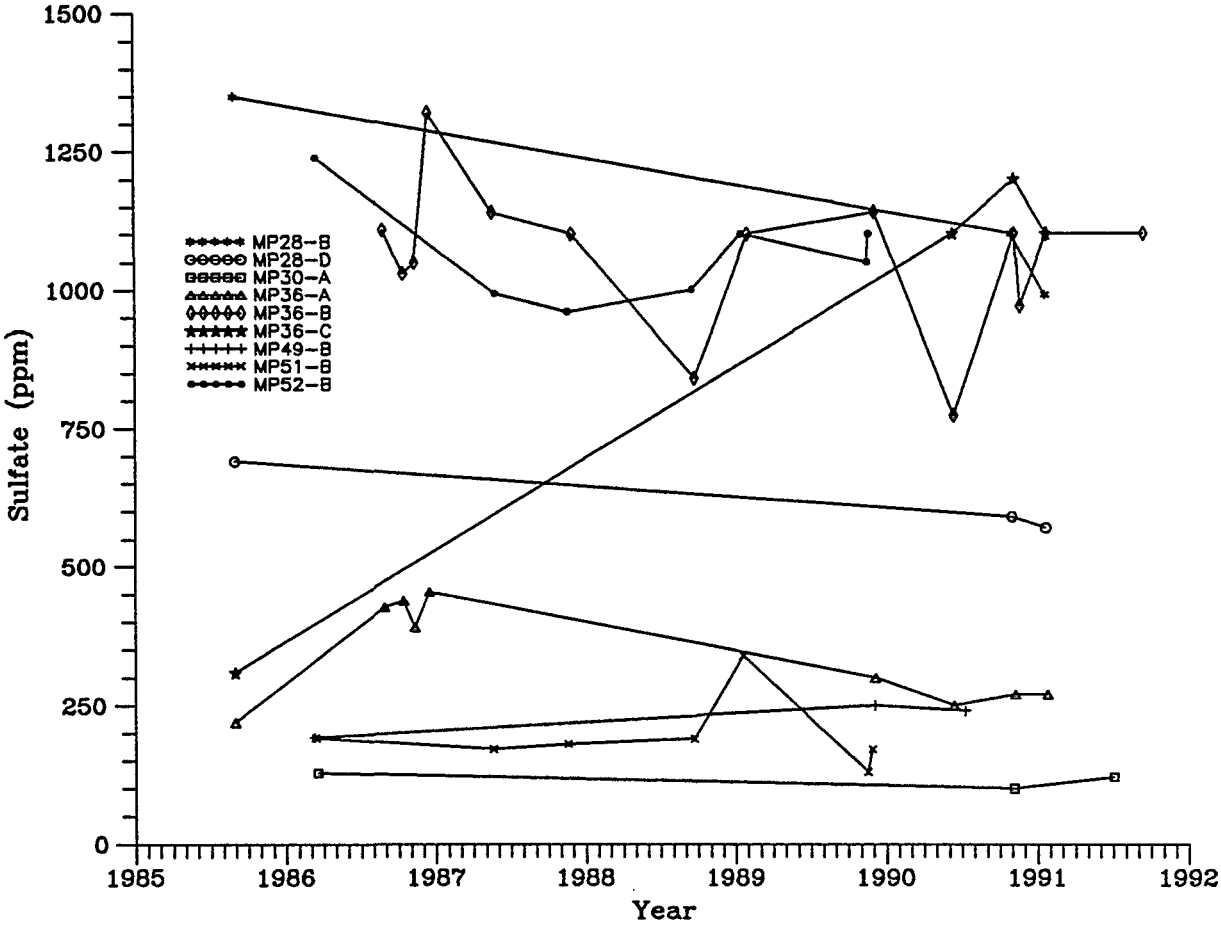


NOTE:
Data presented in Appendix E3 and E4

SULFATE VS. TIME

Figure E7.1C

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

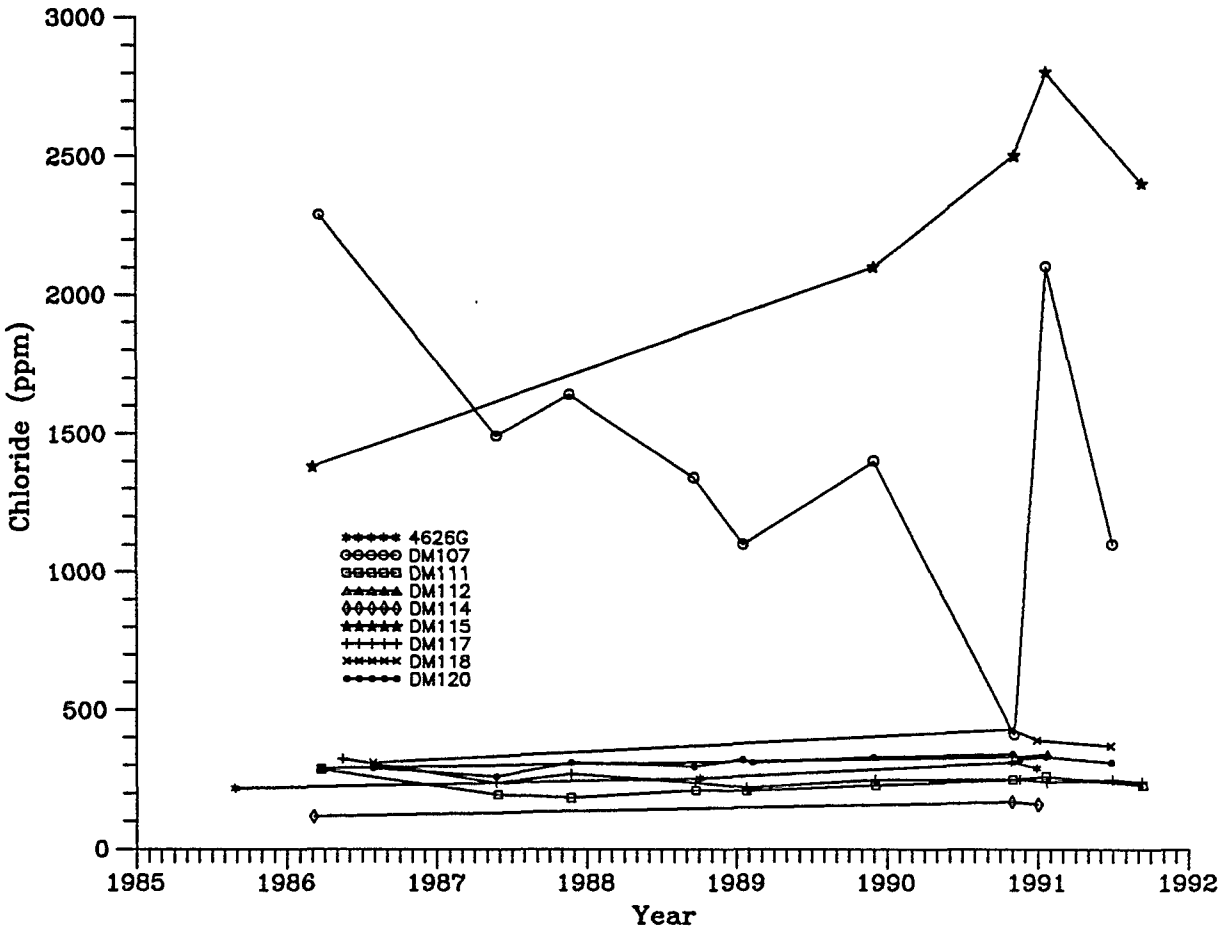


NOTE:
Data presented in Appendix E3 and E4

SULFATE VS. TIME

Figure E7.1D

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

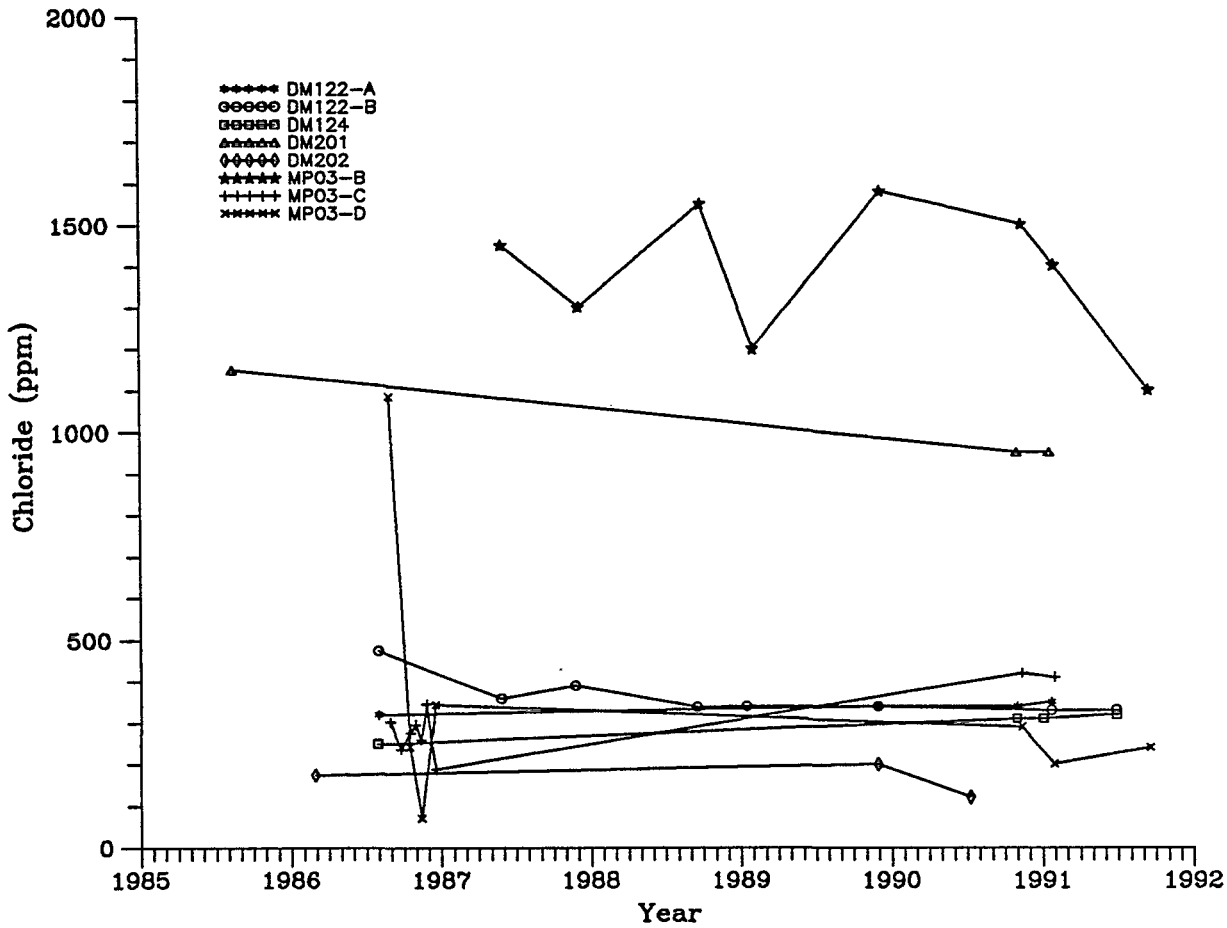


NOTE:
Data presented in Appendix E3 and E4

CHLORIDE VS. TIME

Figure E7.2A

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

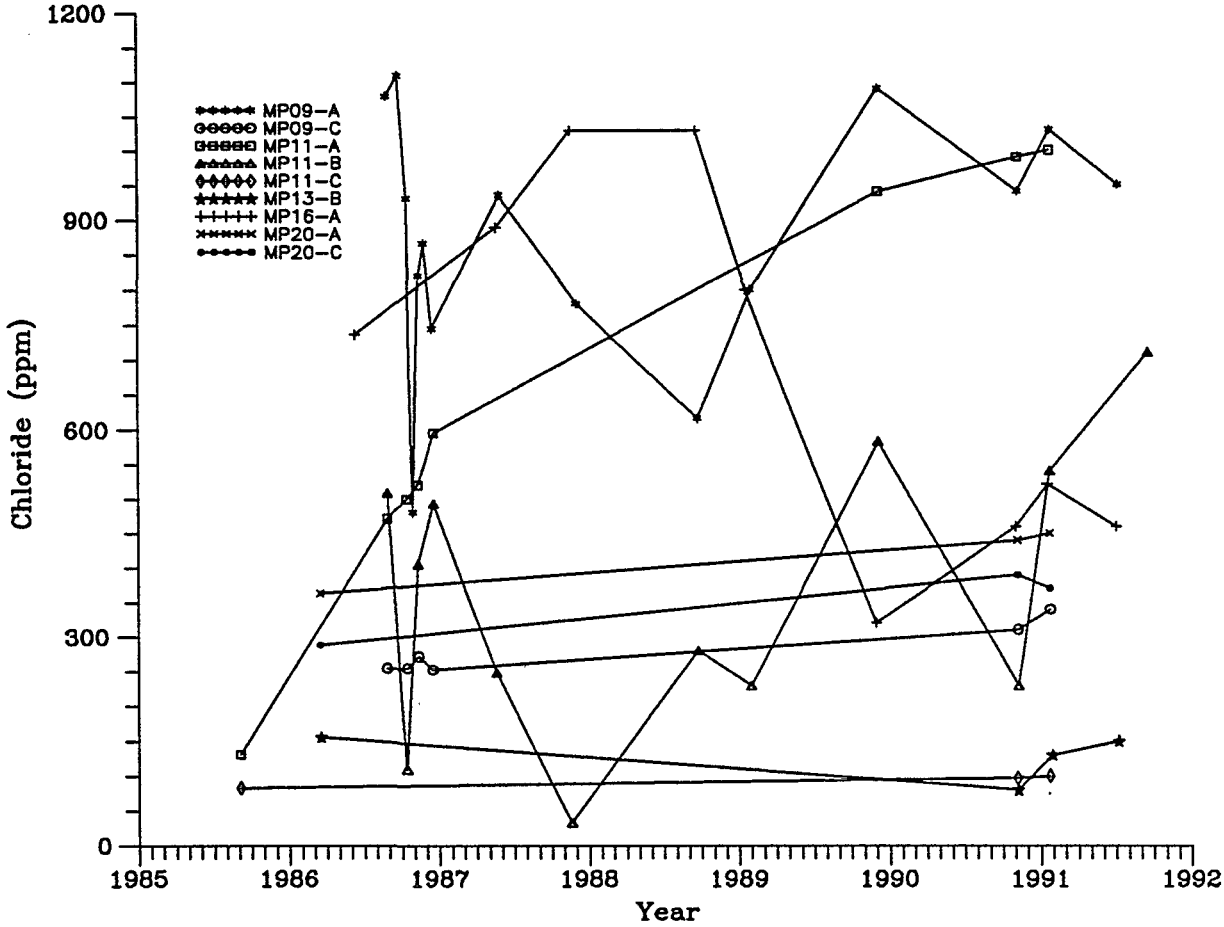


NOTE:
Data presented in Appendix E3 and E4

CHLORIDE VS. TIME

Figure E7.2B

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

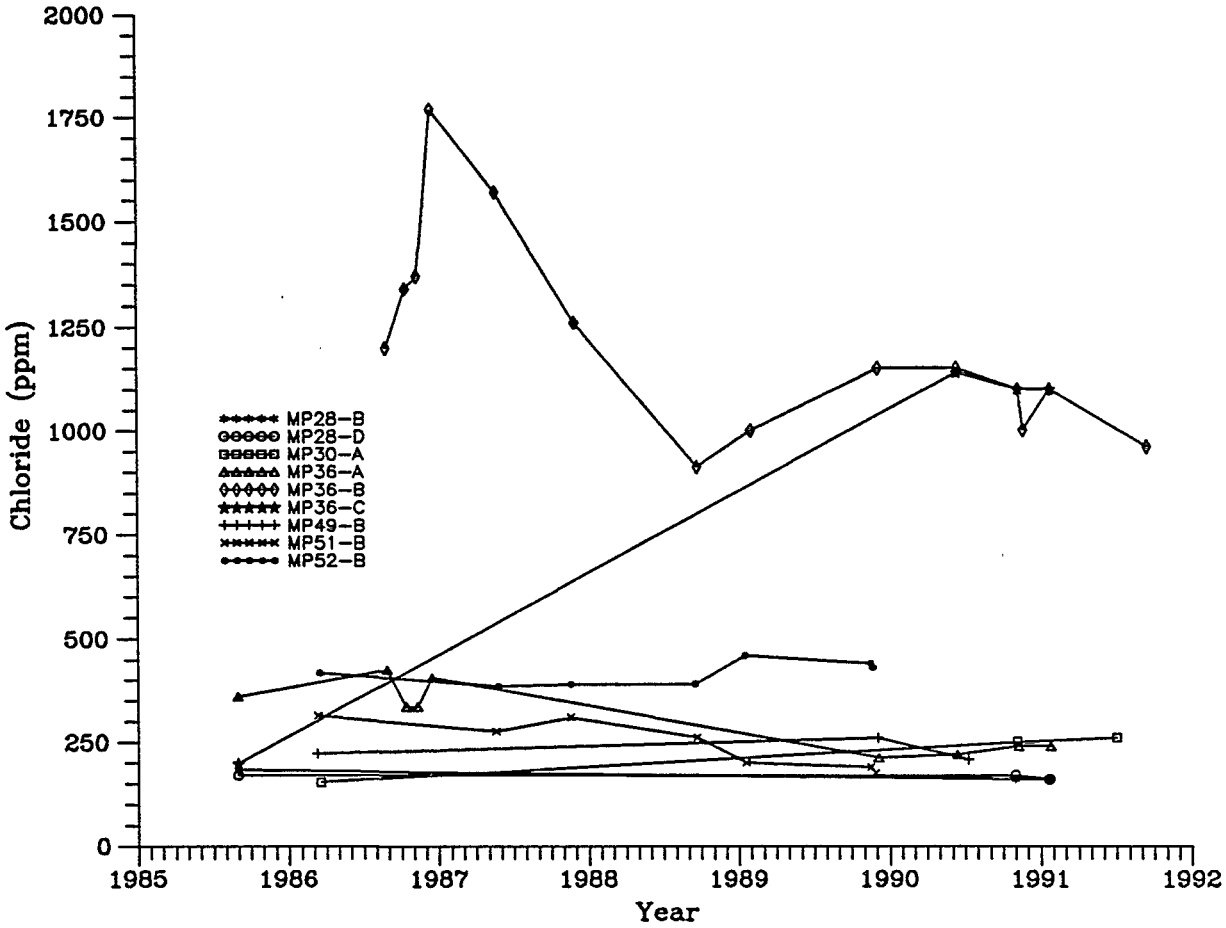


NOTE:
Data presented in Appendix E3 and E4

CHLORIDE VS. TIME

Figure E7.2C

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

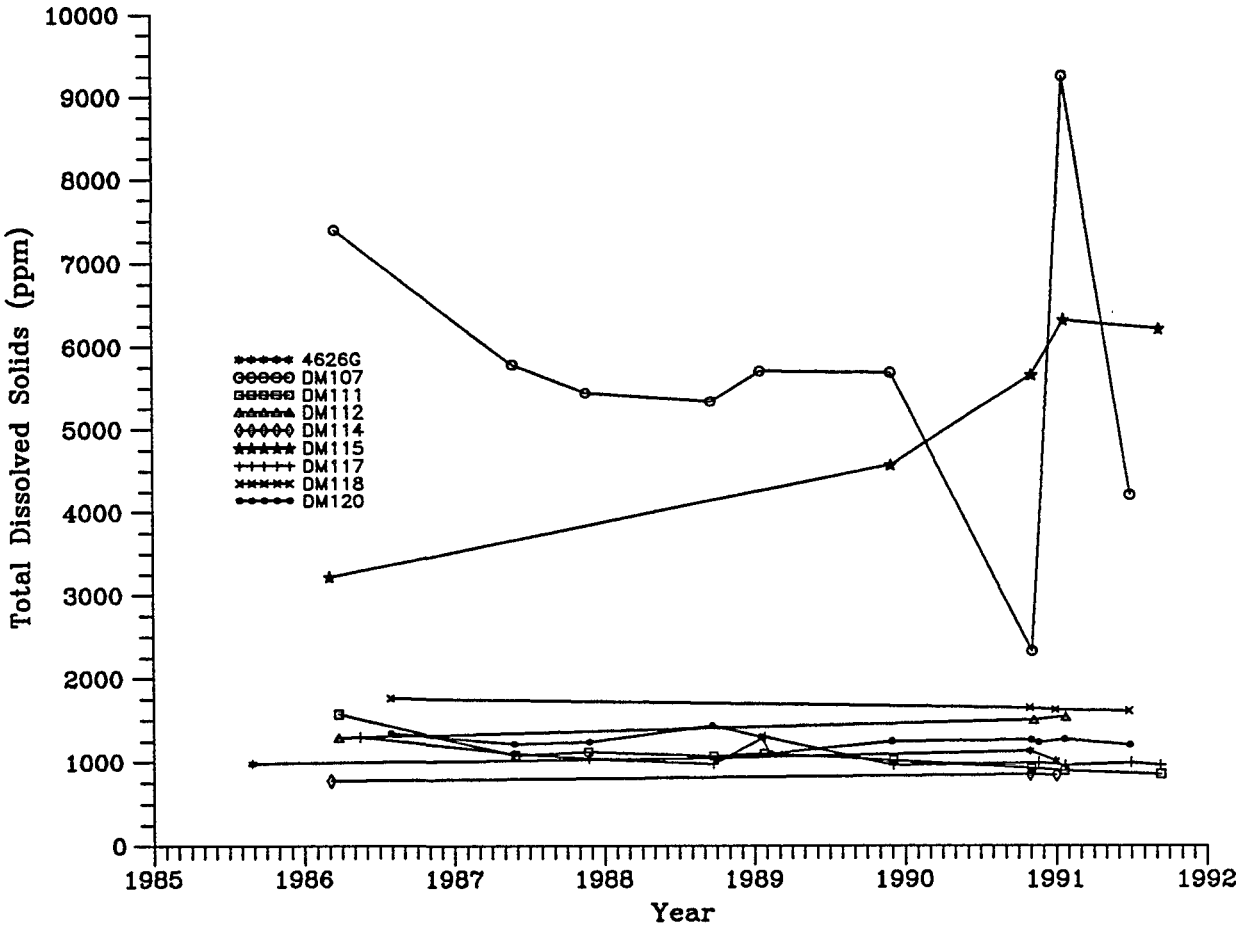


NOTE:
Data presented in Appendix E3 and E4

CHLORIDE VS. TIME

Figure E7.2D

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

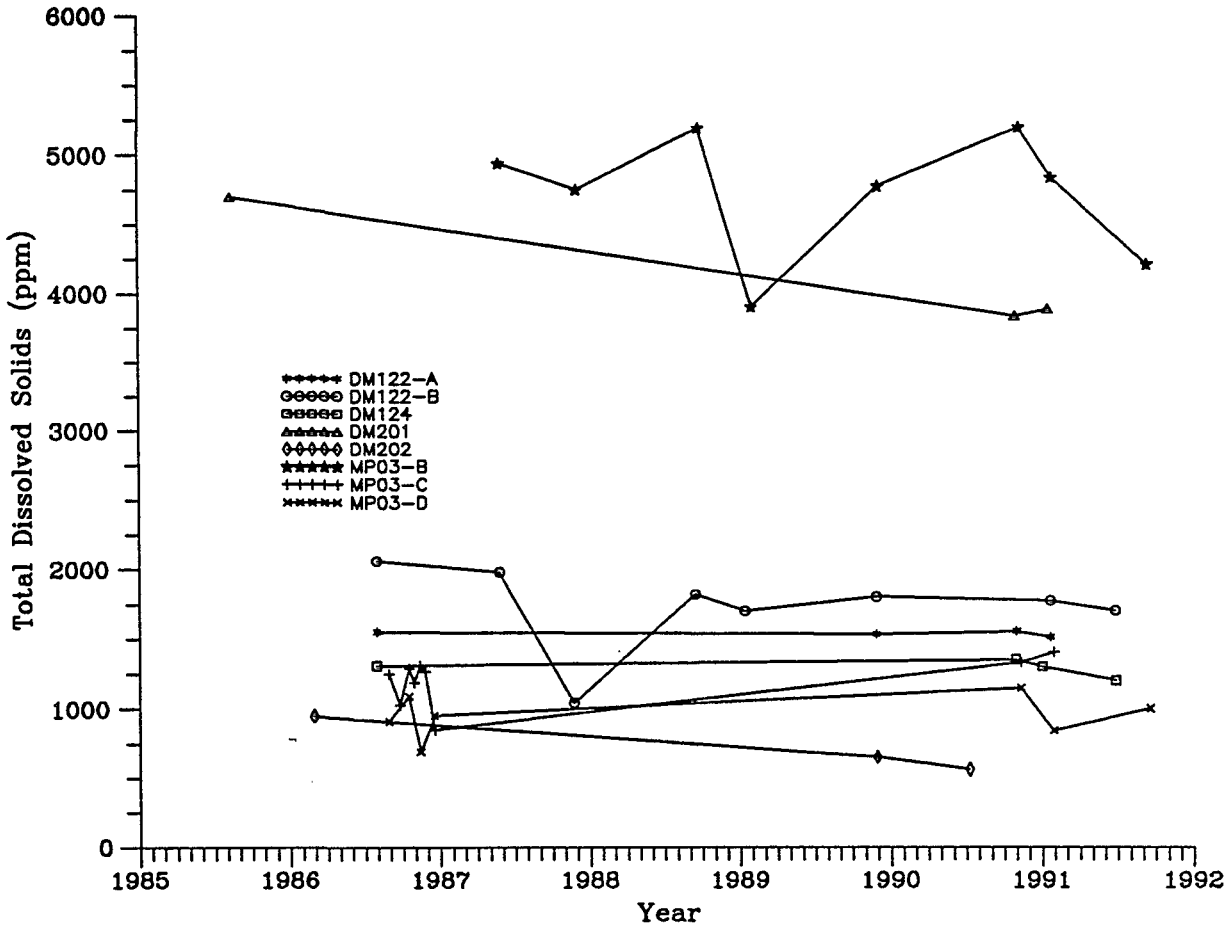


NOTE:
Data presented in Appendix E3 and E4

TOTAL DISSOLVED SOLIDS VS. TIME

Figure E7.3A

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

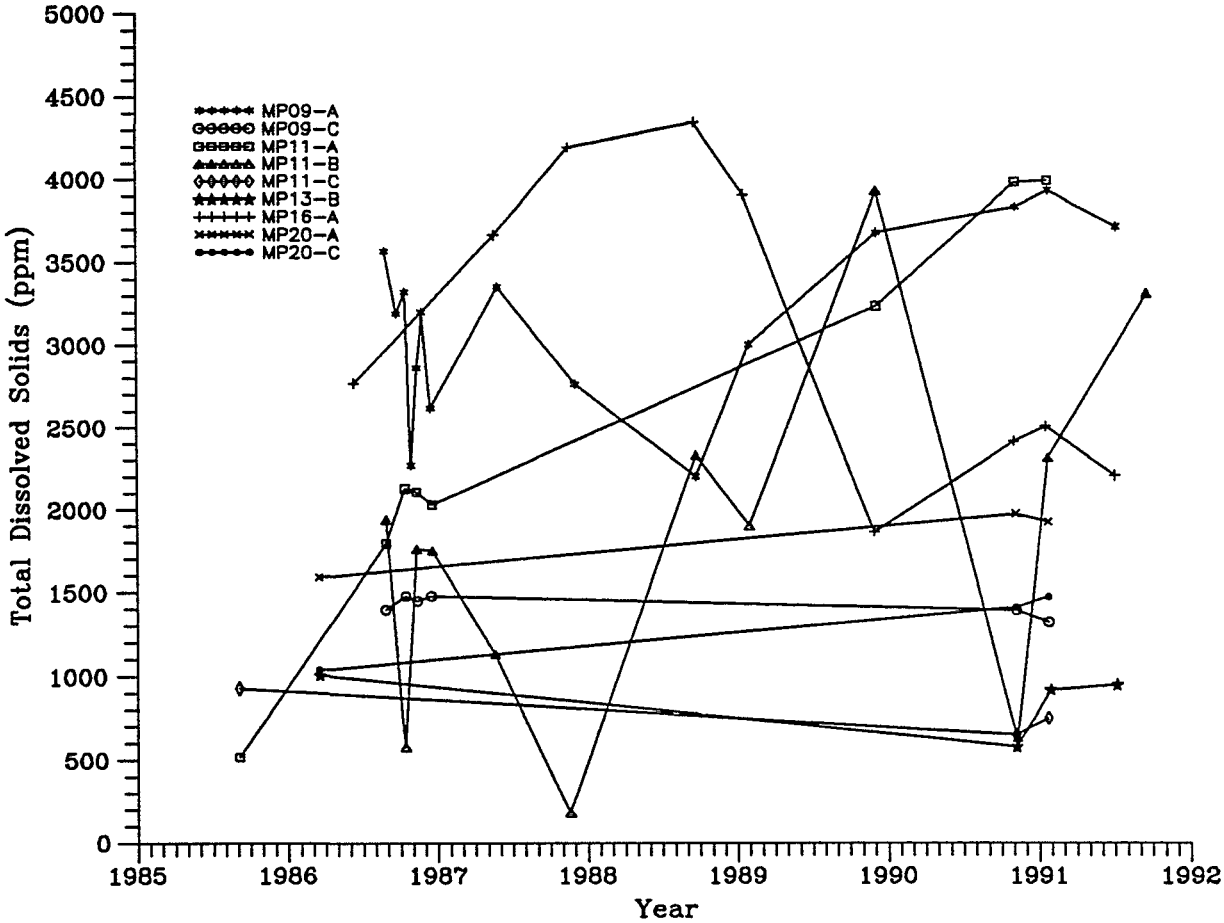


NOTE:
Data presented in Appendix E3 and E4

TOTAL DISSOLVED SOLIDS VS. TIME

Figure E7.3B

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

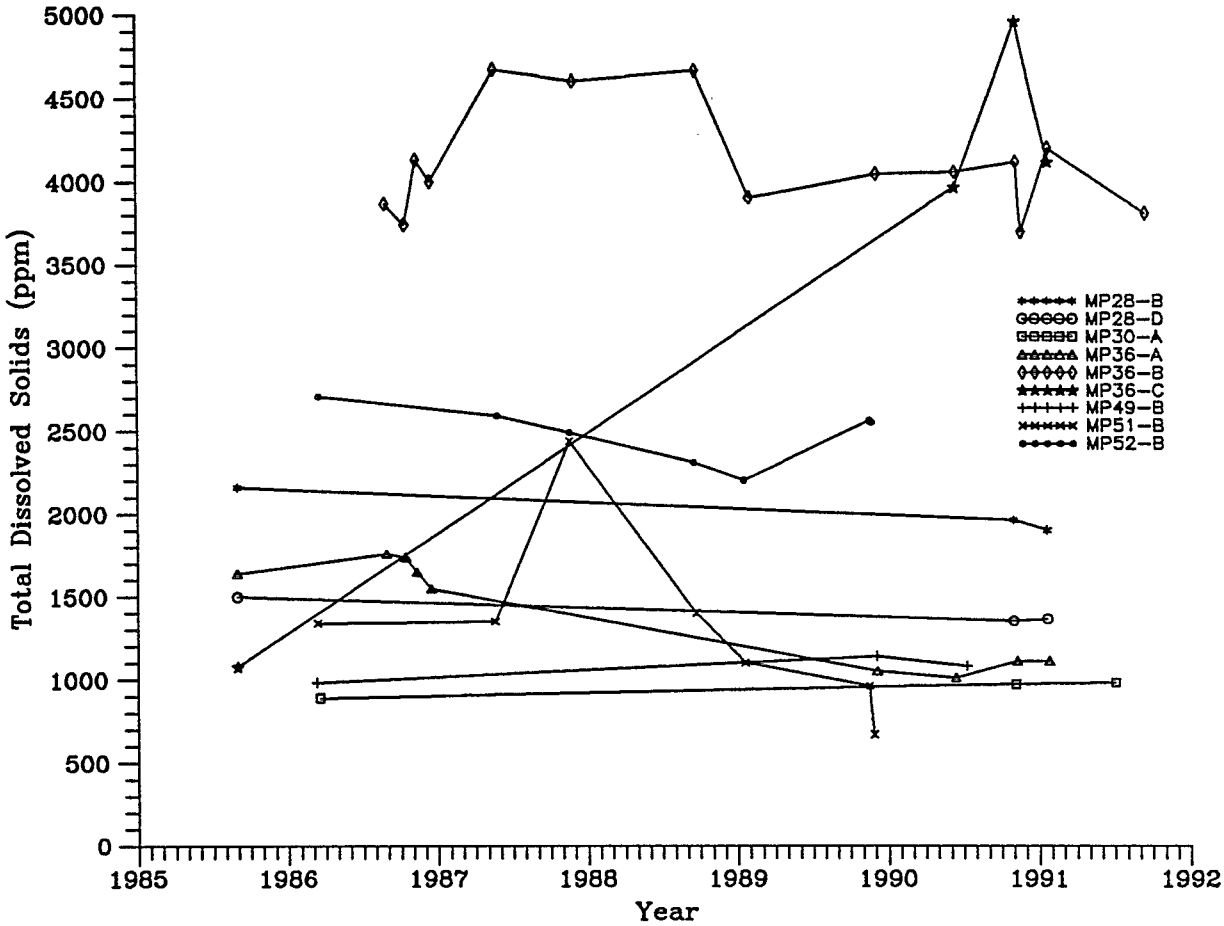


NOTE:
Data presented in Appendix E3 and E4

TOTAL DISSOLVED SOLIDS VS. TIME

Figure E7.3C

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

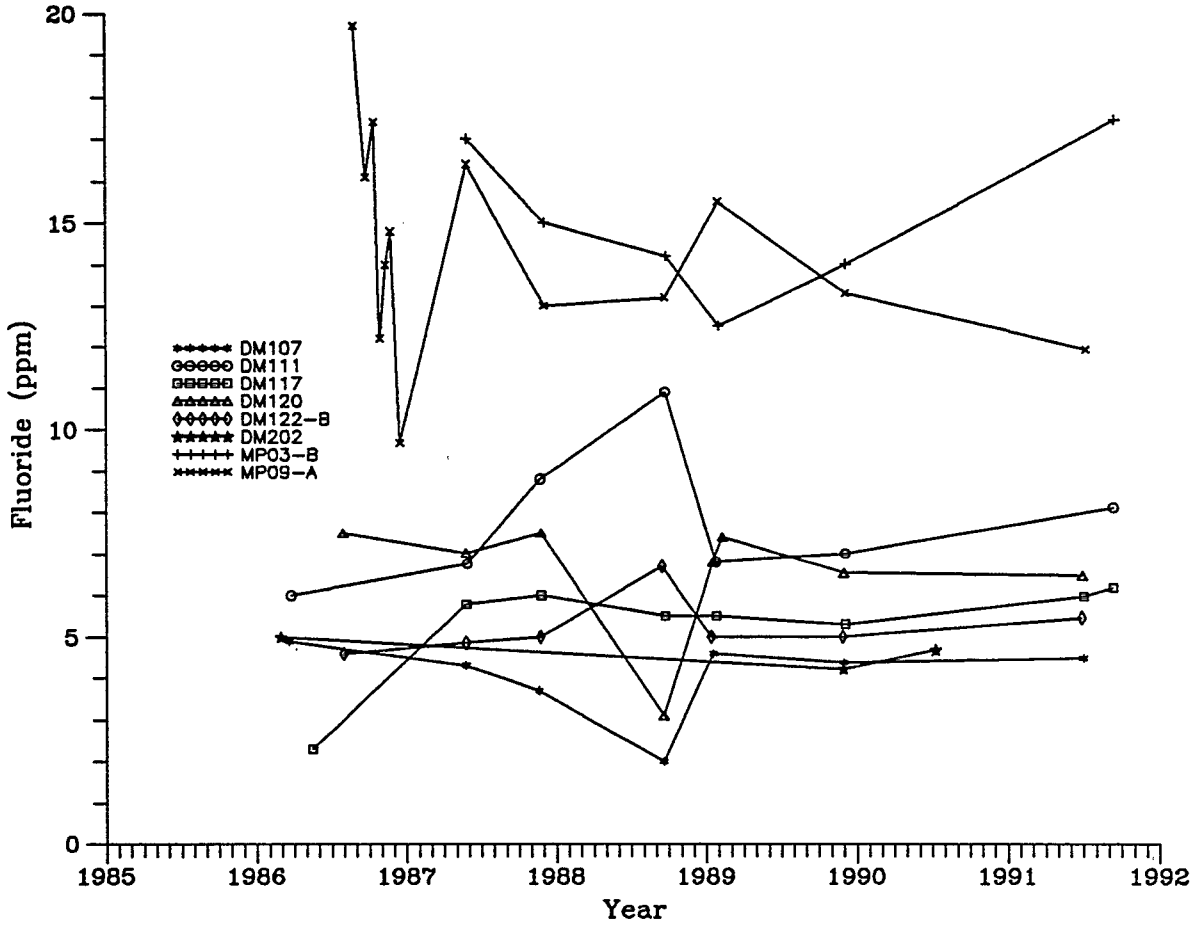


NOTE:
Data presented in Appendix E3 and E4

TOTAL DISSOLVED SOLIDS VS. TIME

Figure E7.3D

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

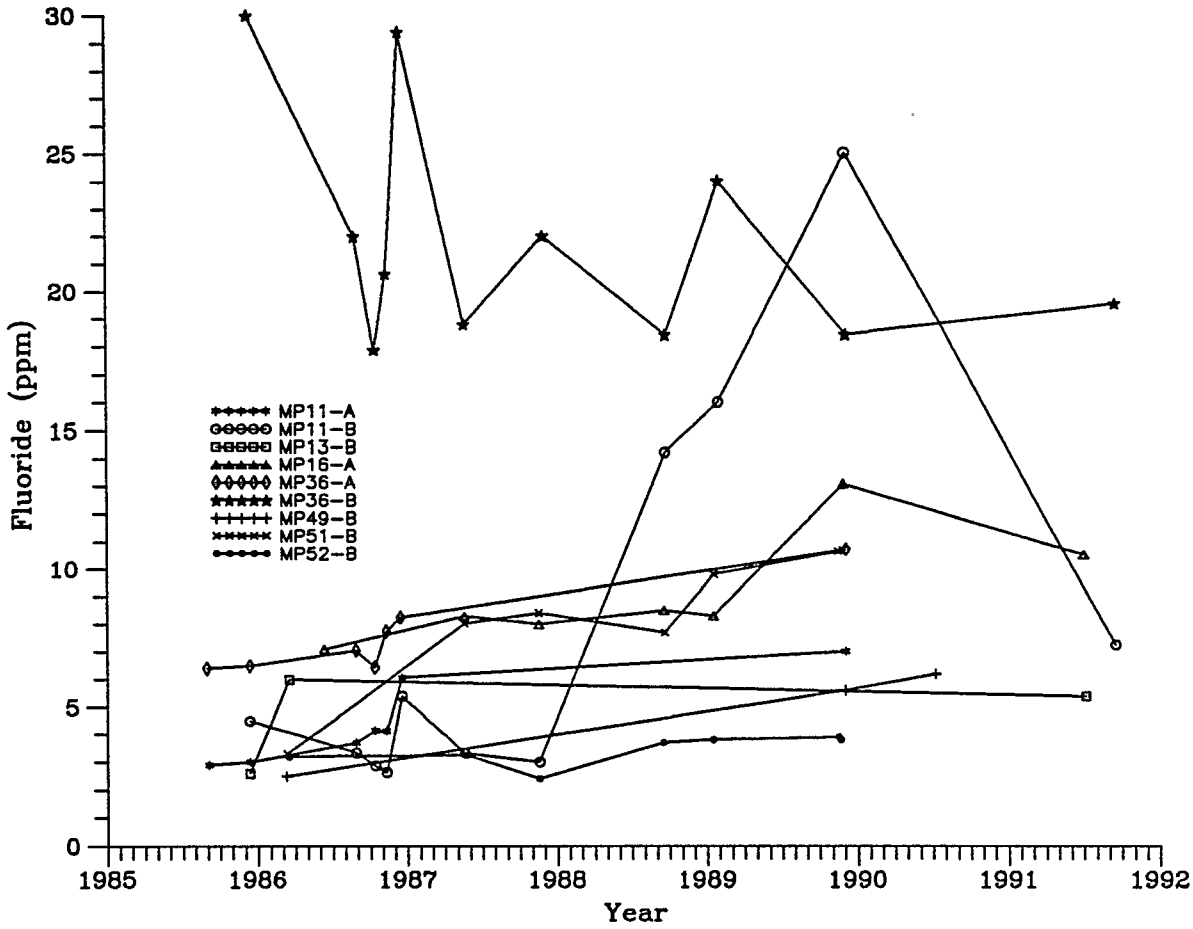


NOTE:
Data presented in Appendix E3 and E4

FLUORIDE VS. TIME

Figure E7.4A

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

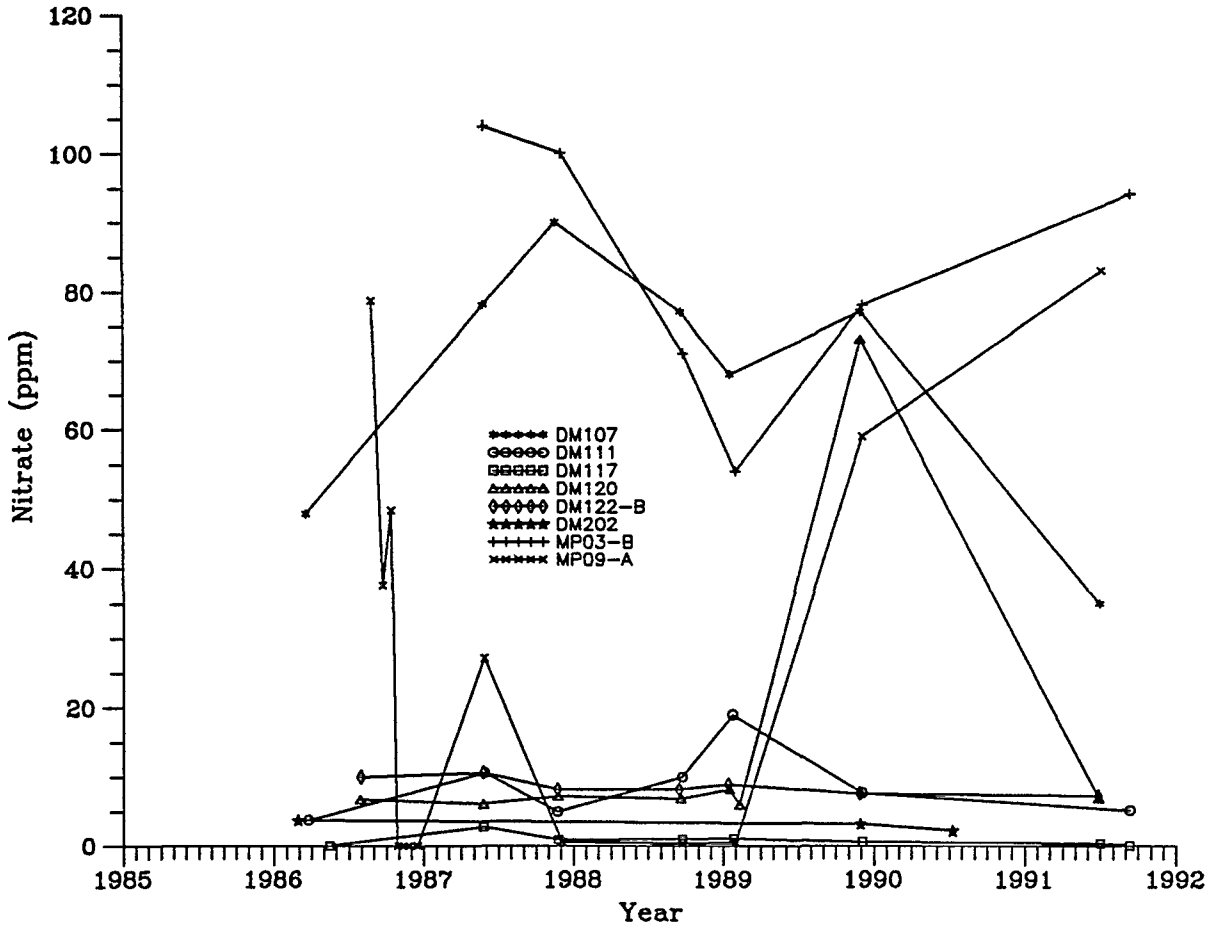


NOTE:
Data presented in Appendix E3 and E4

FLUORIDE VS. TIME

Figure E7.4B

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

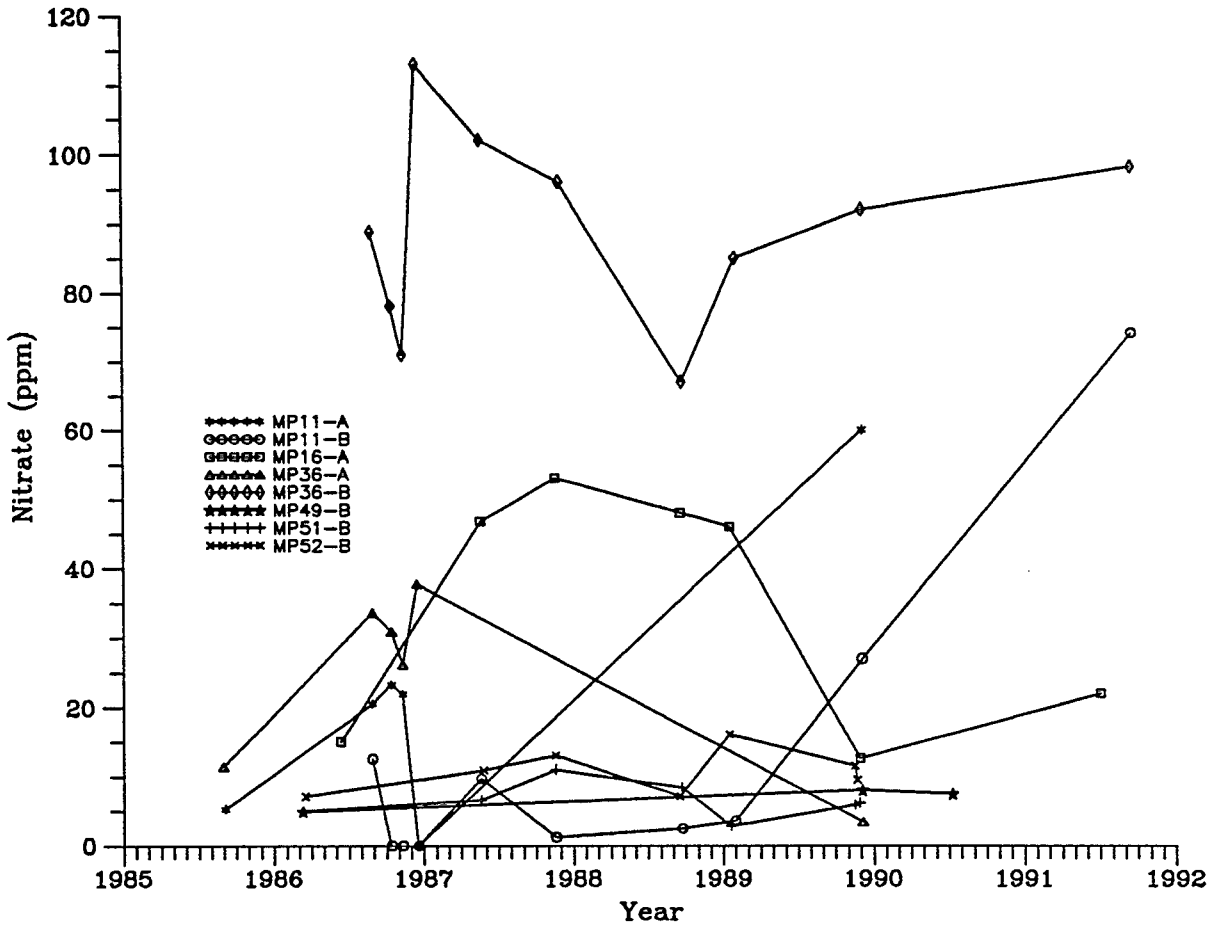


NOTE:
Data presented in Appendix E3 and E4

NITRATE VS. TIME

Figure E7.5A

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

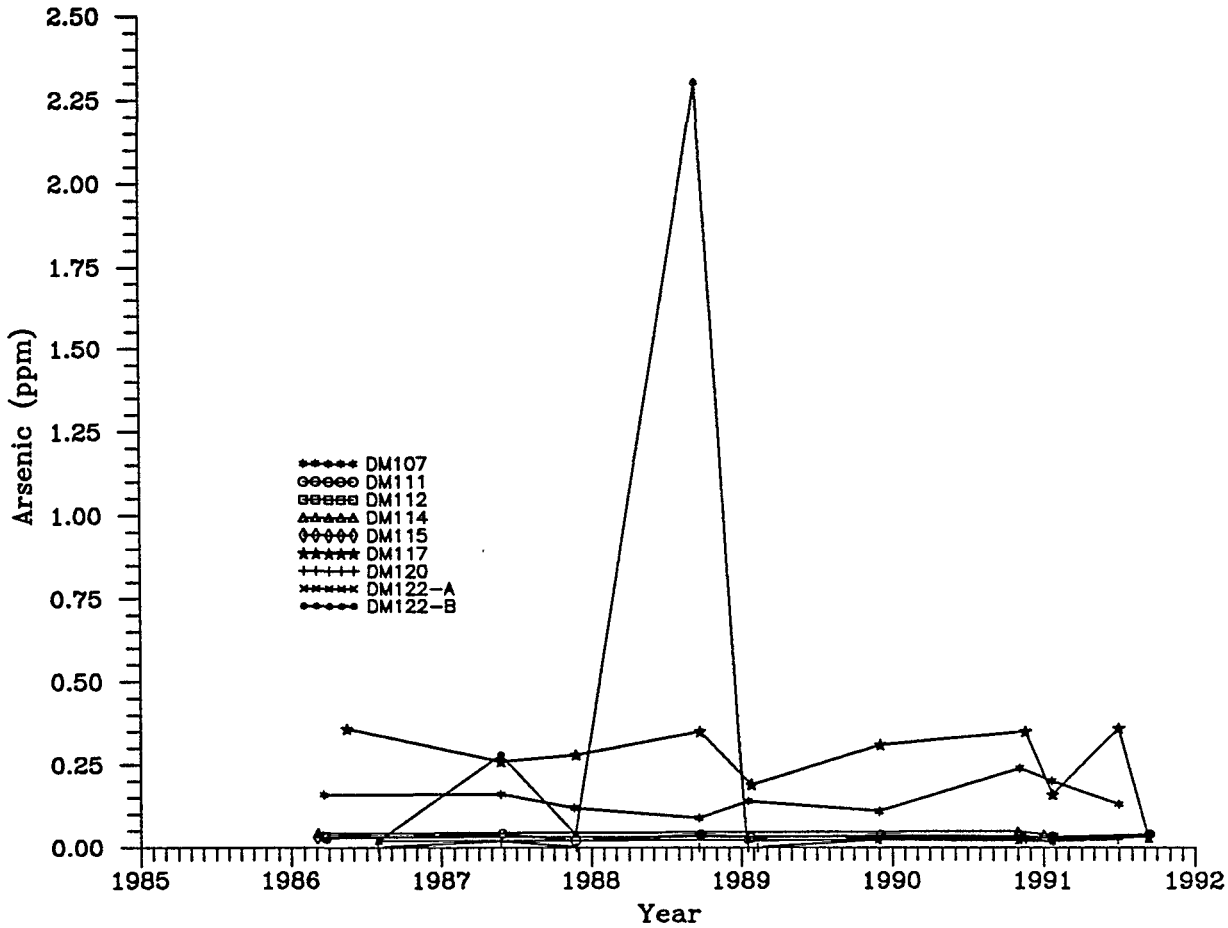


NOTE:
Data presented in Appendix E3 and E4

NITRATE VS. TIME

Figure E7.5B

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

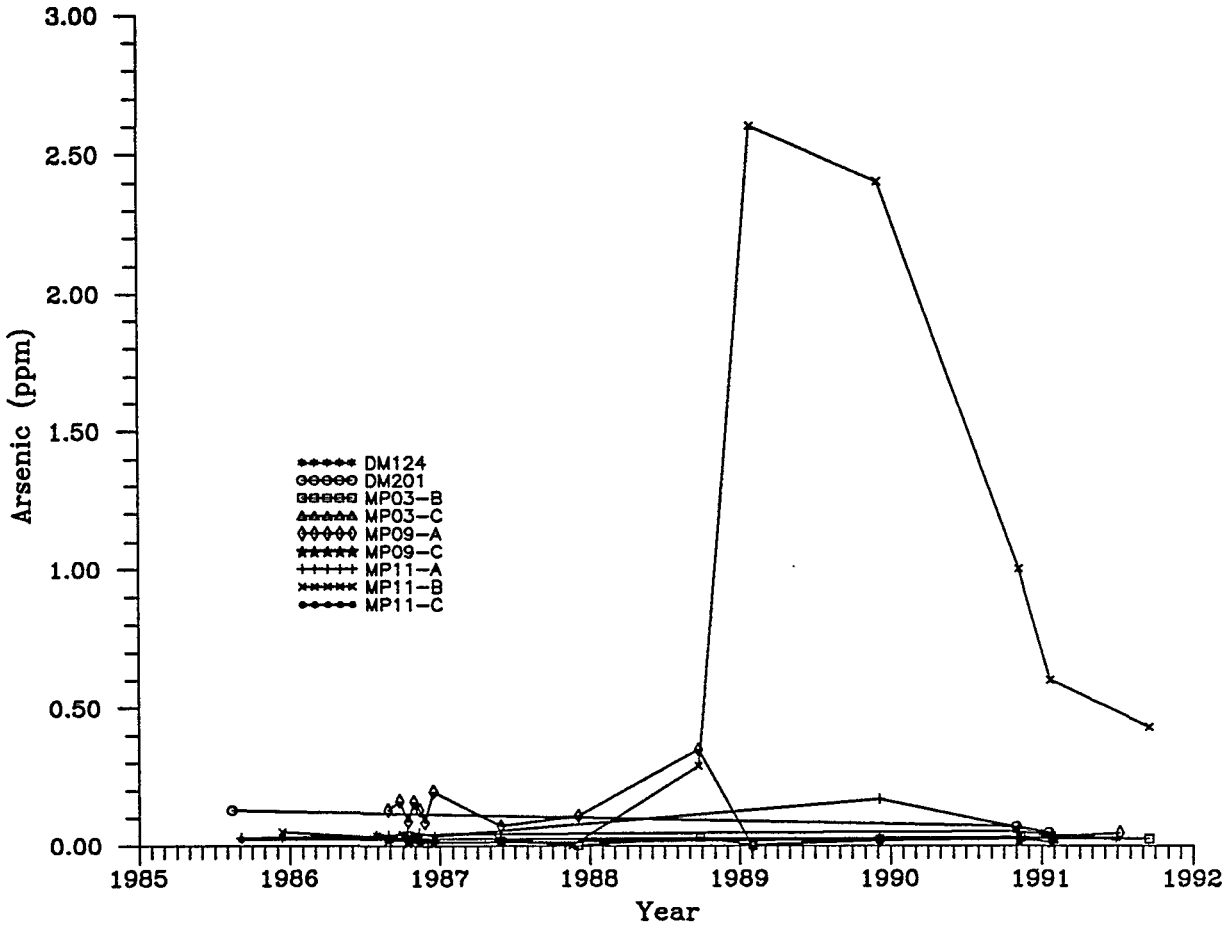


NOTE:
Data presented in Appendix E3 and E4

ARSENIC VS. TIME

Figure E7.6A

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

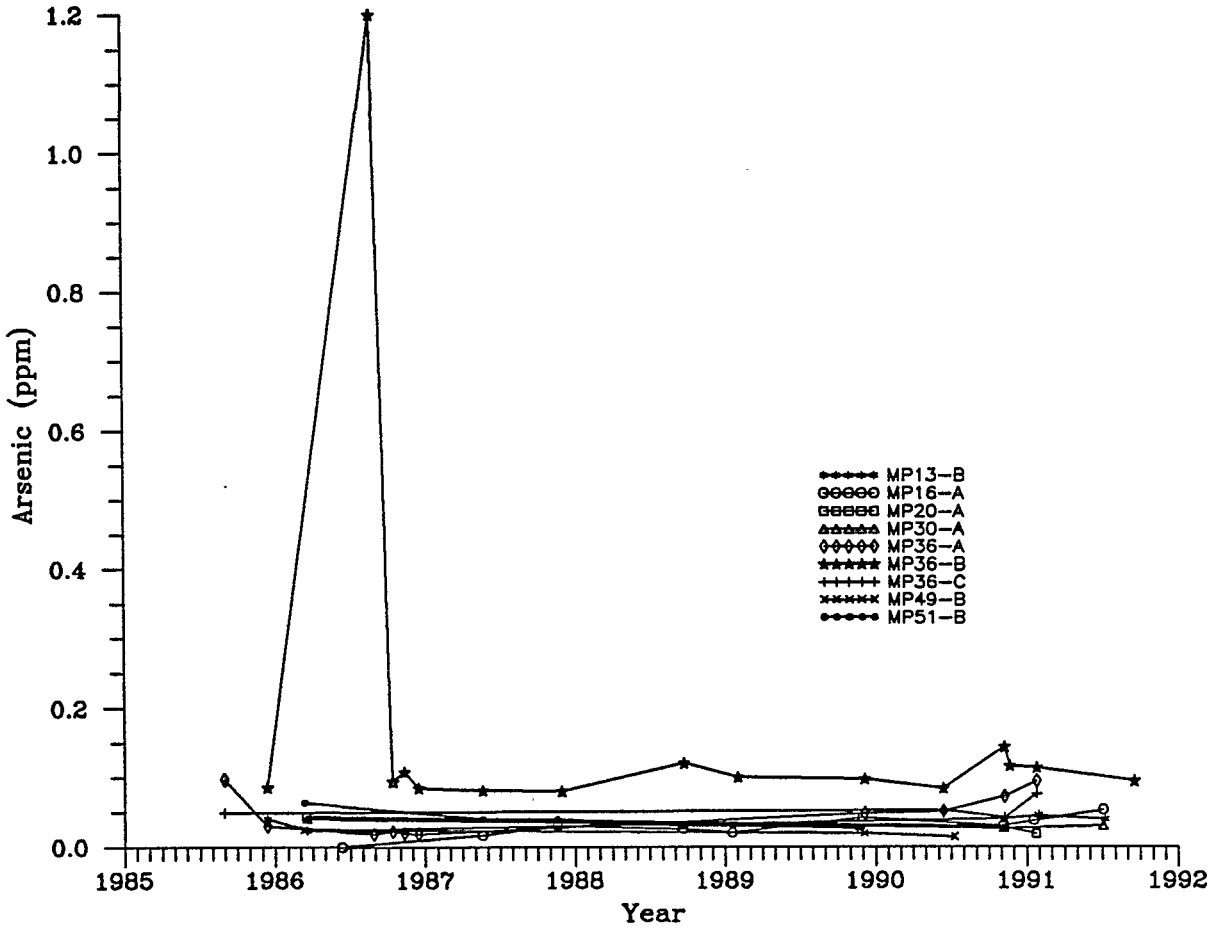


NOTE:
Data presented in Appendix E3 and E4

ARSENIC VS. TIME

Figure E7.6B

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

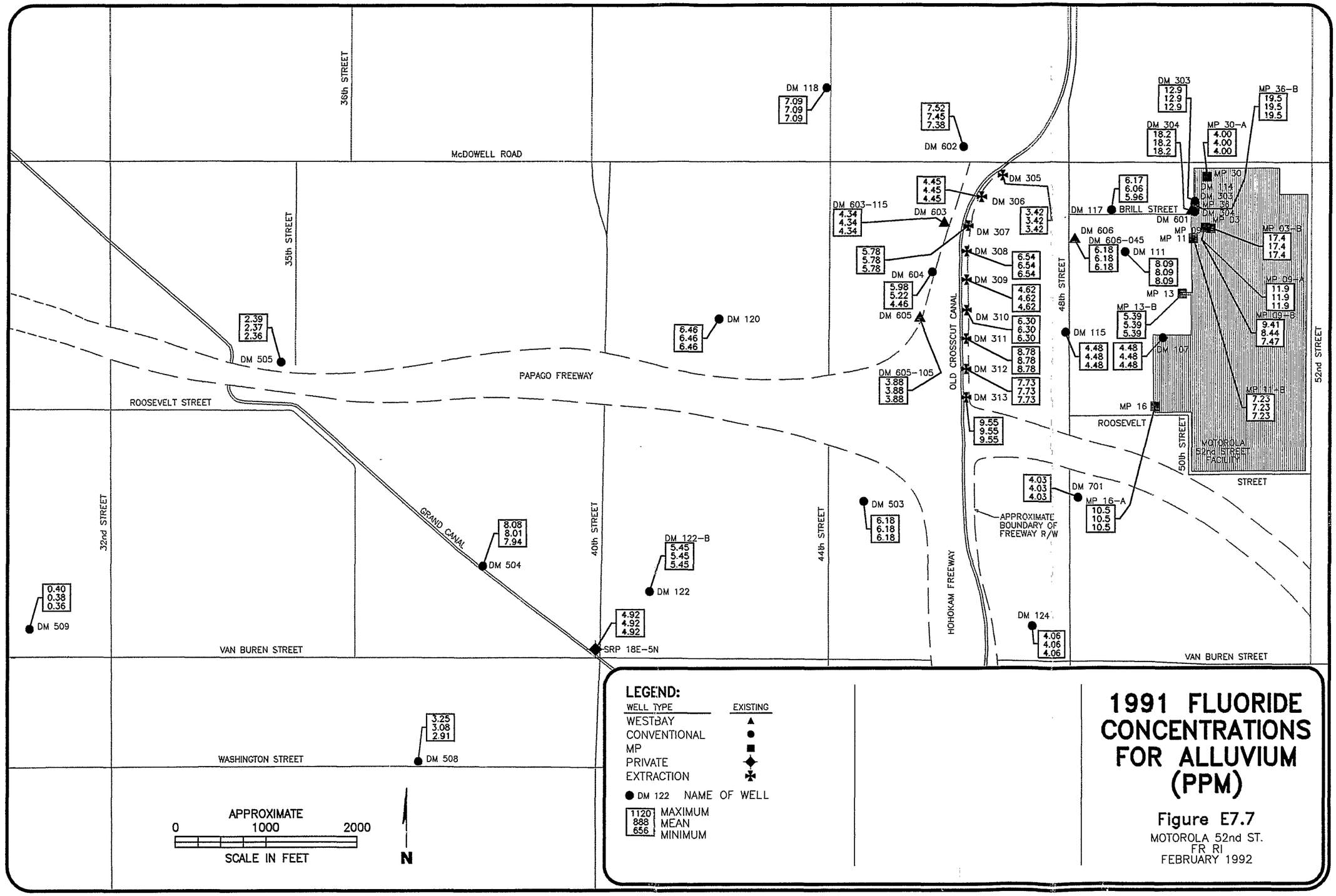


NOTE:
Data presented in Appendix E3 and E4

ARSENIC VS. TIME

Figure E7.6C

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



1991 FLUORIDE CONCENTRATIONS FOR ALLUVIUM (PPM)

Figure E7.7

MOTOROLA 52nd ST.
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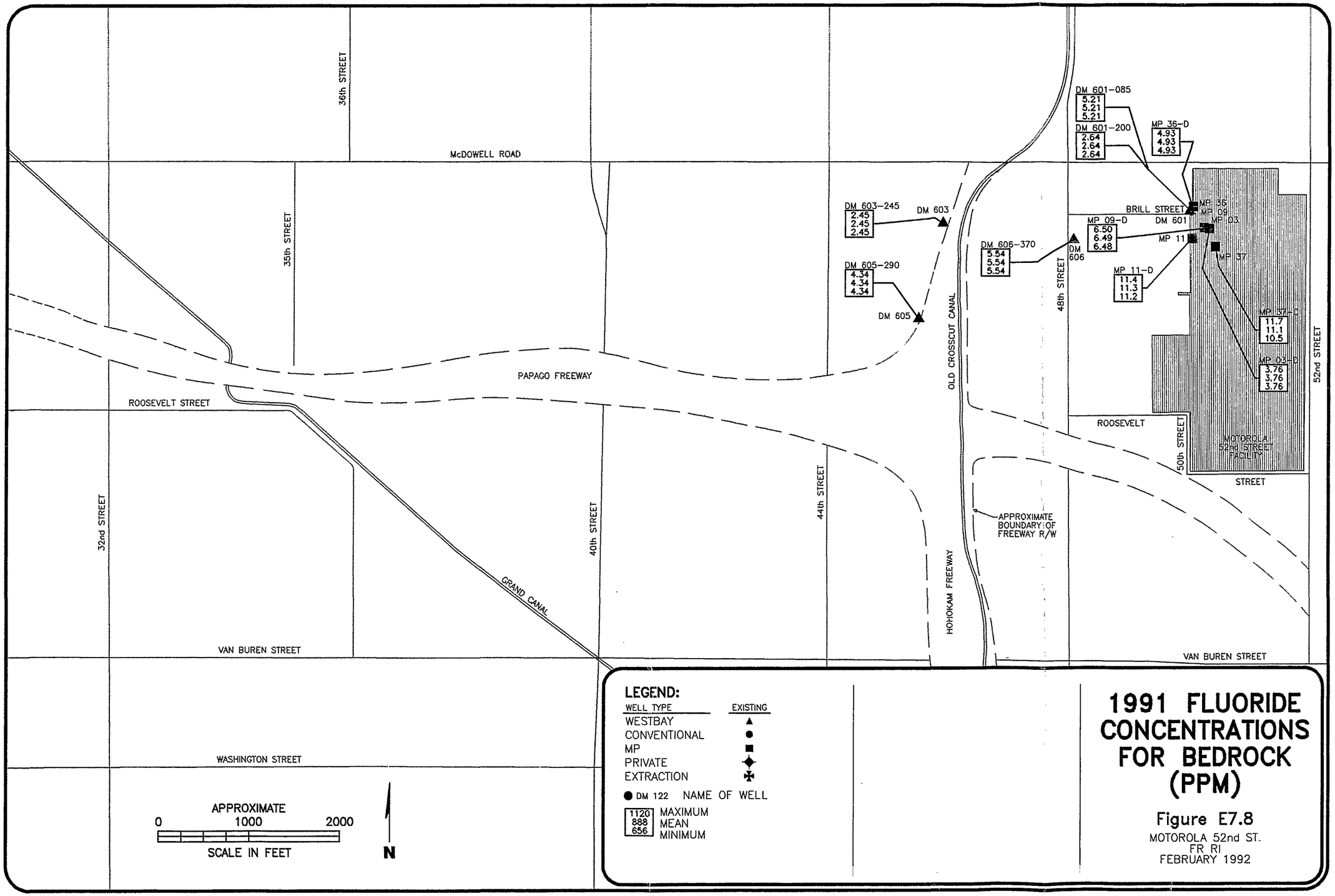
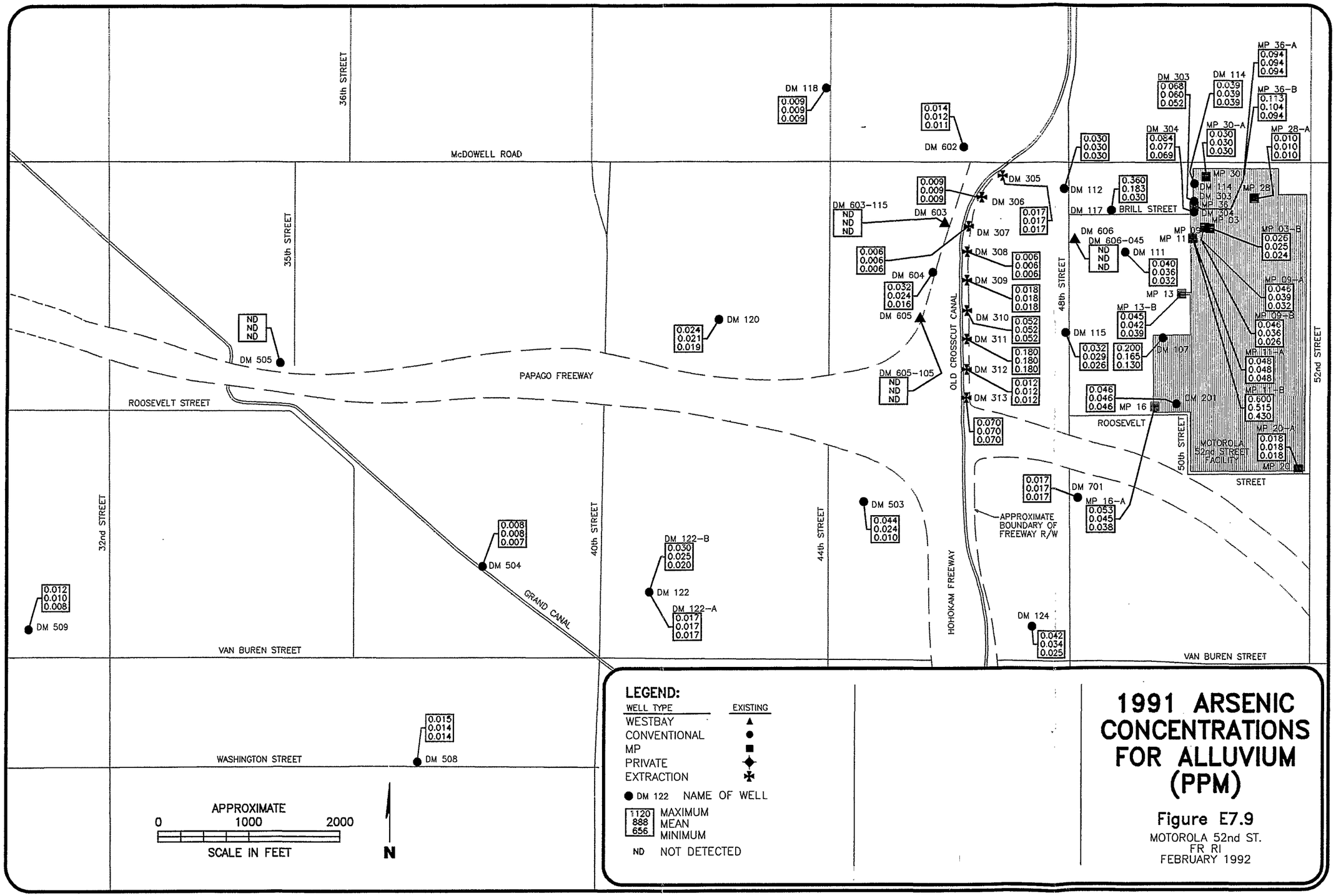
FEBRUARY 1992



1991 FLUORIDE CONCENTRATIONS FOR BEDROCK (PPM)

Figure E7.8

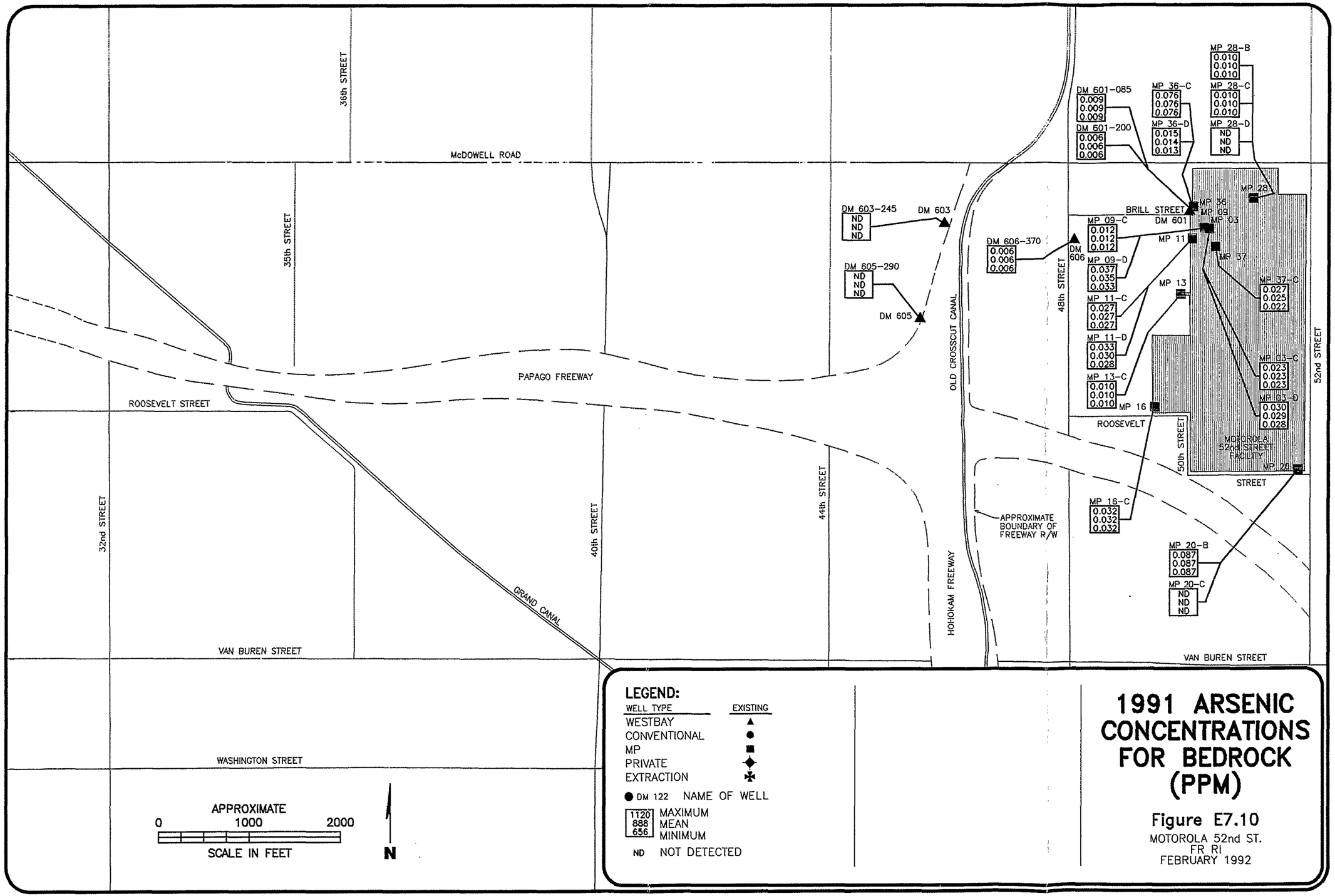
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



1991 ARSENIC CONCENTRATIONS FOR ALLUVIUM (PPM)

Figure E7.9

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



1991 ARSENIC CONCENTRATIONS FOR BEDROCK (PPM)

Figure E7.10

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

APPENDIX F

AQUIFER TESTS

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* Well No./Depth in feet

APPENDIX F

AQUIFER TESTS

F.1.0 INTRODUCTION

This appendix presents the methods, data, and analysis of 20 rising head tests and one pumping test conducted during July 1991. The methods were conducted in general accordance with the Task Specification for Aquifer Testing, dated June 17, 1991 (Dames & Moore, 1991h). The significance of the aquifer properties estimated from these aquifer tests is discussed in Chapter 3.0 of the main text. Aquifer test well locations are shown on Figure F.1.

F.2.0 RISING HEAD TESTS OF WESTBAY WELLS

Rising head tests were conducted in four Westbay™ wells during July 1991. A total of 20 monitoring zones in Westbay wells DM 501, DM 502, DM 506, and DM 507 were tested. Eight of the tested monitoring zones were completed in alluvium and 12 were completed in bedrock. Rising head test field procedures and equipment, data, analysis methods, and estimated hydraulic conductivities are presented in this section. Hydraulic conductivities estimated from the rising head tests are discussed in Section F.2.2.

F.2.1 FIELD PROCEDURES AND EQUIPMENT

Prior to performing rising head tests in a Westbay well, a pressure profile was conducted to estimate the static water level (SWL) for each monitoring zone. Individual rising head tests were conducted on each of the monitoring zones as follows:

1) The water level in the Westbay casing was lowered by bailing to approximately 20 to 40 feet below the piezometric level estimated from the pressure profile.

2) A Westbay open/close tool was lowered into the casing in the "open port" mode, and located onto the pumping port opening collar of the monitoring zone being tested.

3) A Druck 50-psi pressure transducer was then lowered to a minimum depth of 1 foot below water level in the casing.

4) The transducer was then connected to an In Situ Hermit™ Model SE 1000B Environmental Data Logger (data logger) that recorded the time and water level data received from the transducer.

5) An electrical sounder graduated in .02-foot intervals was lowered into the casing. A minimum of two measurements were made at 5-minute intervals to ensure the water level was not changing in the casing. The sounder was removed from the casing prior to starting the test.

6) The data logger was programmed to record the water levels versus time on a logarithmic scale from the beginning of the test.

7) The open/close tool was then raised to open the pumping port while the data logger recording mode was activated at approximately the same time.

8) Time and water level data were recorded by the data logger until the water level in the casing had risen to and/or was within ten percent of reaching the SWL estimated for the monitoring zone from the pressure profile. If the water level had not risen to within 10 percent of the piezometric level at the end of 2 hours, the test was ended.

9) Following the end of the test, and prior to the removal of any equipment from the casing, a final water level was obtained using the sounder.

10) After the last water level was obtained, the transducer and open/close tool were removed from the casing. The open/close tool was then reversed to the "close" mode and lowered into the casing to close the open monitoring zone pumping port.

11) Steps 1 through 10 were then repeated to test the other monitoring zones in the well.

Field data for rising head tests are on file with Dames & Moore, Phoenix, Arizona.

F.2.2 ANALYSIS METHODS AND RESULTS

Hydraulic conductivities were estimated from the rising head test data using the methods described by Hvorslev (1951) and Bouwer and Rice (1976). These estimated hydraulic conductivities are listed in Table F.1. In general, the method of Bouwer and Rice (1976) is applicable to wells in unconfined aquifers; whereas, the method of Hvorslev (1951) is applicable to confined aquifers. It was assumed that the monitoring zones completed in the alluvium are unconfined; whereas, those in the bedrock are confined. The following paragraphs describe these two methods.

Hvorslev Method

The method of Hvorslev (1951) was developed for confined, homogeneous, isotropic, and infinite aquifers in which both the water and aquifer are incompressible. Hvorslev assumed that the rate of inflow [q(t)] into the piezometer at any given time (t) is proportional to the hydraulic conductivity (k) and to the unrecovered head difference (H). Log head ratio (H/H_o) is plotted versus time (t) on Figures F.2 through F.5 for each monitoring zone. The initial head difference H_o is the vertical distance between the SWL and the water level inside the Westbay casing at the start of the test.

The hydraulic conductivity of each monitoring zone was calculated using Hvorslev's analytical solutions and the field data, and plotted on Figures F.2 through F.5. The estimated hydraulic conductivities for each well are listed in Table F.1. A discussion of the Hvorslev method is included in Freeze and Cherry (1979). The equation used for the Hvorslev method as reported by Freeze and Cherry (1979) follows:

$$K = \frac{r^2 \ln(L/R)}{2LT_o}$$

where
K = hydraulic conductivity (ft/day)
L = screen length (ft)
R = radius of well (including gravel pack) (ft)
r = radius of inside casing
T_o = basic time log= $\pi r^2/FK$
F = shape factor

The head ratio or $H\text{-}h/H\text{-}H_o$, where

H = final total head
h = total head at time t
H_o = initial total head,

is plotted versus time since injection to evaluate T_o.

Bouwer and Rice Method

The method of Bouwer and Rice (1976) was developed for rising head tests performed in fully or partially penetrating wells in unconfined aquifers. The procedure is based on the Thiem equation (Lohman, 1979), and assumes that drawdown of the water table around the well is negligible and that flow does not occur above the water table. The equation used for the Bouwer and Rice (1976) method is as follows:

$$K = \frac{r_c \ln(R_e/r_w)}{2L} \frac{1}{t} \ln\frac{y_o}{y_t}$$

where
K = hydraulic conductivity (ft/day)
L = screen length (ft)
R_e = effective radius or radial distance over which head loss is dissipated (ft)
r_c = inside radius of casing (ft)
r_w = radial distance (ft) between undisturbed aquifer and well center (includes gravel pack zone)

y_o = initial water level (ft)
y_t = water level at time t
t = time since beginning of test (days)

The results of analyses by the Bouwer and Rice (1976) method are listed in Table F.1.

Results

Hydraulic conductivities estimated from the rising head tests are listed in Table F.1. These values range from 1.5 to 9.8 feet per day (5.29×10^{-4} to 3.46×10^{-3} cm/sec) for the alluvium, and from 0.00087 to 0.39 ft/day (3.1×10^{-7} to 1.4×10^{-4} cm/sec) for the bedrock, and should be considered to be accurate to one to one-half an order of magnitude. According to Kruseman and de Ritter (1990), rising head tests only affect a relatively small volume of aquifer in the immediate vicinity of the monitoring zone and are therefore not a substitute for conventional pumping tests for the estimation of aquifer properties. Freeze and Cherry (1979) point out that the efficiency of the well intake can significantly affect the accuracy of rising head test data. A monitoring zone that is less than 100 percent efficient would reduce the rate of inflow (and recovery) and result in an estimated hydraulic conductivity that is less than the true value. This effect would tend to be greater in monitoring zones with larger rates of recovery, such as the alluvial zones. Therefore, the hydraulic conductivities listed in Table F.1, particularly those for alluvial wells, should be considered minimum values.

F.3.0 AQUIFER TEST OF MONITOR WELL DM 504

A 4-day aquifer test was conducted from July 29 through August 1, 1991 using well DM 504 as the pumping well and well DM 504OB1 as the observation well. This test was conducted primarily to: 1) evaluate the hydraulic conductivity and storage coefficient near the center of the contaminant plume, and; 2) evaluate changes in volatile organic compound (VOC) concentrations in response to pumping.

Monitor well DM 504 was installed during December 1990, and monitor well DM 504OB1 was installed during July 1991. Construction data for these wells are presented in Appendix A of this report. Figure F.6 illustrates the construction of DM 504 and DM 504OB1, and presents the general lithologies encountered in each well.

F.3.1 PROCEDURES AND EQUIPMENT

Daily water level elevations were measured in the monitor wells from July 23 through July 26, 1991, prior to the start of the aquifer test. These data are listed in Table F.2.

Installation of the submersible pump, generator, and water discharge system occurred on July 25, 1991. A 4-inch-diameter, 7.5-horsepower, Goulds™ submersible pump was set at a depth of approximately 105 feet in pumping well DM 504.

Produced water was discharged through a 2-inch-diameter flexible line to a City of Phoenix (COP) sanitary sewer located approximately 700 feet east of DM 504. Dames & Moore obtained a COP manhole entry permit for discharge of the water to the sanitary sewer prior to initiation of pumping.

A 2-inch-diameter in-line flow meter was installed at the wellhead. A 2-inch-diameter gate valve was installed between the flow meter and the pump to regulate an approximate discharge rate of 60 gallons per minute (gpm) during the 72-hour test.

A pre-test (step test) of the pumping system was conducted on July 25, 1991, prior to the start of the aquifer test. The step test consisted of pumping DM 504 for 4 hours at approximately the following rates:

- 40 gpm (1st-hour),
- 50 gpm (2nd-hour),

- 60 gpm (3rd-hour), and
- 66 gpm (4th-hour).

Drawdown and recovery data from DM 504 and DM 504OB1 were recorded during and after the step test. The data were evaluated to calculate: 1) an approximate drawdown that would be expected during the 72-hour pump test; and 2) the maximum pumping capacity of the pump and discharge system. The maximum rate achieved with this pump system was approximately 66 gpm.

A pressure transducer/data logger system was installed at depths of 100 and 75 feet for DM 504 and DM 504OB1, respectively, and tested prior to the start of the aquifer test. The pressure transducer/data logger system consisted of an In-Situ Hermit™ Model SE 1000B Environmental Data Logger equipped with two Druck 0-50 psi (pounds per square inch) rated electric pressure transducers.

F.3.2 AQUIFER TEST DATA

The aquifer test was started on July 29, 1991 at 0715 hours (military time) when pumping well DM 504 was turned on, and stopped on August 1, 1991 at 0800 hours when the pump was turned off. A total of approximately 264,515 gallons was produced from pumping well DM 504 during the 72.75 hours (4,365 minutes) of the test.

During the first 16 minutes of the pumping portion of the aquifer test it was necessary to reduce the initial pumping rate of DM 504 from 66 gpm to approximately 60.5 gpm. The pumping rate was maintained at approximately 60.5 gpm for the remainder of the pumping portion of the aquifer test. Pumping rate measurements are listed in Table F.3.

Water levels were measured by hand during the test in pumping well DM 504, and observation well DM 504OB1 using an electric well sounder. The hand measurements made in

pumping well DM 504 and observation well DM 504OB1 were used to supplement those made and recorded by the pressure-transducer/data logger system. Water level measurements made during the test are listed in Table F.3.

Hourly barometric pressure measurements were obtained from the National Weather Service at Sky Harbor International Airport. The barometric pressure data were converted to relative changes in feet of head and are presented graphically on Figure F.7. Diurnal fluctuations in barometric pressure, caused by daily changes in air temperature and humidity, are apparent on the graph. The barometric pressure changes which occurred during the course of the aquifer test did not influence the aquifer test results.

Water quality data obtained during the aquifer test included:

1) periodic field measurements of pH, specific conductance (SC), and temperature;

2) the collection of samples for analysis by EPA Method 601 for volatile organic compounds (VOCs) at 24-hour intervals from the start of the pumping portion of the aquifer test; and

3) the collection of one sample at the end of pumping for analysis of selected inorganics.

Results of the water sample analyses are presented in Appendix E of this report. Periodic field measurements of pH, SC, temperature, times of sample collection, corresponding water levels, and pumping rates are listed in Table F.3.

F.3.3 ANALYSIS METHODS AND RESULTS

Figure F.8 is a semi-log plot of drawdown versus time in the pumping well, DM 504. Figure F.9 presents a semi-log plot of residual drawdown (the difference between the measured water level during recovery and the pre-pumping static water level) versus T (time

since pumping began) over T' (time since pumping ceased) for well DM 504 recovery data. Similarly, Figures F.10 and F.11 present semi-log plots of pumping and recovery data for well DM 504OB1. In general, drawdown and recovery water levels observed in both the pumping and observation wells proceeded rapidly for the first minute of the drawdown and recovery tests but quickly stabilized to approximately 16 feet (after adjustment of the pumping rate) in the pumping well and 0.7 feet in the observation well within the first 2 minutes of the test.

Drawdown in both wells remained stable until approximately 350 minutes into the test at which time the rate of drawdown increased slightly. At the conclusion of the pumping test, the water levels in the pumping and observation wells had declined to approximately 17 feet and 1 foot, respectively.

Several methods were used to evaluate the aquifer test data. The results are presented in Table F.4.

The Theis method (Theis, 1935) was used to evaluate the early time data (less than one minute into the test), prior to drawdown stabilization. The Theis method assumes:

1. the aquifer is confined;
2. the well penetrates the entire thickness of the aquifer; and
3. flow to the well is horizontal.

Given these assumptions, the "aquifer thickness" as defined for the Theis method is, equal to the thickness of alluvial aquifer penetrated by DM 504. The screened interval in DM 504 penetrates approximately 30 feet of alluvial aquifer. Therefore, the aquifer thickness for the early time pumping test data is assumed to be 30 feet. The Theis method employs a curve matching technique whereby drawdown is plotted against the time divided by the square of the distance from the pumping well to the observation well and compared to 'Theis' type curves. The Theis equation is expressed as follows:

$$s = \frac{Q}{4\pi KD}\int_u^{\infty}\frac{e^{-y}dy}{y} = \frac{Q}{4\pi KD}W(u)$$

where

$$u = \frac{r^2S}{4KDt} \text{ and, consequently } S = \frac{4KDtu}{r^2}$$

s = the drawdown in feet measured in an observation well at a distance of r in feet from the pumped well
Q = the constant well discharge in ft^3/day (11,550 ft^3/day or 60 gpm for this test)
S = the dimensionless coefficient of storage
KD = the transmissivity of the aquifer in ft^2/day; K = hydraulic conductivity (ft/day) and D = the aquifer saturated thickness (ft).
t = the time in days since pumping started.

Match points defined in the curve-matching analysis are used to quantify variables in the Theis equation. Match points were derived as follows:

u = 10 w(u) = 1
t/r^2 = 3.5×10^{-7} day/ft^2
s = 0.6 feet

The transmissivity calculated for well DM 504OB1 using these match points is 11,445 gpd/ft (1,530 ft^2/day). If the thickness of aquifer impacted by pumping during the first minute of the test is equal to 30 feet (the screen length used in DM 5040B1), the hydraulic conductivity is equal to approximately 51 ft/day. If the completion interval (the screened length plus the gravel filter pack) of 44 feet is used, the hydraulic conductivity value is 35 ft/day. These values fall within the range of hydraulic conductivity reported for alluvium aquifer test described in Appendix E of the 1987 RI. The storage coefficient calculated for the early time

data (0.021) is typical of semi-confined aquifers and also agrees well with values of the storage coefficient reported in Appendix E the draft 1987 RI.

The Thiem method as described by Kruseman and de Ridder (1990), assumes that flow to the pumped well is steady state and is entirely horizontal toward the well. The Thiem equation (described in Table F.4) for unconfined aquifers was used to calculate the hydraulic conductivity presented in Table F.4. The hydraulic conductivity of 77 ft/day was calculated using a steady state drawdown of 0.76 feet in the observation well (DM 504OB1). The assumption of steady state flow required by this method is not valid based on the observed increase in drawdown after 350 minutes. However, the method does provide an upper estimate of the value of hydraulic conductivity because the Thiem method conservatively overestimates the horizontal flow to the well.

Delayed yield was evaluated using the Neuman method as described by Kruseman and de Ridder (1990), however the results do not make hydrogeologic sense. Specifically, the value calculated for horizontal hydraulic conductivity was more than four times smaller than the value calculated for vertical hydraulic conductivity. In addition, the calculated storage coefficient exceeded 1.0 for late time pumping data. These results suggest that delayed yield is not the only process providing water to the well causing the observed drawdown stabilization.

The effect of leakage from the upper fluvial aquifer to the lower alluvial aquifer (Chapter 3.0 of the RI text provides a description of these hydrogeologic units) was evaluated by two methods; the Walton method (Walton, 1962) for unsteady flow and the De Glee method as described by Kruseman and de Ridder (1990) for steady flow. The Walton method, like the Neuman method for delayed yield, produced hydrogeologically unreasonable values for vertical versus horizontal hydraulic conductivity. In this case, the value of the vertical hydraulic conductivity (36 ft/day) was more than 60 times larger than the value of the horizontal hydraulic conductivity (0.6 ft/day). The value of the storage coefficient (1.1×10^{-4}) was small for an unconfined or semi-confined aquifer. As for delayed yield, it is concluded that a process or

processes beside leakage is providing water to the well at a rate sufficient to cause the observed drawdown stabilization.

The De Glee method assumes steady-state leakage from the upper fluvial aquifer to the lower alluvial aquifer. The equation used for the De Glee method is described in Table F.4. The hydraulic conductivity calculated by this method was 49.5 ft/day. However, the assumption of steady-state leakage is not indicated by late-time data.

The Jacob method (Cooper and Jacob, 1946) was used to evaluate the late-time portion of the drawdown curve, after approximately 350 minutes. The equation used for the Jacob method is included on Table F.4. The calculated transmissivity from the observation well drawdown data was 8,810 ft^2/day. Therefore, if the aquifer is 155 feet thick, the hydraulic conductivity is approximately 57 ft/day. This estimate closely agrees with the hydraulic conductivity calculated by the Theis method for early-time recovery data from the observation well (51.1 to 34.8 ft/day).

The evaluation and analyses described in the previous paragraphs indicate that the pumping well received recharge by one or more processes. Recharge directly from the Grand Canal would supply a continuous flow of water to the pumping well. The increased rate of drawdown in the latter portion of the test suggests that at least a portion of the recharge is derived from a non-continuous source such as delayed yield or aquifer leakage. It is concluded from this analysis that a combination of delayed yield, aquifer leakage, and canal recharge contributed water to the pumping well during the pumping test. The complex interrelationship of these processes precludes direct evaluation of the data by methods specifically designed for individual flow mechanisms. The early-time data analyzed by the Theis method yielded the most reliable estimates of transmissivity because drawdown was not yet influenced by the vertical component of flow. The Jacob method, used on the late-time drawdown data, yielded transmissivities similar to the Theis analysis. Based on this analysis, the hydraulic conductivity of the lower portion of the alluvium is concluded to range between 35 and 57 feet/day which is

consistent with the results of aquifer tests conducted in the alluvium at the Old Crosscut Canal (Dames & Moore, 1987b, Appendix E). The value of the storage coefficient measured by the Theis and Jacob methods vary from 0.0017 to 0.021 and are consistent with values of storage reported in the 1987 Draft RI.

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Table F.1

ESTIMATED HYDRAULIC CONDUCTIVITIES
SLUG TEST RESULTS

Well No.	Port # and Depth (feet)	Monitoring Zone (feet)	Geologic Unit	Hydraulic Conductivities (ft/day)		Date(s) of Tests
				Hvorslev	Bouwer & Rice	
DM 501	152	140 - 164	Alluvium	NA	4.4	7/12-7/15/91
	212	194 - 223.5	Alluvium/Tempe Beds Contact	NA	1.5	
	272	266 - 282	Tempe Beds	0.063	NA	
	335	330 - 346	Tempe Beds	0.39	NA	
	392	386 - 420	Tempe Beds	0.38	NA	
DM 502	085	73 - 87	Alluvium	NA	9.8	7/22/91
	129	111 - 137	Alluvium/Tertiary Volcanics	NA	4.2	
	166	160 - 177	Tertiary Volcancis (Basalt)	0.0037	NA	
	244	239 - 256	Tempe Beds	0.045	NA	
	340	334 - 350	Granite	0.011	NA	
DM 506	110	82 - 145	Alluvium	NA	3.0	7/10 - 7/12/91
	195	161 - 217	Alluvium/Tempe Beds/Contact	NA	3.5	
	250	239 - 261	Tempe Beds	0.0014	NA	
	315	304 - 326	Tempe Beds	0.0018	NA	
	380	374 - 396	Tempe Beds	0.00087	NA	
DM 507	089	67 - 100	Alluvium	NA	7.3	7/16 - 7/17/91
	193	174 - 205	Tempe Beds	NA	0.28	
	245	234 - 251	Camels Head Formation	0.014	NA	
	285	274 - 291	Camels Head Formation	0.0035	NA	
	320	314 - 330	Camels Head Formation	0.00029	NA	

Notes:

1. All depths in approximate feet below ground surface.
2. NA = Not applicable.

Table F.2

PRE-PUMPING STATIC WATER LEVELS DEPTH BELOW GROUND SURFACE (FEET)

Date	DM 504	DM 504 OB1
07/22/91	55.39	55.02
07/23/91	55.49	55.03
07/24/91	55.38	55.03
07/25/91	55.38	55.02
07/26/91	55.40	55.03

Table F.3

AQUIFER TEST FIELD MEASUREMENTS
DM 504

Date	Clock Time	Elapsed Time (min.)	Estimated Pumping Rate (GPM)	Estimated Total Gallons Pumped	pH	Specific Conductivity (umhos/cm)	Temp. (C)
7/29/91	7:22	7	66.00	462			
	7:31	16	65.80	1054			
	7:35	20	59.50	1292	7.74	2400	*23.6
	7:40	25	60.40	1595	7.64	2180	*23.0
	7:45	0	60.30	1890	7.65	2180	*23.1
	7:50	35	60.20	2197	7.64	2180	22.9
	8:01	45	60.60	2866	7.71	2150	23.8
	8:10	55	60.30	3413	7.71	220	23.7
	8:15	60	60.60	3710	7.70	2150	23.3
	8:30	75	60.50	4618	7.69	2200	23.2
	8:45	90	60.00	5520	7.74	2200	23.2
	9:00	105	60.00	6420	7.79	2200	23.2
	9:15	120	60.60	7323	7.76	2200	*23.4
	11:15	240	60.53	14565	7.87	2200	23.7
	13:15	360	60.88	21825	7.84	2200	23.6
	15:15	480			7.80	2200	*23.7
	15:45	510	60.63	30915	7.79	2100	*23.3
	17:15	600	60.20	36366	7.76	2000	23.7
	19:15	720	60.37	43606	7.76	2100	*23.5
	21:14	839	60.40	50850	7.77	2100	*23.3
	23:14	959	61.43	58115	7.77	2200	*22.9
7/30/91	1:14	1079	60.97	65311	7.76	2200	*22.9
	3:14	1199	60.27	72542	7.79	2150	*22.9
	5:14	1319	60.50	79778	7.75	2150	*22.9
7/30/91	7:15	1440	60.29	87008	7.74	2150	22.9

Table F.3 (Continued)

Date	Clock Time	Elapsed Time (min.)	Estimated Pumping Rate (GPM)	Estimated Total Gallons Pumped	pH	Specific Conductivity (umhos/cm)	Temp. (C)
(cont.)	8:46	1531	60.38	92493	7.71	2200	*23.1
	11:15	1680	60.77	101502	7.70	2200	23.0
	13:15	1800	60.63	108786	7.67	2200	23.5
	17:15	2040	60.59	123365	7.71	2200	*23.3
	21:15	2280	60.73	137925	7.74	2200	*23.0
7/31/91	1:45	2550	60.73	154321	7.73	2200	*22.9
	5:15	2760	60.63	167073	7.75	2200	*23.0
	7:45	2910	60.77	176150	7.68	2250	22.4
	9:15	3000	60.47	181597	7.68	2200	23.3
	11:16	3120	60.45	188914	7.71	2200	*23.1
	13:15	3420	60.86	196118			
	15:15	3360	60.90	203414	7.79	2200	23.3
	17:15	3480	60.73	210711	7.75	2250	22.8
	19:15	3600	61.10	218041	7.70	2200	*22.8
	21:15	3720	60.90	225347	7.76	2200	*22.6
	23:15	3840	60.67	232630	7.74	2100	*22.1
8/01/91	1:15	3960	60.67	239911	7.74	2100	22.2
	3:15	4080	60.70	247196	7.72	2150	22.2
	5:15	4200	60.70	254476	7.71	2150	22.0
	7:15	4320	61.07	261763	7.73	2150	22.0
	8:00	4365	60.90	264515	7.73	2150	*22.2

* Approximate time for pH, specific conduct. and temperature measurements.

Table F.4

AQUIFER TEST RESULTS

Well	Method	Q gpm	D ft	T gpd/ft	T ft^2/d	K ft/d	S
DM 504(OB1)	Theis Rec. (early-time data)	60	45	11,445	1,530	34	0.021
DM 504(OB1)	Jacob	60	155	65,888	8,808	57	0.0017
DM 504(OB1)	Theim	60	155	89,624	11,981	77	-
DM 504(OB1)	De Glee	60	155	57,338	7,665	50	-

Equations:

Theis (from Kruseman and de Ridder, 1990):

$$KD = \frac{Q}{4\pi S} W(u); \; S = \frac{4KDtu}{r^2}$$

where K = hydraulic conductivity (ft/day)
D = saturated thickness (ft)
Q = pumping rate (ft^3/day)
s = drawdown (ft)
t = time (days)
W(u) = well function
u = $r^2S/4KDt$
S = coefficent of storage (dimensionless)

Jacob (from Kruseman and de Ridder, 1990):

KD = $2.30Q/4\pi s$
s = drawdown over one log cycle of time = 0.24 ft for the average estimated from the drawdown curve after approximately 350 minutes into the DM 504 pumping test.

Thiem (from Kruseman and de Ridder, 1990):

Table F.4 (Continued)

$$K = \frac{Q2.3\log(r_2/r_1)}{\pi(h_2^2 - h_1^2)}$$

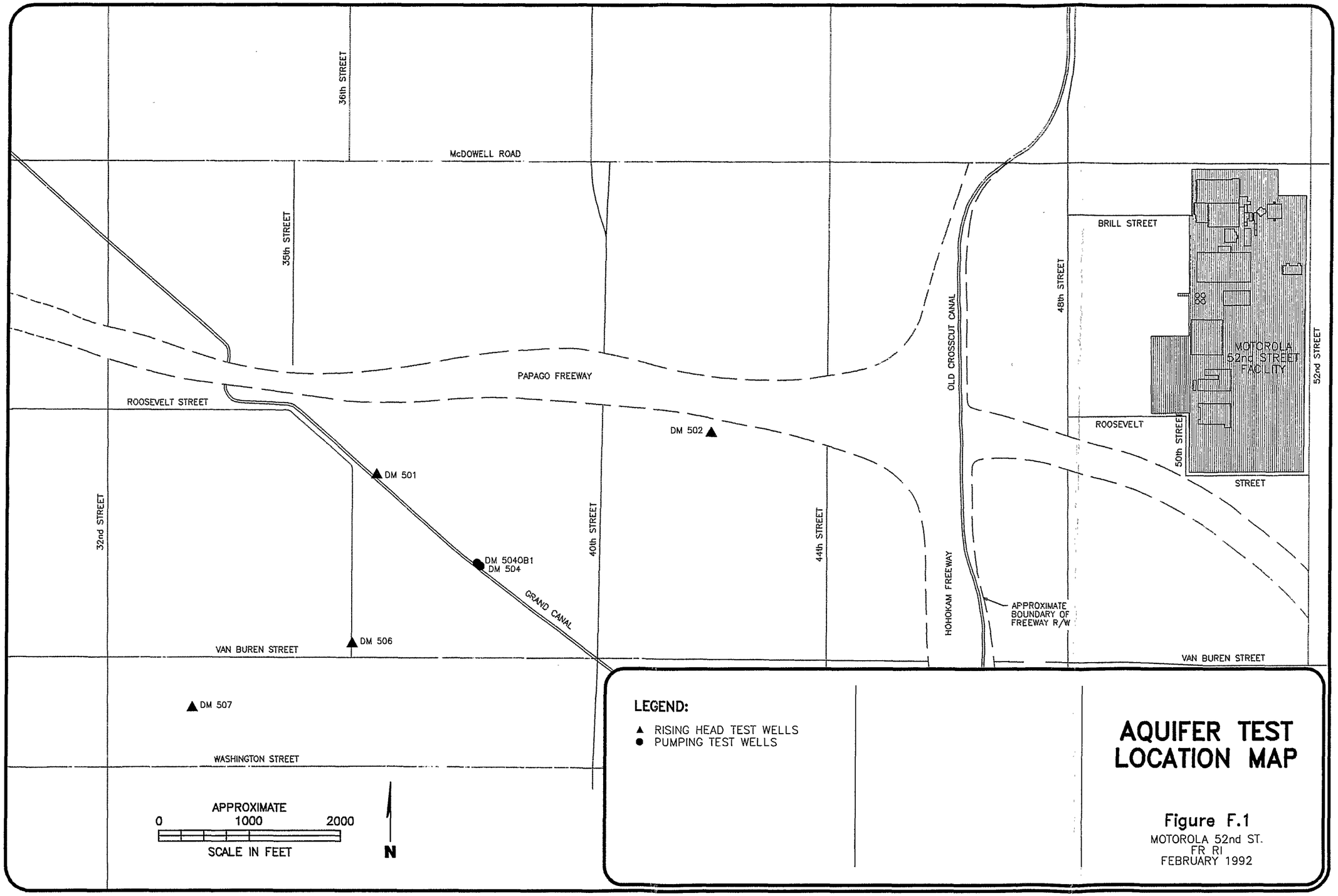
where K,Q as described above
r_1 = well radius (ft)
r_2 = distance from observation well to pumping well (ft)
h_1 = initial (static) total head
h_2 = steady state head during continuous pumping

De Glee (from Kruseman and de Ridder, 1990):

$$KD = \frac{Q}{2\pi S_m} K_o(r/L)$$

where K,D,Q as defined above
S_m = maximum (= steady state) drawdown in ft in an observation well at distance r in ft from the pumping well. A value of 0.8 feet was used in this equation.
L = $\sqrt{KDc}$: leakage factor in ft
c = D'/K': hydraulic resistance of the semi-pervious layer in days,
$K_o(x)$ = modified Bessel function of the second kind and of zero order (Hankel function)

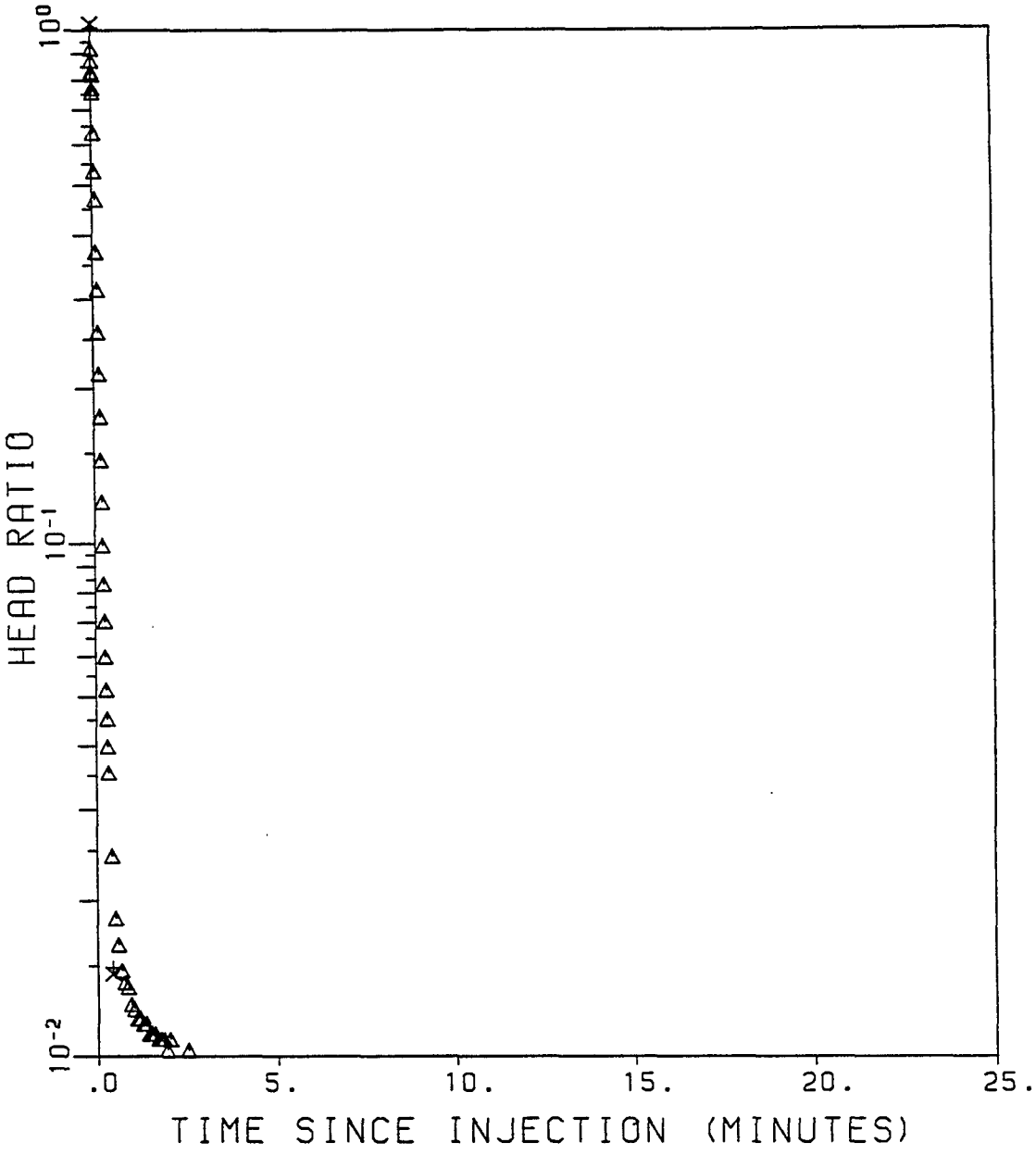
The value of $K_o(r/L)$ = 3.336 was derived from tables included in Kruseman and de Ridder (1990).



AQUIFER TEST LOCATION MAP

Figure F.1

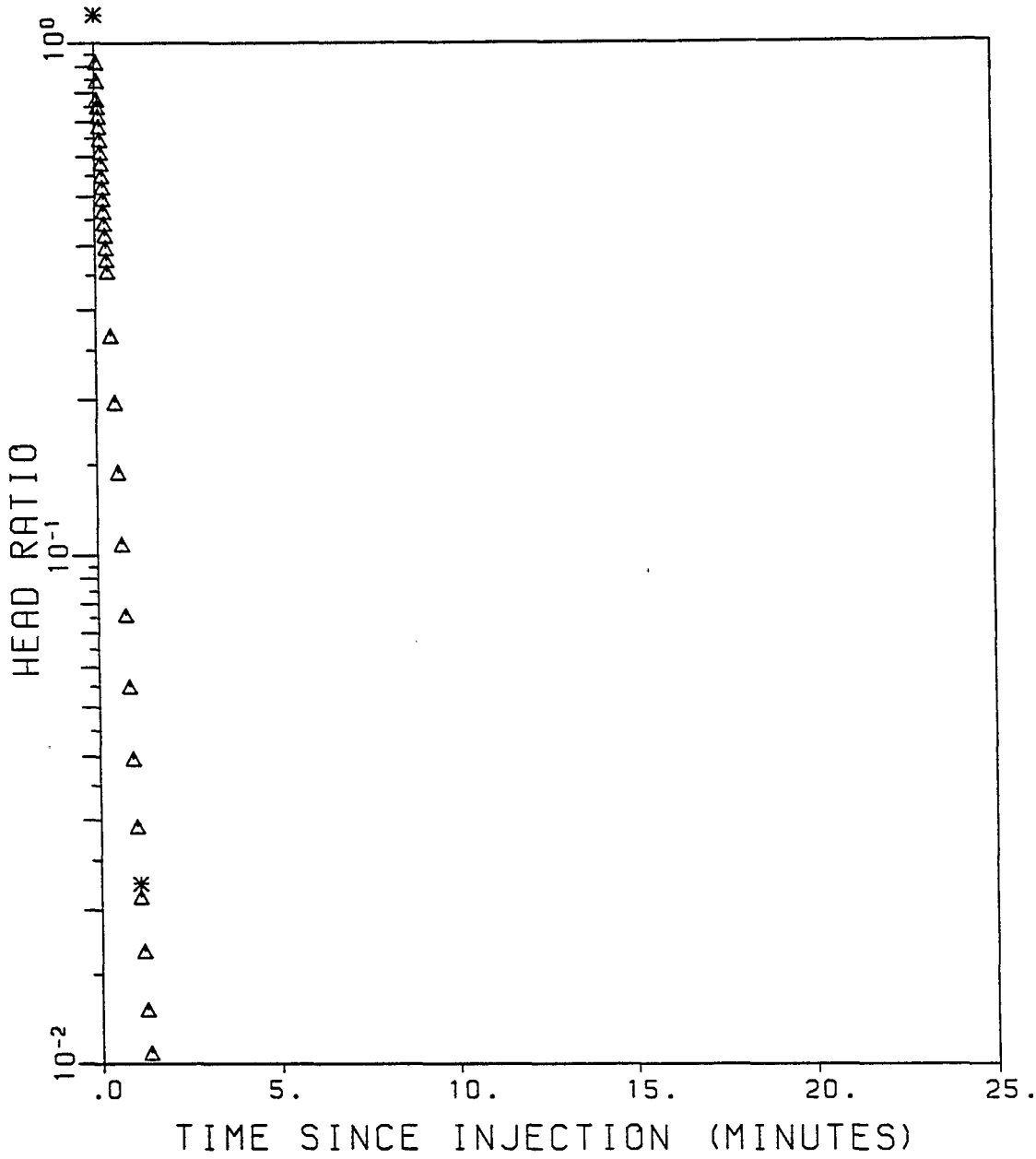
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 501-152

Figure F.2A

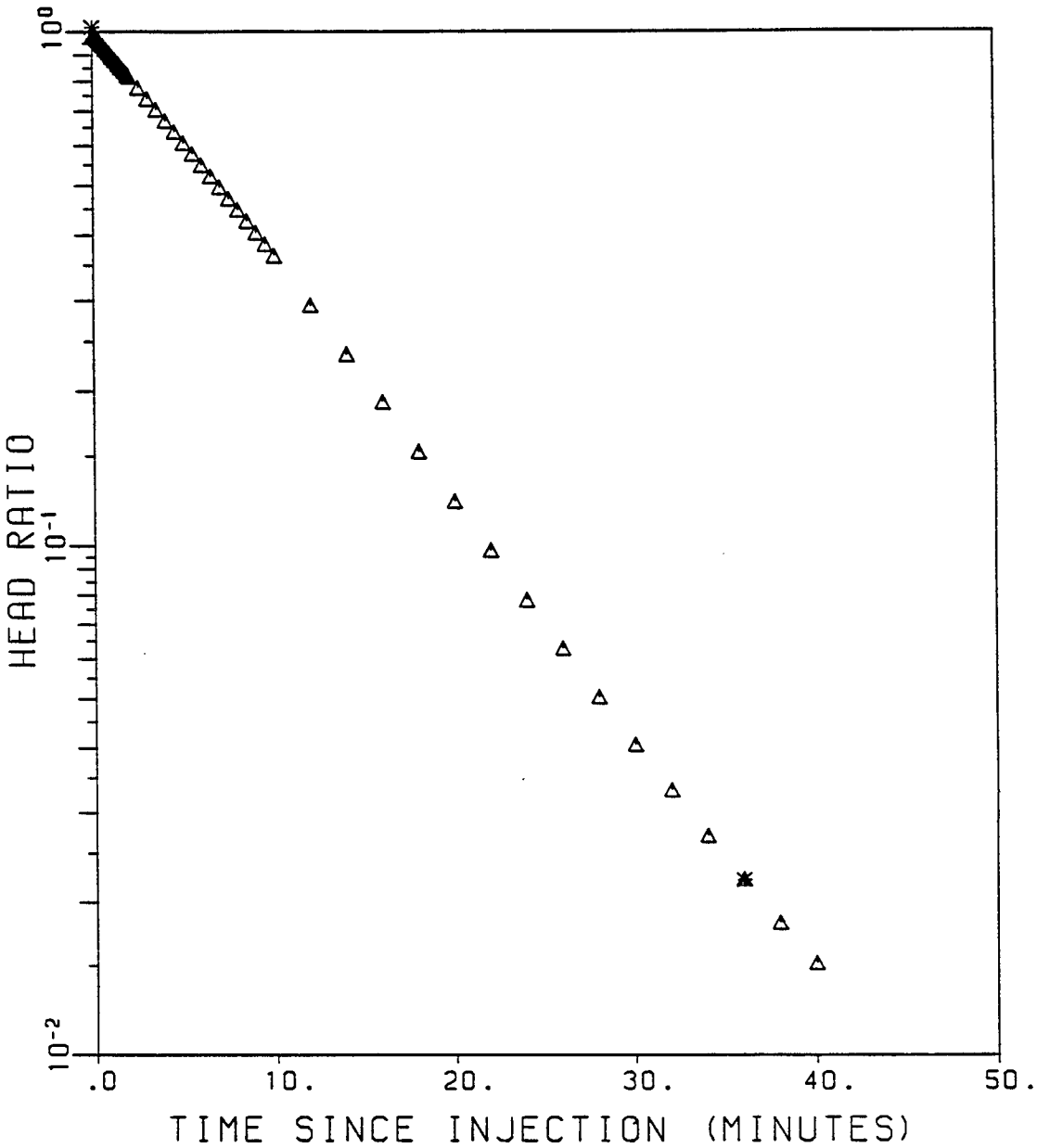
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 501-212

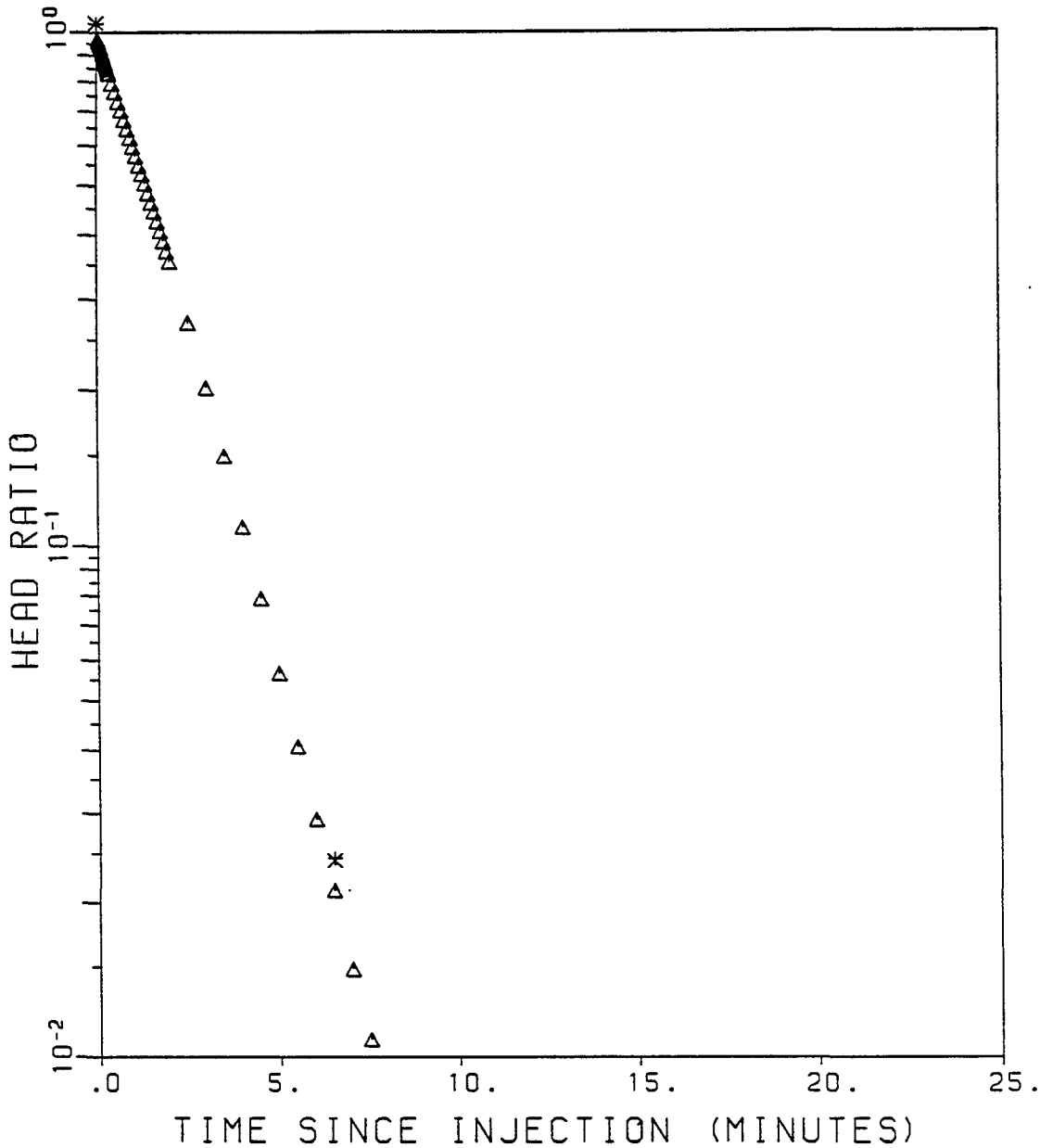
Figure F.2B

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 501-272

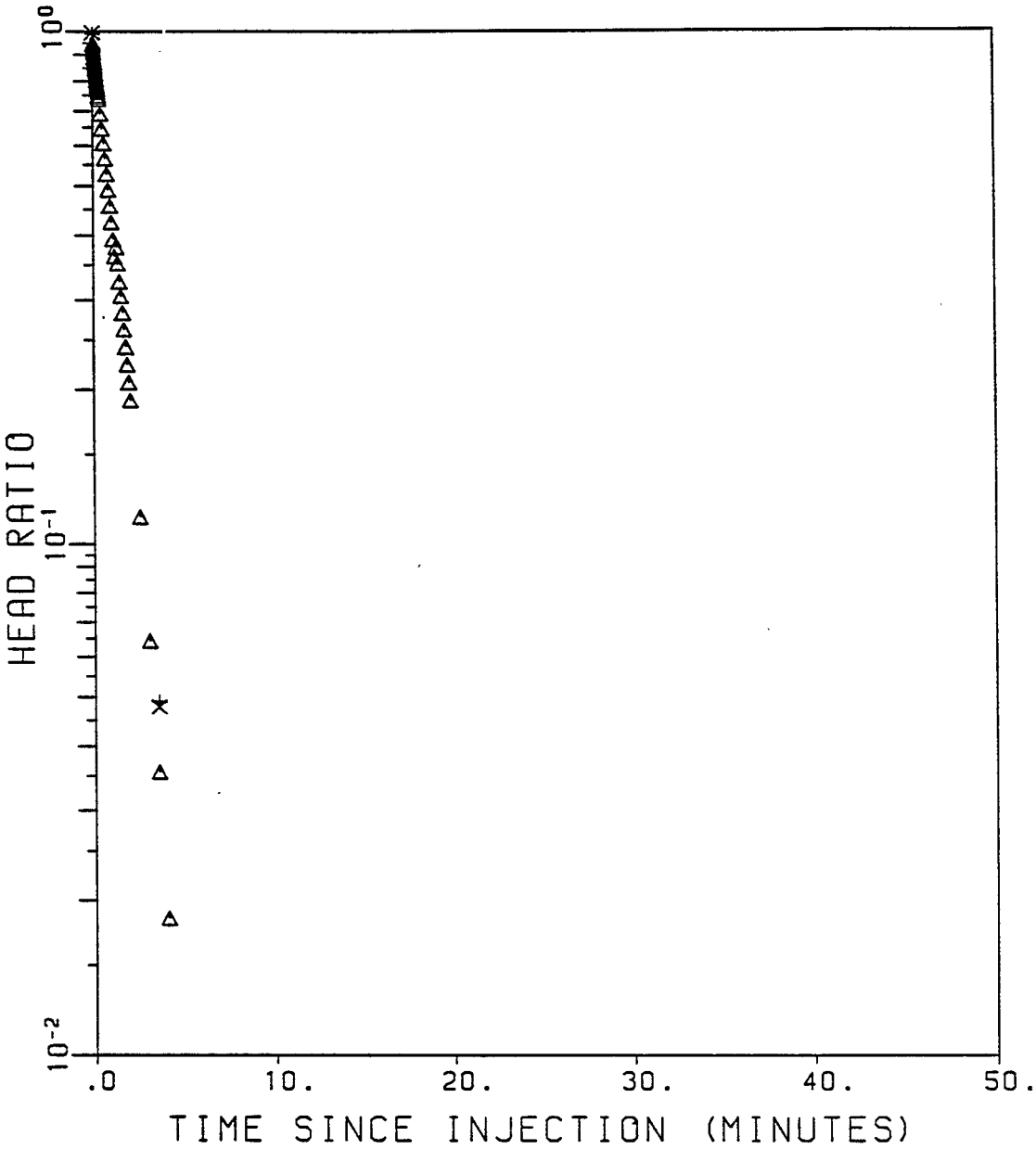
Figure F.2C
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 501-335

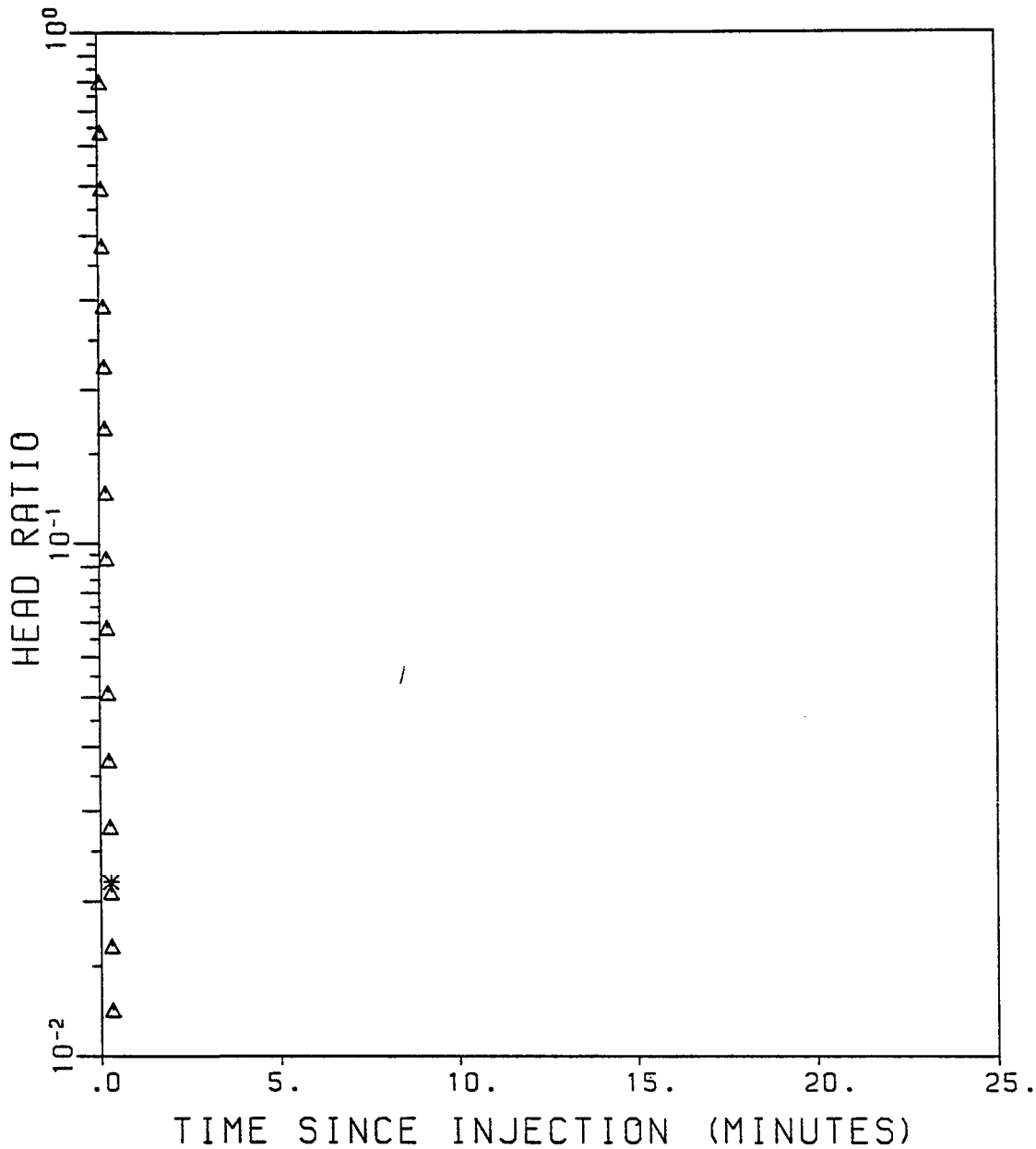
Figure F.2D

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



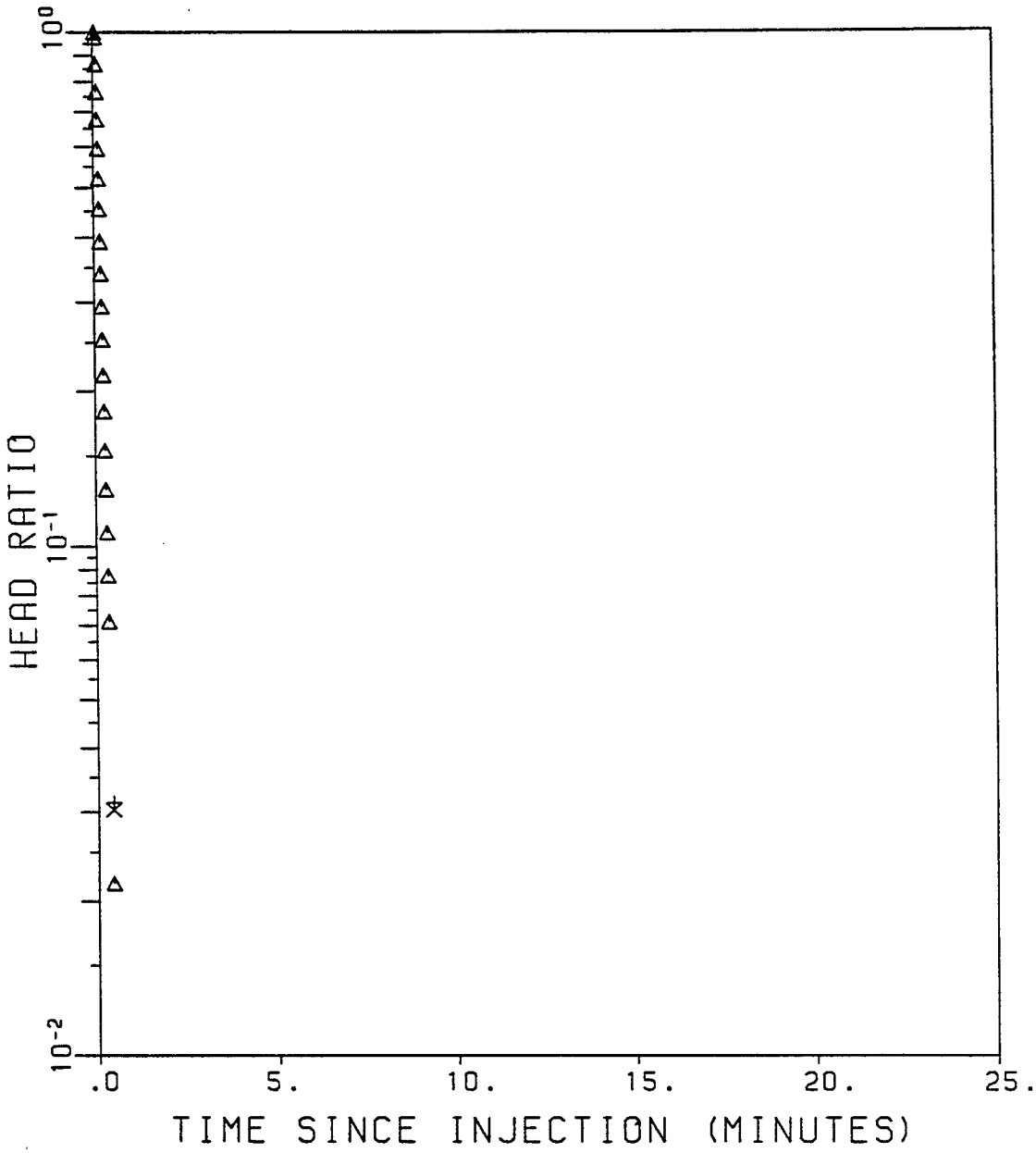
RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 501-392

Figure F.2E
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



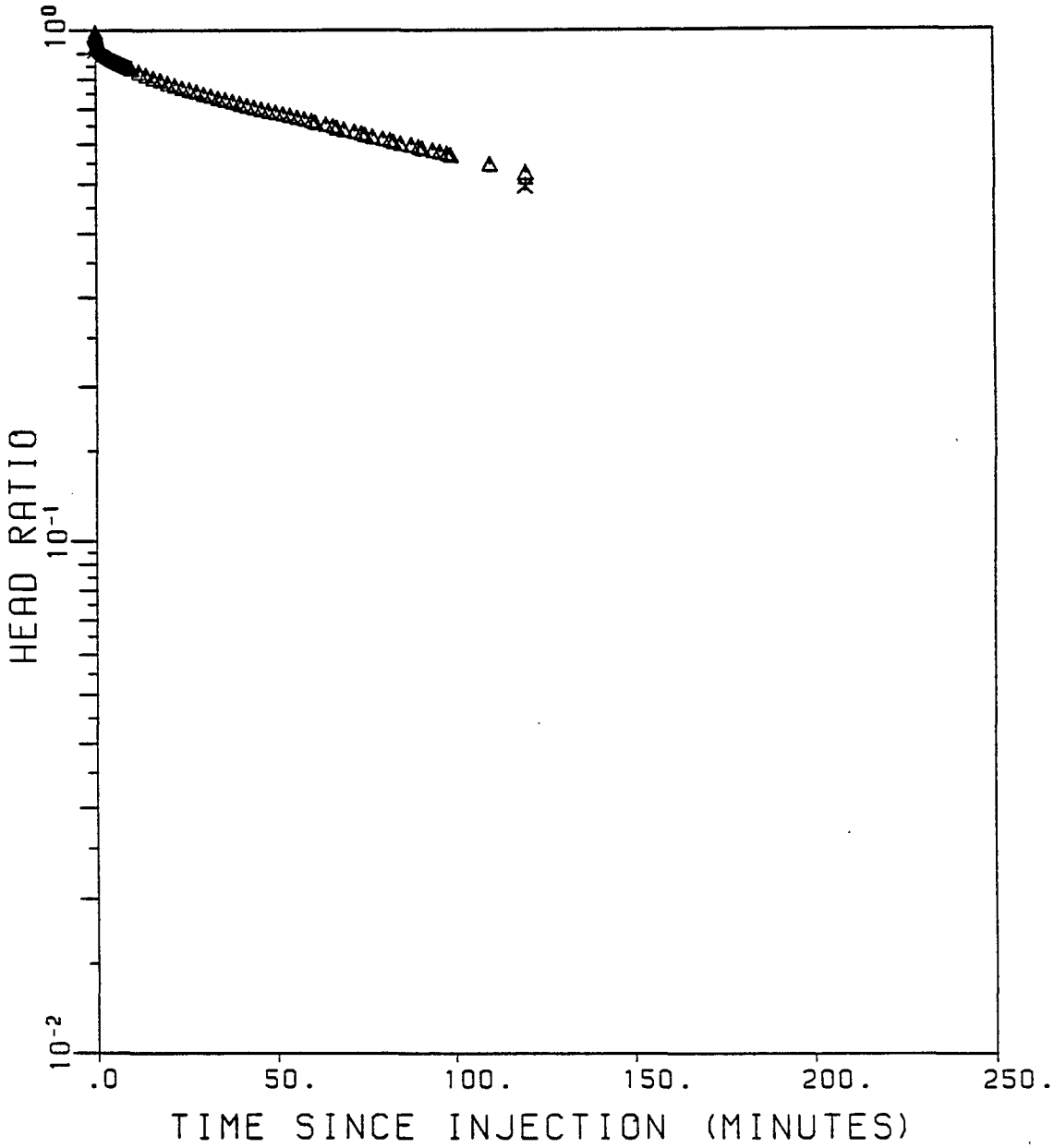
RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 502-085

Figure F.3A
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



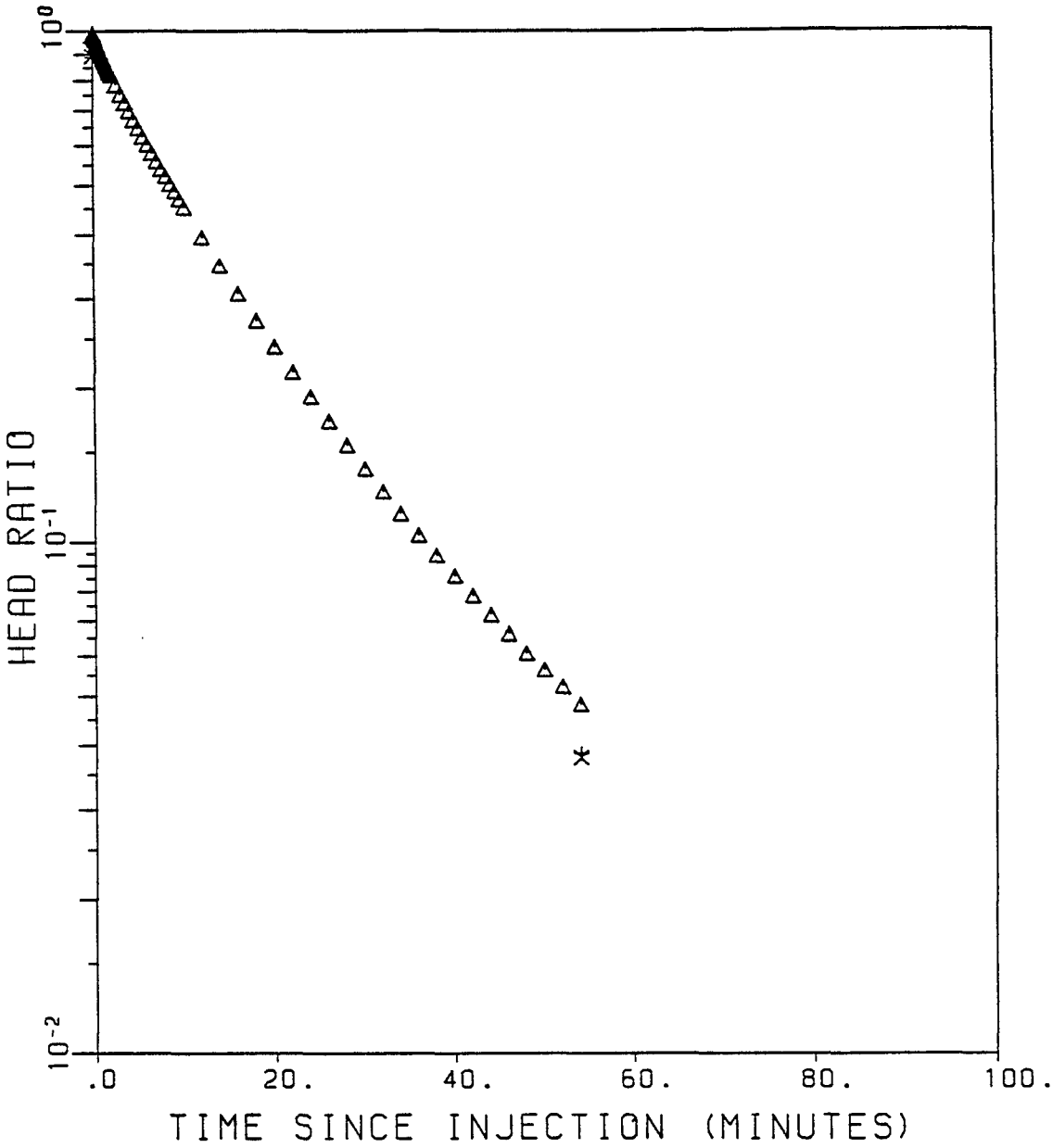
RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 502-129

Figure F.3B
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



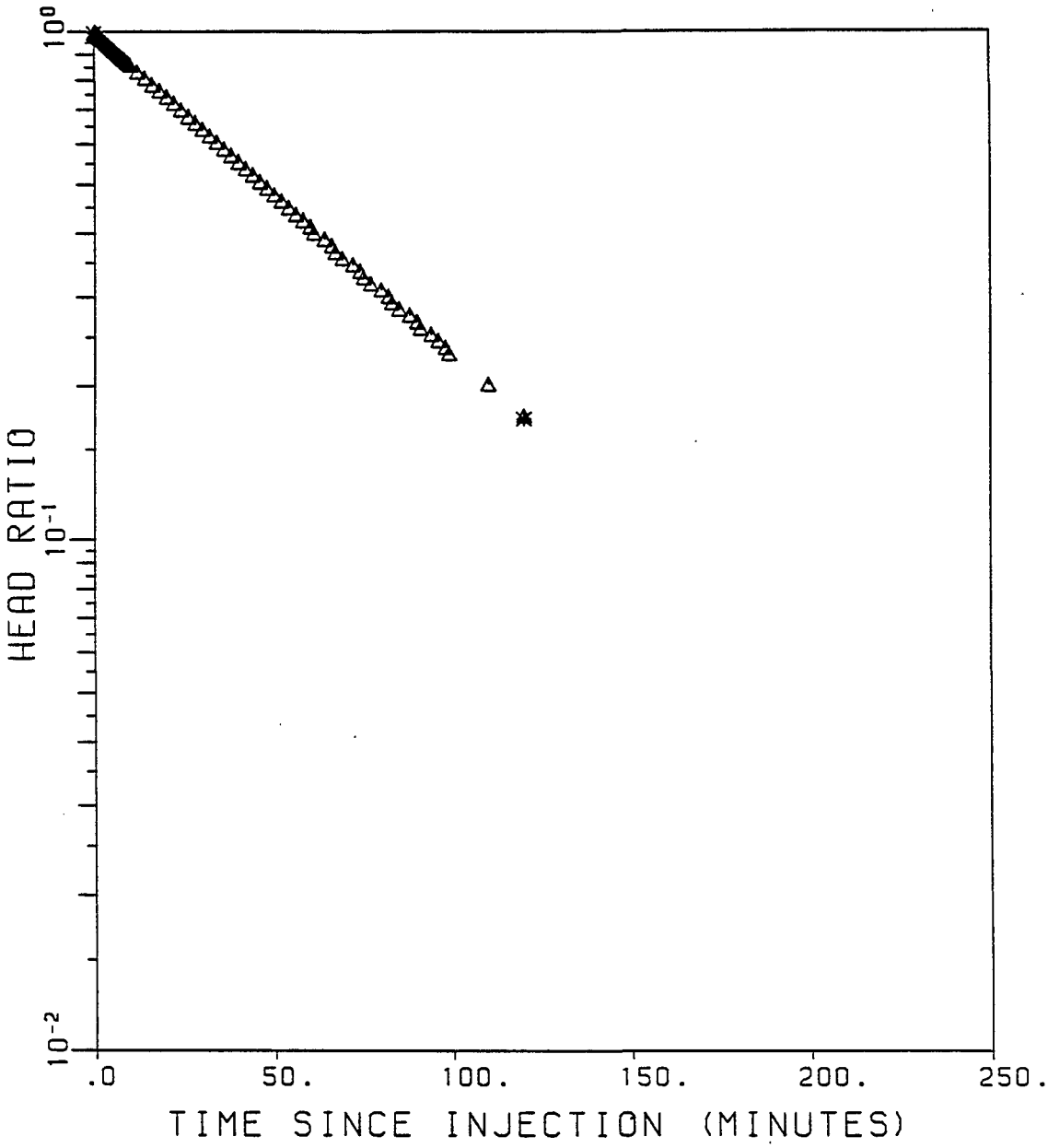
RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 502-166

Figure F.3C
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



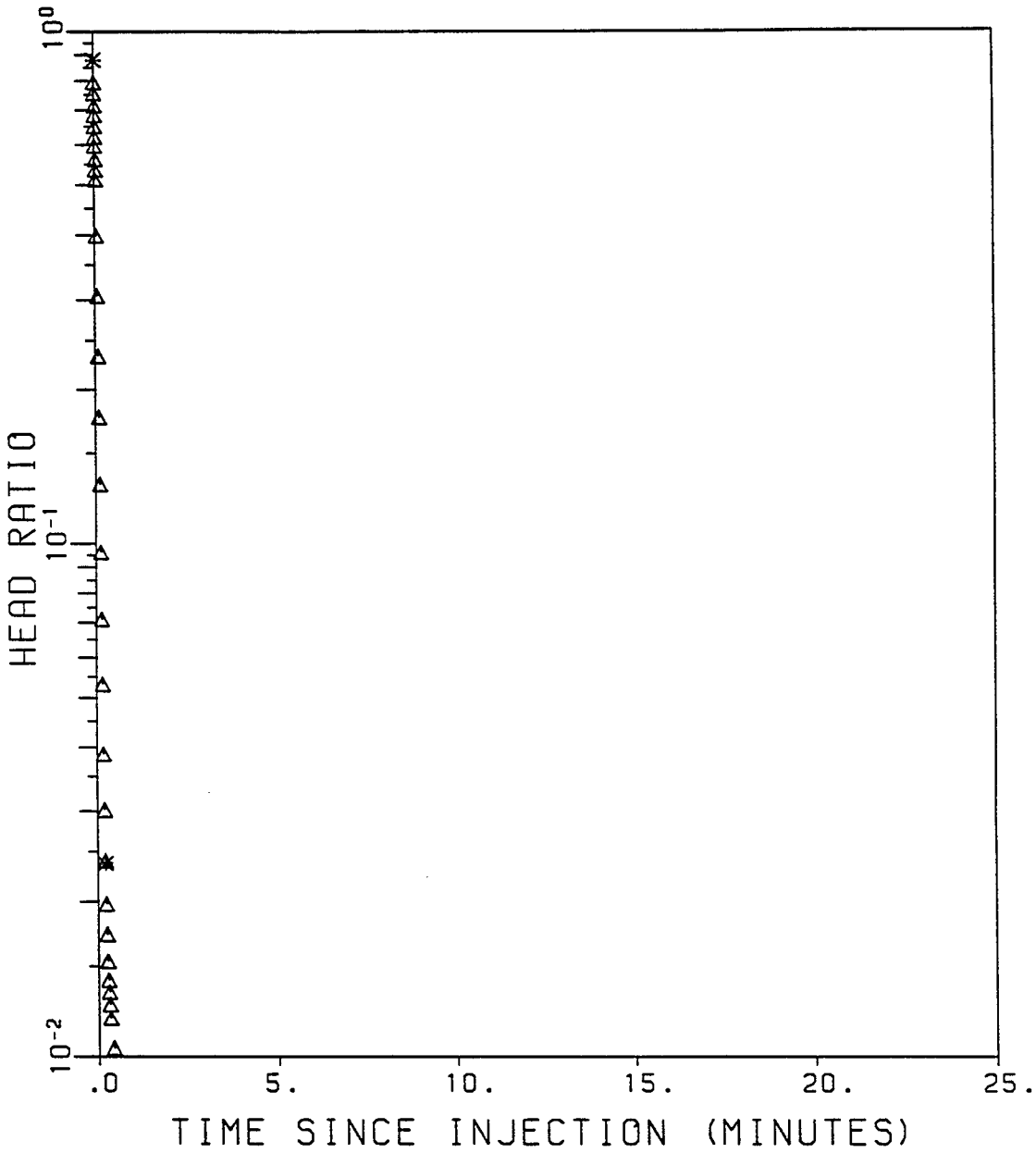
RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 502-244

Figure F.3D
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 502-340

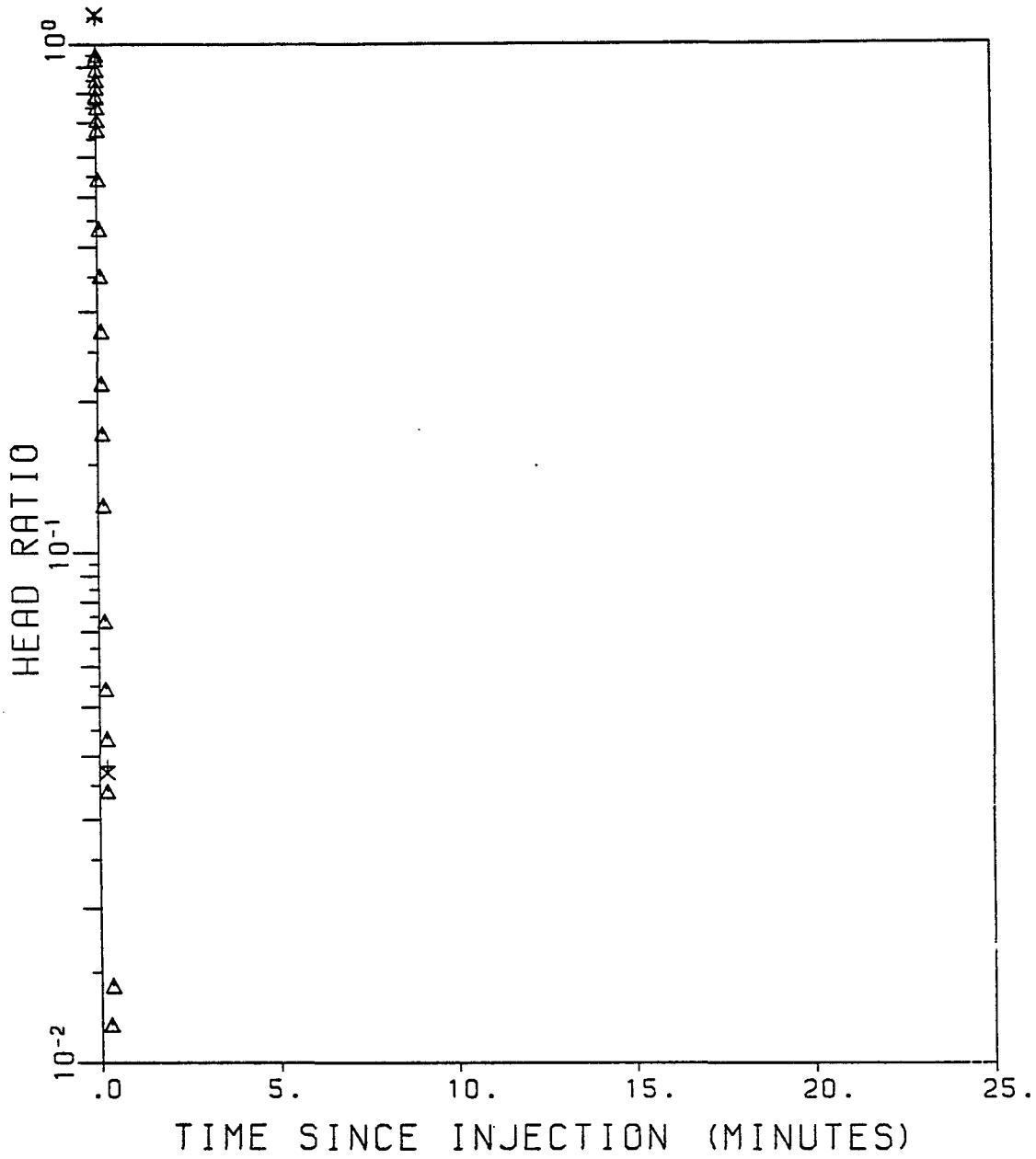
Figure F.3E
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 506-110

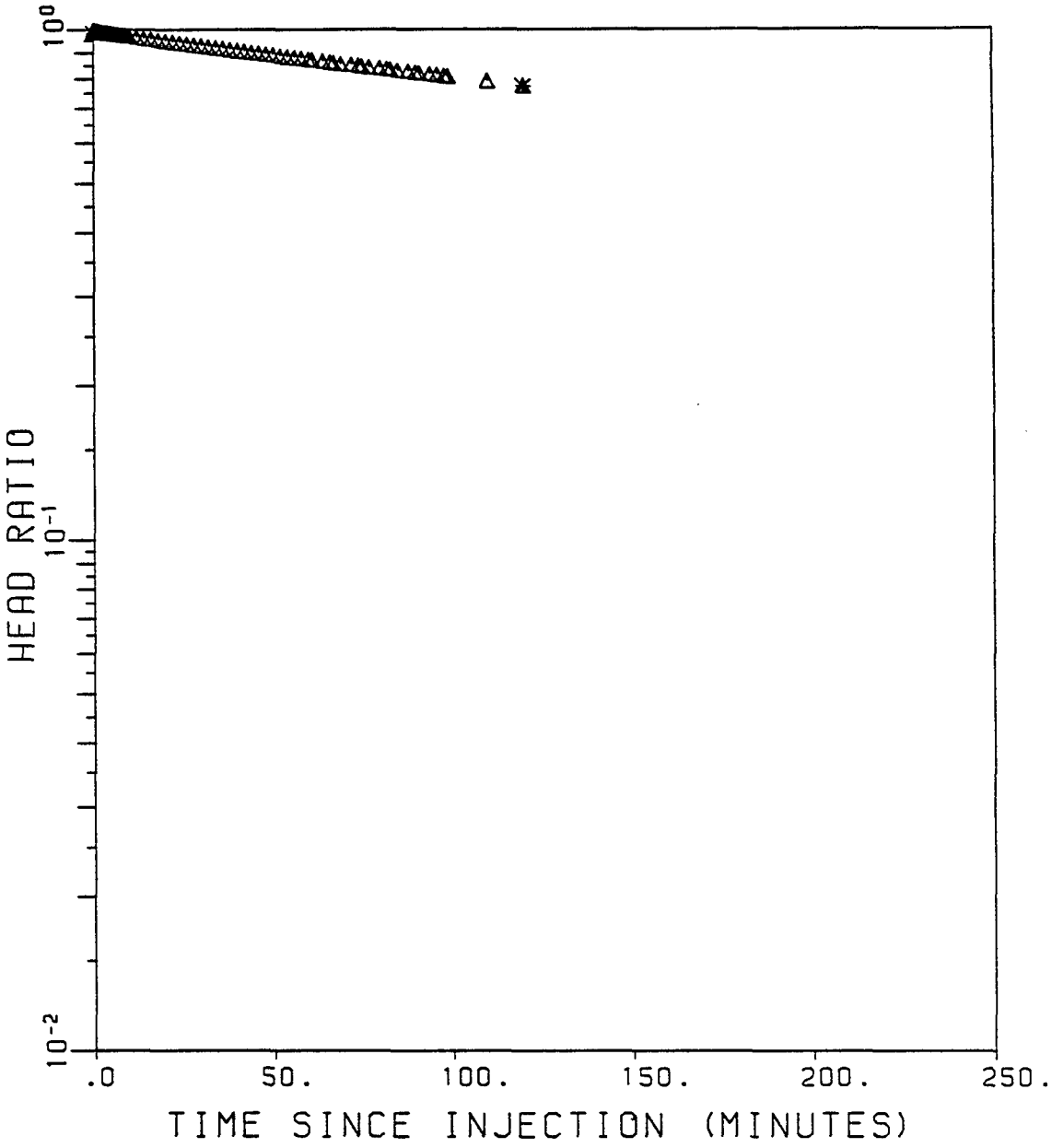
Figure F.4A

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



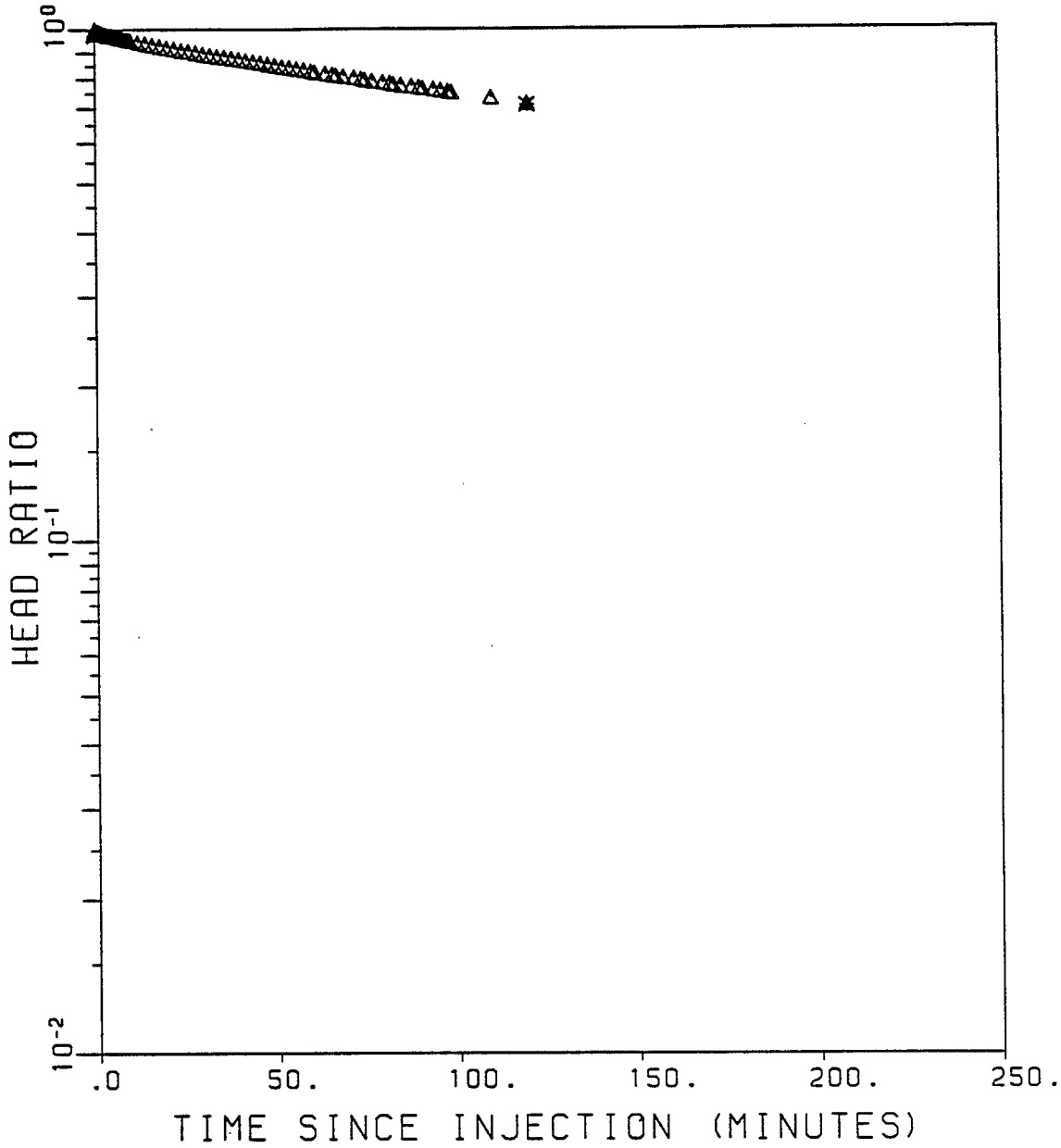
RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 506-195

Figure F.4B
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 506-250

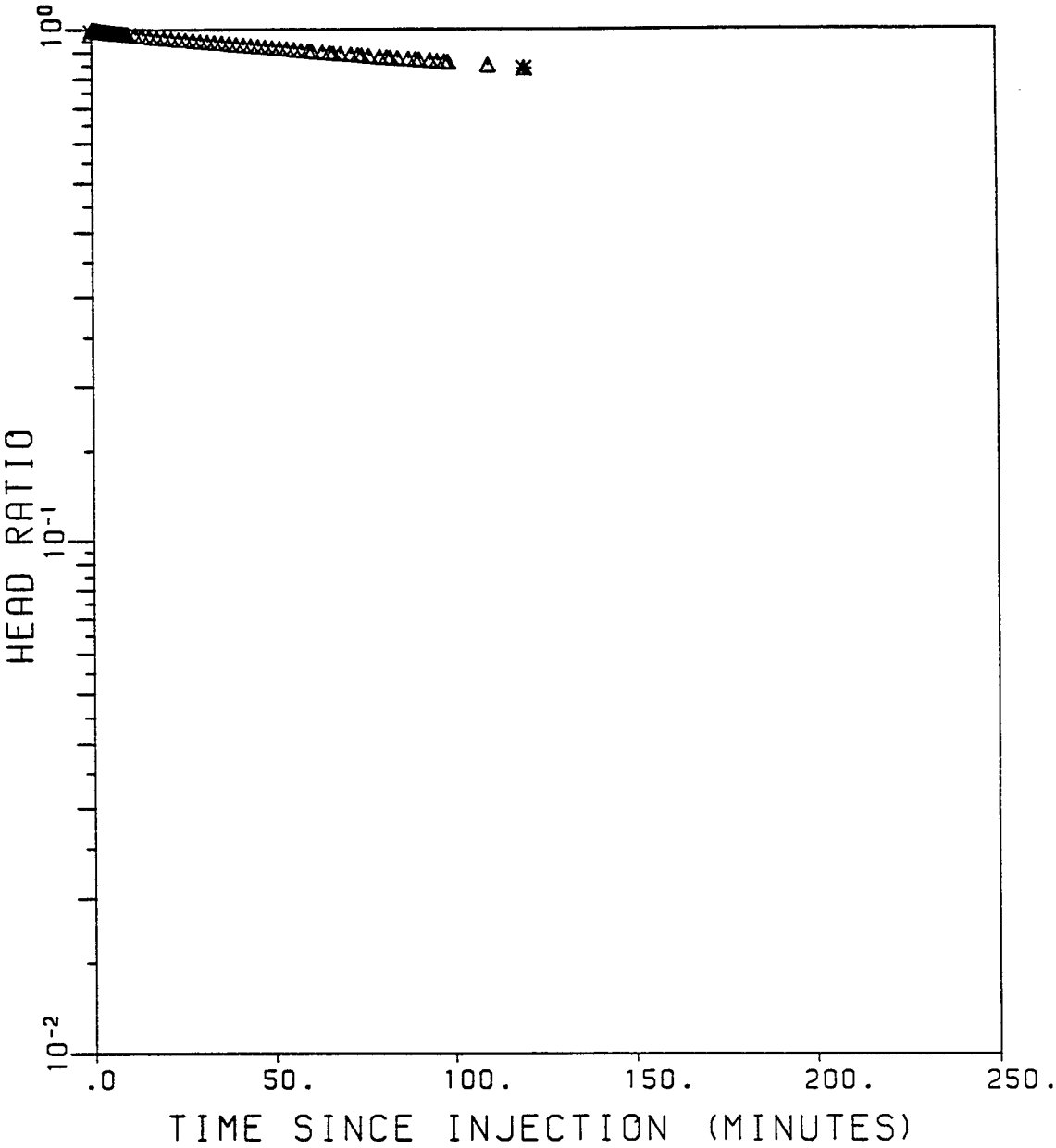
Figure F.4C
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 506-315

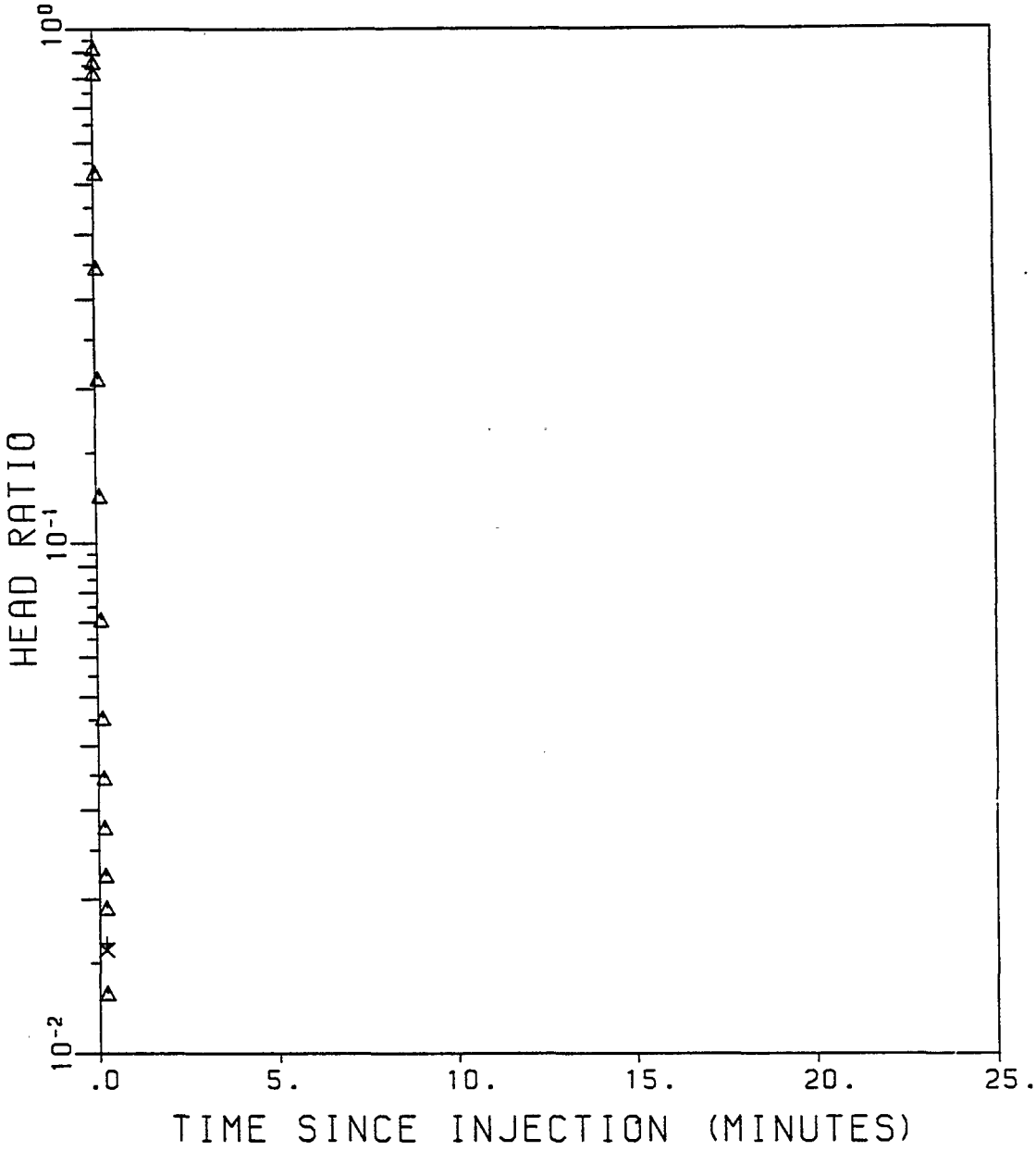
Figure F.4D

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 506-380

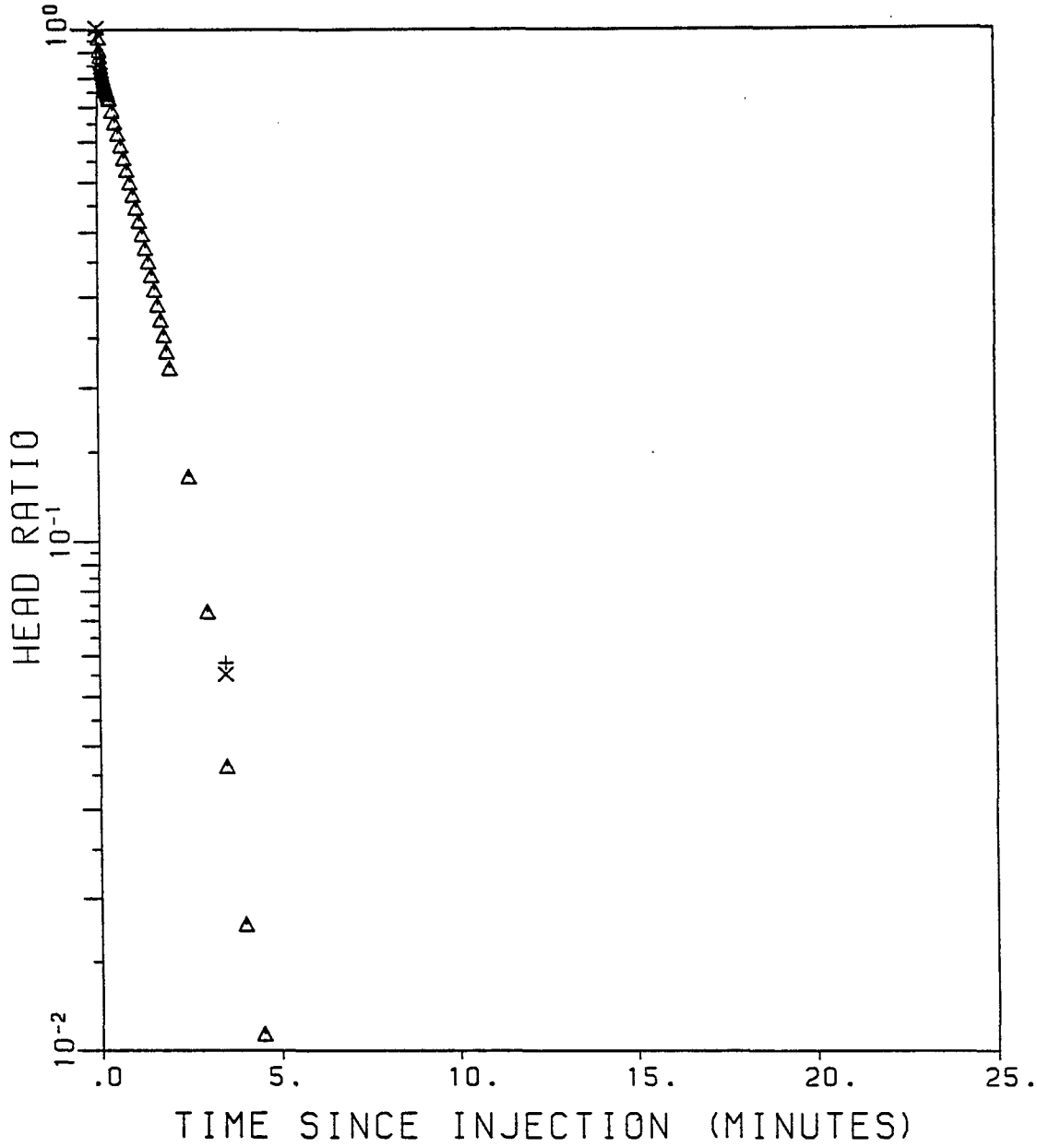
Figure F.4E
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 507-089

Figure F.5A

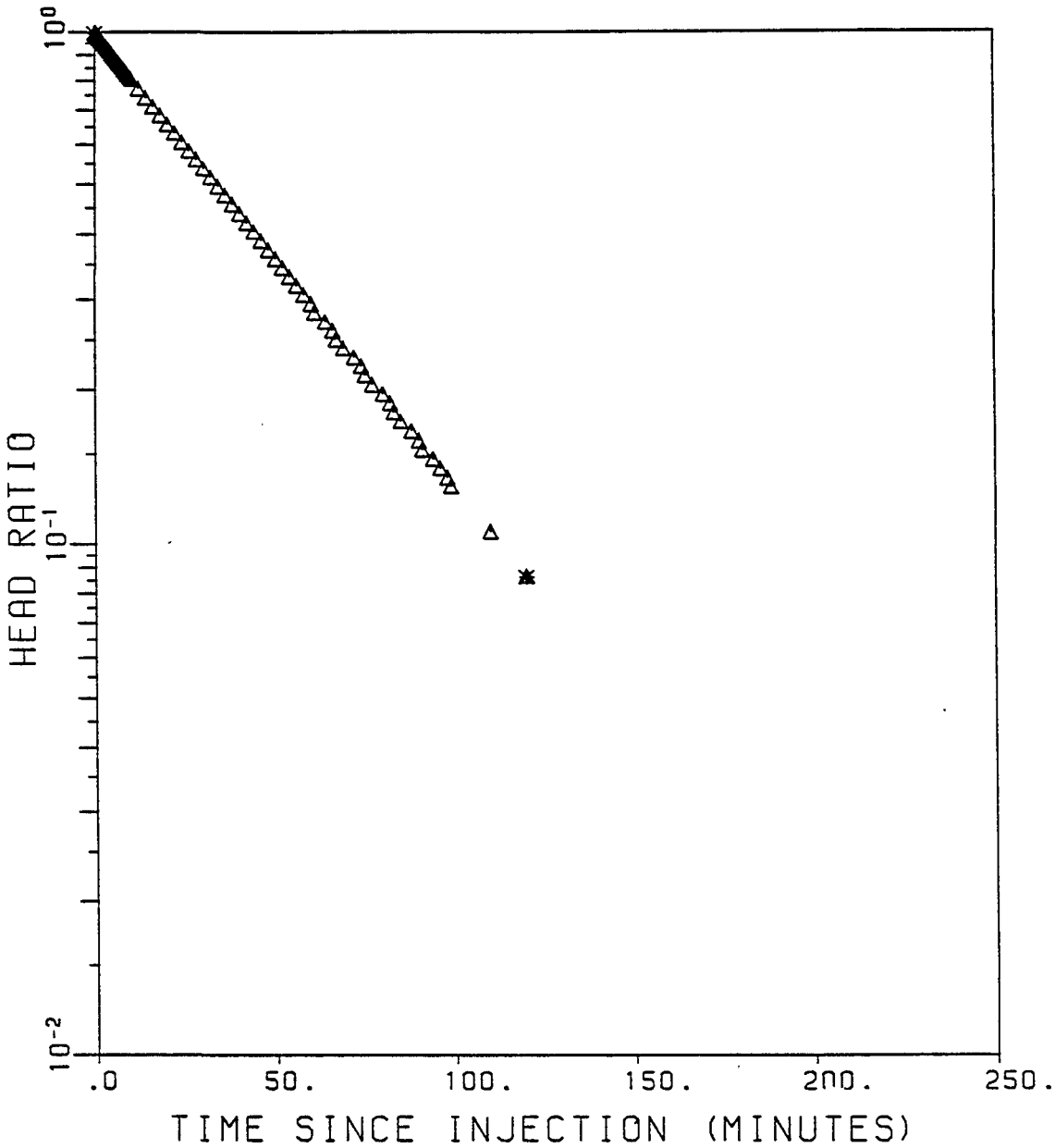
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 507-193

Figure F.5B

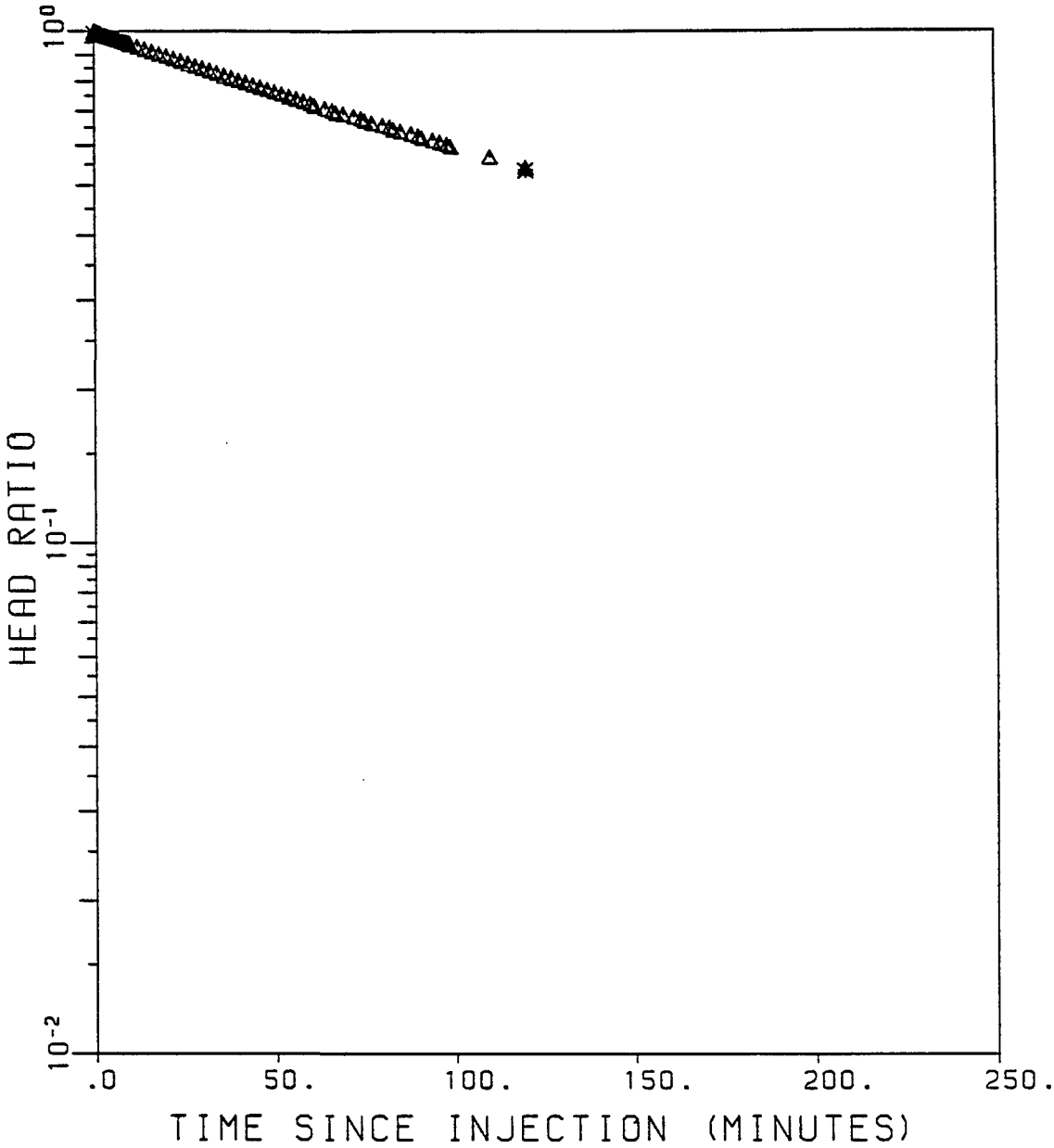
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 507-245

Figure F.5C

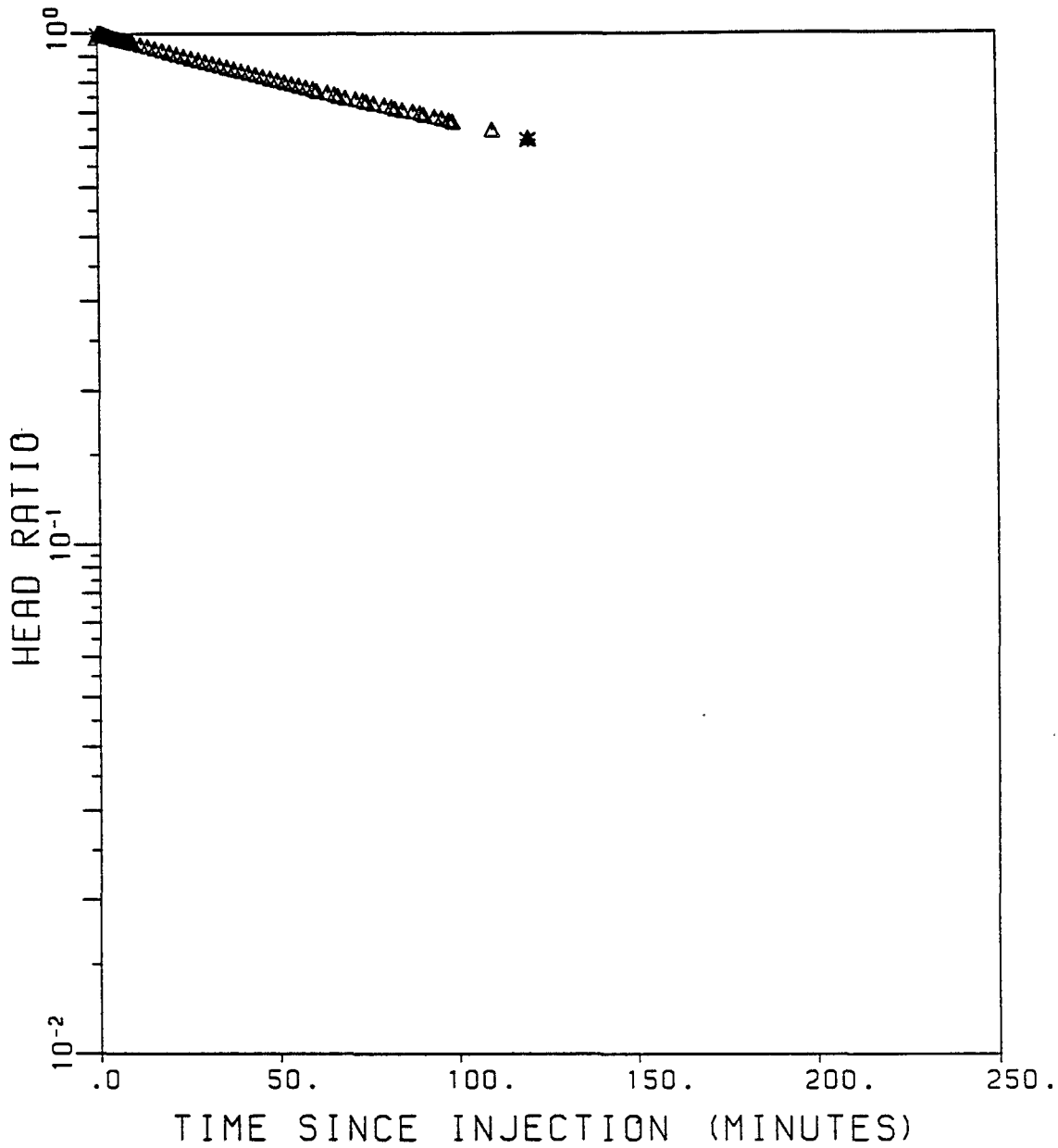
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 507-285

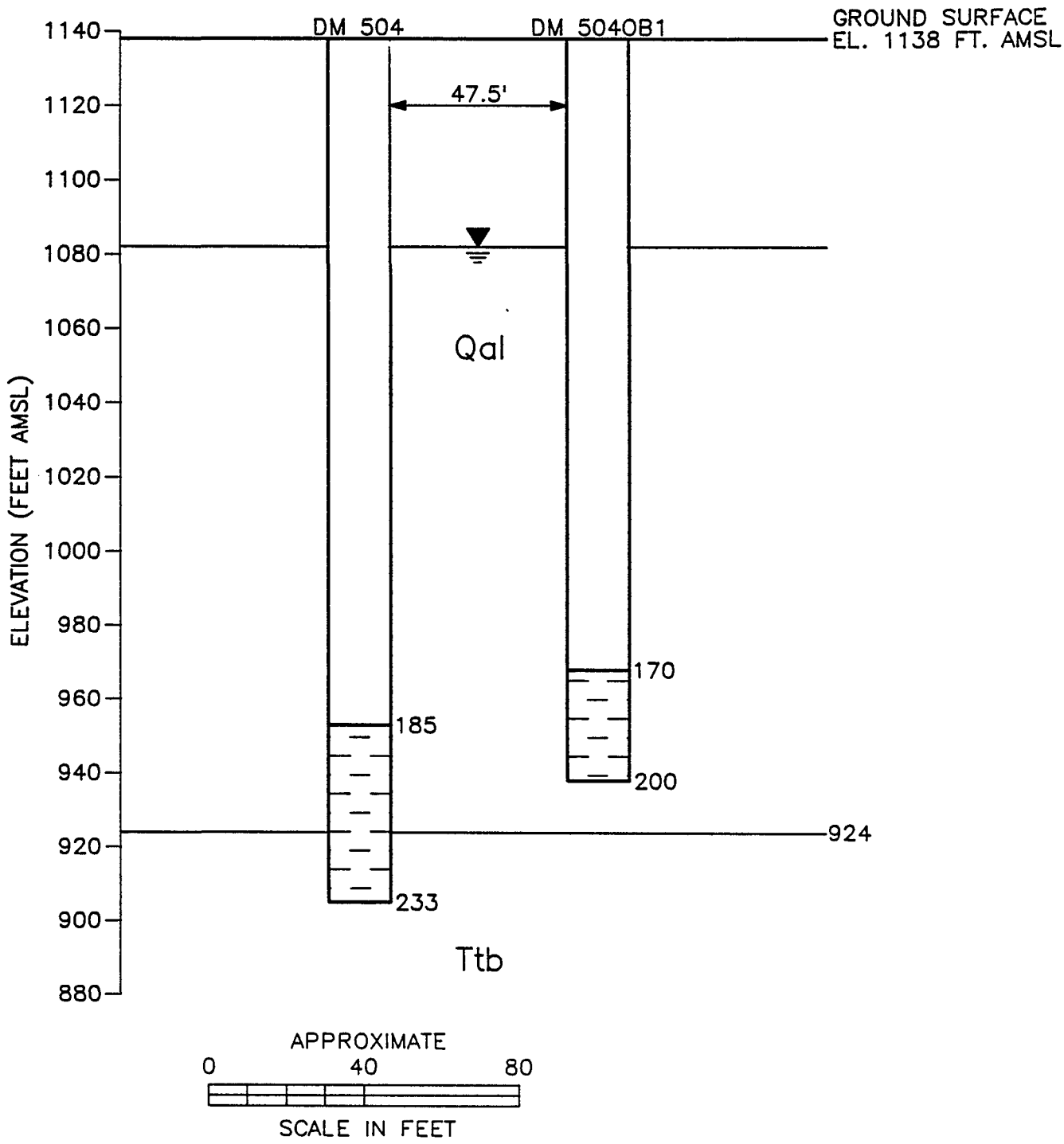
Figure F.5D

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RISING HEAD TEST RESULTS
LOG HEAD RATIO VS. TIME
MONITOR WELL DM 507-320

Figure F.5E
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



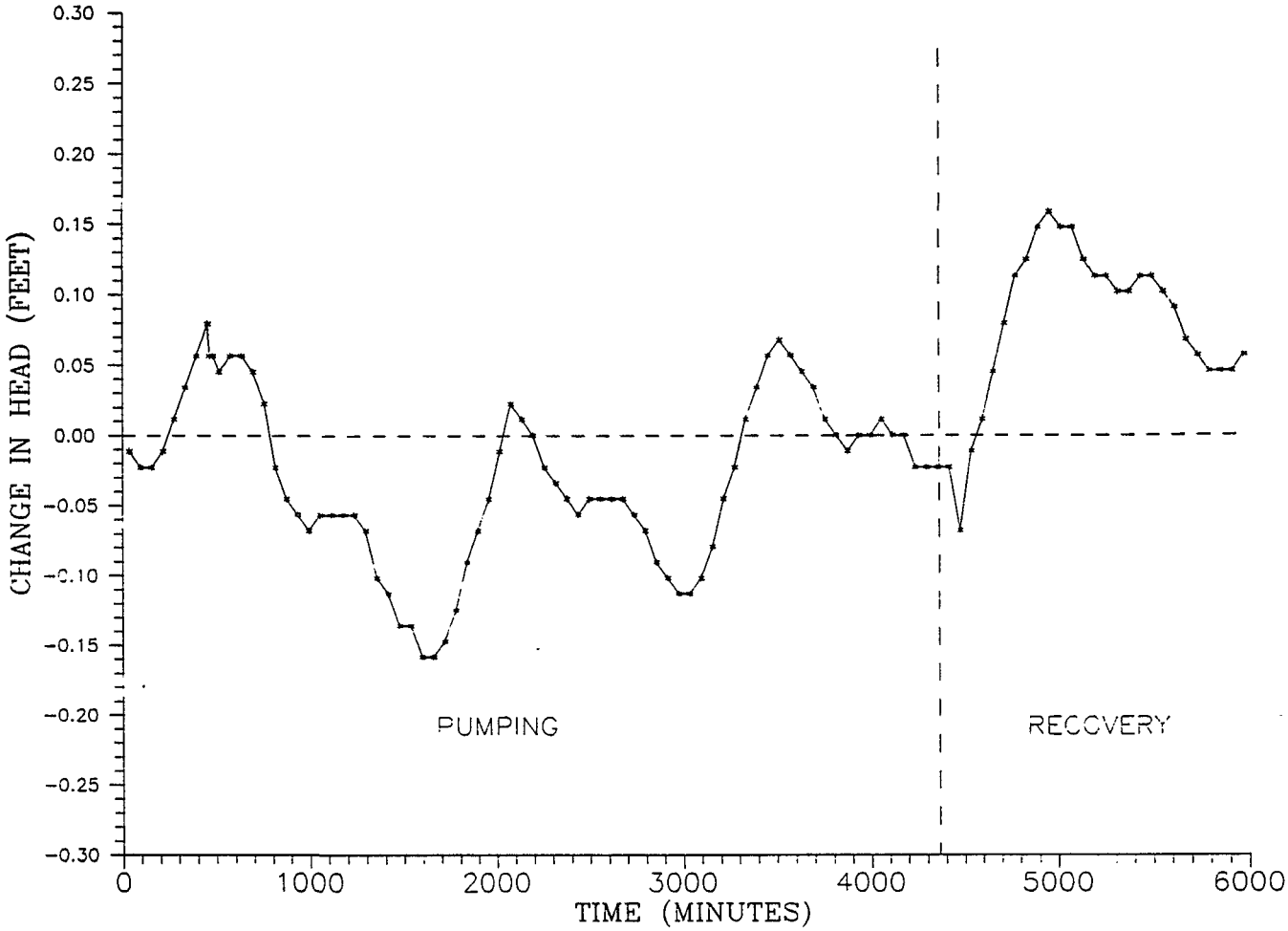
LEGEND:

▼	GROUNDWATER ELEVATION (7/29/91)
Qal	QUATERNARY ALLUVIUM
Ttb	TERTIARY TEMPE BEDS

WELL CONSTRUCTION SCHEMATIC DM 504 & DM 5040B1

Figure F.6

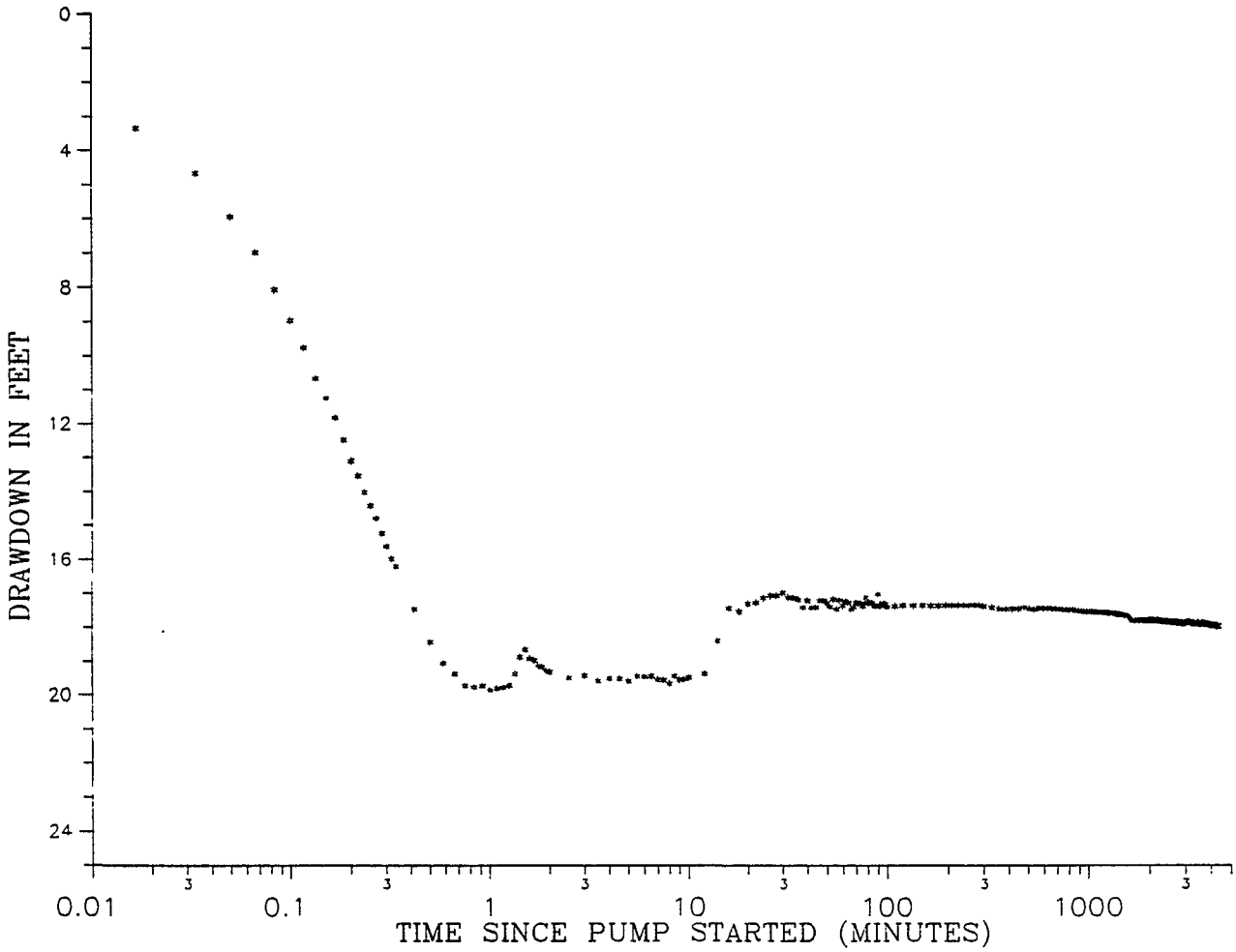
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



CHANGE IN WATER TABLE ELEVATION DUE TO BAROMETRIC PRESSURE FLUCTUATIONS

Figure F.7

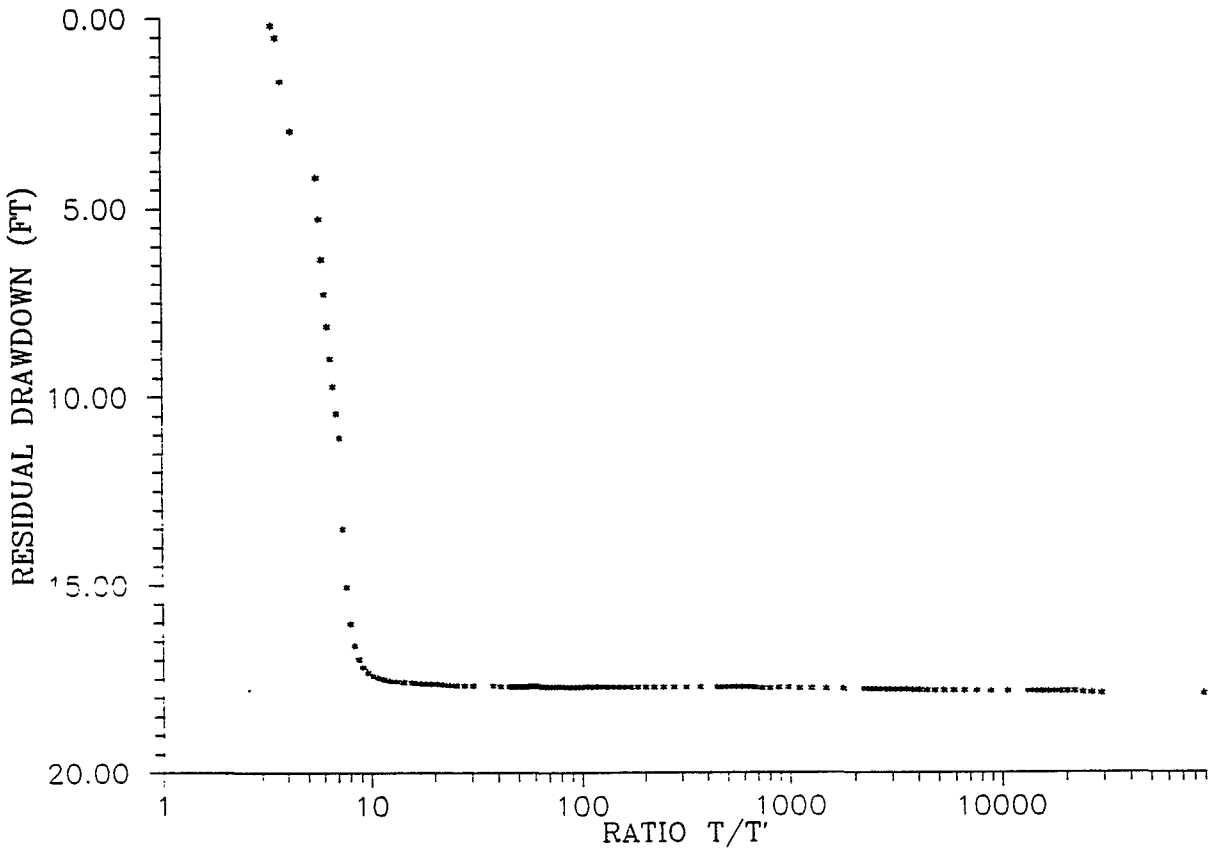
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



DRAWDOWN VS. TIME
MONITOR WELL DM 504

Figure F.8

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



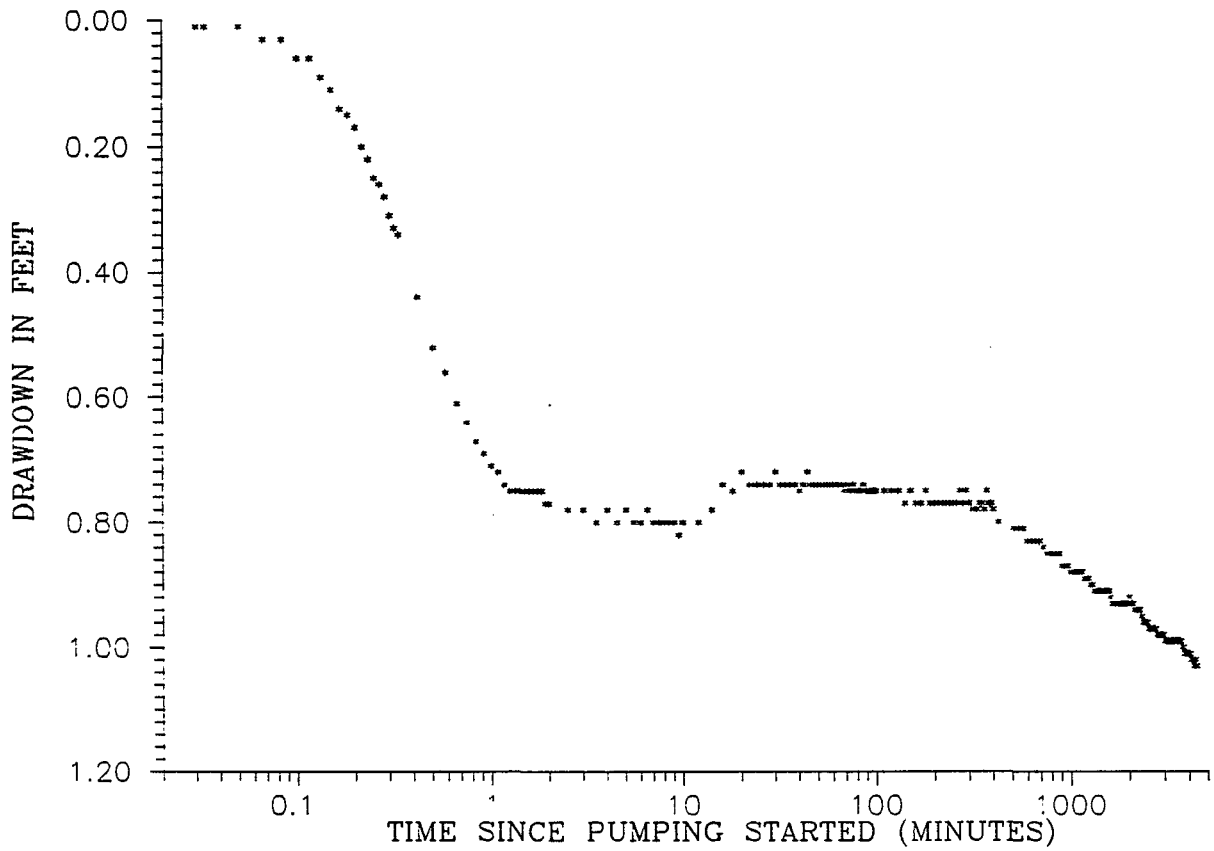
NOTES:

T=time since pumping began
T'=time since pumping ceased
Residual Drawdown=difference between water level measured during recovery and the pre-pumping static water level.

RESIDUAL DRAWDOWN VS. RATIO T/T' MONITOR WELL DM 504

Figure F.9

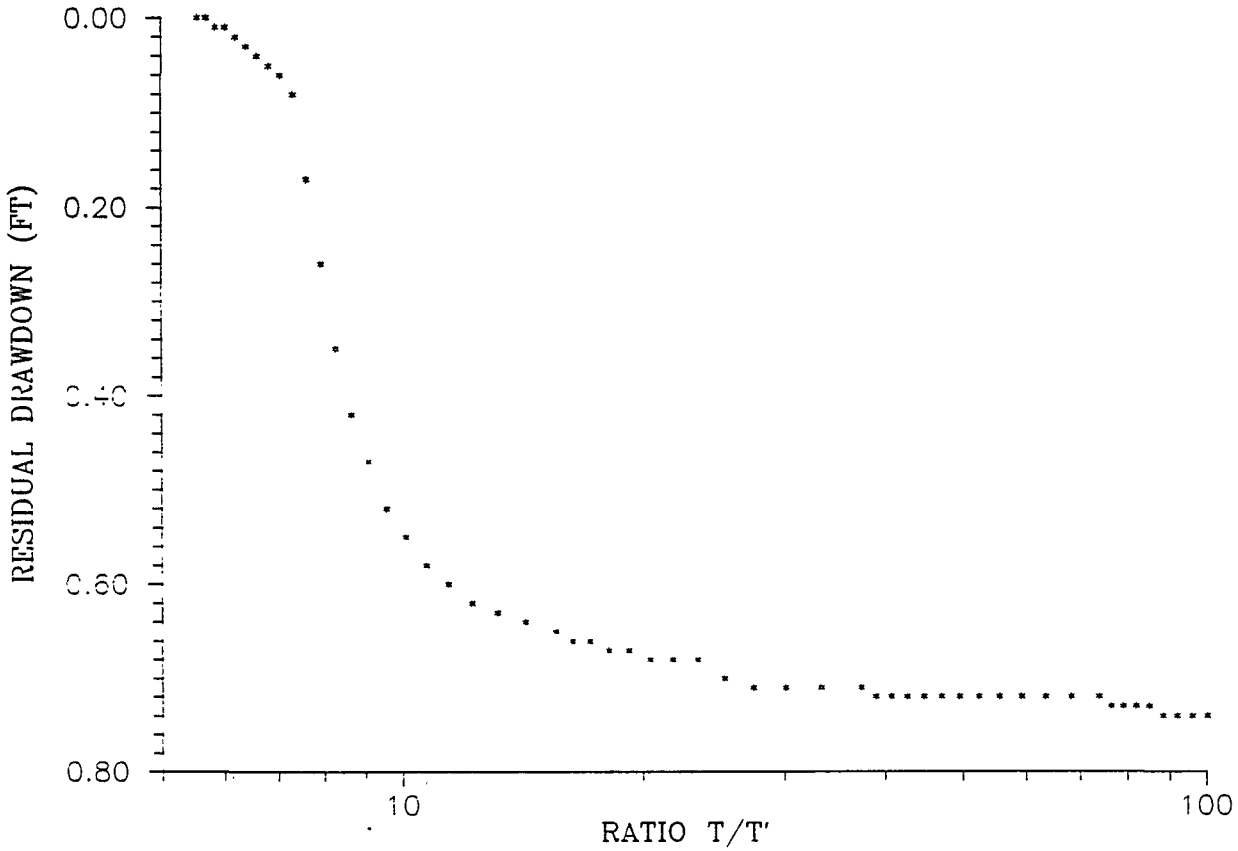
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



DRAWDOWN VS. TIME OBSERVATION WELL DM 5040B1

Figure F.10

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



RESIDUAL DRAWDOWN VS. RATIO T/T' OBSERVATION WELL DM 5040B1

Figure F.11

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

G WATER ELEVATIONS

APPENDIX G

WATER LEVEL MEASUREMENTS

TABLE OF CONTENTS

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APPENDIX G

WATER LEVEL MEASUREMENTS

G.1.0 INTRODUCTION

Water level measurements have been collected from wells at the Motorola 52nd St. site by Motorola contractors since 1982; water levels from other sources have been obtained since 1936. This appendix presents a listing of all water level measurements (Table G1) and includes a discussion of the wells from which water levels have been measured, the methods of measurement, and water level trends.

G.2.0 MEASURED WELLS

There are currently 90 wells with water level measurements at the Motorola site, including over 80 monitor wells installed as part of the ground-water investigation and several private wells. The different types of wells used for water level measurements are summarized in the following sections. A more complete discussion of the wells is presented in the Draft Sample Collection and Analysis Plan, Final Remedy RI/FS (Dames & Moore, 1990).

G.2.1 MONITOR WELLS

The monitor well network used for ground-water investigations at the Motorola 52nd St. site is described in Chapter 3.0 and Appendix C1. Motorola monitor wells include single point wells, nested multi-point wells, Westbay™ multi-port wells, and conventional wells. Monitor well locations are indicated on Figures 3.1 and C1.1. Construction data for monitor wells are presented in Table C1.2.

G.2.2 PRIVATE WELLS

Water level measurements have been obtained from eight privately-owned wells in the vicinity of the Motorola plant. Private well locations are shown on Figure C1 and described in Appendix C. Private wells include an SRP well located at 40th Street and Van Buren, a well owned by the Arizona State Land Department at 40th Street and the East Papago Freeway, three wells at the Arizona National Guard at 52nd Street and McDowell, and three wells owned by private landowners.

G.3.0 METHODS OF MEASUREMENT

Water levels were measured using either a chalked steel tape or a Solinst™ electric sounder. The steel tapes were graduated to 0.01 feet and typically measured 100 or 250 feet in length. The Solinst electric sounders were graduated to 0.02 feet and measured 250 feet in length. All measurements were taken from a designated, surveyed measuring point, either the top of the casing or a measuring point marked on the well casing.

G.4.0 DATA EVALUATION

G.4.1 WATER LEVEL DATA

Water level data are presented in Table G.1 and presented graphically in Figures 6.1 through 6.6 (Plan-view maps) and Figures G.7 through G.53. All wells with water level data are presented. For the Westbay and MP wells, water level measurements are given for each measurement port and screened interval, respectively. Wells are typically measured from one to several times per year immediately prior to collection of ground-water quality samples.

G.4.2 WATER LEVEL TRENDS

The ground-water flow pattern is discussed in Sections 3.3 and 6.2.2 and is illustrated in Figure G.5 and 3.4, a map of June 1991 ground-water elevations. As noted in Section 3.3, ground water in the vicinity of the Motorola 52nd St. Facility flows toward the southwest. In 1991, the ground-water hydraulic gradient ranged from approximately 0.011 east of the Grand Canal to approximately 0.005 west of the canal (Figure 3.4).

The ground-water flow direction and hydraulic gradient are illustrated in Figures G.1 through G.6; plots of ground-water elevations for selected measurement rounds between 1987 and 1991. Although all of the wells measured show fluctuations in water level elevations from year to year, the maps show little change in the overall ground-water flow direction and hydraulic gradient.

Water level trends in the vicinity of Motorola 52nd St. are more clearly illustrated by well hydrographs presented in Figures G.7 through G.53. Most of the hydrographs show water level declines from 1986 through 1991. Water level data from DM 118, DM 117, DM 118, DM 120, and DM 124 indicate an average water level decline of 7 feet from 9/86 through 6/91, a decline rate of approximately 1 foot per year for the 5-year period.

In addition to the overall declines, a number of wells registered an increased drop in water levels during the first six months of 1991. This decline ranged from approximately 3 feet in DM 115 and DM 118 to 5.6 feet in DM 124 and 7.6 feet in DM 503. The cause of the observed declines is not known. It should be noted that the water level in the Arizona State Land Department well at 40th Street and the East Papago Freeway declined approximately 16.6 feet between 11/89 and 10/90, but had risen approximately 11.5 feet by 7/91.

To summarize, water level declines averaging about 1 foot per year have occurred throughout the study area due to below average precipitation in the Phoenix area since about

1987. More rapid water level declines (exceeding 5 feet per year) have been noted in some wells during 1991. The cause of the more rapid declines is under investigation.

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
16.9E6N	10/01/48	1072.0
16.9E6N	03/01/49	1069.0
16.9E6N	10/01/49	1083.5
16.9E6N	03/01/50	1085.0
16.9E6N	04/01/50	1087.8
16.9E6N	10/01/50	1080.3
16.9E6N	10/01/51	1084.0
16.9E6N	02/01/52	1082.3
16.9E6N	10/01/52	1084.3
16.9E6N	03/01/53	1081.5
16.9E6N	11/01/53	1083.0
16.9E6N	02/01/55	1088.6
16.9E6N	11/01/55	1079.9
16.9E6N	11/01/56	1061.5
16.9E6N	11/01/57	1068.7
16.9E6N	01/01/60	1062.1
16.9E6N	04/01/62	1062.9
16.9E6N	01/01/66	1064.0
16.9E6N	01/01/73	1067.0
16.9E6N	04/01/73	1069.3
16.9E6N	01/01/74	1077.0
16.9E6N	01/01/75	1071.0
16.9E6N	01/01/77	1059.0
16.9E6N	01/01/79	1059.0
16.9E6N	01/01/81	1076.0
16.9E6N	01/01/83	1067.0
16.9E6N	01/01/84	1084.0
16.9E6N	01/09/85	1076.0
16.9E6N	01/22/86	1075.0
16.9E6N	02/11/87	1071.0
16.9E6N	12/30/87	1077.0
16.9E6N	01/10/89	1075.0
16.9E6N	02/22/90	1070.0
40&VB	11/01/36	1099.2
40&VB	12/01/37	1104.2
40&VB	01/01/39	1104.9
40&VB	10/01/39	1102.5
40&VB	12/01/40	1096.7
40&VB	03/01/41	1100.4
40&VB	03/01/42	1109.7
40&VB	01/01/43	1102.7
40&VB	12/01/43	1102.6
40&VB	12/01/45	1100.6
40&VB	12/01/46	1102.7
40&VB	12/01/47	1100.1
40&VB	10/01/48	1103.0
40&VB	03/01/49	1101.3
40&VB	10/01/49	1103.6
40&VB	03/01/50	1100.7
40&VB	10/01/50	1102.3
40&VB	03/01/51	1099.7
40&VB	10/01/51	1099.0
40&VB	02/01/52	1098.0
40&VB	10/01/52	1099.2
40&VB	03/01/53	1098.5
40&VB	11/01/53	1100.2
40&VB	03/01/54	1097.5
40&VB	10/01/54	1100.4
40&VB	02/01/55	1097.4
40&VB	12/01/55	1098.5
40&VB	11/01/56	1089.3
40&VB	11/01/57	1096.7
40&VB	02/01/60	1093.0
40&VB	01/01/66	1093.0

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
40&VB	04/01/66	1098.00
40&VB	01/01/73	1094.00
40&VB	04/01/73	1098.40
40&VB	01/01/74	1095.00
40&VB	01/01/77	1086.00
40&VB	01/01/79	1093.00
40&VB	12/01/79	1097.00
40&VB	01/01/81	1091.00
40&VB	01/01/82	1087.00
40&VB	01/01/83	1086.00
40&VB	01/01/84	1097.00
40&VB	01/18/85	1091.00
40&VB	01/08/86	1078.00
40&VB	01/20/87	1094.00
40&VB	12/30/87	1094.00
40&VB	01/23/89	1089.00
40&VB	02/22/90	1088.00
40&VB	12/21/90	1098.58
4626G	11/01/85	1172.57
4626G	12/02/85	1172.60
4626G	01/07/86	1172.08
4626G	03/04/86	1171.61
4626G	03/31/86	1170.90
4626G	06/04/86	1171.24
4626G	09/12/86	1172.19
4626G	05/28/87	1161.55
48&VB	09/13/85	1151.77
48&VB	12/02/85	1169.15
48&VB	03/03/86	1156.40
48&VB	03/31/86	1155.65
48&VB	06/04/86	1155.66
48&VB	09/09/86	1157.93
AZNGD	12/02/85	1220.20
AZNGD	01/07/86	1220.42
AZNGD	03/05/86	1220.14
AZNGD	03/05/86	1220.15
AZNGD	06/03/86	1219.19
AZNGD	09/12/86	1221.87
AZNGD_N	03/05/86	1222.92
AZNGD_N	06/03/86	1223.87
AZNGD_S	03/05/86	1223.11
AZNGD_S	06/03/86	1223.89
AZSLD	10/31/85	1113.36
AZSLD	12/02/85	1112.80
AZSLD	01/07/86	1112.52
AZSLD	03/03/86	1112.23
AZSLD	03/31/86	1112.09
AZSLD	06/04/86	1111.45
AZSLD	09/12/88	1110.52
AZSLD	01/09/89	1110.09
AZSLD	11/13/89	1108.54
AZSLD	10/24/90	1091.92
AZSLD	12/27/90	1092.60
AZSLD	12/27/90	1092.58
AZSLD	07/25/91	1103.40
DM101-025	01/31/85	1198.81
DM101-025	02/08/85	1198.81
DM101-025	03/16/85	1197.81
DM101-025	09/16/85	1200.20
DM101-025	03/07/86	1199.71
DM101-025	05/29/86	1200.84
DM101-025	09/21/88	1202.16
DM101-025	01/19/89	1200.41
DM101-025	10/31/90	1195.41

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM101-045	01/31/85	1200.31
DM101-045	02/08/85	1200.31
DM101-045	03/16/85	1199.51
DM101-045	09/16/85	1200.13
DM101-045	03/07/86	1199.71
DM101-045	05/29/86	1200.33
DM101-045	11/20/87	1200.75
DM101-045	09/21/88	1200.22
DM101-045	01/19/89	1199.74
DM101-045	11/30/89	1198.63
DM101-045	10/31/90	1196.27
DM101-045	06/24/91	1194.08
DM101-055	01/31/85	1200.51
DM101-055	02/08/85	1200.51
DM101-055	03/16/85	1199.51
DM101-055	09/16/85	1199.78
DM101-055	11/11/85	1200.13
DM101-055	03/07/86	1200.71
DM101-055	05/29/86	1201.11
DM101-055	11/20/87	1200.67
DM101-055	09/21/88	1200.55
DM101-055	01/19/89	1199.76
DM101-055	11/30/89	1198.64
DM101-055	10/31/90	1196.26
DM101-055	06/24/91	1193.85
DM101-070	01/31/85	1200.21
DM101-070	02/08/85	1200.71
DM101-070	03/16/85	1201.11
DM101-070	09/16/85	1200.68
DM101-070	11/11/85	1201.17
DM101-070	03/07/86	1202.11
DM101-070	05/29/86	1202.65
DM101-070	11/20/87	1200.70
DM101-070	09/21/88	1200.47
DM101-070	01/19/89	1199.79
DM101-070	11/30/89	1198.68
DM101-070	10/31/90	1196.27
DM101-070	06/24/91	1193.87
DM101-094	01/31/85	1198.91
DM101-094	02/08/85	1198.91
DM101-094	03/16/85	1198.51
DM101-094	09/16/85	1197.76
DM101-094	11/11/85	1195.87
DM101-094	03/07/86	1198.01
DM101-094	05/29/86	1197.74
DM101-094	11/20/87	1200.73
DM101-094	09/21/88	1200.46
DM101-094	01/19/89	1199.87
DM101-094	11/30/89	1208.44
DM101-094	10/31/90	1196.26
DM101-094	06/24/91	1193.81
DM101-102	01/31/85	1199.01
DM101-102	02/08/85	1199.01
DM101-102	03/16/85	1198.21
DM101-102	09/16/85	1197.94
DM101-102	11/11/85	1195.76
DM101-102	03/07/86	1198.11
DM101-102	05/29/86	1197.85
DM101-102	11/20/87	1196.47
DM101-102	09/21/88	1200.49
DM101-102	01/19/89	1199.90
DM101-102	11/30/89	1198.78
DM101-102	10/31/90	1196.39
DM101-102	06/24/91	1193.80

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM101-114	01/31/85	1198.71
DM101-114	02/08/85	1199.01
DM101-114	03/16/85	1198.71
DM101-114	09/16/85	1197.73
DM101-114	11/11/85	1195.78
DM101-114	03/07/86	1198.11
DM101-114	05/29/86	1197.73
DM101-114	11/20/87	1201.64
DM101-114	09/21/88	1200.76
DM101-114	01/19/89	1199.95
DM101-114	11/30/89	1199.40
DM101-114	10/31/90	1196.66
DM101-114	06/24/91	1193.84
DM101-130	01/31/85	1198.41
DM101-130	02/08/85	1198.21
DM101-130	03/16/85	1198.71
DM101-130	09/16/85	1197.96
DM101-130	11/11/85	1195.39
DM101-130	03/07/86	1198.11
DM101-130	05/29/86	1197.99
DM101-130	09/21/88	1200.93
DM101-130	01/19/89	1200.21
DM101-130	11/30/89	1198.96
DM101-130	10/31/90	1196.74
DM101-130	06/24/91	1193.87
DM101-140	01/31/85	1199.31
DM101-140	02/08/85	1198.41
DM101-140	03/16/85	1198.81
DM101-140	09/16/85	1197.74
DM101-140	11/11/85	1195.14
DM101-140	03/07/86	1198.21
DM101-140	05/29/86	1198.09
DM101-140	11/20/87	1200.62
DM101-140	09/21/88	1201.35
DM101-140	01/19/89	1200.60
DM101-140	11/30/89	1198.90
DM101-140	10/31/90	1197.21
DM101-140	06/24/91	1193.71
DM101B	09/09/86	1202.25
DM101B	09/13/88	1202.53
DM101B	01/11/89	1201.59
DM101B	11/15/89	1200.96
DM102-026	02/25/85	1192.72
DM102-026	03/17/85	1193.52
DM102-026	06/24/85	1190.18
DM102-026	06/25/85	1190.18
DM102-026	08/01/85	1190.46
DM102-026	08/06/85	1189.62
DM102-026	08/07/85	1188.85
DM102-026	03/12/86	1188.92
DM102-048	01/31/85	1192.92
DM102-048	02/09/85	1192.72
DM102-048	02/25/85	1192.72
DM102-048	03/17/85	1191.92
DM102-048	06/25/85	1190.53
DM102-048	08/01/85	1190.53
DM102-048	08/06/85	1189.07
DM102-048	08/07/85	1188.83
DM102-048	12/03/85	1189.89
DM102-048	03/12/86	1189.02
DM102-048	06/02/86	1189.10
DM102-048	06/03/86	1189.10
DM102-048	11/23/87	1186.52
DM102-065	01/31/85	1192.82

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM102-065	02/09/85	1192.72
DM102-065	02/25/85	1192.52
DM102-065	03/17/85	1192.12
DM102-065	06/25/85	1190.63
DM102-065	08/01/85	1190.56
DM102-065	08/06/85	1189.07
DM102-065	08/07/85	1188.83
DM102-065	12/03/85	1190.19
DM102-065	03/12/86	1188.72
DM102-065	06/02/86	1189.11
DM102-065	06/03/86	1189.11
DM102-065	11/23/87	1186.63
DM102-082	01/31/85	1192.87
DM102-082	02/09/85	1192.72
DM102-082	02/25/85	1192.72
DM102-082	03/17/85	1191.92
DM102-082	06/25/85	1190.32
DM102-082	08/01/85	1189.66
DM102-082	08/06/85	1189.58
DM102-082	08/07/85	1189.52
DM102-082	03/12/86	1188.92
DM102-082	06/02/86	1189.21
DM102-082	06/03/86	1189.21
DM102-082	11/23/87	1186.41
DM102-104	01/31/85	1192.58
DM102-104	02/09/85	1194.82
DM102-104	02/25/85	1192.72
DM102-104	03/17/85	1192.82
DM102-104	06/25/85	1190.23
DM102-104	08/01/85	1189.58
DM102-104	08/06/85	1189.07
DM102-104	08/07/85	1188.74
DM102-104	12/03/85	1190.59
DM102-104	03/12/86	1189.62
DM102-104	06/02/86	1187.92
DM102-104	06/03/86	1187.92
DM102-104	11/23/87	1186.38
DM102-119	01/31/85	1192.37
DM102-119	02/09/85	1192.72
DM102-119	02/25/85	1192.52
DM102-119	03/17/85	1192.12
DM102-119	06/25/85	1190.03
DM102-119	08/01/85	1188.62
DM102-119	08/06/85	1189.51
DM102-119	08/07/85	1189.39
DM102-119	12/03/85	1189.54
DM102-119	03/12/86	1189.22
DM102-119	06/02/86	1188.03
DM102-119	06/03/86	1188.03
DM102-119	11/23/87	1186.26
DM102-144	01/31/85	1192.31
DM102-144	02/09/85	1192.02
DM102-144	02/25/85	1192.52
DM102-144	03/17/85	1192.22
DM102-144	03/25/85	1192.62
DM102-144	06/25/85	1189.89
DM102-144	08/01/85	1188.84
DM102-144	08/06/85	1189.27
DM102-144	08/07/85	1189.55
DM102-144	12/03/85	1189.48
DM102-144	03/12/86	1189.32
DM102-144	06/03/86	1188.09
DM102-144	11/23/87	1186.26
DM102-159	01/31/85	1192.79

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM102-159	02/09/85	1193.02
DM102-159	02/25/85	1193.72
DM102-159	03/17/85	1192.42
DM102-159	03/25/85	1192.96
DM102-159	06/25/85	1190.14
DM102-159	08/01/85	1190.06
DM102-159	08/06/85	1188.86
DM102-159	08/07/85	1188.63
DM102-159	12/03/85	1189.68
DM102-159	03/12/86	1189.32
DM102-159	06/03/86	1188.03
DM102-159	11/23/87	1186.11
DM102-186	01/31/85	1192.59
DM102-186	02/09/85	1193.42
DM102-186	02/25/85	1193.92
DM102-186	03/17/85	1192.32
DM102-186	03/25/85	1193.28
DM102-186	06/25/85	1190.24
DM102-186	08/01/85	1190.17
DM102-186	08/06/85	1189.00
DM102-186	08/07/85	1188.75
DM102-186	12/03/85	1189.55
DM102-186	03/12/86	1189.22
DM102-186	06/03/86	1188.10
DM102-186	11/23/87	1186.22
DM102-191	01/31/85	1192.44
DM102-191	02/25/85	1193.72
DM102-191	03/17/85	1192.72
DM102-191	03/25/85	1193.04
DM102-191	06/25/85	1190.20
DM102-191	08/01/85	1190.05
DM102-191	08/06/85	1188.89
DM102-191	08/07/85	1188.68
DM102-191	12/03/85	1189.27
DM102-191	03/12/86	1188.32
DM102-191	06/03/86	1187.89
DM102-191	11/23/87	1187.14
DM102-213	01/31/85	1192.38
DM102-213	02/09/85	1192.72
DM102-213	02/25/85	1194.12
DM102-213	03/16/85	1194.22
DM102-213	03/17/85	1193.52
DM102-213	03/25/85	1193.31
DM102-213	06/25/85	1190.41
DM102-213	08/01/85	1189.90
DM102-213	08/06/85	1189.01
DM102-213	08/07/85	1188.89
DM102-213	12/03/85	1192.02
DM102-213	03/12/86	1188.12
DM102-213	06/03/86	1188.03
DM102-213	11/23/87	1186.13
DM102-233	01/31/85	1191.56
DM102-233	02/09/85	1192.02
DM102-233	02/25/85	1192.32
DM102-233	03/16/85	1192.92
DM102-233	03/17/85	1193.22
DM102-233	03/25/85	1193.38
DM102-233	06/25/85	1189.64
DM102-233	08/01/85	1188.73
DM102-233	08/06/85	1189.49
DM102-233	12/03/85	1193.77
DM102-233	03/12/86	1188.32
DM102-233	06/03/86	1188.18
DM102-233	11/23/87	1187.10

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM102-253	01/31/85	1192.58
DM102-253	02/09/85	1192.32
DM102-253	02/25/85	1193.72
DM102-253	03/16/85	1192.62
DM102-253	03/17/85	1193.42
DM102-253	03/25/85	1193.41
DM102-253	06/25/85	1191.43
DM102-253	08/01/85	1189.96
DM102-253	08/06/85	1188.96
DM102-253	08/07/85	1188.62
DM102-253	12/03/85	1191.04
DM102-253	03/12/86	1188.22
DM102-253	06/03/86	1188.20
DM102-253	11/23/87	1186.02
DM102-273	01/31/85	1191.52
DM102-273	02/09/85	1192.32
DM102-273	02/25/85	1193.72
DM102-273	03/16/85	1192.42
DM102-273	03/17/85	1192.92
DM102-273	03/25/85	1193.46
DM102-273	06/24/85	1189.97
DM102-273	06/25/85	1191.40
DM102-273	08/01/85	1189.50
DM102-273	08/06/85	1189.11
DM102-273	12/03/85	1190.66
DM102-273	03/12/86	1188.22
DM102-273	06/03/86	1188.13
DM102-273	11/23/87	1185.89
DM102-299	01/31/85	1191.16
DM102-299	02/09/85	1191.82
DM102-299	02/25/85	1192.02
DM102-299	03/16/85	1193.62
DM102-299	03/17/85	1193.72
DM102-299	03/25/85	1193.56
DM102-299	06/24/85	1190.05
DM102-299	08/01/85	1189.40
DM102-299	08/06/85	1189.00
DM102-299	12/03/85	1190.02
DM102-299	03/12/86	1188.12
DM102-299	06/03/86	1187.99
DM102-299	11/23/87	1186.12
DM102-319	01/31/85	1191.37
DM102-319	02/09/85	1192.32
DM102-319	02/25/85	1193.72
DM102-319	03/16/85	1193.52
DM102-319	03/17/85	1193.52
DM102-319	03/25/85	1193.61
DM102-319	06/24/85	1189.50
DM102-319	08/01/85	1189.09
DM102-319	08/06/85	1188.92
DM102-319	12/03/85	1189.50
DM102-319	03/12/86	1188.12
DM102-319	06/03/86	1187.98
DM102-319	11/23/87	1186.29
DM102-344	01/31/85	1190.97
DM102-344	02/09/85	1191.82
DM102-344	02/25/85	1192.72
DM102-344	03/16/85	1193.22
DM102-344	03/25/85	1193.58
DM102-344	06/24/85	1189.58
DM102-344	08/01/85	1188.92
DM102-344	08/06/85	1189.05
DM102-344	03/12/86	1188.02
DM102-344	06/03/86	1189.77

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM102-344	11/23/87	1185.96
DM102-354	01/31/85	1190.91
DM102-354	02/09/85	1191.82
DM102-354	02/25/85	1193.22
DM102-354	03/16/85	1193.62
DM102-354	03/25/85	1193.56
DM102-354	06/24/85	1189.59
DM102-354	08/01/85	1188.82
DM102-354	08/06/85	1189.11
DM102-354	12/03/85	1189.72
DM102-354	03/12/86	1187.92
DM102-354	06/03/86	1187.65
DM102-354	11/23/87	1185.86
DM102-377	01/31/85	1191.13
DM102-377	02/09/85	1192.32
DM102-377	02/25/85	1193.92
DM102-377	03/16/85	1194.02
DM102-377	03/25/85	1193.80
DM102-377	06/24/85	1191.32
DM102-377	08/01/85	1189.92
DM102-377	08/06/85	1189.35
DM102-377	08/07/85	1189.83
DM102-377	12/03/85	1203.57
DM102-377	03/12/86	1188.32
DM102-377	06/03/86	1189.35
DM102-377	11/23/87	1184.67
DM102-389	01/31/85	1190.40
DM102-389	02/09/85	1191.82
DM102-389	02/25/85	1193.22
DM102-389	03/16/85	1194.72
DM102-389	03/25/85	1194.02
DM102-389	06/24/85	1191.99
DM102-389	08/01/85	1190.12
DM102-389	08/06/85	1189.42
DM102-389	08/07/85	1190.37
DM102-389	03/12/86	1188.02
DM102-389	06/03/86	1189.69
DM102-389	11/23/87	1183.90
DM102-404	01/31/85	1189.53
DM102-404	02/09/85	1191.72
DM102-404	02/25/85	1191.82
DM102-404	03/16/85	1193.32
DM102-404	03/25/85	1193.25
DM102-404	06/24/85	1188.84
DM102-404	08/01/85	1188.22
DM102-404	08/06/85	1188.17
DM102-404	12/03/85	1192.50
DM102-404	03/12/86	1188.52
DM102-404	06/03/86	1188.51
DM102-404	11/23/87	1183.83
DM102-427	01/31/85	1189.51
DM102-427	02/09/85	1190.72
DM102-427	02/25/85	1192.02
DM102-427	03/16/85	1193.02
DM102-427	03/25/85	1193.44
DM102-427	06/24/85	1192.30
DM102-427	08/01/85	1190.42
DM102-427	08/06/85	1190.11
DM102-427	12/03/85	1194.74
DM102-427	03/12/86	1189.52
DM102-427	06/03/86	1189.56
DM102-427	11/23/87	1184.25
DM102-454	01/31/85	1190.02
DM102-454	02/09/85	1191.12

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM102-454	02/25/85	1192.72
DM102-454	03/16/85	1193.82
DM102-454	03/25/85	1194.44
DM102-454	06/24/85	1193.41
DM102-454	08/01/85	1191.32
DM102-454	08/06/85	1190.79
DM102-454	12/03/85	1192.34
DM102-454	03/12/86	1189.22
DM102-454	06/03/86	1189.77
DM102-454	11/23/87	1184.17
DM102-469	01/31/85	1189.56
DM102-469	02/09/85	1190.42
DM102-469	02/25/85	1190.92
DM102-469	03/16/85	1193.72
DM102-469	03/25/85	1194.02
DM102-469	06/24/85	1190.93
DM102-469	08/01/85	1190.22
DM102-469	08/06/85	1190.88
DM102-469	12/03/85	1190.72
DM102-469	03/12/86	1188.02
DM102-469	06/03/86	1190.01
DM102-469	11/23/87	1184.10
DM102-489	01/31/85	1188.73
DM102-489	02/09/85	1190.72
DM102-489	02/25/85	1190.72
DM102-489	03/16/85	1193.42
DM102-489	03/25/85	1191.69
DM102-489	06/24/85	1188.32
DM102-489	08/01/85	1187.92
DM102-489	08/06/85	1188.54
DM102-489	08/07/85	1188.27
DM102-489	12/03/85	1188.42
DM102-489	03/12/86	1187.92
DM102-489	06/03/86	1188.42
DM102-489	11/23/87	1184.83
DM103-032	03/17/85	1168.91
DM103-032	10/30/85	1169.15
DM103-032	03/06/86	1166.91
DM103-032	06/02/86	1166.74
DM103-032	11/20/87	1167.73
DM103-032	01/20/89	1156.58
DM103-032	11/13/90	1163.89
DM103-047	03/17/85	1168.81
DM103-047	06/26/85	1167.71
DM103-047	10/30/85	1168.73
DM103-047	03/06/86	1166.91
DM103-047	06/02/86	1166.66
DM103-047	11/20/87	1166.42
DM103-047	01/20/89	1165.07
DM103-047	12/04/89	1165.09
DM103-047	11/13/90	1164.02
DM103-064	03/17/85	1169.11
DM103-064	06/26/85	1168.17
DM103-064	10/30/85	1169.00
DM103-064	10/31/85	1168.66
DM103-064	03/06/86	1167.21
DM103-064	06/02/86	1167.17
DM103-064	11/20/87	1165.84
DM103-064	01/20/89	1165.13
DM103-064	12/04/89	1165.28
DM103-064	11/13/90	1163.88
DM103-079	03/17/85	1169.31
DM103-079	06/26/85	1168.30
DM103-079	10/30/85	1169.48

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM103-079	10/31/85	1168.94
DM103-079	03/06/86	1167.41
DM103-079	06/02/86	1167.20
DM103-079	11/20/87	1166.82
DM103-079	01/20/89	1164.90
DM103-079	12/04/89	1165.21
DM103-079	11/13/90	1164.28
DM103-103	03/17/85	1168.91
DM103-103	06/26/85	1167.92
DM103-103	10/30/85	1168.49
DM103-103	10/31/85	1168.44
DM103-103	03/06/86	1166.71
DM103-103	06/02/86	1166.55
DM103-103	11/20/87	1166.08
DM103-103	09/26/88	1165.33
DM103-103	01/20/89	1165.12
DM103-103	12/04/89	1165.22
DM103-103	11/13/90	1165.01
DM103-123	03/17/85	1168.61
DM103-123	06/26/85	1167.52
DM103-123	10/30/85	1168.30
DM103-123	10/31/85	1168.57
DM103-123	03/06/86	1166.51
DM103-123	06/02/86	1166.42
DM103-123	11/20/87	1165.96
DM103-123	09/26/88	1165.24
DM103-123	01/20/89	1165.44
DM103-123	12/04/89	1165.26
DM103-123	11/13/90	1165.15
DM103-148	03/17/85	1168.11
DM103-148	06/26/85	1166.87
DM103-148	10/30/85	1167.55
DM103-148	10/31/85	1167.70
DM103-148	03/06/86	1165.91
DM103-148	06/02/86	1165.76
DM103-148	11/20/87	1165.24
DM103-148	09/26/88	1164.83
DM103-148	01/20/89	1165.34
DM103-148	12/04/89	1165.31
DM103-148	11/13/90	1165.17
DM103-163	03/17/85	1168.31
DM103-163	06/26/85	1166.80
DM103-163	10/30/85	1167.63
DM103-163	10/31/85	1167.71
DM103-163	03/06/86	1165.81
DM103-163	06/02/86	1165.69
DM103-163	11/20/87	1165.70
DM103-163	09/26/88	1164.80
DM103-163	01/20/89	1165.38
DM103-163	12/04/89	1165.28
DM103-163	11/13/90	1165.12
DM103-178	03/17/85	1168.31
DM103-178	06/26/85	1166.72
DM103-178	10/30/85	1166.51
DM103-178	10/31/85	1167.62
DM103-178	03/06/86	1165.81
DM103-178	06/02/86	1165.68
DM103-178	11/20/87	1165.16
DM103-178	09/26/88	1164.79
DM103-178	01/20/89	1165.38
DM103-178	12/04/89	1165.27
DM103-178	11/13/90	1165.08
DM103-203	03/17/85	1168.21
DM103-203	06/26/85	1166.48

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM103-203	10/30/85	1167.21
DM103-203	10/31/85	1167.21
DM103-203	03/06/86	1165.51
DM103-203	06/02/86	1164.88
DM103-203	11/20/87	1164.79
DM103-203	09/26/88	1164.71
DM103-203	01/20/89	1165.41
DM103-203	12/04/89	1164.25
DM103-203	11/13/90	1165.15
DM103-223	03/17/85	1168.21
DM103-223	06/26/85	1166.39
DM103-223	10/30/85	1167.09
DM103-223	10/31/85	1167.23
DM103-223	03/06/86	1165.31
DM103-223	06/02/86	1165.22
DM103-223	11/20/87	1164.66
DM103-223	09/26/88	1164.10
DM103-223	01/20/89	1163.89
DM103-223	12/04/89	1165.21
DM103-223	11/13/90	1165.14
DM103-243	03/17/85	1168.31
DM103-243	06/26/85	1166.30
DM103-243	10/30/85	1167.03
DM103-243	10/31/85	1167.23
DM103-243	03/06/86	1165.31
DM103-243	06/02/86	1165.34
DM103-243	11/20/87	1164.63
DM103-243	09/26/88	1164.08
DM103-243	01/20/89	1163.94
DM103-243	12/04/89	1165.16
DM103-243	11/13/90	1165.14
DM103-269	03/17/85	1168.51
DM103-269	06/26/85	1166.31
DM103-269	10/30/85	1167.05
DM103-269	10/31/85	1167.14
DM103-269	03/06/86	1165.31
DM103-269	06/03/86	1165.20
DM103-269	11/20/87	1164.20
DM103-269	09/26/88	1164.10
DM103-269	01/20/89	1163.96
DM103-269	12/04/89	1165.13
DM103-269	11/13/90	1165.14
DM103-289	03/17/85	1168.51
DM103-289	06/26/85	1166.10
DM103-289	10/30/85	1166.94
DM103-289	10/31/85	1167.08
DM103-289	03/06/86	1165.21
DM103-289	06/02/86	1165.05
DM103-289	11/20/87	1164.53
DM103-289	09/26/88	1164.10
DM103-289	01/20/89	1163.96
DM103-289	12/04/89	1165.08
DM103-289	11/13/90	1165.16
DM103-304	03/17/85	1168.61
DM103-304	06/26/85	1166.06
DM103-304	10/30/85	1166.87
DM103-304	10/31/85	1167.01
DM103-304	11/07/85	1165.84
DM103-304	03/06/86	1165.21
DM103-304	06/03/86	1165.05
DM103-304	11/20/87	1164.56
DM103-304	09/26/88	1164.04
DM103-304	01/20/89	1163.93
DM103-304	12/04/89	1165.08

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM103-304	11/13/90	1165.12
DM103-324	03/17/85	1167.61
DM103-324	06/26/85	1165.26
DM103-324	10/30/85	1166.01
DM103-324	10/31/85	1166.31
DM103-324	11/07/85	1165.53
DM103-324	03/06/86	1164.71
DM103-324	06/02/86	1164.54
DM103-324	11/20/87	1164.56
DM103-324	09/26/88	1164.03
DM103-324	01/20/89	1163.93
DM103-324	12/04/89	1164.99
DM103-324	11/13/90	1165.14
DM103-344	03/17/85	1166.51
DM103-344	06/26/85	1163.69
DM103-344	10/30/85	1164.55
DM103-344	10/31/85	1164.54
DM103-344	11/07/85	1164.48
DM103-344	03/06/86	1163.11
DM103-344	06/02/86	1162.74
DM103-344	11/20/87	1164.58
DM103-344	09/26/88	1164.10
DM103-344	01/20/89	1163.95
DM103-344	12/04/89	1165.03
DM103-344	11/13/90	1165.11
DM103-364	03/17/85	1166.21
DM103-364	06/26/85	1163.38
DM103-364	10/30/85	1164.29
DM103-364	10/31/85	1164.46
DM103-364	11/07/85	1166.02
DM103-364	03/06/86	1162.81
DM103-364	06/02/86	1162.76
DM103-364	11/20/87	1164.53
DM103-364	09/26/88	1164.03
DM103-364	01/20/89	1163.88
DM103-364	12/04/89	1165.02
DM103-364	11/13/90	1165.10
DM103-389	03/17/85	1166.01
DM103-389	06/26/85	1163.07
DM103-389	10/30/85	1164.13
DM103-389	10/31/85	1165.47
DM103-389	11/07/85	1163.76
DM103-389	03/06/86	1162.41
DM103-389	06/02/86	1162.49
DM103-389	11/20/87	1164.56
DM103-389	01/20/89	1163.89
DM103-389	12/04/89	1165.20
DM103-389	11/13/90	1165.10
DM104-040	03/20/85	1141.35
DM104-040	05/13/85	1127.94
DM104-040	06/27/85	1128.52
DM104-040	10/03/85	1128.47
DM104-040	10/08/85	1130.34
DM104-040	03/05/86	1126.65
DM104-040	06/02/86	1127.04
DM104-040	11/20/87	1125.32
DM104-040	09/20/88	1125.97
DM104-052	03/20/85	1127.75
DM104-052	05/13/85	1127.82
DM104-052	06/27/85	1128.57
DM104-052	10/03/85	1128.31
DM104-052	10/08/85	1128.38
DM104-052	03/05/86	1126.65
DM104-052	06/02/86	1127.04

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM104-052	11/20/87	1125.35
DM104-052	09/20/88	1125.90
DM104-079	03/20/85	1127.95
DM104-079	05/13/85	1127.93
DM104-079	06/27/85	1128.66
DM104-079	10/03/85	1128.48
DM104-079	10/08/85	1128.50
DM104-079	03/05/86	1126.85
DM104-079	06/02/86	1127.26
DM104-079	11/20/87	1125.46
DM104-079	09/20/88	1126.00
DM104-101	03/20/85	1128.05
DM104-101	05/13/85	1128.02
DM104-101	10/03/85	1128.40
DM104-101	10/08/85	1128.34
DM104-101	03/05/86	1126.75
DM104-101	06/02/86	1126.97
DM104-101	11/20/87	1125.37
DM104-101	09/20/88	1126.20
DM104-124	02/28/85	1128.05
DM104-124	03/20/85	1144.15
DM104-124	05/13/85	1130.33
DM104-124	06/27/85	1128.61
DM104-124	10/03/85	1128.46
DM104-124	03/05/86	1127.25
DM104-124	06/02/86	1129.58
DM104-124	09/20/88	1126.33
DM104-146	02/28/85	1127.95
DM104-146	03/20/85	1129.35
DM104-146	05/13/85	1129.35
DM104-146	06/27/85	1129.39
DM104-146	10/03/85	1129.29
DM104-146	10/08/85	1129.33
DM104-146	03/05/86	1127.65
DM104-146	06/02/86	1127.99
DM104-146	11/20/87	1129.20
DM104-146	09/20/88	1130.38
DM104-158	02/28/85	1127.95
DM104-158	03/20/85	1129.35
DM104-158	05/13/85	1129.46
DM104-158	06/27/85	1129.40
DM104-158	10/03/85	1129.27
DM104-158	10/08/85	1129.34
DM104-158	03/05/86	1127.65
DM104-158	06/02/86	1128.01
DM104-158	11/20/87	1129.10
DM104-158	09/20/88	1130.15
DM104-175	02/28/85	1131.05
DM104-175	03/20/85	1134.25
DM104-175	05/13/85	1133.27
DM104-175	06/27/85	1133.02
DM104-175	10/03/85	1133.14
DM104-175	10/08/85	1133.13
DM104-175	03/05/86	1131.55
DM104-175	06/02/86	1131.86
DM104-175	11/20/87	1129.82
DM104-175	09/20/88	1131.09
DM104-191	02/28/85	1131.25
DM104-191	03/20/85	1127.85
DM104-191	05/13/85	1133.47
DM104-191	06/27/85	1133.09
DM104-191	10/03/85	1133.09
DM104-191	10/08/85	1133.13
DM104-191	03/05/86	1131.65

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM104-191	06/02/86	1131.94
DM104-191	11/20/87	1129.82
DM104-191	09/20/88	1131.04
DM104-221	02/28/85	1131.25
DM104-221	03/20/85	1131.55
DM104-221	05/13/85	1133.82
DM104-221	06/27/85	1133.22
DM104-221	10/03/85	1133.30
DM104-221	10/08/85	1133.34
DM104-221	03/05/86	1131.85
DM104-221	06/02/86	1132.14
DM104-221	11/20/87	1129.42
DM104-221	09/20/88	1131.10
DM104-241	02/28/85	1131.65
DM104-241	03/20/85	1132.25
DM104-241	05/13/85	1134.17
DM104-241	06/27/85	1133.45
DM104-241	10/03/85	1131.57
DM104-241	10/08/85	1133.60
DM104-241	03/05/86	1132.05
DM104-241	06/02/86	1132.30
DM104-241	09/20/88	1131.04
DM104-261	02/28/85	1131.45
DM104-261	03/20/85	1132.45
DM104-261	05/13/85	1134.36
DM104-261	06/27/85	1133.46
DM104-261	10/03/85	1133.57
DM104-261	10/08/85	1133.89
DM104-261	03/05/86	1132.15
DM104-261	06/02/86	1132.31
DM104-261	11/20/87	1129.70
DM104-261	09/20/88	1133.05
DM104-281	02/28/85	1131.15
DM104-281	03/20/85	1132.75
DM104-281	05/13/85	1134.53
DM104-281	06/27/85	1133.50
DM104-281	10/03/85	1133.57
DM104-281	10/08/85	1133.60
DM104-281	03/05/86	1132.05
DM104-281	06/02/86	1132.31
DM104-281	11/20/87	1129.87
DM104-281	09/20/88	1131.09
DM104-293	02/28/85	1131.65
DM104-293	03/20/85	1132.75
DM104-293	05/13/85	1134.56
DM104-293	06/27/85	1132.24
DM104-293	10/03/85	1134.03
DM104-293	10/08/85	1133.57
DM104-293	03/05/86	1132.25
DM104-293	06/02/86	1132.28
DM104-293	11/20/87	1129.82
DM104-293	09/20/88	1132.14
DM106-040	05/02/85	1147.29
DM106-040	06/28/85	1147.81
DM106-040	12/10/85	1147.95
DM106-040	03/27/86	1147.55
DM106-040	06/04/86	1147.05
DM106-040	01/20/89	1146.70
DM106-040	11/29/89	1146.38
DM106-062	05/02/85	1147.12
DM106-062	06/28/85	1147.82
DM106-062	12/10/85	1147.85
DM106-062	03/27/86	1147.55
DM106-062	06/04/86	1147.02

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM106-062	01/20/89	1146.68
DM106-062	11/29/89	1146.37
DM106-079	05/02/85	1147.14
DM106-079	06/28/85	1147.82
DM106-079	12/10/85	1147.95
DM106-079	03/27/86	1147.65
DM106-079	06/04/86	1146.73
DM106-079	01/20/89	1146.65
DM106-079	11/29/89	1146.14
DM106-101	05/02/85	1147.36
DM106-101	06/28/85	1147.69
DM106-101	12/10/85	1147.75
DM106-101	03/27/86	1147.45
DM106-101	06/04/86	1146.91
DM106-101	11/23/87	1145.26
DM106-118	05/02/85	1147.46
DM106-118	06/28/85	1147.62
DM106-118	12/10/85	1147.75
DM106-118	03/27/86	1147.35
DM106-118	06/04/86	1146.81
DM106-118	11/23/87	1145.10
DM106-140	05/02/85	1147.63
DM106-140	06/28/85	1147.58
DM106-140	12/10/85	1147.75
DM106-140	03/27/86	1147.35
DM106-140	06/04/86	1146.70
DM106-140	11/23/87	1147.97
DM106-160	05/02/85	1147.82
DM106-160	06/28/85	1147.78
DM106-160	12/10/85	1147.95
DM106-160	03/27/86	1147.45
DM106-160	06/04/86	1146.96
DM106-160	11/23/87	1145.24
DM106-180	05/02/85	1147.94
DM106-180	06/28/85	1147.82
DM106-180	12/10/85	1147.95
DM106-180	03/27/86	1147.45
DM106-180	06/04/86	1146.97
DM106-180	11/23/87	1145.22
DM106-205	05/02/85	1148.15
DM106-205	06/28/85	1147.74
DM106-205	12/10/85	1147.95
DM106-205	03/27/86	1147.45
DM106-205	06/04/86	1146.99
DM106-205	11/23/87	1145.27
DM106-231	05/02/85	1148.32
DM106-231	06/28/85	1147.75
DM106-231	12/10/85	1147.85
DM106-231	03/27/86	1147.35
DM106-231	06/04/86	1146.95
DM106-231	11/23/87	1145.25
DM106-252	05/02/85	1148.48
DM106-252	06/28/85	1147.75
DM106-252	12/10/85	1147.95
DM106-252	03/27/86	1147.45
DM106-252	06/04/86	1147.00
DM106-252	11/23/87	1145.12
DM106-267	05/02/85	1148.47
DM106-267	06/28/85	1147.70
DM106-267	12/10/85	1148.35
DM106-267	03/27/86	1147.35
DM106-267	06/04/86	1146.95
DM106-267	11/23/87	1145.16
DM106-292	05/02/85	1148.69

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM106-292	06/28/85	1147.70
DM106-292	12/10/85	1147.95
DM106-292	03/27/86	1147.45
DM106-292	06/04/86	1146.94
DM106-292	11/23/87	1145.12
DM106-312	05/02/85	1149.02
DM106-312	06/28/85	1147.89
DM106-312	12/10/85	1147.95
DM106-312	03/27/86	1147.45
DM106-312	06/04/86	1146.95
DM106-312	11/23/87	1144.77
DM106-332	05/02/85	1149.30
DM106-332	06/28/85	1148.20
DM106-332	12/10/85	1148.45
DM106-332	03/27/86	1148.25
DM106-332	06/04/86	1147.35
DM106-332	11/23/87	1146.31
DM106-347	05/02/85	1149.37
DM106-347	06/28/85	1148.24
DM106-347	12/10/85	1148.45
DM106-357	05/02/85	1149.25
DM107	03/04/86	1180.77
DM107	06/02/86	1179.22
DM107	09/09/86	1180.80
DM107	05/27/87	1177.81
DM107	11/20/87	1177.43
DM107	09/13/88	1176.63
DM107	01/10/89	1178.21
DM107	11/14/89	1175.11
DM107	10/24/90	1179.63
DM107	01/07/91	1179.33
DM107	02/06/91	1177.48
DM107	07/01/91	1175.24
DM107	07/03/91	1175.28
DM111	03/03/86	1184.42
DM111	03/31/86	1184.46
DM111	06/02/86	1184.22
DM111	09/09/86	1184.88
DM111	05/28/87	1183.34
DM111	11/23/87	1184.09
DM111	09/13/88	1184.45
DM111	01/11/89	1183.15
DM111	11/14/89	1183.75
DM111	10/24/90	1184.49
DM111	01/08/91	1182.19
DM111	07/03/91	1181.60
DM111	09/11/91	1181.22
DM111	11/18/91	1182.42
DM112	03/04/86	1173.80
DM112	03/31/86	1175.35
DM112	06/02/86	1175.34
DM112	09/09/86	1176.80
DM112	09/12/88	1175.07
DM112	01/10/89	1174.04
DM112	11/13/89	1174.34
DM112	06/25/90	1174.08
DM112	10/24/90	1173.43
DM112	01/08/91	1173.96
DM113	03/03/86	1184.10
DM113	03/31/86	1184.08
DM113	06/02/86	1183.76
DM113	09/09/86	1184.85
DM113	05/28/87	1183.13
DM113	11/20/87	1183.77

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM113	09/13/88	1183.41
DM113	01/11/89	1183.17
DM113	11/14/89	1182.98
DM113	04/11/90	1183.78
DM114	03/03/86	1188.58
DM114	03/31/86	1188.57
DM114	06/02/86	1188.22
DM114	09/09/86	1188.68
DM114	09/13/88	1187.67
DM114	01/11/89	1186.61
DM114	11/14/89	1185.98
DM114	10/24/90	1185.72
DM114	01/02/91	1185.00
DM115	03/03/86	1154.44
DM115	03/31/86	1154.30
DM115	06/02/86	1153.68
DM115	09/09/86	1154.06
DM115	05/28/87	1152.44
DM115	11/20/87	1152.16
DM115	09/12/88	1151.25
DM115	01/10/89	1151.62
DM115	11/13/89	1149.55
DM115	10/24/90	1150.39
DM115	01/08/91	1149.23
DM115	07/03/91	1146.38
DM115	09/11/91	1145.48
DM115	11/18/91	1145.20
DM117	06/02/86	1183.88
DM117	09/09/86	1184.82
DM117	05/27/87	1182.85
DM117	11/25/87	1183.35
DM117	09/12/88	1183.37
DM117	01/10/89	1182.92
DM117	11/14/89	1184.24
DM117	10/24/90	1183.02
DM117	01/08/91	1181.28
DM117	07/02/91	1180.50
DM117	07/03/91	1180.49
DM117	09/11/91	1180.02
DM117	11/18/91	1180.22
DM118	09/09/86	1149.46
DM118	09/14/88	1148.67
DM118	10/24/90	1147.02
DM118	12/27/90	1145.72
DM118	06/27/91	1142.85
DM118	07/03/91	1143.03
DM118	07/05/91	1142.96
DM119-072	09/08/86	1136.72
DM119-072	11/19/87	1136.48
DM119-072	09/21/88	1135.77
DM119-072	01/16/89	1134.16
DM119-072	11/21/89	1135.32
DM119-072	11/02/90	1128.23
DM119-072	11/07/90	1136.13
DM119-098	09/08/86	1136.79
DM119-098	11/19/87	1136.59
DM119-098	09/21/88	1135.87
DM119-098	01/16/89	1135.91
DM119-098	11/21/89	1135.40
DM119-098	11/02/90	1130.76
DM119-098	11/07/90	1136.23
DM119-137	09/08/86	1136.96
DM119-137	11/19/87	1136.61
DM119-137	09/21/88	1136.06

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM119-137	01/16/89	1136.18
DM119-137	11/21/89	1135.52
DM119-137	11/02/90	1133.31
DM119-137	11/07/90	1136.35
DM119-179	09/08/86	1137.66
DM119-179	11/19/87	1137.68
DM119-179	09/21/88	1136.80
DM119-179	01/16/89	1137.16
DM119-179	11/21/89	1142.35
DM119-179	11/02/90	1140.52
DM119-179	11/07/90	1137.30
DM119-204	09/08/86	1139.21
DM119-204	11/19/87	1138.70
DM119-204	09/21/88	1137.88
DM119-204	01/16/89	1137.85
DM119-204	11/21/89	1142.39
DM119-204	11/02/90	1139.33
DM119-204	11/07/90	1137.28
DM119-229	09/08/86	1144.21
DM119-229	11/19/87	1143.69
DM119-229	09/21/88	1143.14
DM119-229	01/16/89	1143.59
DM119-229	11/21/89	1142.35
DM119-229	11/02/90	1140.38
DM119-229	11/07/90	1137.22
DM119-244	09/08/86	1144.28
DM119-244	11/19/87	1134.48
DM119-244	09/21/88	1143.14
DM119-244	01/16/89	1143.57
DM119-244	11/21/89	1142.34
DM119-244	11/02/90	1140.51
DM119-244	11/07/90	1137.30
DM119-269	09/08/86	1144.28
DM119-269	11/19/87	1143.69
DM119-269	09/21/88	1143.13
DM119-269	11/21/89	1142.28
DM119-269	11/07/90	1137.32
DM119-284	09/08/86	1144.35
DM119-284	11/19/87	1143.71
DM119-284	09/21/88	1143.19
DM119-284	01/16/89	1143.63
DM119-284	11/21/89	1142.34
DM119-284	11/02/90	1140.50
DM119-284	11/07/90	1137.15
DM120	09/09/86	1122.97
DM120	05/27/87	1120.93
DM120	11/27/87	1122.30
DM120	09/12/88	1120.70
DM120	01/09/89	1119.89
DM120	11/13/89	1118.65
DM120	10/24/90	1116.89
DM120	01/08/91	1116.00
DM120	06/28/91	1113.39
DM120	07/03/91	1113.86
DM120	07/17/91	1110.44
DM121-043	08/25/86	1114.02
DM121-043	09/05/86	1114.25
DM121-043	11/19/87	1114.27
DM121-043	09/23/88	1112.79
DM121-043	01/20/89	1073.07
DM121-084	08/25/86	1112.80
DM121-084	09/05/86	1113.96
DM121-084	11/19/87	1111.61
DM121-084	09/23/88	1112.59

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM121-084	01/20/89	1112.51
DM121-125	08/25/86	1112.78
DM121-125	09/05/86	1114.49
DM121-125	11/19/87	1113.27
DM121-125	09/23/88	1112.30
DM121-125	01/20/89	1112.63
DM121-149	08/25/86	1113.18
DM121-149	09/05/86	1114.48
DM121-149	11/19/87	1112.85
DM121-149	09/23/88	1112.85
DM121-149	01/20/89	1112.66
DM121-159	08/25/86	1113.08
DM121-159	09/05/86	1113.48
DM121-159	11/19/87	1112.95
DM121-159	09/23/88	1112.18
DM121-159	01/20/89	1112.66
DM121-184	08/25/86	1113.14
DM121-184	09/05/86	1107.99
DM121-184	11/19/87	1110.25
DM121-184	09/23/88	1110.38
DM121-184	01/20/89	1109.76
DM121-219	08/25/86	1113.72
DM121-219	09/05/86	1114.96
DM121-219	11/19/87	1114.63
DM121-219	09/23/88	1113.99
DM121-219	01/20/89	1114.56
DM121-249	08/25/86	1113.65
DM121-249	09/05/86	1104.13
DM121-249	11/19/87	1114.53
DM121-249	09/23/88	1112.94
DM121-249	01/20/89	1111.88
DM121-284	08/25/86	1116.35
DM121-284	09/05/86	1107.59
DM121-284	11/19/87	1111.73
DM121-284	09/23/88	1112.21
DM121-284	01/20/89	1112.10
DM122-A	09/09/86	1102.78
DM122-A	05/26/87	1102.41
DM122-A	11/23/87	1101.97
DM122-A	09/12/88	1099.98
DM122-A	01/09/89	1097.93
DM122-A	11/13/89	1095.16
DM122-A	10/24/90	1095.20
DM122-A	01/21/91	1092.86
DM122-A	06/27/91	1093.10
DM122-A	07/03/91	1094.29
DM122-B	09/09/86	1102.70
DM122-B	05/26/87	1102.83
DM122-B	11/23/87	1102.83
DM122-B	09/12/88	1102.01
DM122-B	01/09/89	1098.72
DM122-B	11/13/89	1095.88
DM122-B	01/21/91	1092.79
DM122-B	06/27/91	1093.90
DM122-B	07/03/91	1094.20
DM122-B	07/05/91	1094.25
DM123-056	08/28/86	1122.79
DM123-056	11/19/87	1123.44
DM123-085	08/28/86	1122.74
DM123-085	11/19/87	1123.28
DM123-105	08/28/86	1122.89
DM123-105	11/19/87	1121.26
DM123-135	08/28/86	1122.16
DM123-135	11/19/87	1121.77

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM123-155	08/28/86	1122.42
DM123-155	11/19/87	1121.07
DM123-195	08/28/86	1121.44
DM123-195	11/19/87	1121.42
DM123-220	08/28/86	1121.50
DM123-220	11/19/87	1127.27
DM123-250	08/28/86	1121.56
DM123-250	11/19/87	1120.35
DM123-285	08/28/86	1120.85
DM123-285	11/19/87	1120.00
DM124	09/09/86	1146.10
DM124	09/12/88	1142.41
DM124	01/10/89	1142.86
DM124	11/13/89	1142.22
DM124	10/24/90	1143.15
DM124	01/02/91	1143.29
DM124	06/28/91	1139.19
DM124	07/03/91	1139.53
DM124	07/17/91	1135.94
DM125-046	09/05/86	1178.85
DM125-046	11/20/87	1173.47
DM125-046	09/19/88	1154.97
DM125-046	11/27/89	1155.29
DM125-046	11/08/90	1154.98
DM125-076	09/05/86	1178.73
DM125-076	11/20/87	1173.33
DM125-076	01/17/89	1177.81
DM125-076	11/27/89	1178.20
DM125-076	11/08/90	1173.89
DM125-125	09/05/86	1179.44
DM125-125	11/20/87	1178.43
DM125-125	09/19/88	1178.01
DM125-125	01/17/89	1178.43
DM125-125	11/27/89	1178.76
DM125-125	11/08/90	1177.29
DM125-155	09/05/86	1178.86
DM125-155	11/20/87	1170.41
DM125-155	09/19/88	1177.73
DM125-155	01/17/89	1177.87
DM125-155	11/27/89	1177.66
DM125-155	11/08/90	1177.35
DM125-185	09/05/86	1178.44
DM125-185	11/20/87	1174.46
DM125-185	09/19/88	1177.61
DM125-185	01/17/89	1177.59
DM125-185	11/27/89	1177.67
DM125-185	11/08/90	1176.38
DM125-210	09/05/86	1178.40
DM125-210	11/20/87	1161.57
DM125-210	09/19/88	1178.76
DM125-210	01/17/89	1177.55
DM125-210	11/27/89	1177.74
DM125-210	11/08/90	1176.70
DM125-235	09/05/86	1178.11
DM125-235	11/20/87	1169.66
DM125-235	09/19/88	1177.69
DM125-235	01/17/89	1177.51
DM125-235	11/27/89	1177.82
DM125-235	11/08/90	1176.71
DM125-270	09/05/86	1179.05
DM125-270	11/20/87	1177.68
DM125-270	09/19/88	1177.84
DM125-270	01/17/89	1177.41

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM125-270	11/27/89	1177.89
DM125-270	11/08/90	1176.75
DM126	09/09/86	1092.03
DM126	05/27/87	1091.57
DM126	11/24/87	1091.60
DM126	09/12/88	1089.77
DM126	01/09/89	1088.90
DM126	11/13/89	1087.47
DM201	06/02/86	1176.29
DM201	01/10/89	1173.14
DM201	10/24/90	1167.73
DM201	01/07/91	1172.47
DM201	02/06/91	1172.33
DM201	03/13/91	1137.88
DM201	03/15/91	1136.12
DM201	03/18/91	1137.12
DM201	03/20/91	1133.23
DM201	03/22/91	1132.08
DM201	03/25/91	1140.14
DM201	03/28/91	1156.74
DM201	04/01/91	1146.88
DM201	04/03/91	1138.88
DM201	04/12/91	1172.14
DM201	04/15/91	1172.56
DM201	05/24/91	1164.69
DM201	06/07/91	1159.29
DM201-OB1	01/10/89	1173.20
DM201-OB1	11/15/89	1172.90
DM201-OB1	02/06/91	1172.11
DM201-OB1	02/28/91	1171.94
DM201-OB1	03/20/91	1171.28
DM201-OB1	03/29/91	1171.70
DM201-OB1	04/03/91	1171.54
DM201-OB1	04/12/91	1172.04
DM201-OB2	04/01/86	1175.28
DM201-OB2	09/13/88	1171.24
DM201-OB2	01/10/89	1171.40
DM201-OB2	02/06/91	1170.04
DM201-OB2	03/01/91	1169.94
DM201-OB2	03/20/91	1168.62
DM201-OB2	03/29/91	1169.36
DM201-OB2	04/03/91	1169.12
DM201-OB2	04/12/91	1169.68
DM201-OB3	02/06/91	1172.60
DM201-OB3	03/01/91	1172.66
DM201-OB3	03/20/91	1172.54
DM201-OB3	03/29/91	1172.61
DM201-OB3	04/03/91	1172.58
DM201-OB3	04/12/91	1172.76
DM202	03/04/86	1156.43
DM202	11/29/89	1156.04
DM202	06/25/90	1152.70
DM202	07/12/90	1156.58
DM202-OB1	03/04/86	1157.43
DM202-OB1	11/29/89	1155.09
DM202-OB1	06/25/90	1153.48
DM202-OB1	07/12/90	1156.54
DM202-OB2	11/29/89	1155.91
DM202-OB2	07/12/90	1157.89
DM301	08/26/86	1191.60
DM301	08/27/86	1191.49
DM301	08/28/86	1191.55
DM301	09/02/86	1191.72
DM301	09/03/86	1191.92

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM301	09/08/86	1191.92
DM301	09/09/86	1191.75
DM301	09/10/86	1191.43
DM301	09/11/86	1191.63
DM301	09/12/86	1191.64
DM301	09/16/86	1191.57
DM301	09/17/86	1191.58
DM301	10/03/86	1187.34
DM301	10/09/86	1187.37
DM301	10/10/86	1187.55
DM301	10/13/86	1188.36
DM301	10/14/86	1188.75
DM301	10/15/86	1188.72
DM301	10/16/86	1188.69
DM301	10/17/86	1188.76
DM301	10/20/86	1188.91
DM301	10/21/86	1188.82
DM301	10/22/86	1188.80
DM301	10/23/86	1188.74
DM301	10/24/86	1188.69
DM301	10/27/86	1187.86
DM301	10/28/86	1187.70
DM301	10/29/86	1187.55
DM301	10/30/86	1187.50
DM301	10/31/86	1187.47
DM301	11/05/86	1188.77
DM301	11/06/86	1188.82
DM301	11/07/86	1188.76
DM301	11/10/86	1188.86
DM301	11/11/86	1188.75
DM301	11/12/86	1188.75
DM301	11/13/86	1188.73
DM301	11/14/86	1188.72
DM301	11/17/86	1188.97
DM301	11/18/86	1188.84
DM301	11/19/86	1188.79
DM301	11/20/86	1188.80
DM301	11/21/86	1188.75
DM301	11/23/86	1188.76
DM301	11/25/86	1188.74
DM301	12/02/86	1188.67
DM301	12/03/86	1188.52
DM301	12/04/86	1188.50
DM301	12/05/86	1188.47
DM301	12/15/86	1188.37
DM302	08/26/86	1192.05
DM302	08/27/86	1192.00
DM302	08/28/86	1192.04
DM302	09/02/86	1192.13
DM302	09/03/86	1192.16
DM302	09/04/86	1192.21
DM302	09/08/86	1192.18
DM302	09/09/86	1192.24
DM302	09/10/86	1192.22
DM302	09/11/86	1192.20
DM302	09/12/86	1192.16
DM302	09/15/86	1192.13
DM302	09/16/86	1192.05
DM302	09/17/86	1192.03
DM302	09/18/86	1191.99
DM302	09/19/86	1191.91
DM302	09/22/86	1191.98
DM302	09/23/86	1191.90
DM302	09/24/86	1191.85

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM302	09/25/86	1191.91
DM302	09/26/86	1191.73
DM302	09/29/86	1191.91
DM302	09/30/86	1191.76
DM302	10/01/86	1191.84
DM302	10/02/86	1191.75
DM302	10/03/86	1191.67
DM302	10/06/86	1191.95
DM302	10/07/86	1191.85
DM302	10/08/86	1191.78
DM302	10/09/86	1191.72
DM302	10/10/86	1191.81
DM302	10/13/86	1191.82
DM302	10/14/86	1191.71
DM302	10/15/86	1191.68
DM302	10/16/86	1191.67
DM302	10/17/86	1191.69
DM302	10/20/86	1191.85
DM302	10/21/86	1191.97
DM302	10/22/86	1191.74
DM302	10/23/86	1191.66
DM302	10/24/86	1191.60
DM302	11/05/86	1191.62
DM302	11/06/86	1191.73
DM302	11/07/86	1191.62
DM302	11/10/86	1191.73
DM302	11/11/86	1191.65
DM302	11/12/86	1191.63
DM302	11/13/86	1191.55
DM302	11/14/86	1191.48
DM302	11/17/86	1191.75
DM302	11/20/86	1191.62
DM302	11/21/86	1191.63
DM302	11/23/86	1191.59
DM302	11/25/86	1191.60
DM302	12/02/86	1191.52
DM302	12/03/86	1191.52
DM302	12/04/86	1191.38
DM302	12/05/86	1191.35
DM302	12/15/86	1191.25
DM303	10/24/90	1186.38
DM303	01/08/91	1185.65
DM304	10/24/90	1186.49
DM304	01/08/91	1185.76
DM501-147	12/21/90	1079.21
DM501-147	06/11/91	1080.29
DM501-147	07/02/91	1080.52
DM501-147	07/22/91	1080.50
DM501-172	12/21/90	1082.91
DM501-172	06/11/91	1078.11
DM501-172	07/02/91	1078.58
DM501-172	07/22/91	1075.89
DM501-202	12/21/90	1079.01
DM501-202	06/11/91	1080.01
DM501-202	07/02/91	1080.05
DM501-202	07/22/91	1080.18
DM501-252	12/21/90	1079.21
DM501-252	06/11/91	1080.17
DM501-252	07/02/91	1080.24
DM501-252	07/22/91	1080.32
DM501-267	12/21/90	1079.31
DM501-267	06/11/91	1080.30
DM501-267	07/02/91	1080.37
DM501-267	07/22/91	1080.50

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM501-306	12/21/90	1079.71
DM501-306	06/11/91	1080.59
DM501-306	07/02/91	1080.59
DM501-306	07/22/91	1080.69
DM501-331	12/21/90	1080.81
DM501-331	06/11/91	1081.22
DM501-331	07/02/91	1081.30
DM501-331	07/22/91	1081.38
DM501-360	12/21/90	1082.01
DM501-360	06/11/91	1081.74
DM501-360	07/02/91	1081.82
DM501-360	07/22/91	1081.93
DM501-387	12/21/90	1083.11
DM501-387	06/11/91	1082.29
DM501-387	07/02/91	1082.40
DM501-387	07/22/91	1082.57
DM502-079	06/14/91	1105.71
DM502-079	06/28/91	1105.66
DM502-099	06/14/91	1105.10
DM502-099	06/28/91	1104.82
DM502-119	06/14/91	1105.62
DM502-119	06/28/91	1105.84
DM502-147	06/14/91	1107.07
DM502-147	06/28/91	1107.11
DM502-161	06/14/91	1107.06
DM502-161	06/28/91	1106.82
DM502-195	06/14/91	1107.34
DM502-195	06/28/91	1107.22
DM502-240	06/14/91	1106.99
DM502-240	06/28/91	1107.46
DM502-280	06/14/91	1107.36
DM502-280	06/28/91	1107.20
DM502-335	06/14/91	1107.33
DM502-335	06/28/91	1107.12
DM503	01/02/91	1118.09
DM503	06/17/91	1112.71
DM503	06/28/91	1112.45
DM503	07/03/91	1112.35
DM503	07/17/91	1108.68
DM504	12/31/90	1086.33
DM504	12/31/90	1086.33
DM504	06/18/91	1083.55
DM504	07/02/91	1083.86
DM504	07/02/91	1083.69
DM505	01/14/91	1075.63
DM505	06/13/91	1074.28
DM505	06/27/91	1074.77
DM505	07/03/91	1074.81
DM505	07/05/91	1074.83
DM506-100	06/17/91	1069.29
DM506-100	06/27/91	1069.33
DM506-135	06/17/91	1065.59
DM506-135	06/27/91	1071.92
DM506-185	06/17/91	1068.59
DM506-185	06/27/91	1069.43
DM506-235	06/17/91	1069.39
DM506-235	06/27/91	1069.46
DM506-240	06/17/91	1070.13
DM506-240	06/27/91	1070.22
DM506-290	06/17/91	1070.94
DM506-290	06/27/91	1070.95
DM506-305	06/17/91	1071.17
DM506-305	06/27/91	1071.19
DM506-350	06/17/91	1071.87

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM506-350	06/27/91	1071.90
DM506-375	06/17/91	1072.31
DM506-375	06/27/91	1072.23
DM507-084	06/18/91	1060.60
DM507-084	06/25/91	1060.66
DM507-104	06/18/91	1057.32
DM507-104	06/25/91	1059.64
DM507-188	06/18/91	1060.62
DM507-188	06/25/91	1060.70
DM507-213	06/18/91	1063.02
DM507-213	06/25/91	1062.04
DM507-240	06/18/91	1060.44
DM507-240	06/25/91	1060.60
DM507-260	06/18/91	1060.43
DM507-260	06/25/91	1060.63
DM507-280	06/18/91	1060.45
DM507-280	06/25/91	1060.57
DM507-300	06/18/91	1060.32
DM507-300	06/25/91	1060.51
DM507-315	06/18/91	1060.32
DM507-315	06/25/91	1060.49
DM508	06/19/91	1070.63
DM508	06/26/91	1070.55
DM509	06/18/91	1056.93
DM509	07/01/91	1057.07
DM509	07/03/91	1057.08
DM601-040	09/19/91	1183.13
DM601-040	10/28/91	1182.85
DM601-070	09/19/91	1183.23
DM601-070	10/28/91	1182.92
DM601-085	09/19/91	1183.02
DM601-085	10/28/91	1182.73
DM601-115	09/19/91	1182.82
DM601-115	10/28/91	1182.54
DM601-135	09/19/91	1182.83
DM601-135	10/28/91	1182.50
DM601-175	09/19/91	1182.69
DM601-175	10/28/91	1182.44
DM601-200	09/19/91	1182.23
DM601-200	10/28/91	1182.04
DM602	09/06/91	1149.22
DM602	11/18/91	1148.64
DM603-051	09/11/91	1140.42
DM603-051	11/22/91	1144.95
DM603-051	12/16/91	1148.26
DM603-068	09/11/91	1136.57
DM603-068	11/22/91	1136.38
DM603-068	12/16/91	1139.17
DM603-088	09/11/91	1135.94
DM603-088	11/22/91	1137.34
DM603-088	12/16/91	1142.98
DM603-115	09/11/91	1132.56
DM603-115	11/22/91	1136.51
DM603-115	12/16/91	1138.97
DM603-160	09/11/91	1132.61
DM603-160	11/22/91	1136.37
DM603-160	12/16/91	1138.96
DM603-170	09/11/91	1132.58
DM603-170	11/22/91	1136.41
DM603-170	12/16/91	1138.92
DM603-185	09/11/91	1132.64
DM603-185	11/22/91	1136.38
DM603-185	12/16/91	1138.91
DM603-205	09/11/91	1132.58

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
DM603-205	11/22/91	1136.38
DM603-205	12/16/91	1138.88
DM603-230	09/11/91	1132.64
DM603-230	11/22/91	1136.34
DM603-230	12/16/91	1138.88
DM603-245	09/11/91	1132.86
DM603-245	11/22/91	1136.60
DM603-245	12/16/91	1139.10
DM604	07/03/91	1137.23
DM604	09/06/91	1135.80
DM604	11/18/91	1134.90
DM605-046	09/19/91	1134.99
DM605-066	09/19/91	1130.97
DM605-075	09/19/91	1129.71
DM605-075	12/12/91	1129.81
DM605-105	09/19/91	1130.80
DM605-105	12/12/91	1131.82
DM605-160	09/19/91	1131.48
DM605-160	12/12/91	1132.72
DM605-170	09/19/91	1132.51
DM605-170	12/12/91	1133.58
DM605-200	09/19/91	1132.28
DM605-200	12/12/91	1133.19
DM605-240	09/19/91	1134.30
DM605-240	12/12/91	1135.77
DM605-265	09/19/91	1134.25
DM605-265	12/12/91	1135.73
DM605-290	09/19/91	1134.24
DM605-290	12/12/91	1135.64
DM606-045	11/25/91	1159.24
DM606-045	12/17/91	1161.05
DM606-075	11/25/91	1159.72
DM606-075	12/17/91	1161.55
DM606-102	11/25/91	1159.58
DM606-102	12/17/91	1161.49
DM606-185	11/25/91	1159.48
DM606-185	12/17/91	1159.78
DM606-210	11/25/91	1158.25
DM606-210	12/17/91	1160.06
DM606-250	11/25/91	1157.67
DM606-250	12/17/91	1159.44
DM606-285	11/25/91	1157.42
DM606-285	12/17/91	1159.13
DM606-330	11/25/91	1155.29
DM606-330	12/17/91	1157.12
DM606-355	11/25/91	1155.07
DM606-355	12/17/91	1156.81
DM606-370	11/25/91	1154.44
DM606-370	12/17/91	1156.22
DM701	11/01/91	1146.31
DM701	11/04/91	1146.12
DM701	11/07/91	1146.05
DM701	12/05/91	1146.81
DW-1	08/20/85	1191.20
DW-1	09/27/85	1189.60
DW-1	11/05/85	1189.50
DW-1	12/03/85	1189.42
DW-1	01/07/86	1189.69
DW-1	02/04/86	1189.05
DW-1	03/03/86	1188.71
DW-1	03/31/86	1188.38
DW-1	06/02/86	1189.19
MP01	08/20/85	1189.60
MP01	09/27/85	1190.60

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP01	11/01/85	1189.10
MP01	12/03/85	1189.58
MP01	01/07/86	1189.70
MP01	02/04/86	1188.98
MP01	03/03/86	1189.06
MP01	03/31/86	1189.26
MP01	06/02/86	1188.65
MP03-A	08/20/85	1190.40
MP03-A	09/27/85	1190.70
MP03-A	11/05/85	1190.16
MP03-A	12/03/85	1190.00
MP03-A	01/07/86	1189.68
MP03-A	02/04/86	1189.42
MP03-A	03/03/86	1189.30
MP03-A	03/31/86	1189.56
MP03-A	06/02/86	1189.02
MP03-A	09/09/86	1189.41
MP03-A	09/10/86	1190.22
MP03-A	09/11/86	1190.21
MP03-A	09/12/86	1190.20
MP03-A	09/15/86	1190.14
MP03-A	09/17/86	1190.13
MP03-A	09/18/86	1189.38
MP03-A	09/19/86	1190.03
MP03-A	09/22/86	1190.10
MP03-A	09/23/86	1190.02
MP03-A	09/25/86	1189.72
MP03-A	09/26/86	1189.88
MP03-A	09/29/86	1190.27
MP03-A	09/30/86	1190.17
MP03-A	10/01/86	1190.15
MP03-A	10/02/86	1190.18
MP03-A	10/03/86	1190.10
MP03-A	10/06/86	1190.03
MP03-A	10/07/86	1190.25
MP03-A	10/08/86	1190.06
MP03-A	10/09/86	1189.81
MP03-A	10/10/86	1189.97
MP03-A	10/13/86	1189.84
MP03-A	10/14/86	1189.76
MP03-A	10/15/86	1189.73
MP03-A	10/16/86	1189.62
MP03-A	10/17/86	1189.76
MP03-A	10/20/86	1189.48
MP03-A	10/21/86	1189.82
MP03-A	10/22/86	1189.86
MP03-A	10/23/86	1189.75
MP03-A	10/24/86	1189.71
MP03-A	10/27/86	1188.85
MP03-A	10/28/86	1188.71
MP03-A	10/29/86	1188.55
MP03-A	10/30/86	1188.47
MP03-A	10/31/86	1188.42
MP03-A	11/05/86	1189.72
MP03-A	11/06/86	1189.74
MP03-A	11/07/86	1189.70
MP03-A	11/10/86	1189.83
MP03-A	11/11/86	1189.71
MP03-A	11/12/86	1189.71
MP03-A	11/13/86	1189.68
MP03-A	11/14/86	1189.67
MP03-A	11/17/86	1189.90
MP03-A	11/18/86	1189.80
MP03-A	11/19/86	1189.77

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP03-A	11/20/86	1189.71
MP03-A	11/21/86	1189.73
MP03-A	11/23/86	1189.73
MP03-A	11/25/86	1189.75
MP03-A	12/02/86	1189.63
MP03-A	12/03/86	1189.40
MP03-A	12/04/86	1189.44
MP03-A	12/05/86	1189.40
MP03-A	12/15/86	1189.35
MP03-A	09/12/88	1188.58
MP03-A	01/10/89	1188.11
MP03-A	11/14/89	1187.02
MP03-A	10/24/90	1187.77
MP03-A	07/03/91	1184.64
MP03-B	08/20/85	1190.40
MP03-B	09/27/85	1190.70
MP03-B	11/05/85	1190.23
MP03-B	12/03/85	1190.06
MP03-B	01/07/86	1189.75
MP03-B	02/04/86	1189.54
MP03-B	03/03/86	1189.44
MP03-B	03/31/86	1189.61
MP03-B	06/02/86	1189.10
MP03-B	08/26/86	1189.83
MP03-B	08/27/86	1189.77
MP03-B	08/28/86	1189.82
MP03-B	09/02/86	1189.86
MP03-B	09/03/86	1189.88
MP03-B	09/04/86	1189.85
MP03-B	09/08/86	1189.96
MP03-B	09/09/86	1189.09
MP03-B	09/09/86	1190.09
MP03-B	09/10/86	1190.51
MP03-B	09/11/86	1190.49
MP03-B	09/12/86	1190.46
MP03-B	09/16/86	1190.41
MP03-B	09/17/86	1190.41
MP03-B	05/29/87	1188.43
MP03-B	12/03/87	1187.92
MP03-B	09/12/88	1188.60
MP03-B	01/10/89	1188.10
MP03-B	11/14/89	1187.05
MP03-B	10/24/90	1187.66
MP03-B	01/09/91	1186.85
MP03-B	07/03/91	1184.38
MP03-B	09/16/91	1184.72
MP03-B	11/21/91	1184.49
MP03-C	08/20/85	1190.30
MP03-C	09/27/85	1190.40
MP03-C	11/05/85	1189.80
MP03-C	12/03/85	1190.31
MP03-C	01/07/86	1189.33
MP03-C	02/04/86	1190.02
MP03-C	03/03/86	1187.86
MP03-C	06/02/86	1203.20
MP03-C	11/10/86	1189.07
MP03-C	11/11/86	1188.60
MP03-C	09/12/88	1188.05
MP03-C	01/10/89	1188.23
MP03-C	11/14/89	1187.18
MP03-C	10/24/90	1186.55
MP03-C	01/09/91	1186.93
MP03-C	07/09/91	1184.44
MP03-D	08/20/85	1190.50

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP03-D	09/27/85	1190.40
MP03-D	11/05/85	1189.59
MP03-D	12/03/85	1190.42
MP03-D	01/07/86	1189.23
MP03-D	02/04/86	1189.93
MP03-D	03/03/86	1186.45
MP03-D	06/02/86	1189.80
MP03-D	09/12/88	1188.12
MP03-D	01/10/89	1188.17
MP03-D	11/14/89	1187.34
MP03-D	10/24/90	1187.77
MP03-D	01/09/91	1186.91
MP03-D	09/16/91	1184.29
MP03-D	11/19/91	1185.26
MP09-A	08/20/85	1190.40
MP09-A	09/27/85	1190.20
MP09-A	11/05/85	1190.02
MP09-A	12/03/85	1189.85
MP09-A	01/07/86	1189.54
MP09-A	02/04/86	1189.42
MP09-A	03/03/86	1189.35
MP09-A	03/31/86	1189.05
MP09-A	06/02/86	1189.96
MP09-A	09/17/86	1189.92
MP09-A	09/19/86	1189.83
MP09-A	09/22/86	1189.90
MP09-A	09/23/86	1189.83
MP09-A	09/24/86	1189.73
MP09-A	09/25/86	1189.71
MP09-A	09/26/86	1189.63
MP09-A	09/29/86	1189.80
MP09-A	09/30/86	1189.68
MP09-A	10/01/86	1189.66
MP09-A	10/02/86	1189.64
MP09-A	10/06/86	1189.87
MP09-A	10/07/86	1189.78
MP09-A	10/08/86	1189.74
MP09-A	10/09/86	1189.67
MP09-A	10/10/86	1189.48
MP09-A	10/13/86	1189.71
MP09-A	10/15/86	1189.60
MP09-A	10/16/86	1189.62
MP09-A	10/17/86	1189.66
MP09-A	10/20/86	1189.74
MP09-A	10/21/86	1189.70
MP09-A	10/22/86	1189.62
MP09-A	10/23/86	1189.58
MP09-A	10/24/86	1189.54
MP09-A	11/05/86	1189.52
MP09-A	11/06/86	1189.59
MP09-A	11/07/86	1189.50
MP09-A	11/10/86	1189.64
MP09-A	11/11/86	1189.52
MP09-A	11/12/86	1189.50
MP09-A	11/13/86	1189.47
MP09-A	11/14/86	1189.46
MP09-A	11/17/86	1189.44
MP09-A	11/19/86	1189.55
MP09-A	11/20/86	1189.42
MP09-A	11/21/86	1189.34
MP09-A	11/23/86	1189.52
MP09-A	11/24/86	1189.48
MP09-A	11/25/86	1189.48
MP09-A	12/02/86	1189.42

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP09-A	12/03/86	1189.30
MP09-A	12/04/86	1189.24
MP09-A	12/05/86	1189.24
MP09-A	12/15/86	1189.10
MP09-A	05/29/87	1188.45
MP09-A	12/03/87	1187.87
MP09-A	09/12/88	1188.18
MP09-A	01/10/89	1187.56
MP09-A	11/14/89	1186.59
MP09-A	10/24/90	1186.91
MP09-A	01/08/91	1186.22
MP09-A	07/03/91	1184.00
MP09-A	07/08/91	1184.20
MP09-B	08/20/85	1190.50
MP09-B	09/27/85	1190.20
MP09-B	11/05/85	1190.07
MP09-B	12/03/85	1190.76
MP09-B	01/07/86	1189.38
MP09-B	02/04/86	1189.71
MP09-B	03/03/86	1189.47
MP09-B	03/31/86	1189.06
MP09-B	06/02/86	1188.99
MP09-B	08/27/86	1189.18
MP09-B	08/28/86	1188.73
MP09-B	09/02/86	1189.17
MP09-B	09/03/86	1189.18
MP09-B	09/04/86	1189.20
MP09-B	09/08/86	1189.25
MP09-B	09/09/86	1189.36
MP09-B	09/10/86	1189.95
MP09-B	09/11/86	1189.88
MP09-B	09/12/86	1189.88
MP09-B	09/16/86	1189.86
MP09-B	09/17/86	1189.85
MP09-B	09/12/88	1188.17
MP09-B	01/10/89	1187.63
MP09-B	11/14/89	1186.88
MP09-B	07/03/91	1184.08
MP09-B	09/13/91	1183.69
MP09-B	11/19/91	1184.05
MP09-C	08/20/85	1190.10
MP09-C	09/27/85	1190.00
MP09-C	11/05/85	1189.55
MP09-C	12/03/85	1189.83
MP09-C	01/07/86	1189.10
MP09-C	02/04/86	1189.13
MP09-C	03/03/86	1189.30
MP09-C	03/31/86	1188.14
MP09-C	06/02/86	1189.75
MP09-C	05/28/87	1187.20
MP09-C	12/03/87	1188.00
MP09-C	09/12/88	1187.78
MP09-C	01/10/89	1187.42
MP09-C	11/14/89	1186.43
MP09-C	10/24/90	1186.42
MP09-C	01/08/91	1185.90
MP09-C	07/03/91	1183.87
MP09-C	07/08/91	1184.01
MP09-D	08/20/85	1190.20
MP09-D	09/27/85	1190.10
MP09-D	11/05/85	1189.12
MP09-D	12/03/85	1189.86
MP09-D	01/07/86	1189.74
MP09-D	02/04/86	1189.04

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP09-D	03/03/86	1188.46
MP09-D	03/31/86	1188.29
MP09-D	06/02/86	1189.13
MP09-D	09/12/88	1187.70
MP09-D	01/10/89	1187.53
MP09-D	11/14/89	1186.42
MP09-D	07/03/91	1183.88
MP09-D	09/13/91	1183.48
MP09-D	11/19/91	1183.33
MP11-A	08/21/85	1189.10
MP11-A	09/27/85	1189.10
MP11-A	11/04/85	1188.84
MP11-A	12/02/85	1188.69
MP11-A	01/07/86	1188.40
MP11-A	02/04/86	1188.30
MP11-A	03/03/86	1188.16
MP11-A	03/31/86	1187.88
MP11-A	06/02/86	1188.07
MP11-A	05/21/87	1186.31
MP11-A	11/19/87	1187.23
MP11-A	09/12/88	1189.09
MP11-A	01/10/89	1186.42
MP11-A	11/14/89	1185.75
MP11-A	10/24/90	1186.16
MP11-A	01/08/91	1185.26
MP11-A	07/03/91	1183.44
MP11-B	08/21/85	1189.00
MP11-B	09/27/85	1189.20
MP11-B	11/04/85	1188.85
MP11-B	12/02/85	1188.78
MP11-B	01/07/86	1188.51
MP11-B	02/04/86	1188.29
MP11-B	03/03/86	1188.00
MP11-B	03/31/86	1187.88
MP11-B	06/02/86	1188.09
MP11-B	08/26/86	1188.43
MP11-B	08/27/86	1188.27
MP11-B	09/02/86	1188.15
MP11-B	09/03/86	1188.24
MP11-B	09/04/86	1188.32
MP11-B	09/08/86	1188.37
MP11-B	09/09/86	1188.45
MP11-B	09/11/86	1188.90
MP11-B	09/12/86	1188.84
MP11-B	09/16/86	1188.81
MP11-B	09/17/86	1188.75
MP11-B	05/21/87	1186.25
MP11-B	11/19/87	1187.11
MP11-B	09/12/88	1189.98
MP11-B	01/10/89	1186.77
MP11-B	11/14/89	1186.01
MP11-B	10/24/90	1186.22
MP11-B	01/08/91	1185.32
MP11-B	07/03/91	1183.47
MP11-B	09/18/91	1182.95
MP11-B	11/19/91	1185.13
MP11-C	08/21/85	1188.70
MP11-C	09/27/85	1188.70
MP11-C	11/04/85	1188.70
MP11-C	12/02/85	1188.44
MP11-C	01/07/86	1188.05
MP11-C	02/04/86	1188.01
MP11-C	03/03/86	1187.94
MP11-C	03/31/86	1187.60

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP11-C	06/02/86	1187.62
MP11-C	05/21/87	1186.01
MP11-C	11/19/87	1186.71
MP11-C	09/12/88	1187.64
MP11-C	01/10/89	1186.62
MP11-C	11/14/89	1185.57
MP11-C	10/24/90	1185.89
MP11-C	01/08/91	1185.17
MP11-C	07/03/91	1183.47
MP11-D	08/21/85	1188.60
MP11-D	09/27/85	1188.80
MP11-D	11/04/85	1188.22
MP11-D	12/02/85	1188.03
MP11-D	01/07/86	1188.04
MP11-D	02/04/86	1187.85
MP11-D	03/03/86	1187.88
MP11-D	03/31/86	1187.55
MP11-D	06/02/86	1187.45
MP11-D	09/12/88	1186.73
MP11-D	01/10/89	1186.70
MP11-D	11/14/89	1185.70
MP11-D	07/03/91	1183.50
MP11-D	09/18/91	1182.92
MP11-D	11/21/91	1183.40
MP13-A	08/21/85	1186.50
MP13-A	09/27/85	1183.00
MP13-A	11/04/85	1185.76
MP13-A	12/02/85	1186.65
MP13-A	01/06/86	1185.82
MP13-A	02/04/86	1185.57
MP13-A	03/03/86	1185.51
MP13-A	03/31/86	1185.85
MP13-A	06/02/86	1185.63
MP13-A	09/09/86	1185.89
MP13-A	09/13/88	1184.51
MP13-A	01/11/89	1182.75
MP13-A	11/14/89	1180.53
MP13-A	02/06/91	1181.11
MP13-B	08/21/85	1186.70
MP13-B	09/27/85	1186.00
MP13-B	11/04/85	1185.92
MP13-B	12/02/85	1186.82
MP13-B	01/06/86	1185.96
MP13-B	02/04/86	1185.88
MP13-B	03/03/86	1185.67
MP13-B	03/31/86	1186.11
MP13-B	06/02/86	1184.60
MP13-B	09/09/86	1186.05
MP13-B	09/13/88	1184.62
MP13-B	01/11/89	1182.78
MP13-B	11/14/89	1180.66
MP13-B	10/24/90	1182.40
MP13-B	01/08/91	1182.77
MP13-B	02/06/91	1181.16
MP13-B	07/03/91	1180.06
MP13-C	08/21/85	1186.60
MP13-C	09/27/85	1186.10
MP13-C	11/04/85	1186.08
MP13-C	12/02/85	1186.73
MP13-C	01/06/86	1186.19
MP13-C	02/04/86	1185.72
MP13-C	03/03/86	1185.89
MP13-C	03/31/86	1186.42
MP13-C	06/02/86	1184.85

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP13-C	09/09/86	1186.42
MP13-C	09/13/88	1184.53
MP13-C	01/11/89	1183.12
MP13-C	11/14/89	1181.02
MP13-C	10/24/90	1182.69
MP13-C	01/08/91	1182.53
MP13-C	02/06/91	1181.16
MP13-C	07/03/91	1180.41
MP13-D	08/21/85	1187.30
MP13-D	09/27/85	1187.00
MP13-D	11/04/85	1186.96
MP13-D	12/02/85	1187.27
MP13-D	01/06/86	1187.14
MP13-D	02/04/86	1186.98
MP13-D	03/03/86	1186.78
MP13-D	03/31/86	1187.10
MP13-D	06/02/86	1186.01
MP13-D	09/09/86	1186.77
MP13-D	09/13/88	1184.50
MP13-D	01/11/89	1183.99
MP13-D	11/14/89	1180.03
MP13-D	02/06/91	1182.85
MP16-A	08/19/85	1169.10
MP16-A	09/27/85	1169.00
MP16-A	11/04/85	1169.00
MP16-A	12/02/85	1169.19
MP16-A	01/06/86	1169.14
MP16-A	02/04/86	1168.85
MP16-A	03/03/86	1168.87
MP16-A	03/31/86	1169.48
MP16-A	06/02/86	1168.51
MP16-A	09/09/86	1168.47
MP16-A	05/20/87	1165.75
MP16-A	11/18/87	1165.79
MP16-A	09/13/88	1163.50
MP16-A	01/10/89	1165.40
MP16-A	11/15/89	1163.07
MP16-A	10/24/90	1163.65
MP16-A	01/07/91	1163.79
MP16-A	02/06/91	1162.91
MP16-A	04/15/91	1163.98
MP16-A	07/03/91	1162.93
MP16-B	08/19/85	1169.40
MP16-B	09/27/85	1169.30
MP16-B	11/04/85	1169.40
MP16-B	12/02/85	1169.52
MP16-B	01/06/86	1169.47
MP16-B	02/04/86	1168.87
MP16-B	03/03/86	1169.21
MP16-B	03/31/86	1169.80
MP16-B	06/02/86	1168.87
MP16-B	09/09/86	1168.86
MP16-B	09/13/88	1164.48
MP16-B	01/10/89	1166.24
MP16-B	11/15/89	1163.91
MP16-B	02/06/91	1163.84
MP16-B	04/15/91	1165.04
MP16-B	07/03/91	1163.44
MP16-C	08/19/85	1169.60
MP16-C	09/27/85	1169.30
MP16-C	11/04/85	1169.58
MP16-C	12/02/85	1169.54
MP16-C	01/06/86	1169.55
MP16-C	02/04/86	1169.06

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP16-C	03/03/86	1169.46
MP16-C	03/31/86	1169.78
MP16-C	06/02/86	1169.14
MP16-C	09/09/86	1168.74
MP16-C	05/20/87	1166.85
MP16-C	11/17/87	1166.95
MP16-C	09/13/88	1161.20
MP16-C	01/10/89	1163.94
MP16-C	11/15/89	1164.15
MP16-C	10/24/90	1164.86
MP16-C	01/08/91	1164.92
MP16-C	02/06/91	1163.95
MP16-C	07/03/91	1163.63
MP16-D	08/19/85	1170.00
MP16-D	09/27/85	1169.30
MP16-D	11/04/85	1169.49
MP16-D	12/02/85	1169.82
MP16-D	01/06/86	1169.61
MP16-D	02/04/86	1169.29
MP16-D	03/03/86	1169.53
MP16-D	03/31/86	1168.86
MP16-D	06/02/86	1169.33
MP16-D	09/09/86	1168.76
MP16-D	09/13/88	1161.14
MP16-D	01/10/89	1164.12
MP16-D	11/15/89	1164.19
MP16-D	02/06/91	1163.98
MP16-D	07/03/91	1164.21
MP20-A	08/19/85	1193.70
MP20-A	09/27/85	1193.10
MP20-A	12/02/85	1192.91
MP20-A	01/06/86	1192.86
MP20-A	01/31/86	1192.66
MP20-A	02/01/86	1192.65
MP20-A	02/02/86	1192.64
MP20-A	02/03/86	1192.64
MP20-A	02/04/86	1192.64
MP20-A	02/05/86	1192.64
MP20-A	02/06/86	1192.63
MP20-A	02/07/86	1192.62
MP20-A	02/08/86	1192.62
MP20-A	02/09/86	1192.62
MP20-A	02/10/86	1192.61
MP20-A	02/11/86	1192.61
MP20-A	02/12/86	1192.61
MP20-A	02/13/86	1192.62
MP20-A	02/14/86	1192.61
MP20-A	02/15/86	1192.61
MP20-A	02/16/86	1192.60
MP20-A	02/17/86	1192.63
MP20-A	02/18/86	1192.66
MP20-A	02/19/86	1192.66
MP20-A	02/20/86	1192.66
MP20-A	02/21/86	1192.66
MP20-A	02/22/86	1192.66
MP20-A	02/23/86	1192.65
MP20-A	02/24/86	1192.65
MP20-A	02/25/86	1192.66
MP20-A	02/26/86	1192.66
MP20-A	02/27/86	1192.66
MP20-A	02/28/86	1192.65
MP20-A	03/01/86	1192.65
MP20-A	03/02/86	1192.63
MP20-A	03/03/86	1192.49

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP20-A	04/01/86	1192.27
MP20-A	06/02/86	1191.78
MP20-A	09/09/86	1190.85
MP20-A	09/13/88	1187.94
MP20-A	01/10/89	1189.45
MP20-A	11/15/89	1188.91
MP20-A	10/24/90	1188.62
MP20-A	01/07/91	1187.22
MP20-A	02/06/91	1187.91
MP20-B	08/19/85	1193.80
MP20-B	09/27/85	1193.30
MP20-B	11/04/85	1193.03
MP20-B	12/02/85	1193.07
MP20-B	01/06/86	1193.10
MP20-B	02/04/86	1192.86
MP20-B	03/03/86	1192.61
MP20-B	04/01/86	1192.43
MP20-B	06/02/86	1191.80
MP20-B	09/09/86	1190.89
MP20-B	09/13/88	1188.90
MP20-B	01/10/89	1189.34
MP20-B	11/15/89	1188.93
MP20-B	10/24/90	1188.76
MP20-B	01/07/91	1188.46
MP20-B	02/06/91	1188.05
MP20-C	08/19/85	1193.50
MP20-C	09/27/85	1193.10
MP20-C	11/04/85	1192.82
MP20-C	12/02/85	1192.83
MP20-C	01/06/86	1192.86
MP20-C	02/04/86	1192.78
MP20-C	03/03/86	1192.42
MP20-C	04/01/86	1192.23
MP20-C	06/02/86	1191.53
MP20-C	09/09/86	1190.77
MP20-C	09/13/88	1189.04
MP20-C	01/10/89	1189.54
MP20-C	11/15/89	1188.79
MP20-C	10/24/90	1188.48
MP20-C	01/07/91	1188.09
MP20-C	02/06/91	1187.81
MP20-D	08/19/85	1193.50
MP20-D	09/27/85	1193.10
MP20-D	11/04/85	1192.65
MP20-D	12/02/85	1192.81
MP20-D	01/06/86	1192.76
MP20-D	02/04/86	1192.67
MP20-D	03/03/86	1192.72
MP20-D	06/02/86	1191.55
MP20-D	09/09/86	1190.88
MP20-D	09/13/88	1188.35
MP20-D	01/10/89	1189.74
MP20-D	11/15/89	1188.95
MP20-D	10/24/90	1189.27
MP25-A	08/19/85	1194.10
MP25-A	09/27/85	1193.90
MP25-A	11/04/85	1193.64
MP25-A	12/02/85	1193.44
MP25-A	01/08/86	1193.30
MP25-A	02/05/86	1192.94
MP25-A	03/03/86	1192.74
MP25-A	03/31/86	1193.20
MP25-A	06/02/86	1192.47
MP25-A	09/09/86	1192.59

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP25-A	07/03/91	1187.27
MP25-B	08/19/85	1194.20
MP25-B	09/27/85	1193.80
MP25-B	11/04/85	1193.71
MP25-B	12/02/85	1193.65
MP25-B	01/08/86	1193.22
MP25-B	02/05/86	1192.90
MP25-B	03/03/86	1192.71
MP25-B	03/31/86	1193.33
MP25-B	06/02/86	1192.52
MP25-B	09/09/86	1192.63
MP25-B	09/13/88	1191.50
MP25-B	01/13/89	1191.33
MP25-B	11/15/89	1189.32
MP25-B	07/03/91	1187.42
MP25-C	08/19/85	1194.60
MP25-C	09/27/85	1193.40
MP25-C	11/04/85	1194.10
MP25-C	12/02/85	1194.18
MP25-C	01/08/86	1193.13
MP25-C	02/05/86	1193.45
MP25-C	03/03/86	1193.38
MP25-C	03/31/86	1193.71
MP25-C	06/02/86	1192.98
MP25-C	09/09/86	1192.82
MP25-C	07/03/91	1188.17
MP25-D	08/19/85	1195.10
MP25-D	09/27/85	1194.90
MP25-D	11/04/85	1194.96
MP25-D	12/02/85	1194.86
MP25-D	01/08/86	1194.55
MP25-D	02/05/86	1194.28
MP25-D	03/03/86	1194.08
MP25-D	03/31/86	1194.72
MP25-D	06/02/86	1193.78
MP25-D	09/09/86	1194.01
MP25-D	09/13/88	1192.51
MP25-D	01/13/89	1192.91
MP25-D	11/15/89	1190.82
MP25-D	10/24/90	1192.20
MP25-D	01/08/91	1190.46
MP25-D	07/03/91	1188.88
MP25-D	07/09/91	1189.92
MP28-A	08/19/85	1193.70
MP28-A	09/27/85	1193.00
MP28-A	11/04/85	1193.00
MP28-A	12/02/85	1190.94
MP28-A	01/06/86	1189.93
MP28-A	02/04/86	1191.97
MP28-A	03/03/86	1191.99
MP28-A	06/02/86	1191.61
MP28-A	09/09/86	1191.99
MP28-A	01/21/91	1188.90
MP28-A	07/01/91	1188.34
MP28-B	08/19/85	1193.30
MP28-B	09/27/85	1192.60
MP28-B	11/04/85	1192.87
MP28-B	12/02/85	1192.62
MP28-B	01/06/86	1192.14
MP28-B	02/04/86	1191.84
MP28-B	03/03/86	1191.66
MP28-B	03/31/86	1191.47
MP28-B	06/02/86	1191.36
MP28-B	09/09/86	1191.98

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP28-B	09/13/88	1190.54
MP28-B	01/11/89	1190.24
MP28-B	11/15/89	1189.39
MP28-B	10/24/90	1189.33
MP28-B	01/08/91	1188.95
MP28-C	08/19/85	1193.10
MP28-C	09/27/85	1192.50
MP28-C	11/04/85	1192.71
MP28-C	12/02/85	1192.55
MP28-C	01/06/86	1192.10
MP28-C	02/04/86	1191.79
MP28-C	03/03/86	1191.56
MP28-C	03/31/86	1191.44
MP28-C	06/02/86	1191.38
MP28-C	09/09/86	1191.94
MP28-C	09/13/88	1190.50
MP28-C	01/11/89	1190.16
MP28-C	11/15/89	1189.32
MP28-C	10/24/90	1189.33
MP28-C	01/08/91	1188.80
MP28-C	07/01/91	1187.66
MP28-D	08/19/85	1193.00
MP28-D	09/27/85	1192.40
MP28-D	11/04/85	1192.61
MP28-D	12/02/85	1192.49
MP28-D	01/06/86	1192.05
MP28-D	02/04/86	1191.74
MP28-D	03/03/86	1191.49
MP28-D	03/31/86	1191.43
MP28-D	06/02/86	1191.29
MP28-D	09/09/86	1191.86
MP28-D	09/13/88	1190.36
MP28-D	01/11/89	1190.13
MP28-D	11/15/89	1189.32
MP28-D	10/24/90	1189.27
MP28-D	01/08/91	1188.81
MP30-A	08/19/85	1190.70
MP30-A	09/27/85	1190.30
MP30-A	11/04/85	1190.66
MP30-A	12/02/85	1190.59
MP30-A	01/06/86	1190.04
MP30-A	02/04/86	1189.84
MP30-A	03/03/86	1189.57
MP30-A	03/31/86	1189.51
MP30-A	06/02/86	1189.19
MP30-A	09/09/86	1189.92
MP30-A	09/13/88	1188.56
MP30-A	01/11/89	1189.21
MP30-A	11/14/89	1187.50
MP30-A	10/24/90	1187.24
MP30-A	01/08/91	1186.64
MP30-A	07/03/91	1185.05
MP30-B	08/19/85	1190.70
MP30-B	09/27/85	1190.30
MP30-B	11/04/85	1190.61
MP30-B	12/02/85	1190.57
MP30-B	01/06/86	1189.98
MP30-B	02/04/86	1189.81
MP30-B	03/03/86	1189.59
MP30-B	03/31/86	1189.40
MP30-B	06/02/86	1189.03
MP30-B	09/09/86	1189.56
MP30-B	09/13/88	1188.05
MP30-B	01/11/89	1188.69

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP30-B	11/14/89	1187.71
MP30-B	10/24/90	1187.22
MP30-B	01/08/91	1186.85
MP30-C	08/19/85	1190.70
MP30-C	09/27/85	1190.30
MP30-C	11/04/85	1190.53
MP30-C	12/02/85	1190.57
MP30-C	01/06/86	1190.09
MP30-C	02/04/86	1189.75
MP30-C	03/03/86	1189.53
MP30-C	03/31/86	1189.21
MP30-C	06/02/86	1189.19
MP30-C	09/09/86	1189.55
MP30-C	09/13/88	1187.87
MP30-C	01/11/89	1188.62
MP30-C	11/14/89	1187.67
MP30-C	10/24/90	1187.47
MP30-C	01/08/91	1186.87
MP30-C	07/03/91	1185.16
MP30-D	08/19/85	1191.20
MP30-D	09/27/85	1190.80
MP30-D	11/04/85	1191.08
MP30-D	12/02/85	1190.93
MP30-D	01/06/86	1190.50
MP30-D	02/04/86	1190.38
MP30-D	03/03/86	1190.29
MP30-D	03/31/86	1188.23
MP30-D	06/02/86	1189.01
MP30-D	09/09/86	1190.01
MP30-D	09/13/88	1188.88
MP30-D	01/11/89	1188.68
MP30-D	11/14/89	1188.11
MP30-D	10/24/90	1187.79
MP30-D	01/08/91	1187.58
MP36-A	08/19/85	1189.60
MP36-A	09/27/85	1189.30
MP36-A	11/04/85	1189.47
MP36-A	12/02/85	1189.36
MP36-A	01/06/86	1188.96
MP36-A	02/04/86	1188.66
MP36-A	03/03/86	1188.48
MP36-A	03/31/86	1188.45
MP36-A	05/21/87	1187.03
MP36-A	11/30/87	1187.82
MP36-A	09/12/88	1187.65
MP36-A	01/10/89	1187.18
MP36-A	11/14/89	1186.59
MP36-A	10/24/90	1186.42
MP36-A	01/08/91	1185.69
MP36-A	07/03/91	1183.76
MP36-A	07/08/91	1183.79
MP36-B	08/19/85	1189.60
MP36-B	09/27/85	1189.20
MP36-B	11/04/85	1189.48
MP36-B	12/02/85	1189.38
MP36-B	01/06/86	1188.99
MP36-B	02/04/86	1188.67
MP36-B	03/03/86	1188.51
MP36-B	03/31/86	1188.47
MP36-B	06/02/86	1188.25
MP36-B	08/26/86	1188.76
MP36-B	08/27/86	1188.75
MP36-B	09/02/86	1188.78
MP36-B	09/03/86	1188.86

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP36-B	09/04/86	1188.93
MP36-B	09/08/86	1188.95
MP36-B	09/09/86	1189.00
MP36-B	09/11/86	1189.75
MP36-B	09/12/86	1189.75
MP36-B	09/16/86	1189.68
MP36-B	09/17/86	1189.65
MP36-B	09/19/86	1189.64
MP36-B	09/22/86	1189.62
MP36-B	09/23/86	1189.61
MP36-B	09/24/86	1189.57
MP36-B	09/25/86	1189.51
MP36-B	09/26/86	1189.47
MP36-B	09/30/86	1189.45
MP36-B	10/01/86	1189.46
MP36-B	10/02/86	1189.62
MP36-B	10/06/86	1189.69
MP36-B	10/07/86	1189.61
MP36-B	10/08/86	1189.55
MP36-B	10/09/86	1189.51
MP36-B	10/13/86	1189.49
MP36-B	10/14/86	1189.42
MP36-B	10/15/86	1189.50
MP36-B	10/16/86	1189.55
MP36-B	10/17/86	1189.51
MP36-B	10/20/86	1189.62
MP36-B	10/22/86	1189.54
MP36-B	10/23/86	1189.47
MP36-B	10/24/86	1189.42
MP36-B	11/05/86	1189.37
MP36-B	11/07/86	1189.34
MP36-B	11/10/86	1189.40
MP36-B	11/11/86	1189.34
MP36-B	11/12/86	1189.30
MP36-B	11/13/86	1189.30
MP36-B	11/14/86	1189.31
MP36-B	11/17/86	1189.49
MP36-B	11/18/86	1189.43
MP36-B	11/19/86	1189.38
MP36-B	11/20/86	1189.35
MP36-B	11/21/86	1189.34
MP36-B	11/24/86	1189.28
MP36-B	11/25/86	1189.30
MP36-B	12/02/86	1189.15
MP36-B	12/03/86	1189.07
MP36-B	12/04/86	1189.02
MP36-B	12/05/86	1188.96
MP36-B	12/15/86	1188.90
MP36-B	05/21/87	1187.10
MP36-B	11/30/87	1187.95
MP36-B	09/12/88	1187.73
MP36-B	01/10/89	1187.19
MP36-B	11/14/89	1186.62
MP36-B	10/24/90	1186.54
MP36-B	01/08/91	1185.72
MP36-B	07/03/91	1187.76
MP36-B	09/17/91	1183.30
MP36-C	08/19/85	1189.40
MP36-C	09/27/85	1189.00
MP36-C	11/04/85	1189.28
MP36-C	12/02/85	1189.00
MP36-C	01/06/86	1188.76
MP36-C	02/04/86	1188.49
MP36-C	03/03/86	1188.34

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP36-C	03/31/86	1188.16
MP36-C	06/02/86	1188.05
MP36-C	05/21/87	1186.77
MP36-C	11/30/87	1188.63
MP36-C	09/12/88	1187.24
MP36-C	01/10/89	1187.06
MP36-C	11/14/89	1186.31
MP36-C	10/24/90	1186.17
MP36-C	01/08/91	1185.66
MP36-C	07/03/91	1187.57
MP36-C	11/19/91	1183.47
MP36-D	08/19/85	1189.40
MP36-D	09/27/85	1189.20
MP36-D	11/04/85	1189.26
MP36-D	12/02/85	1189.21
MP36-D	01/06/86	1188.84
MP36-D	02/04/86	1189.69
MP36-D	03/03/86	1188.29
MP36-D	03/31/86	1188.15
MP36-D	06/02/86	1187.97
MP36-D	05/21/87	1187.30
MP36-D	11/30/87	1187.75
MP36-D	09/12/88	1187.25
MP36-D	01/10/89	1187.01
MP36-D	11/14/89	1186.38
MP36-D	10/24/90	1186.03
MP36-D	01/08/91	1185.45
MP36-D	07/03/91	1187.56
MP36-D	07/08/91	1183.51
MP36-D	09/17/91	1183.40
MP36-D	11/19/91	1182.99
MP37-A	08/20/85	1173.60
MP37-A	09/27/85	1173.50
MP37-A	11/05/85	1174.07
MP37-A	12/03/85	1175.96
MP37-A	01/06/86	1176.84
MP37-A	02/04/86	1177.60
MP37-A	03/03/86	1177.96
MP37-A	03/31/86	1180.42
MP37-A	06/02/86	1180.50
MP37-A	07/03/91	1184.62
MP37-B	08/20/85	1152.50
MP37-B	09/27/85	1155.10
MP37-B	11/05/85	1158.26
MP37-B	12/03/85	1159.97
MP37-B	01/06/86	1160.89
MP37-B	02/04/86	1161.51
MP37-B	03/03/86	1164.05
MP37-B	03/31/86	1164.84
MP37-B	06/02/86	1166.19
MP37-B	07/03/91	1176.56
MP37-B	09/18/91	1176.66
MP37-C	08/20/85	1190.80
MP37-C	09/27/85	1189.80
MP37-C	11/05/85	1190.35
MP37-C	12/03/85	1190.87
MP37-C	01/06/86	1190.22
MP37-C	02/04/86	1190.20
MP37-C	03/03/86	1190.04
MP37-C	03/31/86	1189.30
MP37-C	06/02/86	1189.50
MP37-C	07/03/91	1185.07
MP37-C	09/18/91	1182.35
MP37-C	11/22/91	1184.78

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP38-D	09/27/85	1007.20
MP38-D	11/05/85	1020.03
MP38-D	12/03/85	1131.23
MP38-D	07/03/91	1181.84
MP38-D	09/19/91	1182.54
MP48-B	09/09/86	1166.77
MP48-C	08/19/85	1169.30
MP48-C	09/27/85	1169.20
MP48-C	09/30/85	1169.40
MP48-C	11/04/85	1169.53
MP48-C	12/02/85	1169.38
MP48-C	01/06/86	1165.36
MP48-C	02/04/86	1168.31
MP48-C	03/03/86	1168.12
MP48-C	03/31/86	1167.45
MP48-C	06/02/86	1167.81
MP48-C	09/09/86	1168.28
MP48-C	09/12/88	1166.92
MP48-C	01/10/89	1166.74
MP48-C	11/13/89	1166.86
MP48-D	08/19/85	1168.30
MP48-D	09/27/85	1168.30
MP48-D	09/30/85	1168.60
MP48-D	11/04/85	1168.69
MP48-D	12/02/85	1169.66
MP48-D	01/06/86	1168.08
MP48-D	02/04/86	1167.61
MP48-D	03/03/86	1167.15
MP48-D	03/31/86	1167.01
MP48-D	06/02/86	1167.97
MP48-D	09/09/86	1167.52
MP48-D	09/12/88	1166.08
MP48-D	01/10/89	1166.04
MP48-D	11/13/89	1165.86
MP48-E	08/19/85	1168.00
MP48-E	09/27/85	1167.70
MP48-E	09/30/85	1168.20
MP48-E	11/04/85	1168.17
MP48-E	12/02/85	1167.91
MP48-E	01/06/86	1167.32
MP48-E	02/04/86	1167.15
MP48-E	03/03/86	1166.71
MP48-E	03/31/86	1166.28
MP48-E	06/02/86	1166.48
MP48-E	09/09/86	1166.78
MP48-E	09/12/88	1165.31
MP48-E	01/10/89	1165.51
MP48-E	11/13/89	1165.06
MP49-A	08/20/85	1159.20
MP49-A	09/27/85	1159.40
MP49-A	09/30/85	1159.50
MP49-A	11/04/85	1159.31
MP49-A	12/02/85	1159.37
MP49-A	01/06/86	1158.93
MP49-A	02/04/86	1158.60
MP49-A	03/03/86	1158.83
MP49-A	03/31/86	1158.71
MP49-A	06/02/86	1157.82
MP49-A	09/09/86	1159.10
MP49-A	09/12/88	1158.15
MP49-A	01/10/89	1157.51
MP49-A	11/13/89	1157.63
MP49-A	06/25/90	1156.08
MP49-A	07/12/90	1156.10

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP49-B	08/20/85	1159.10
MP49-B	09/27/85	1159.30
MP49-B	09/30/85	1159.30
MP49-B	11/04/85	1159.23
MP49-B	12/02/85	1159.28
MP49-B	01/06/86	1158.81
MP49-B	02/04/86	1158.47
MP49-B	03/03/86	1158.69
MP49-B	03/31/86	1158.58
MP49-B	06/02/86	1157.72
MP49-B	09/09/86	1159.07
MP49-B	05/22/87	1156.88
MP49-B	11/19/87	1158.31
MP49-B	09/12/88	1158.27
MP49-B	01/10/89	1157.39
MP49-B	11/13/89	1157.51
MP49-B	06/25/90	1156.01
MP49-B	07/12/90	1155.96
MP49-C	08/20/85	1159.30
MP49-C	09/27/85	1159.70
MP49-C	09/30/85	1159.60
MP49-C	11/04/85	1159.66
MP49-C	12/02/85	1159.66
MP49-C	01/06/86	1159.28
MP49-C	02/04/86	1158.98
MP49-C	03/03/86	1158.75
MP49-C	03/31/86	1158.76
MP49-C	06/02/86	1158.05
MP49-C	09/09/86	1159.21
MP49-C	05/22/87	1157.41
MP49-C	11/19/87	1158.42
MP49-C	09/12/88	1158.20
MP49-C	01/10/89	1157.77
MP49-C	11/13/89	1157.46
MP49-C	06/25/90	1156.37
MP49-C	07/12/90	1151.42
MP49-D	08/20/85	1156.50
MP49-D	09/27/85	1156.80
MP49-D	09/30/85	1156.90
MP49-D	11/04/85	1156.85
MP49-D	12/02/85	1156.90
MP49-D	01/06/86	1156.36
MP49-D	02/04/86	1156.11
MP49-D	03/03/86	1155.78
MP49-D	03/31/86	1155.79
MP49-D	06/02/86	1155.23
MP49-D	09/09/86	1155.92
MP49-D	09/12/88	1154.82
MP49-D	01/10/89	1154.90
MP49-D	11/13/89	1154.31
MP49-D	06/25/90	1153.41
MP49-D	07/12/90	1152.92
MP50-A	08/20/85	1150.20
MP50-A	09/27/85	1150.30
MP50-A	09/30/85	1150.40
MP50-A	11/04/85	1150.26
MP50-A	12/02/85	1150.23
MP50-A	01/06/86	1149.67
MP50-A	02/04/86	1149.37
MP50-A	03/03/86	1149.30
MP50-A	03/31/86	1149.13
MP50-A	06/02/86	1148.61
MP50-A	09/09/86	1149.51
MP50-A	09/12/88	1149.11

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP50-A	01/10/89	1148.20
MP50-A	11/13/89	1147.80
MP50-B	08/20/85	1150.10
MP50-B	09/27/85	1150.30
MP50-B	09/30/85	1150.40
MP50-B	11/04/85	1150.26
MP50-B	12/02/85	1150.20
MP50-B	01/06/86	1149.66
MP50-B	02/04/86	1149.29
MP50-B	03/03/86	1149.27
MP50-B	03/31/86	1149.08
MP50-B	06/02/86	1148.66
MP50-B	09/09/86	1149.49
MP50-B	09/12/88	1148.43
MP50-B	01/10/89	1148.17
MP50-B	11/13/89	1147.79
MP50-C	08/20/85	1135.00
MP50-C	09/27/85	1148.00
MP50-C	09/30/85	1148.40
MP50-C	11/04/85	1149.81
MP50-C	12/02/85	1150.12
MP50-C	01/06/86	1150.06
MP50-C	02/04/86	1149.83
MP50-C	03/03/86	1149.68
MP50-C	03/31/86	1149.54
MP50-C	06/02/86	1149.17
MP50-D	08/20/85	1149.70
MP50-D	09/27/85	1152.30
MP50-D	09/30/85	1149.90
MP50-D	11/04/85	1149.90
MP50-D	12/02/85	1149.79
MP50-D	01/06/86	1149.26
MP50-D	02/04/86	1148.92
MP50-D	03/03/86	1148.79
MP50-D	03/31/86	1148.66
MP50-D	06/02/86	1148.17
MP50-D	09/09/86	1149.00
MP50-D	09/12/88	1147.78
MP50-D	01/10/89	1147.71
MP50-D	11/13/89	1147.13
MP51-A	08/20/85	1145.00
MP51-A	09/27/85	1145.20
MP51-A	09/30/85	1145.20
MP51-A	11/04/85	1145.15
MP51-A	12/02/85	1144.82
MP51-A	01/06/86	1144.26
MP51-A	02/04/86	1143.92
MP51-A	03/03/86	1143.85
MP51-A	03/31/86	1143.72
MP51-A	06/02/86	1143.26
MP51-A	09/09/86	1144.26
MP51-A	09/12/88	1142.97
MP51-A	01/10/89	1142.60
MP51-A	11/13/89	1142.01
MP51-B	08/20/85	1144.90
MP51-B	09/27/85	1145.10
MP51-B	09/30/85	1145.10
MP51-B	11/04/85	1145.11
MP51-B	12/02/85	1144.72
MP51-B	01/06/86	1144.23
MP51-B	02/04/86	1143.86
MP51-B	03/03/86	1143.79
MP51-B	03/31/86	1143.63
MP51-B	06/02/86	1143.24

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP51-B	09/09/86	1147.86
MP51-B	05/20/87	1141.91
MP51-B	11/18/87	1143.85
MP51-B	09/12/88	1142.88
MP51-B	01/10/89	1142.52
MP51-B	11/13/89	1142.01
MP51-C	08/20/85	1145.10
MP51-C	09/27/85	1145.20
MP51-C	09/30/85	1145.20
MP51-C	11/04/85	1145.22
MP51-C	12/02/85	1144.88
MP51-C	01/06/86	1144.36
MP51-C	02/04/86	1144.02
MP51-C	03/03/86	1143.92
MP51-C	03/31/86	1143.78
MP51-C	06/02/86	1143.32
MP51-C	09/09/86	1147.90
MP51-C	11/18/87	1144.40
MP51-C	09/12/88	1142.96
MP51-C	01/10/89	1142.57
MP51-C	11/13/89	1142.11
MP51-D	08/20/85	1146.20
MP51-D	09/27/85	1146.40
MP51-D	09/30/85	1146.40
MP51-D	11/04/85	1146.42
MP51-D	12/02/85	1146.14
MP51-D	01/06/86	1145.62
MP51-D	02/04/86	1145.28
MP51-D	03/03/86	1145.11
MP51-D	03/31/86	1144.98
MP51-D	06/02/86	1144.51
MP51-D	09/09/86	1149.11
MP51-D	09/12/88	1143.81
MP51-D	01/10/89	1143.74
MP51-D	11/13/89	1143.02
MP52-A	08/19/85	1142.00
MP52-A	09/27/85	1142.00
MP52-A	09/30/85	1142.10
MP52-A	11/04/85	1142.92
MP52-A	12/02/85	1143.69
MP52-A	01/06/86	1143.33
MP52-A	02/04/86	1142.60
MP52-A	03/03/86	1142.69
MP52-A	03/31/86	1143.74
MP52-A	06/02/86	1142.66
MP52-A	09/09/86	1144.46
MP52-B	08/19/85	1142.00
MP52-B	09/27/85	1142.20
MP52-B	09/30/85	1142.20
MP52-B	11/04/85	1142.15
MP52-B	12/02/85	1141.73
MP52-B	01/06/86	1141.20
MP52-B	02/04/86	1140.91
MP52-B	03/03/86	1140.86
MP52-B	03/31/86	1140.66
MP52-B	06/02/86	1140.26
MP52-B	09/09/86	1140.51
MP52-B	05/26/87	1138.62
MP52-B	11/18/87	1139.97
MP52-B	09/12/88	1138.85
MP52-B	01/10/89	1138.76
MP52-B	11/13/89	1137.75
MP52-C	08/19/85	1141.10
MP52-C	09/27/85	1141.30

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP52-C	09/30/85	1141.20
MP52-C	11/04/85	1141.35
MP52-C	12/02/85	1141.15
MP52-C	01/06/86	1140.45
MP52-C	02/04/86	1140.20
MP52-C	03/03/86	1139.91
MP52-C	03/31/86	1140.82
MP52-C	06/02/86	1139.30
MP52-C	09/09/86	1139.64
MP52-C	09/12/88	1137.84
MP52-C	01/10/89	1138.05
MP52-C	11/13/89	1136.83
MP52-D	08/19/85	965.50
MP52-D	09/27/85	1059.80
MP52-D	09/30/85	1072.70
MP52-D	11/04/85	1131.52
MP52-D	12/02/85	1140.55
MP52-D	01/06/86	1139.58
MP52-D	02/04/86	1139.45
MP52-D	03/03/86	1139.45
MP52-D	03/31/86	1139.37
MP52-D	06/02/86	1139.11
MP52-D	09/09/86	1138.92
MP53-A	08/19/85	1153.20
MP53-A	09/27/85	1154.10
MP53-A	09/30/85	1154.00
MP53-A	11/05/85	1154.58
MP53-A	12/02/85	1154.71
MP53-A	01/06/86	1154.76
MP53-A	02/04/86	1154.70
MP53-A	03/03/86	1154.67
MP53-A	03/31/86	1154.52
MP53-A	06/02/86	1154.32
MP53-A	09/09/86	1154.02
MP53-B	08/19/85	1155.30
MP53-B	09/27/85	1155.30
MP53-B	09/30/85	1155.00
MP53-B	11/05/85	1155.08
MP53-B	12/02/85	1154.81
MP53-B	01/06/86	1154.69
MP53-B	02/04/86	1154.43
MP53-B	03/03/86	1154.13
MP53-B	03/31/86	1154.00
MP53-B	06/02/86	1153.76
MP53-B	09/09/86	1153.79
MP53-B	05/20/87	1151.90
MP53-B	11/17/87	1152.12
MP53-B	09/12/88	1150.30
MP53-B	01/10/89	1150.80
MP53-B	11/13/89	1152.01
MP53-C	08/19/85	1156.20
MP53-C	09/27/85	1156.20
MP53-C	09/30/85	1155.90
MP53-C	11/05/85	1155.95
MP53-C	12/02/85	1155.73
MP53-C	01/06/86	1155.51
MP53-C	02/04/86	1155.28
MP53-C	03/03/86	1155.23
MP53-C	03/31/86	1154.92
MP53-C	06/02/86	1154.61
MP53-C	09/09/86	1154.67
MP53-C	05/20/87	1152.85
MP53-C	11/17/87	1152.75
MP53-C	09/12/88	1151.15

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
MP53-C	01/10/89	1151.85
MP53-C	11/13/89	1150.63
MP53-D	08/19/85	1157.50
MP53-D	09/27/85	1157.50
MP53-D	09/30/85	1157.30
MP53-D	11/05/85	1157.27
MP53-D	12/02/85	1157.14
MP53-D	01/06/86	1157.04
MP53-D	02/04/86	1156.90
MP53-D	03/03/86	1156.55
MP53-D	03/31/86	1156.35
MP53-D	06/02/86	1156.10
MP53-D	09/09/86	1156.10
MP53-D	09/12/88	1152.63
MP53-D	01/10/89	1153.25
MP53-D	11/13/89	1149.60
PZ01	08/21/85	1188.70
PZ01	09/27/85	1188.60
PZ01	11/04/85	1188.48
PZ01	12/02/85	1188.38
PZ01	01/07/86	1188.28
PZ01	02/04/86	1188.04
PZ01	03/03/86	1187.78
PZ01	03/31/86	1187.69
PZ01	06/02/86	1187.98
PZ01	09/13/88	1188.77
PZ01	01/10/89	1185.86
PZ01	11/14/89	1185.42
PZ02	08/21/85	1189.00
PZ02	09/27/85	1189.00
PZ02	11/04/85	1188.92
PZ02	12/02/85	1188.78
PZ02	01/07/86	1188.54
PZ02	02/04/86	1188.40
PZ02	03/03/86	1188.09
PZ02	03/31/86	1187.99
PZ02	06/02/86	1188.18
PZ02	09/12/88	1189.27
PZ02	01/10/89	1186.40
PZ02	11/14/89	1185.70
PZ03	08/21/85	1189.00
PZ03	09/27/85	1189.00
PZ03	11/04/85	1188.90
PZ03	12/02/85	1188.77
PZ03	01/07/86	1188.51
PZ03	02/04/86	1188.42
PZ03	03/03/86	1188.06
PZ03	03/31/86	1187.97
PZ03	06/02/86	1188.12
PZ03	09/12/88	1189.26
PZ04	08/21/85	1189.60
PZ04	09/27/85	1189.50
PZ04	11/04/85	1189.53
PZ04	12/02/85	1189.34
PZ04	01/07/86	1188.90
PZ04	02/04/86	1188.76
PZ04	03/03/86	1188.61
PZ04	03/31/86	1188.48
PZ04	06/02/86	1188.55
PZ04	08/26/86	1188.74
PZ04	08/27/86	1188.72
PZ04	08/28/86	1188.75
PZ04	09/02/86	1188.73
PZ04	09/03/86	1188.78

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
PZ04	09/04/86	1188.86
PZ04	09/08/86	1188.90
PZ04	09/09/86	1188.95
PZ04	09/11/86	1189.31
PZ04	09/12/86	1189.50
PZ04	09/16/86	1189.41
PZ04	09/17/86	1189.59
PZ04	09/18/86	1189.35
PZ04	09/19/86	1189.34
PZ04	09/22/86	1189.35
PZ04	09/23/86	1189.36
PZ04	09/25/86	1189.20
PZ04	09/26/86	1189.19
PZ04	09/30/86	1189.18
PZ04	10/01/86	1189.21
PZ04	10/02/86	1189.27
PZ04	10/06/86	1189.39
PZ04	10/07/86	1189.33
PZ04	10/08/86	1189.29
PZ04	10/09/86	1189.22
PZ04	10/13/86	1189.25
PZ04	10/14/86	1189.13
PZ04	10/15/86	1189.21
PZ04	10/16/86	1189.25
PZ04	10/17/86	1189.18
PZ04	10/20/86	1189.35
PZ04	10/22/86	1189.27
PZ04	10/23/86	1189.18
PZ04	10/24/86	1189.11
PZ04	10/27/86	1188.96
PZ04	10/28/86	1188.80
PZ04	10/29/86	1188.70
PZ04	10/30/86	1188.64
PZ04	10/31/86	1188.65
PZ04	11/05/86	1189.02
PZ04	11/07/86	1189.01
PZ04	11/10/86	1189.07
PZ04	11/11/86	1188.98
PZ04	11/12/86	1188.96
PZ04	11/13/86	1188.94
PZ04	11/14/86	1188.93
PZ04	11/17/86	1189.13
PZ04	11/18/86	1189.08
PZ04	11/19/86	1189.05
PZ04	11/20/86	1189.00
PZ04	11/21/86	1189.00
PZ04	11/23/86	1188.98
PZ04	11/24/86	1188.95
PZ04	12/02/86	1188.84
PZ04	12/03/86	1188.76
PZ04	12/04/86	1188.90
PZ04	12/05/86	1188.90
PZ04	12/15/86	1188.48
PZ04	09/12/88	1188.95
PZ04	01/10/89	1187.07
PZ04	11/14/89	1186.38
PZ05	08/21/85	1189.60
PZ05	09/27/85	1189.40
PZ05	11/04/85	1189.44
PZ05	12/02/85	1189.26
PZ05	01/07/86	1188.82
PZ05	02/04/86	1188.65
PZ05	03/03/86	1188.51
PZ05	03/31/86	1188.28

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
PZ05	06/02/86	1188.54
PZ05	09/12/88	1188.94
PZ05	01/10/89	1187.06
PZ05	11/14/89	1186.24
PZ06	08/21/85	1189.50
PZ06	09/27/85	1189.50
PZ06	11/04/85	1189.48
PZ06	12/02/85	1189.26
PZ06	01/07/86	1188.79
PZ06	02/04/86	1188.62
PZ06	03/03/86	1188.53
PZ06	03/31/86	1188.35
PZ06	06/02/86	1188.34
PZ06	08/26/86	1188.75
PZ06	08/27/86	1188.72
PZ06	08/28/86	1188.74
PZ06	09/02/86	1188.73
PZ06	09/03/86	1188.86
PZ06	09/04/86	1188.91
PZ06	09/08/86	1188.93
PZ06	09/09/86	1188.98
PZ06	09/11/86	1189.62
PZ06	09/12/86	1189.59
PZ06	09/16/86	1189.48
PZ06	09/17/86	1189.48
PZ06	09/12/88	1187.96
PZ06	01/10/89	1187.14
PZ06	11/14/89	1187.59
PZ07	08/21/85	1189.50
PZ07	09/27/85	1189.40
PZ07	11/04/85	1189.41
PZ07	12/02/85	1189.23
PZ07	01/07/86	1188.73
PZ07	02/04/86	1188.54
PZ07	03/03/86	1188.44
PZ07	03/31/86	1188.30
PZ07	06/02/86	1188.23
PZ07	08/26/86	1188.69
PZ07	08/27/86	1188.66
PZ07	08/28/86	1188.65
PZ07	09/02/86	1188.68
PZ07	09/03/86	1188.79
PZ07	09/04/86	1188.87
PZ07	09/08/86	1188.90
PZ07	09/09/86	1188.92
PZ07	09/11/86	1189.60
PZ07	09/12/86	1189.60
PZ07	09/16/86	1189.50
PZ07	09/17/86	1189.48
PZ07	09/12/88	1187.81
PZ07	01/10/89	1187.12
PZ07	11/14/89	1187.59
PZ08	08/21/85	1188.90
PZ08	09/27/85	1188.60
PZ08	11/04/85	1189.08
PZ08	12/02/85	1188.94
PZ08	01/07/86	1188.12
PZ08	02/04/86	1187.75
PZ08	03/03/86	1187.53
PZ08	03/31/86	1188.01
PZ08	06/02/86	1188.11
PZ08	09/13/88	1192.28
PZ09	08/21/85	1189.70
PZ09	09/27/85	1189.60

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

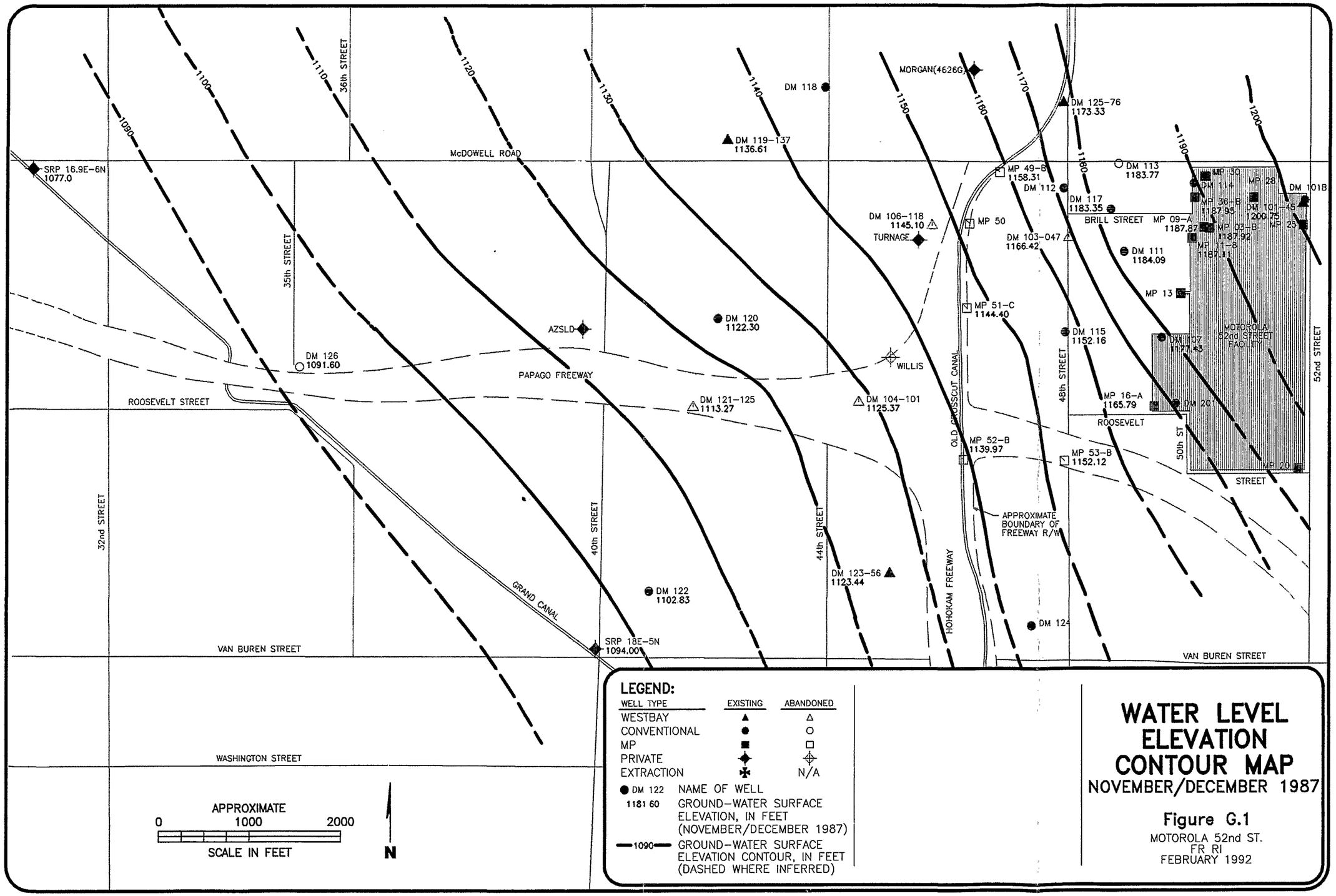
WELL	DATE	WATER ELEVATION
PZ09	11/05/85	1189.60
PZ09	12/02/85	1189.42
PZ09	01/07/86	1188.95
PZ09	02/04/86	1188.79
PZ09	03/03/86	1188.62
PZ09	03/31/86	1188.52
PZ09	06/02/86	1188.49
PZ09	09/12/88	1188.22
PZ09	01/10/89	1187.56
PZ09	11/14/89	1187.68
PZ10	08/01/85	1190.00
PZ10	08/02/85	1190.00
PZ10	08/03/85	1190.00
PZ10	08/04/85	1189.98
PZ10	08/05/85	1189.66
PZ10	08/06/85	1189.42
PZ10	08/07/85	1189.34
PZ10	08/08/85	1189.59
PZ10	08/09/85	1189.68
PZ10	08/10/85	1189.77
PZ10	08/11/85	1189.81
PZ10	08/12/85	1189.83
PZ10	08/13/85	1189.83
PZ10	08/14/85	1189.83
PZ10	08/15/85	1189.85
PZ10	08/16/85	1189.85
PZ10	08/17/85	1189.83
PZ10	08/18/85	1189.82
PZ10	08/19/85	1189.82
PZ10	08/20/85	1189.78
PZ10	08/21/85	1189.77
PZ10	08/22/85	1189.77
PZ10	08/23/85	1189.77
PZ10	08/24/85	1189.76
PZ10	08/25/85	1189.76
PZ10	08/26/85	1189.75
PZ10	08/27/85	1189.74
PZ10	08/28/85	1189.76
PZ10	08/29/85	1189.76
PZ10	08/30/85	1189.75
PZ10	08/31/85	1189.75
PZ10	09/01/85	1189.73
PZ10	09/02/85	1189.76
PZ10	09/03/85	1189.76
PZ10	09/04/85	1189.74
PZ10	09/05/85	1189.73
PZ10	09/06/85	1189.73
PZ10	09/07/85	1189.71
PZ10	09/08/85	1189.72
PZ10	09/09/85	1189.72
PZ10	09/10/85	1189.68
PZ10	09/11/85	1189.69
PZ10	09/12/85	1189.67
PZ10	09/13/85	1189.68
PZ10	09/14/85	1189.70
PZ10	09/15/85	1189.71
PZ10	09/16/85	1189.71
PZ10	09/17/85	1189.72
PZ10	09/18/85	1189.72
PZ10	09/19/85	1189.71
PZ10	09/20/85	1189.70
PZ10	09/21/85	1189.74
PZ10	09/22/85	1189.76
PZ10	09/23/85	1189.72

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
PZ10	09/24/85	1189.72
PZ10	09/25/85	1189.71
PZ10	09/26/85	1189.69
PZ10	01/28/86	1188.98
PZ10	01/31/86	1189.00
PZ10	02/02/86	1189.01
PZ10	02/03/86	1189.03
PZ10	02/04/86	1189.02
PZ10	02/05/86	1189.01
PZ10	02/06/86	1189.01
PZ10	02/07/86	1189.00
PZ10	02/08/86	1189.00
PZ10	02/09/86	1189.01
PZ10	02/10/86	1188.98
PZ10	02/11/86	1188.99
PZ10	02/12/86	1189.00
PZ10	02/13/86	1189.01
PZ10	02/14/86	1189.01
PZ10	02/15/86	1189.01
PZ10	02/16/86	1189.00
PZ10	02/17/86	1189.01
PZ10	02/18/86	1189.00
PZ10	02/19/86	1189.03
PZ10	02/20/86	1189.03
PZ10	02/21/86	1189.03
PZ10	02/22/86	1189.03
PZ10	02/23/86	1189.03
PZ10	02/24/86	1189.02
PZ10	02/25/86	1189.01
PZ10	02/26/86	1189.01
PZ10	02/27/86	1189.00
SW-1	08/20/85	1190.50
SW-1	09/27/85	1190.40
SW-1	11/05/85	1190.26
SW-1	12/03/85	1190.08
SW-1	01/07/86	1189.12
SW-1	02/04/86	1189.57
SW-1	03/03/86	1189.45
SW-1	03/31/86	1189.41
SW-1	06/02/86	1189.14
SW-1	09/16/86	1190.12
SW-1	09/17/86	1190.11
SW-1	09/19/86	1190.03
SW-1	09/22/86	1190.09
SW-1	09/23/86	1190.02
SW-1	09/25/86	1189.73
SW-1	09/26/86	1189.71
SW-1	09/29/86	1189.98
SW-1	09/30/86	1189.85
SW-1	10/01/86	1189.87
SW-1	10/02/86	1189.76
SW-1	10/06/86	1190.04
SW-1	10/07/86	1189.93
SW-1	10/08/86	1189.87
SW-1	10/09/86	1189.80
SW-1	10/10/86	1189.60
SW-1	10/13/86	1189.92
SW-1	10/14/86	1189.71
SW-1	10/15/86	1189.79
SW-1	10/16/86	1189.82
SW-1	10/17/86	1189.80
SW-1	10/20/86	1189.93
SW-1	10/21/86	1189.82
SW-1	10/22/86	1189.85

TABLE G.1
GROUND WATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

WELL	DATE	WATER ELEVATION
SW-1	10/23/86	1189.75
SW-1	10/24/86	1189.70
SW-1	11/05/86	1189.69
SW-1	11/06/86	1189.74
SW-1	11/07/86	1189.69
SW-1	11/10/86	1189.82
SW-1	11/11/86	1189.70
SW-1	11/12/86	1189.71
SW-1	11/13/86	1189.66
SW-1	11/14/86	1189.62
SW-1	11/17/86	1189.85
SW-1	11/18/86	1189.77
SW-1	11/19/86	1189.72
SW-1	11/20/86	1189.69
SW-1	11/21/86	1189.68
SW-1	11/23/86	1189.67
SW-1	11/24/86	1189.63
SW-1	11/25/86	1189.67
SW-1	12/02/86	1189.60
SW-1	12/03/86	1189.47
SW-1	12/04/86	1189.43
SW-1	12/05/86	1189.42
SW-1	12/15/86	1189.37
WILLIS	06/03/86	1148.33
WILLIS	12/11/89	1141.40
WILLIS	06/20/90	1145.40



LEGEND:

WELL TYPE	EXISTING	ABANDONED
WESTBAY	▲	△
CONVENTIONAL	●	○
MP	■	□
PRIVATE	◆	◇
EXTRACTION	✱	N/A

● DM 122 — NAME OF WELL

1181 60 — GROUND-WATER SURFACE ELEVATION, IN FEET (NOVEMBER/DECEMBER 1987)

—1090— GROUND-WATER SURFACE ELEVATION CONTOUR, IN FEET (DASHED WHERE INFERRED)

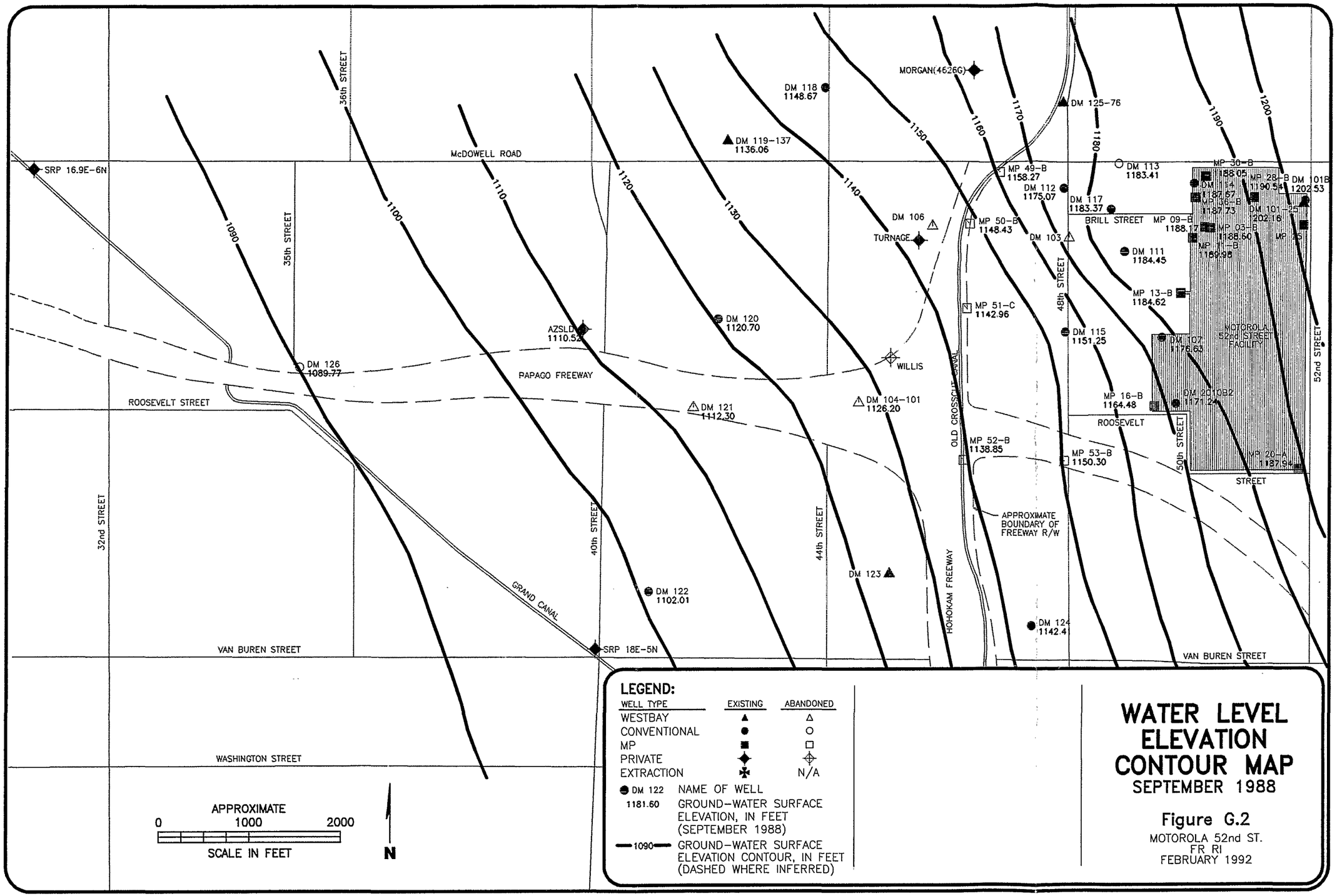
APPROXIMATE
0 1000 2000
SCALE IN FEET

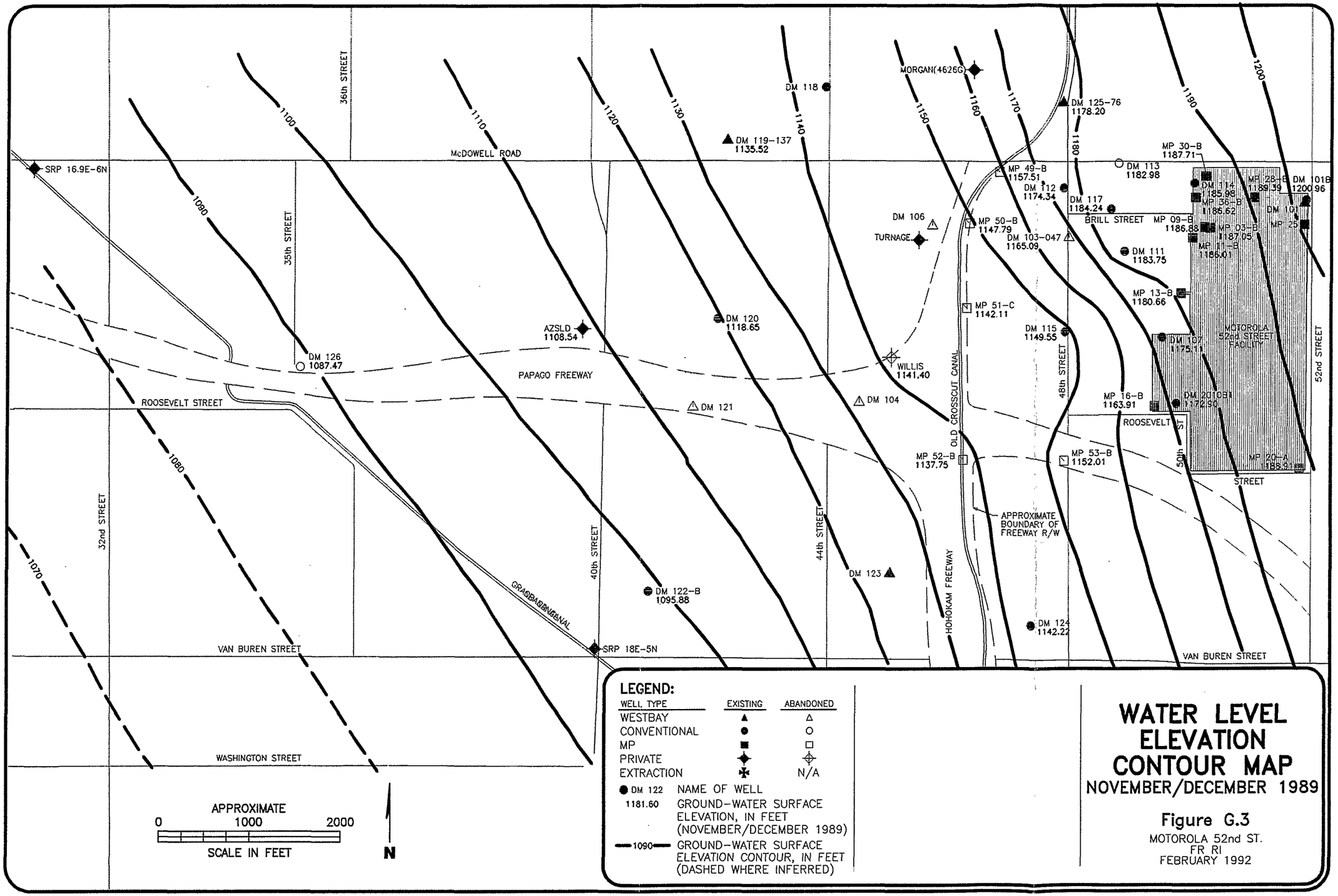
N

WATER LEVEL ELEVATION CONTOUR MAP
NOVEMBER/DECEMBER 1987

Figure G.1

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

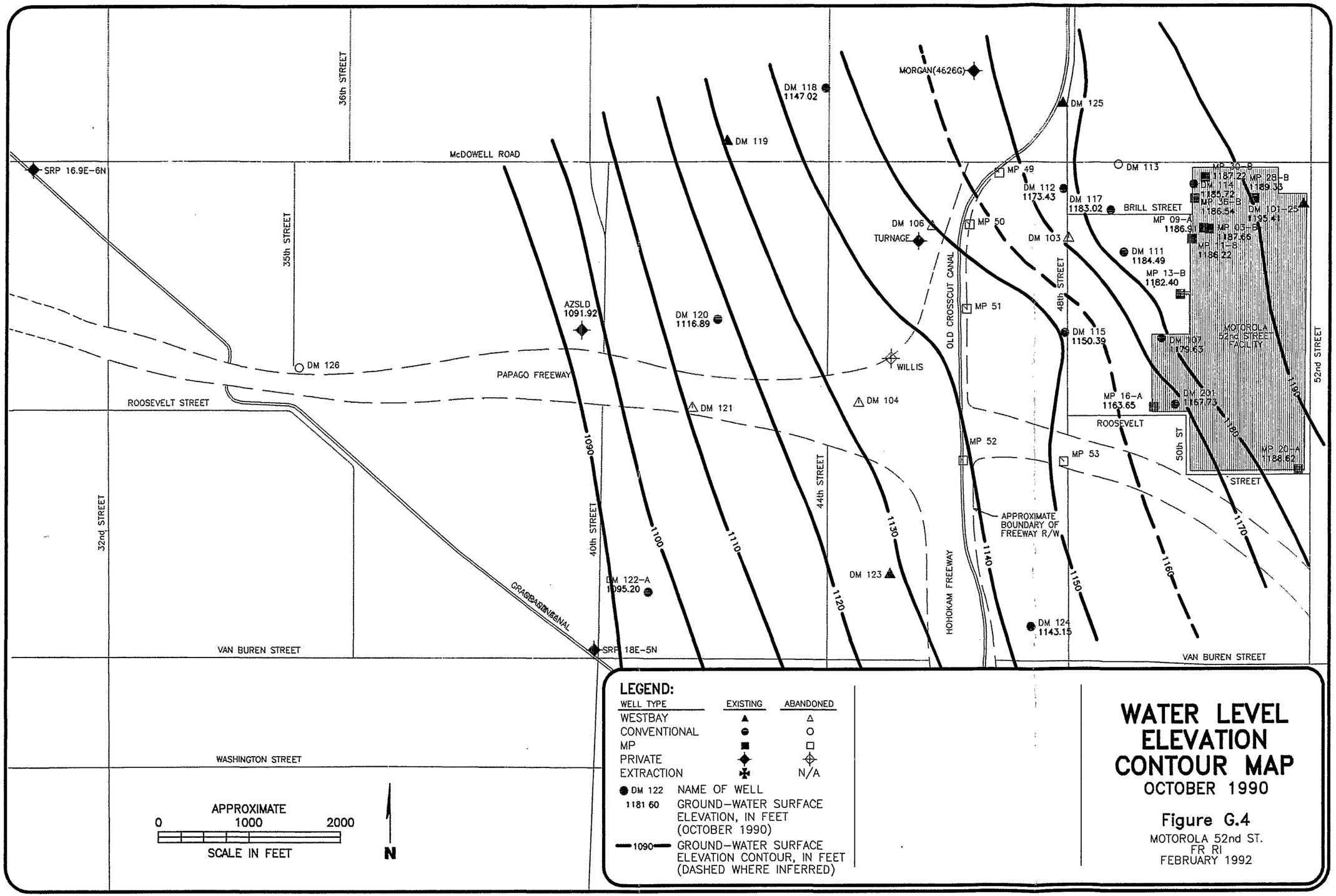

McDOWELL ROAD
ROOSEVELT STREET
VAN BUREN STREET
WASHINGTON STREET
32nd STREET
35th STREET
36th STREET
40th STREET
44th STREET
48th STREET
50th STREET
52nd STREET
BRILL STREET
ROOSEVELT
STREET
PAPAGO FREEWAY
GRAND CANAL
OLD CROSSCUT CANAL
HOHOKAM FREEWAY
APPROXIMATE BOUNDARY OF FREEWAY R/W
MOTOROLA 52nd STREET FACILITY
SRP 16.9E-6N
SRP 18E-5N
AZSLD 1110.52
TURNAGE
WILLIS
MORGAN(4626G)
DM 118 1148.67
DM 119-137 1136.06
DM 120 1120.70
DM 121 1112.30
DM 122 1102.01
DM 123
DM 124 1142.4
DM 125-76
DM 126 1089.77
DM 104-101 1126.20
DM 106
DM 103
DM 112 1175.07
DM 113 1183.41
DM 117 1183.37
DM 111 1184.45
DM 115 1151.25
DM 107 1176.63
DM 20/DS2 1171.2
DM 101B 1202.53
MP 49-B 1158.27
MP 50-B 1148.43
MP 51-C 1142.96
MP 52-B 1138.85
MP 53-B 1150.30
MP 13-B 1184.62
MP 16-B 1164.48
MP 30-B 1188.05
MP 28-B 1190.54
MP 36-B 1187.73
MP 09-B 1188.17
MP 03-B 1188.60
MP 11-B 1189.98
MP 20-A 1187.9
1090
1100
1110
1120
1130
1140
1150
1160
1170
1180
1190
1200
APPROXIMATE
0 1000 2000
SCALE IN FEET
N
LEGEND:
WELL TYPE | EXISTING | ABANDONED
WESTBAY
CONVENTIONAL
MP
PRIVATE
EXTRACTION | N/A
DM 122 NAME OF WELL
1181.60 GROUND-WATER SURFACE ELEVATION, IN FEET (SEPTEMBER 1988)
1090 GROUND-WATER SURFACE ELEVATION CONTOUR, IN FEET (DASHED WHERE INFERRED)
WATER LEVEL ELEVATION CONTOUR MAP
SEPTEMBER 1988
Figure G.2
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

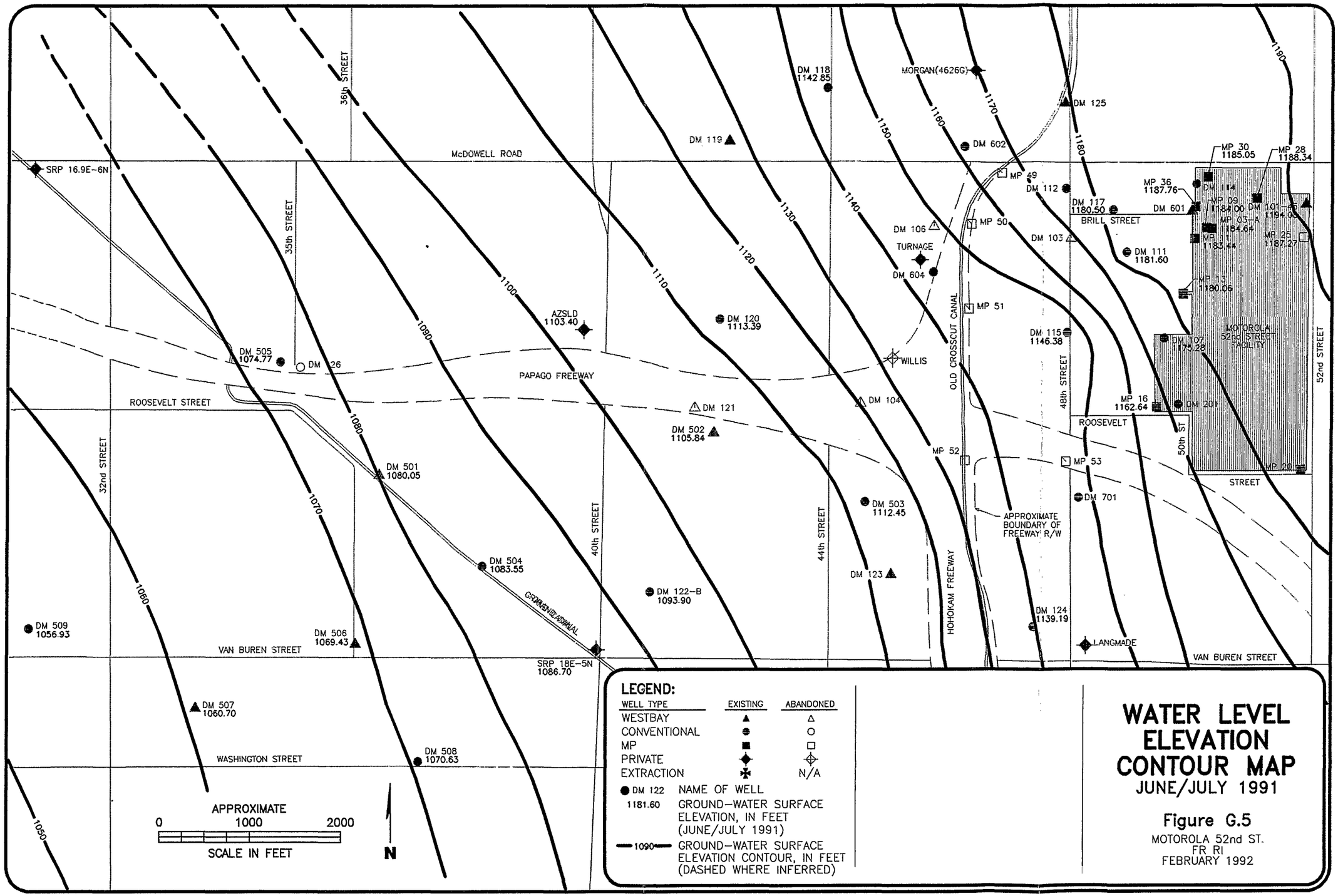


WATER LEVEL ELEVATION CONTOUR MAP
NOVEMBER/DECEMBER 1989

Figure G.3

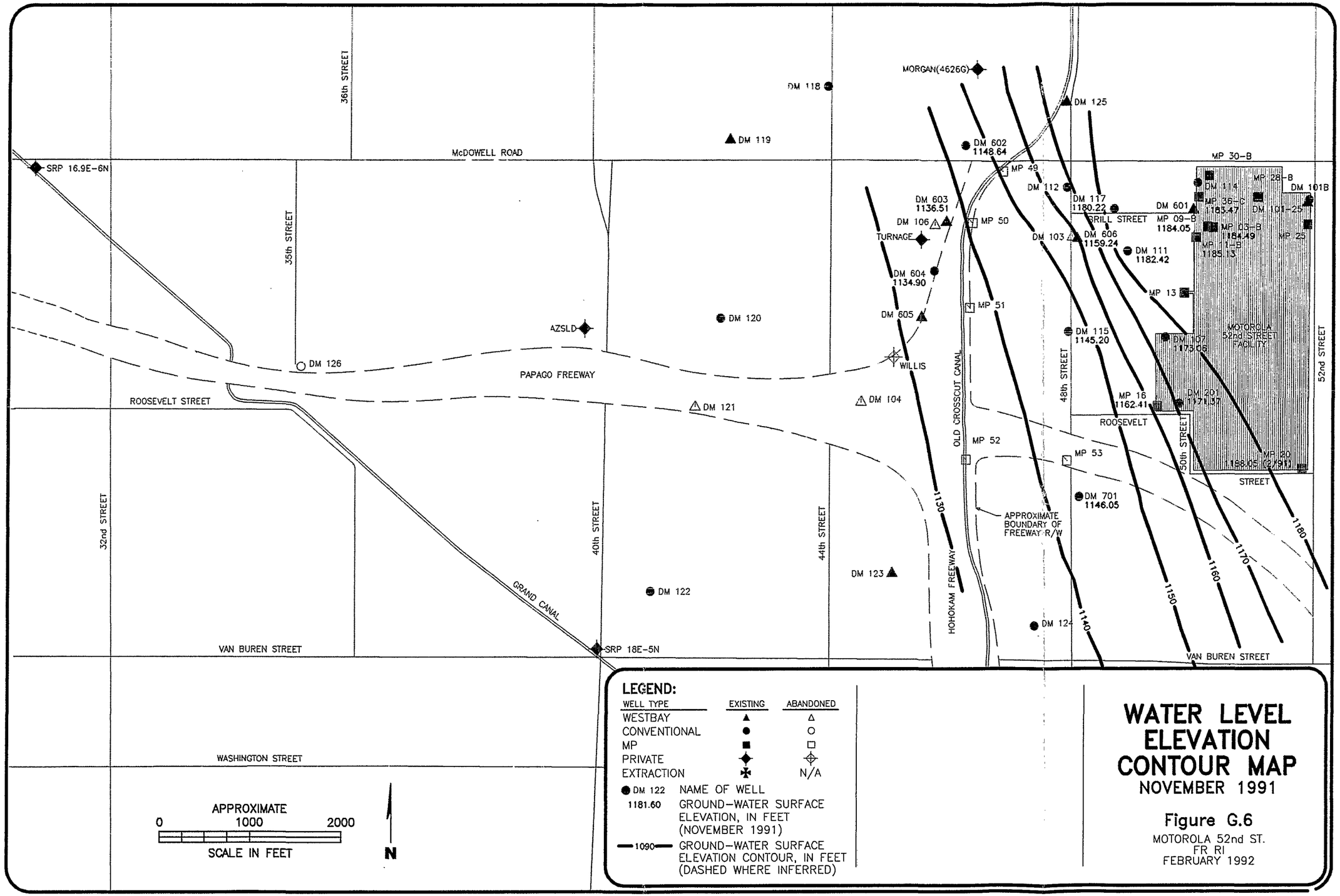
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992


36th STREET
McDOWELL ROAD
35th STREET
SRP 16.9E-6N
DM 118
1147.02
DM 119
MORGAN(4626G)
DM 125
MP 49
DM 113
DM 112
1173.43
DM 117
1183.02
BRILL STREET
DM 106
TURNAGE
MP 50
DM 103
DM 111
1184.49
MP 13-B
1182.40
AZSLD
1091.92
DM 120
1116.89
OLD CROSSCUT CANAL
MP 51
48th STREET
DM 115
1150.39
DM 126
PAPAGO FREEWAY
WILLIS
DM 121
DM 104
ROOSEVELT STREET
MP 16-A
1163.65
ROOSEVELT
MP 52
MP 53
50th ST
STREET
MOTOROLA 52nd STREET FACILITY
52nd STREET
32nd STREET
40th STREET
44th STREET
APPROXIMATE BOUNDARY OF FREEWAY R/W
DM 122-A
1095.20
DM 123
HOHOKAM FREEWAY
DM 124
1143.15
CRAB RAN CANAL
SRP 18E-5N
VAN BUREN STREET
WASHINGTON STREET
1090
1100
1110
1120
1130
1140
1150
1160
1170
1180
1190
APPROXIMATE
0 1000 2000
SCALE IN FEET
N
LEGEND:
WELL TYPE EXISTING ABANDONED
WESTBAY
CONVENTIONAL
MP
PRIVATE
EXTRACTION N/A
DM 122 NAME OF WELL
1181 60 GROUND-WATER SURFACE ELEVATION, IN FEET (OCTOBER 1990)
1090 GROUND-WATER SURFACE ELEVATION CONTOUR, IN FEET (DASHED WHERE INFERRED)
WATER LEVEL ELEVATION CONTOUR MAP
OCTOBER 1990
Figure G.4
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



WATER LEVEL ELEVATION CONTOUR MAP
JUNE/JULY 1991

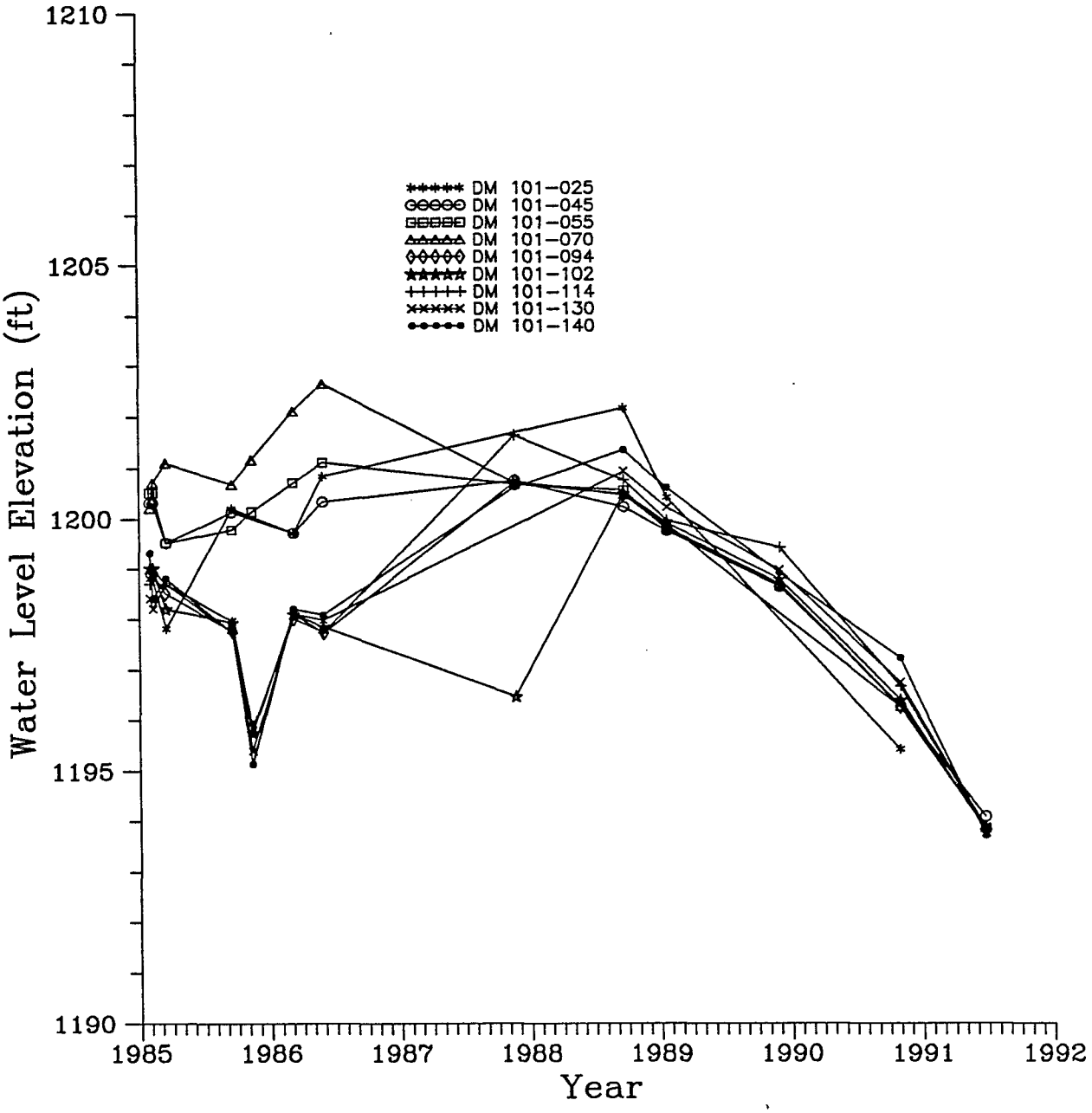
Figure G.5
MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



WATER LEVEL ELEVATION CONTOUR MAP
NOVEMBER 1991

Figure G.6

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

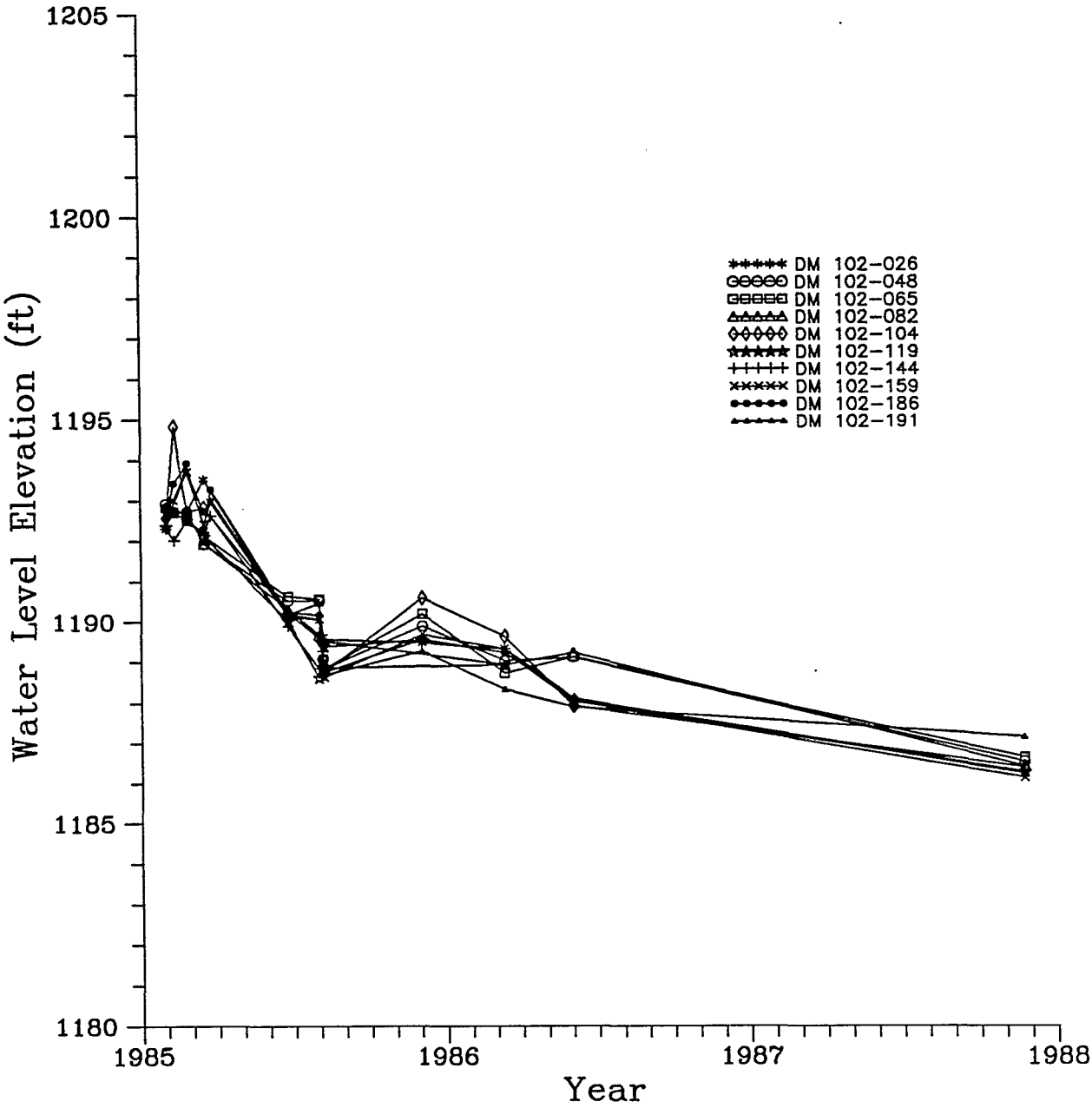


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 101

Figure G.7

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

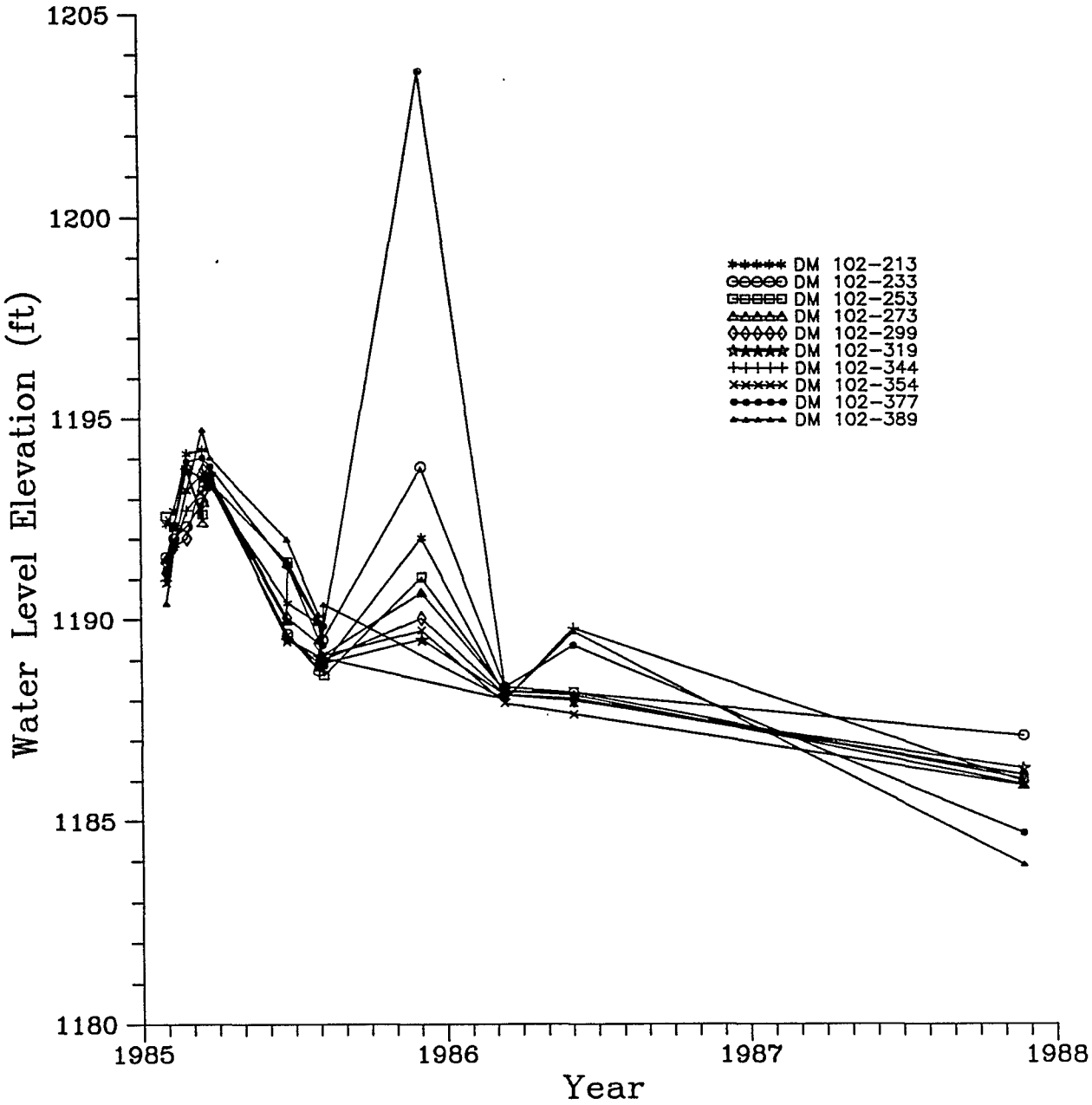


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 102

Figure G.8A

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

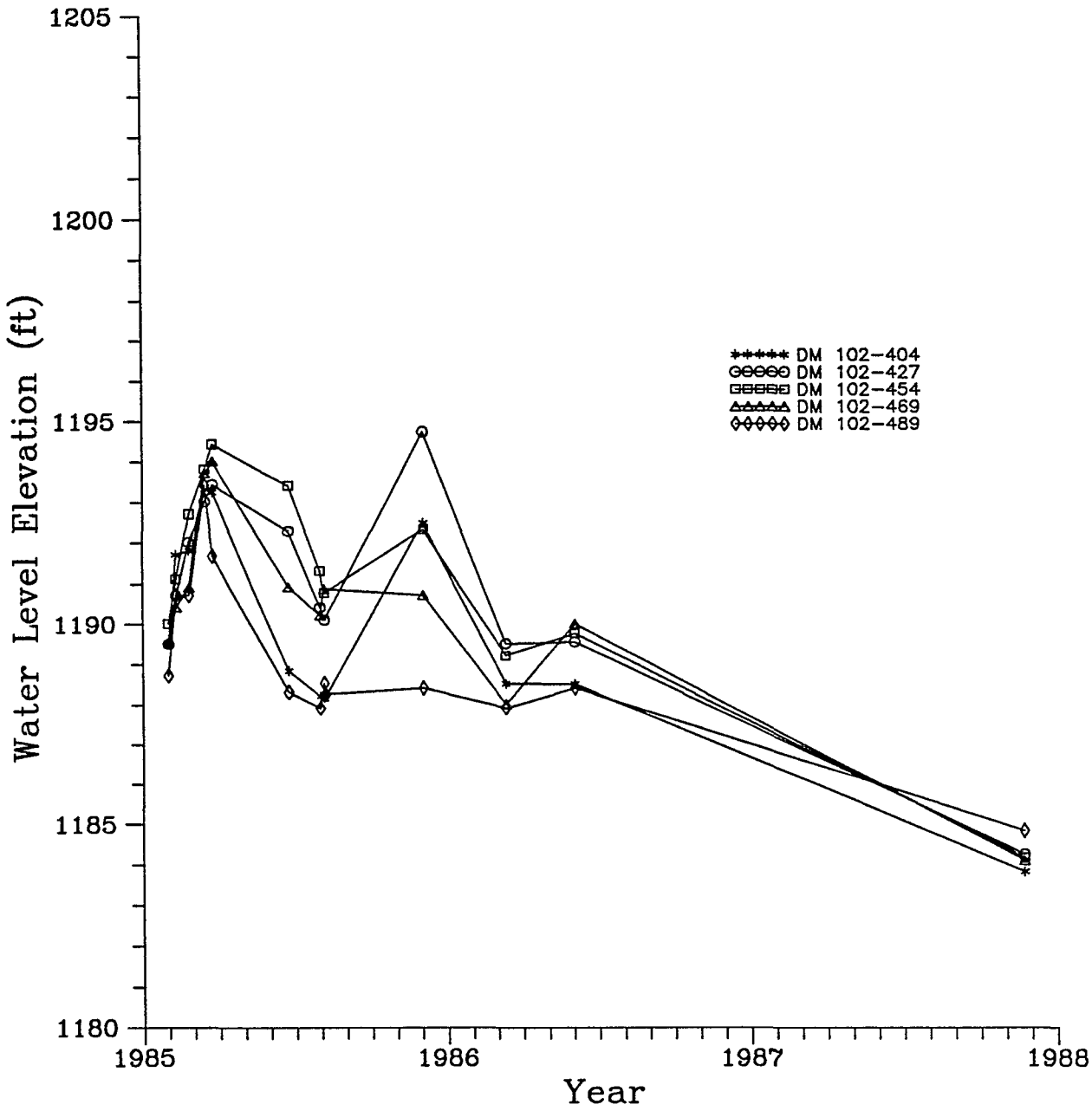


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 102

Figure G.8B

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

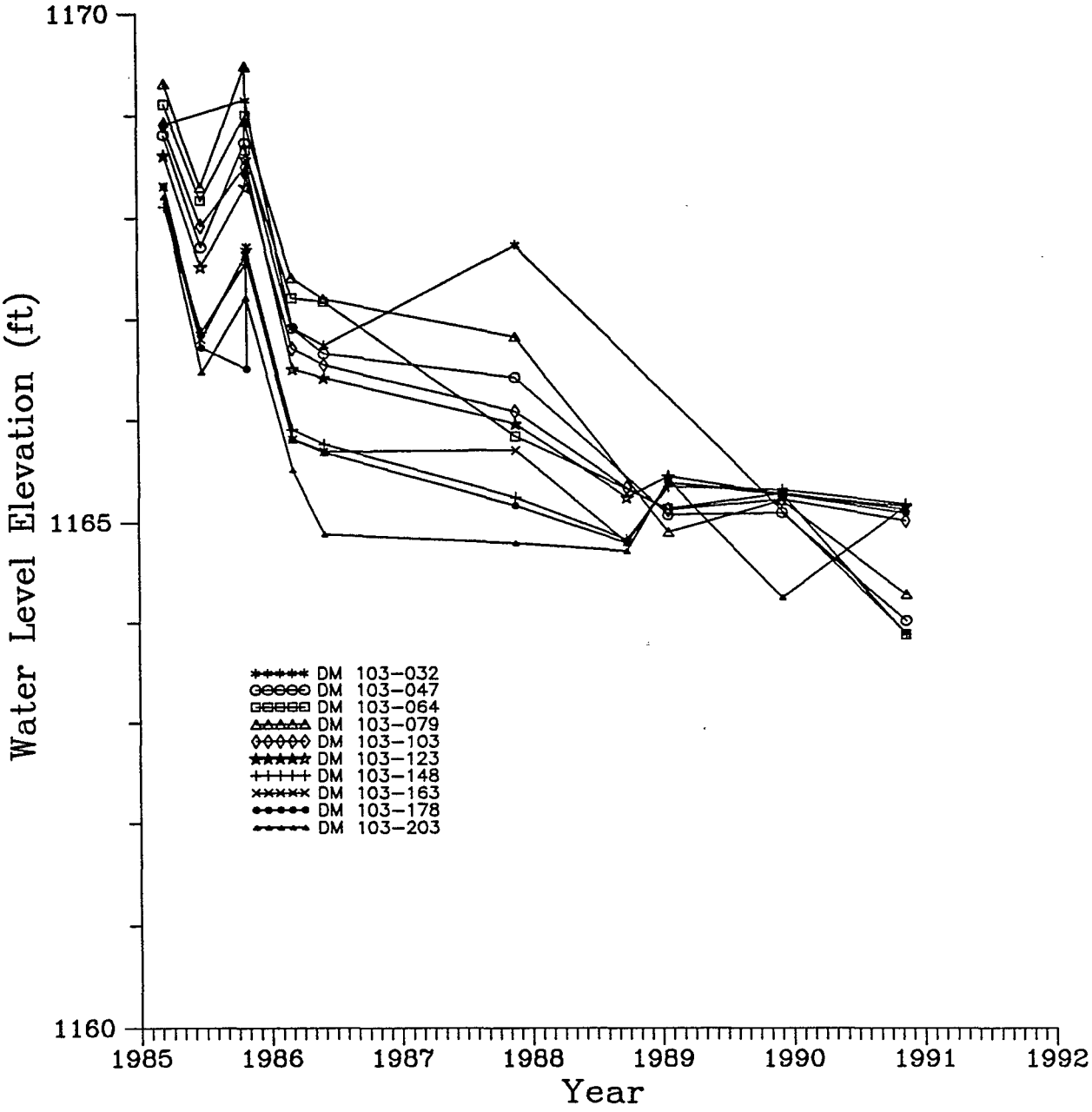


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 102

Figure G.8C

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

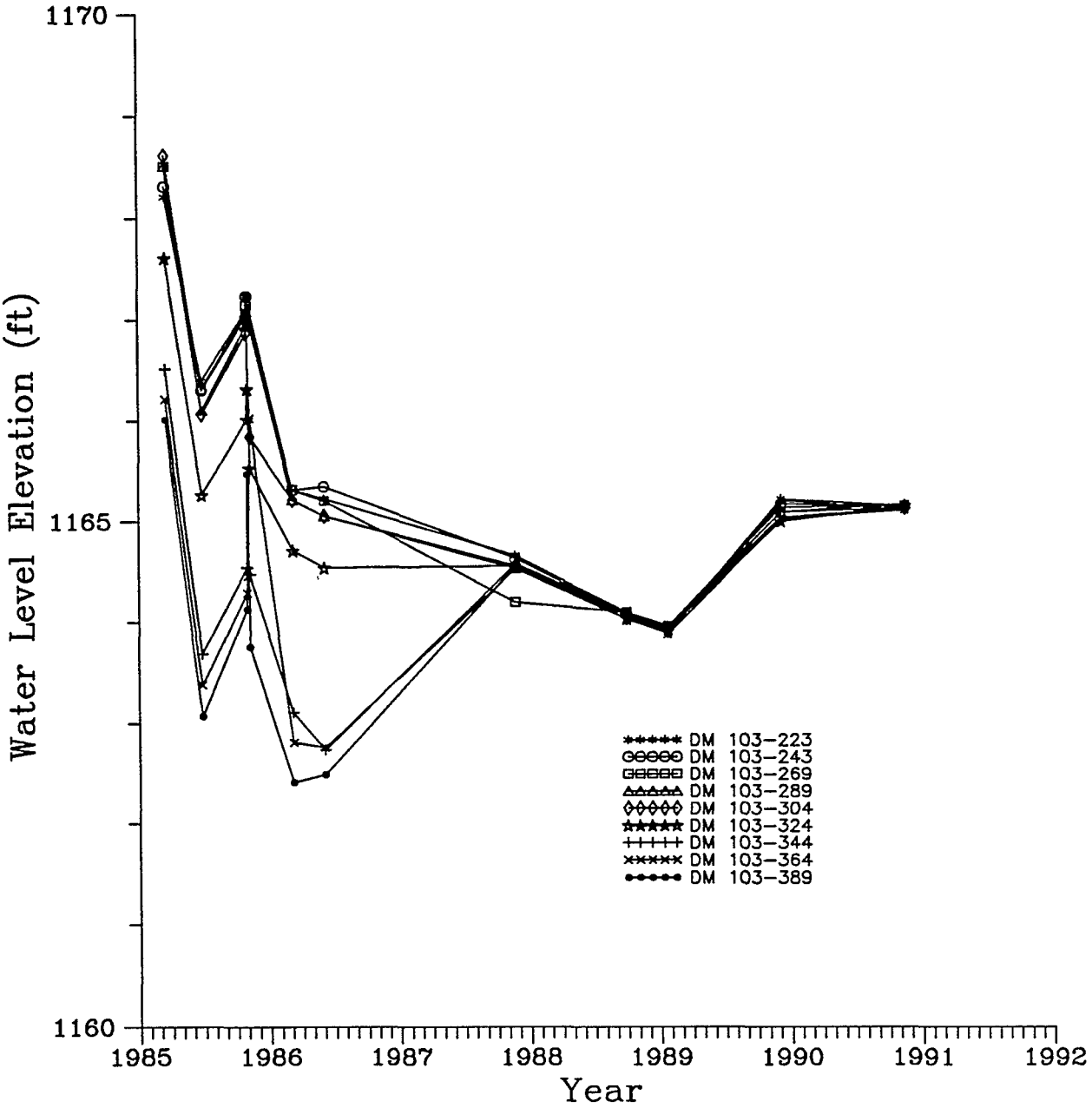


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 103

Figure G.9A

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

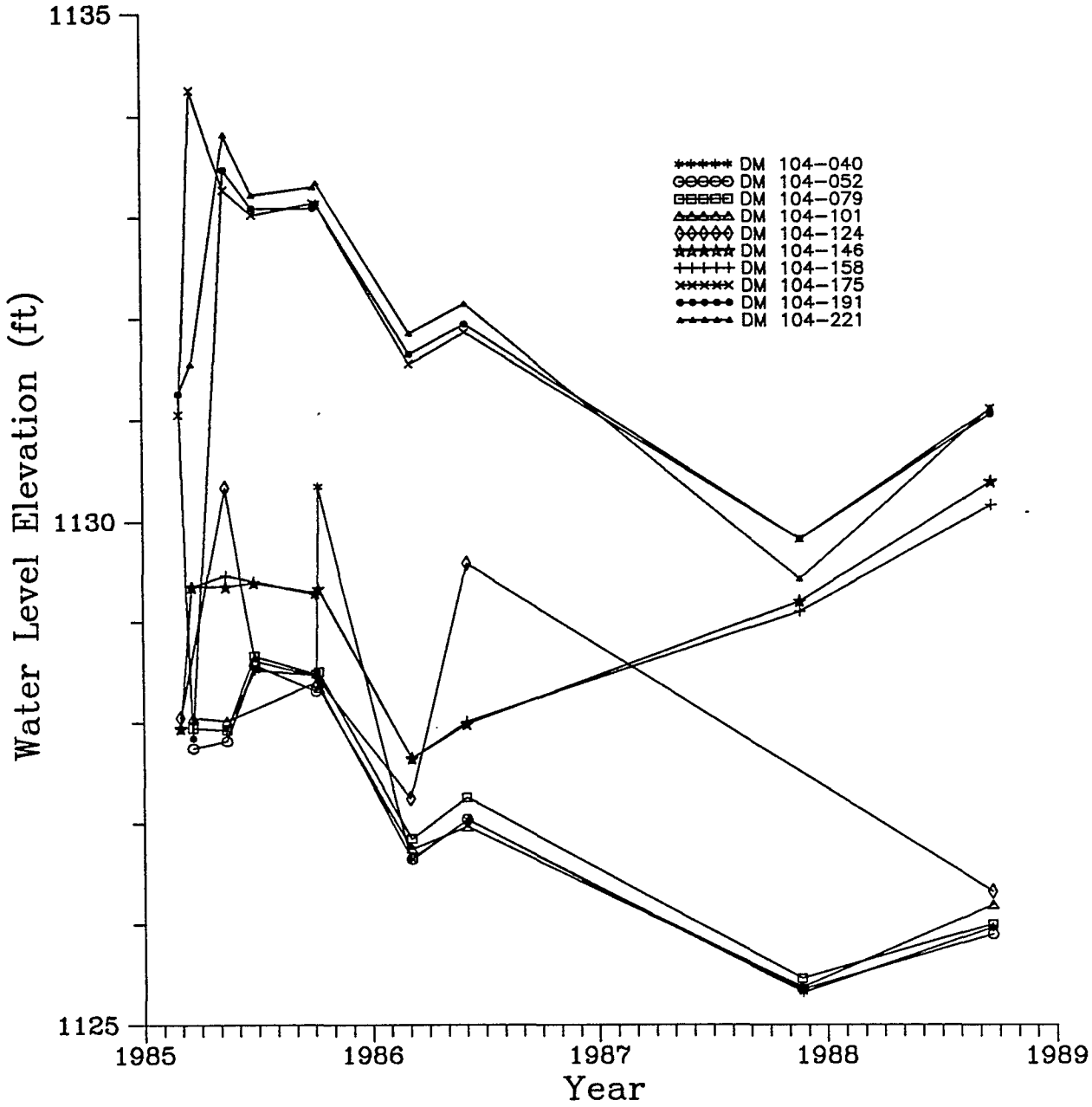


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 103

Figure G.9B

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

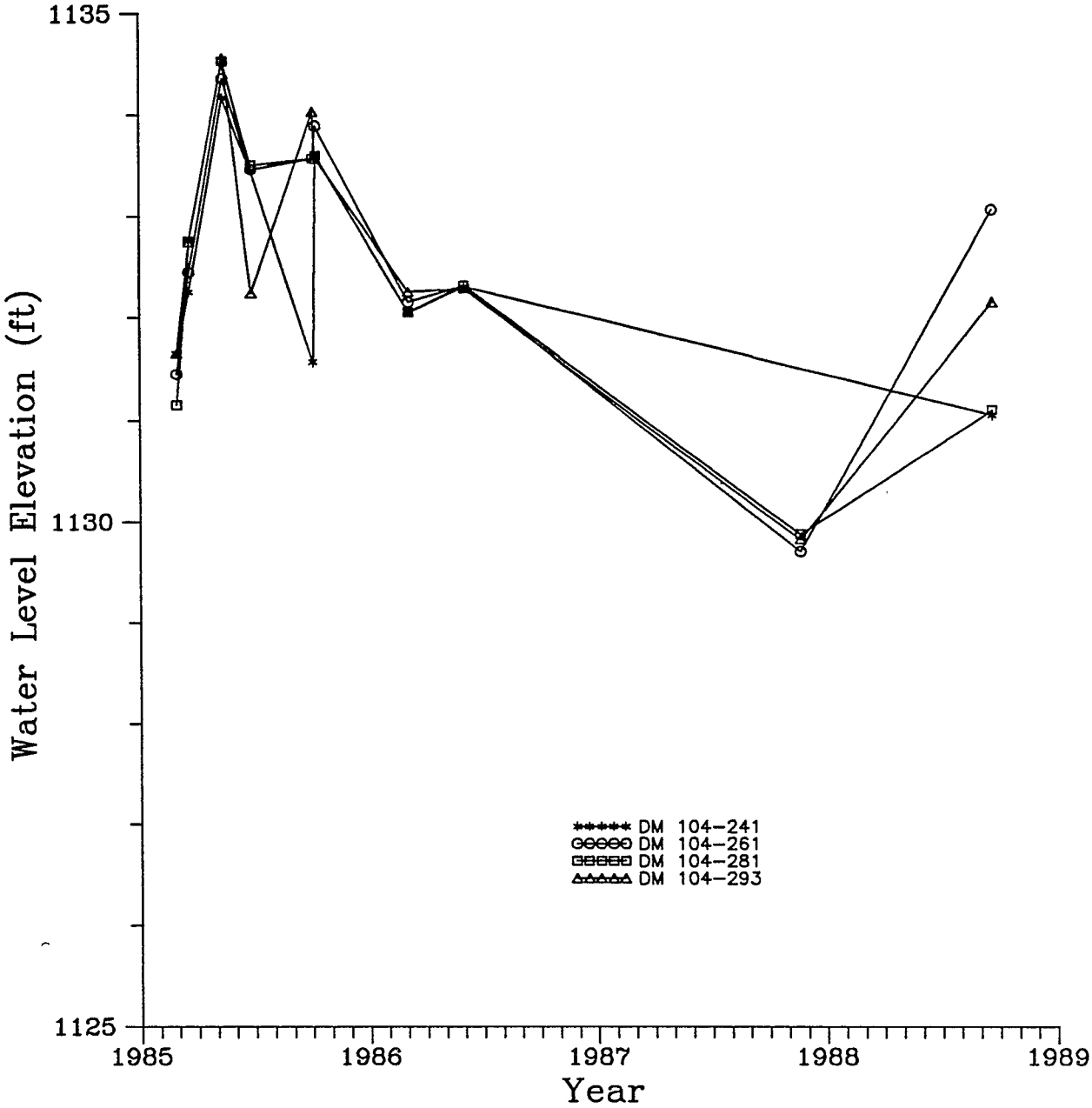


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 104

Figure G.10A

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

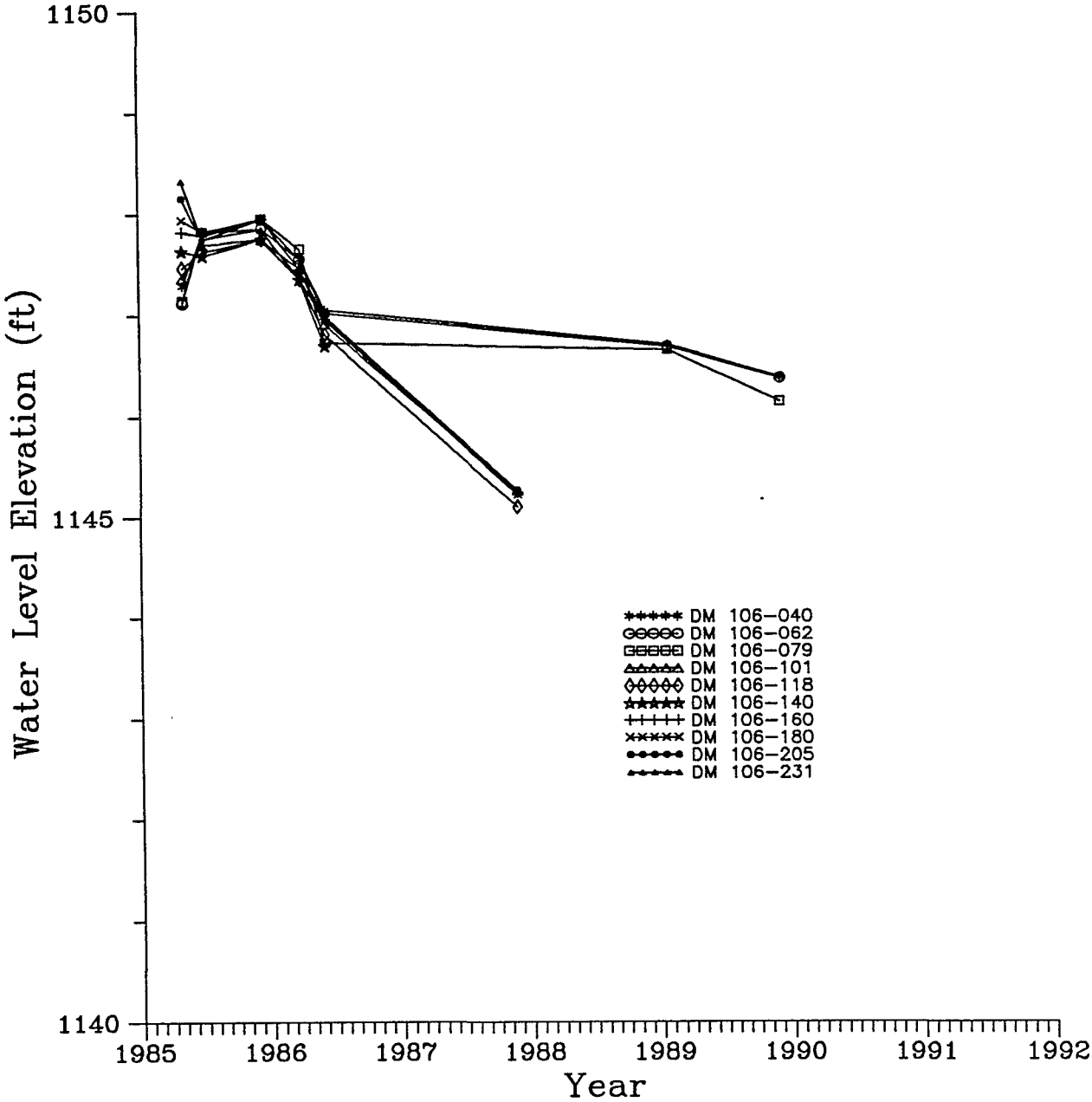


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 104

Figure G.10B

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

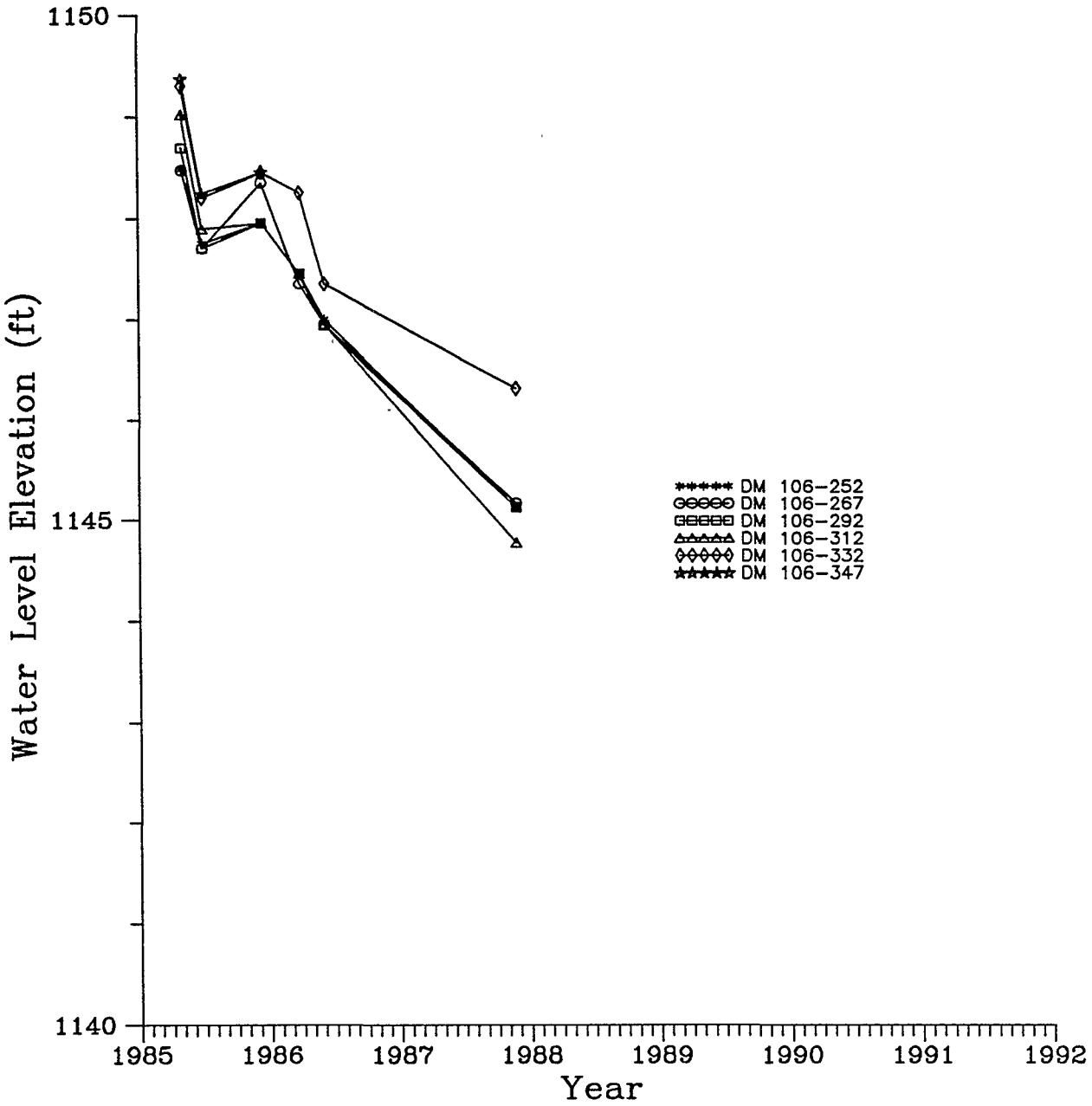


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 106

Figure G.11A

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

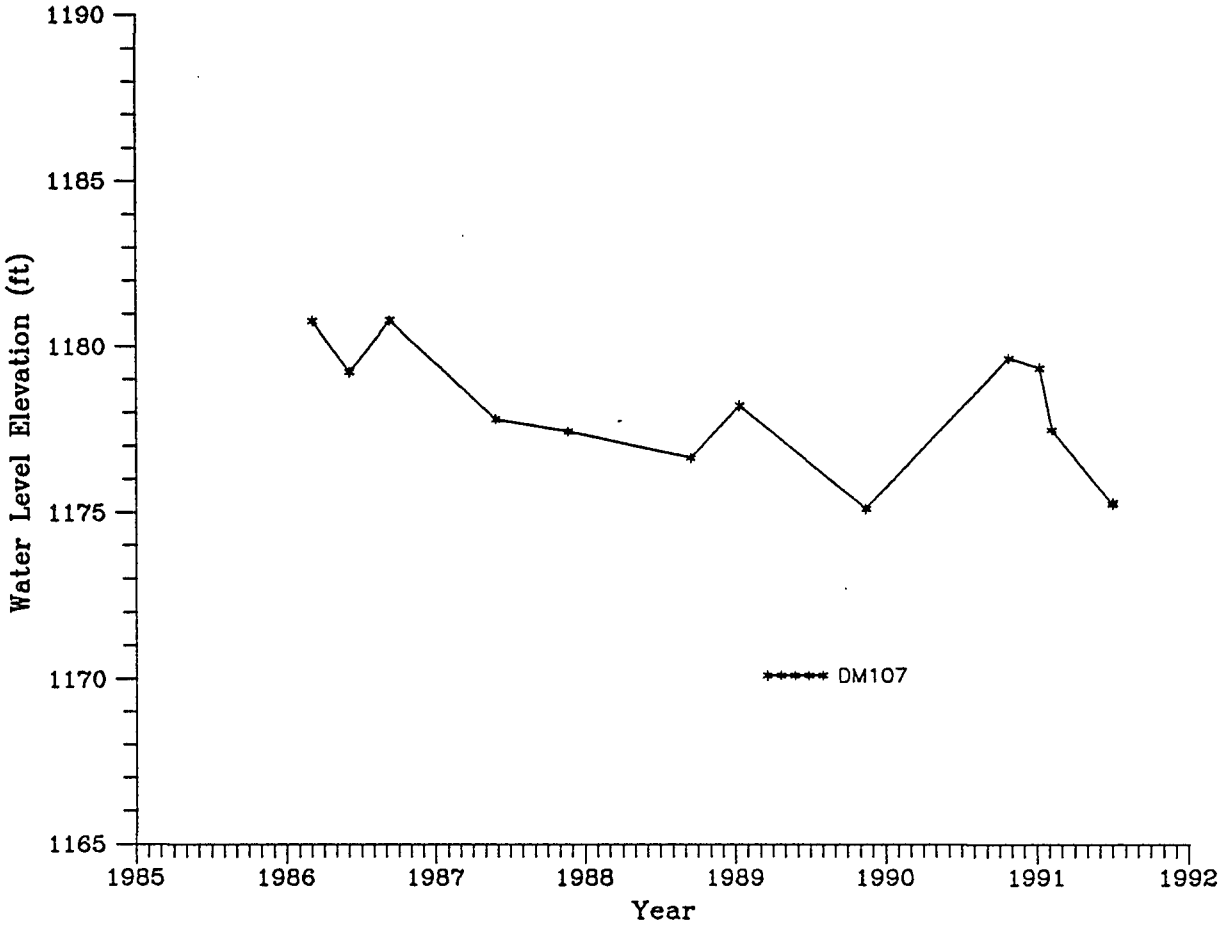


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 106

Figure G.11B

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

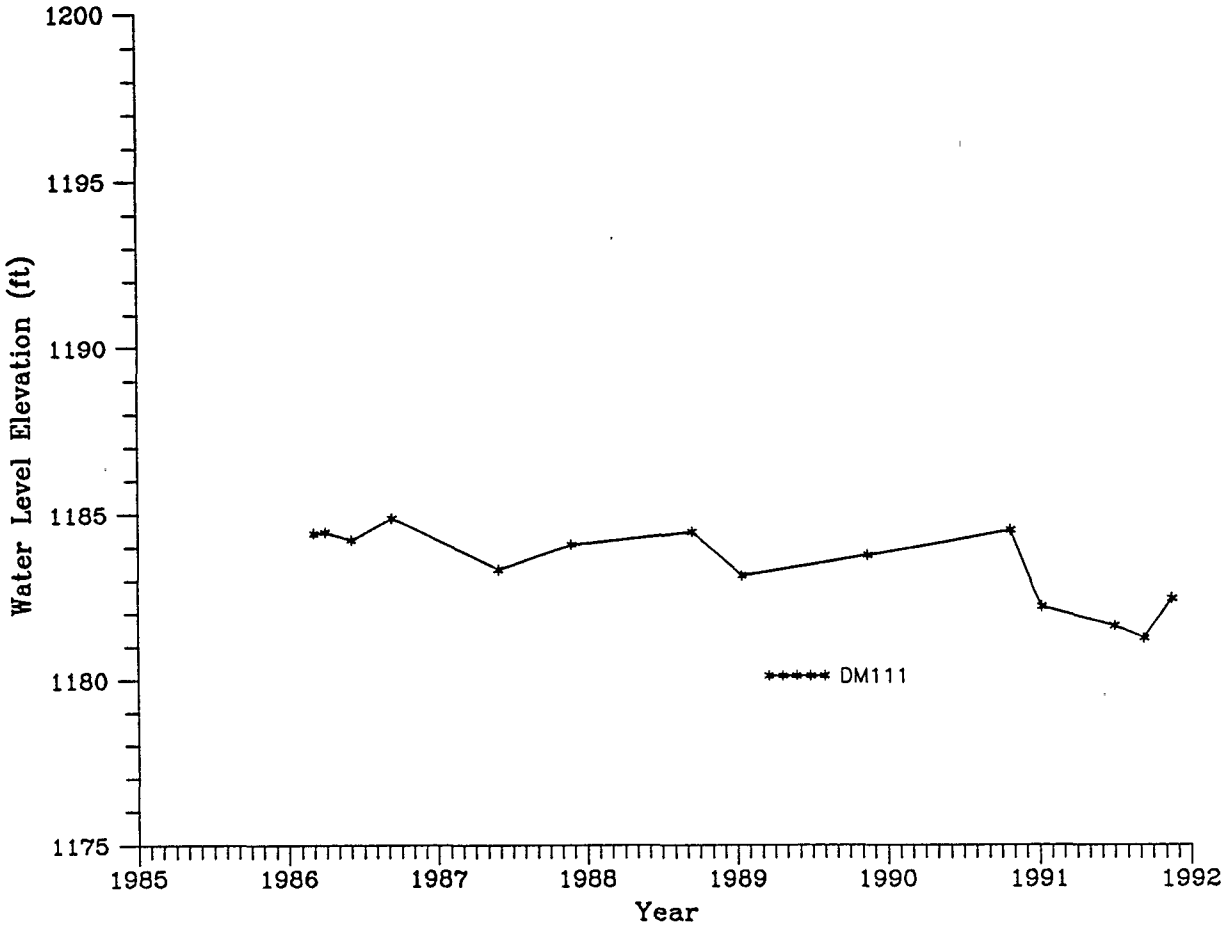


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 107

Figure G.12

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

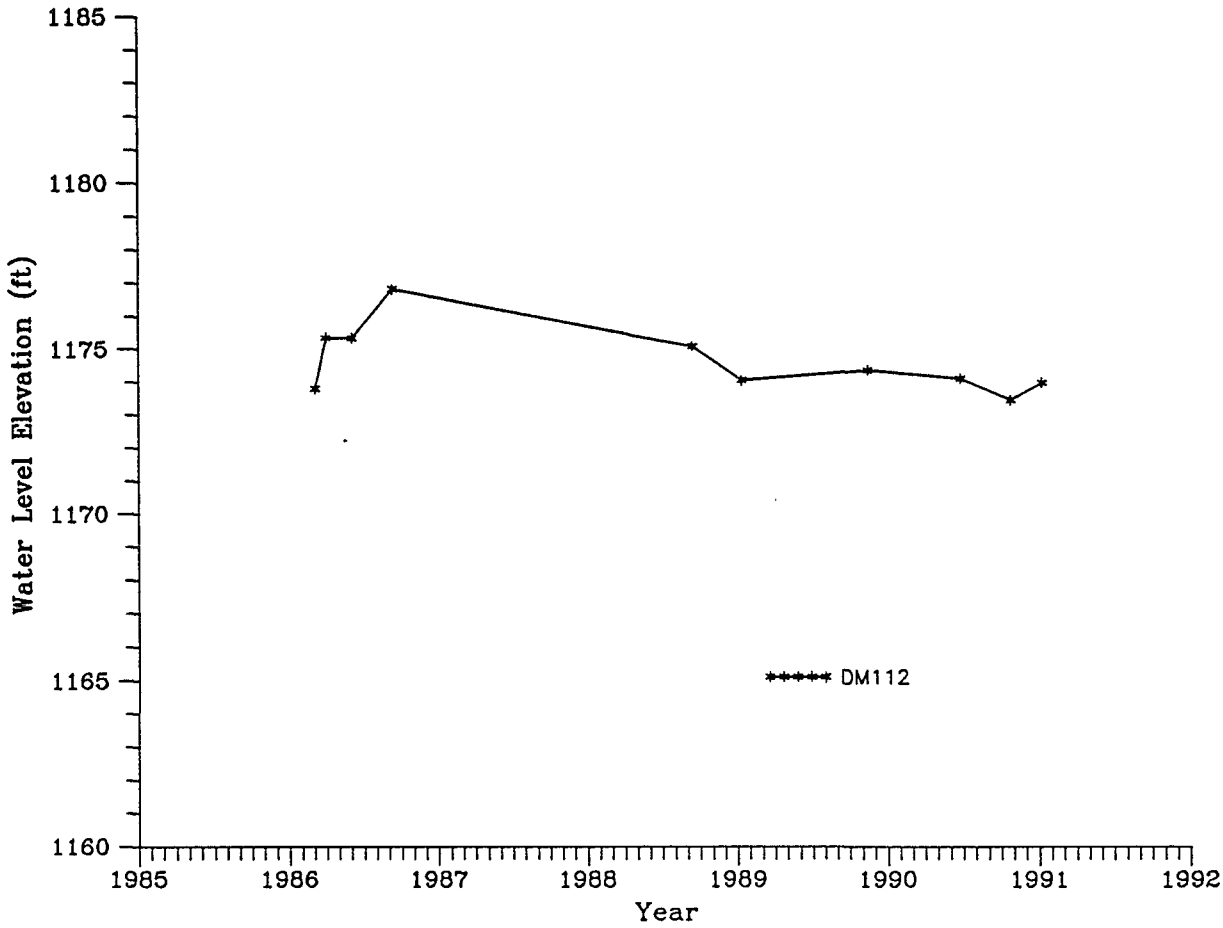


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 111

Figure G.13

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

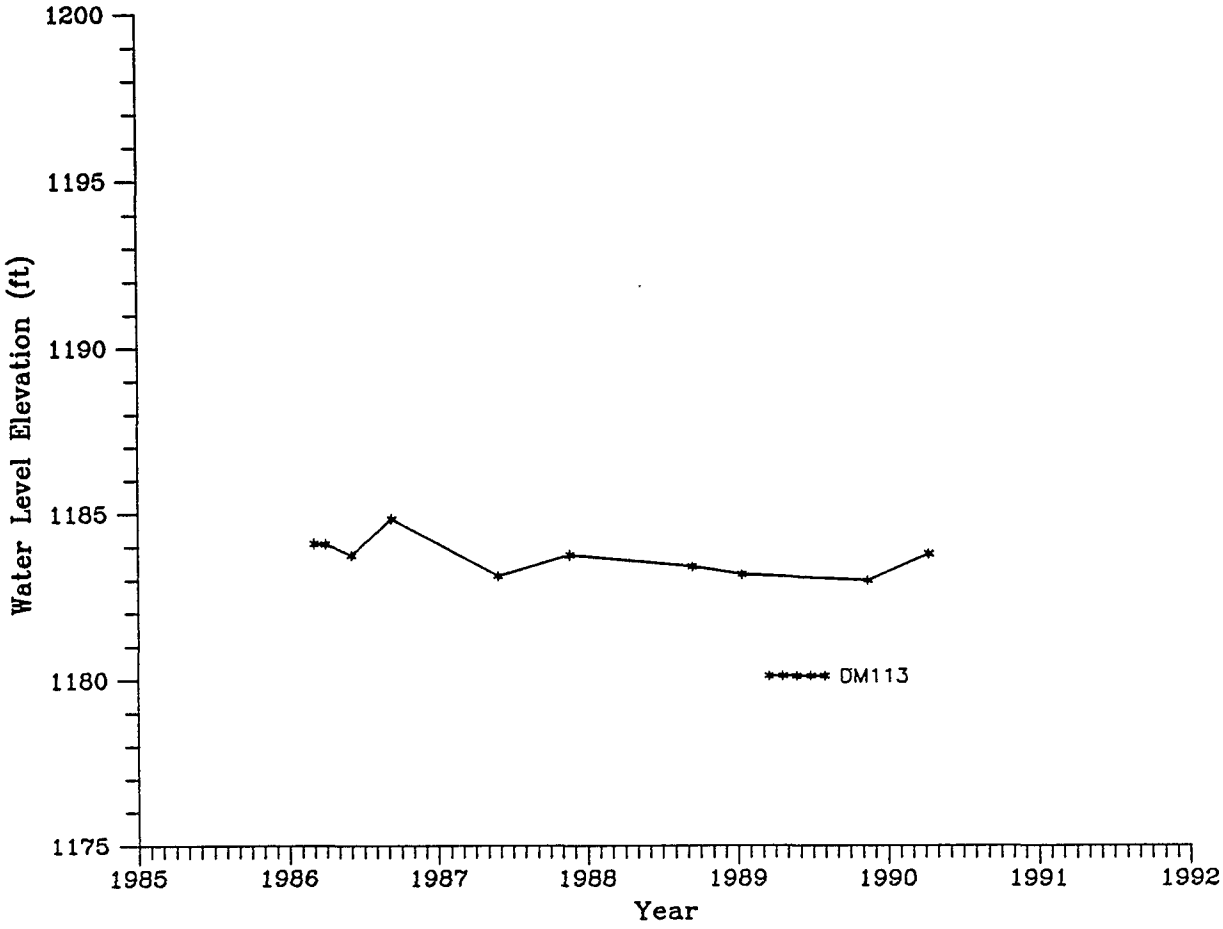


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 112

Figure G.14

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

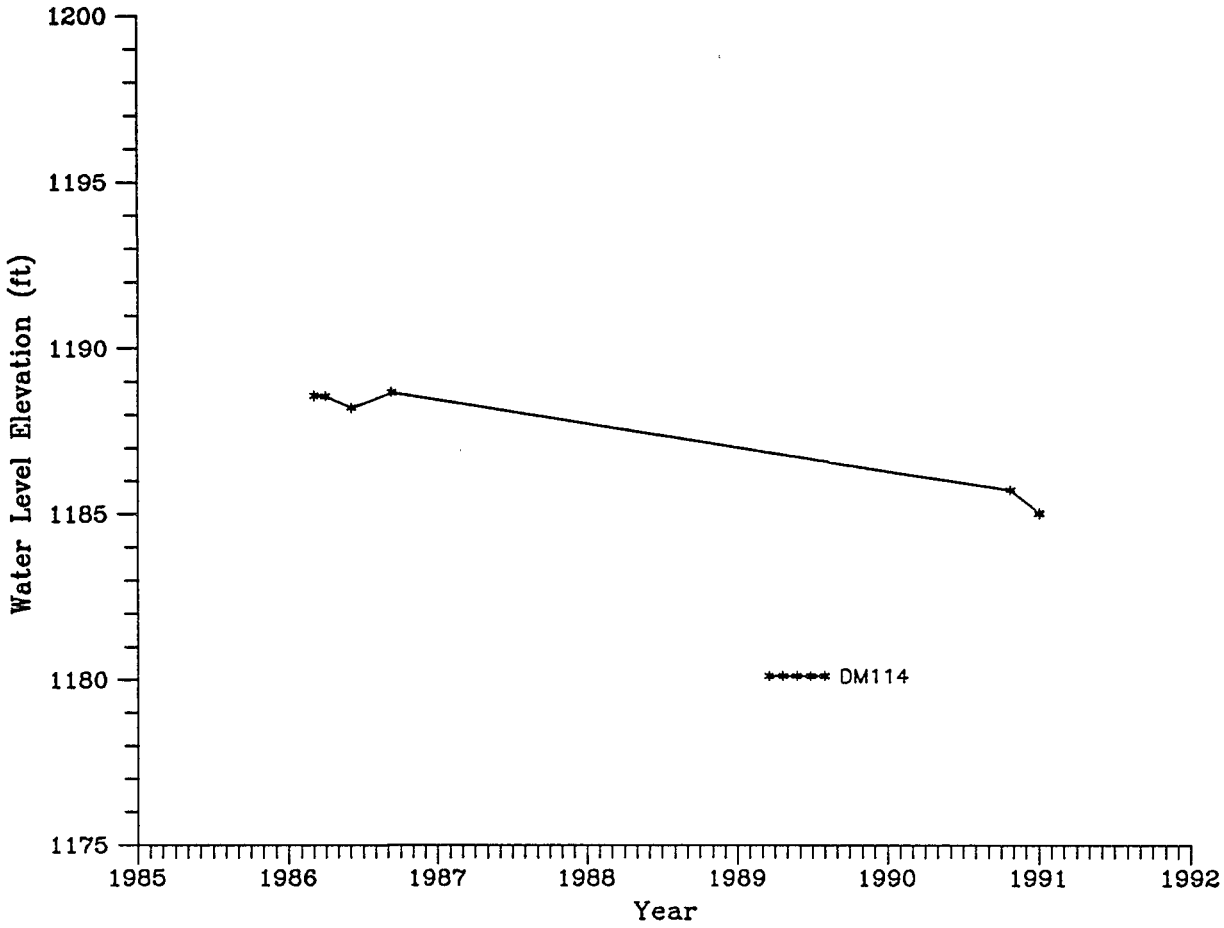


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 113

Figure G.15

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

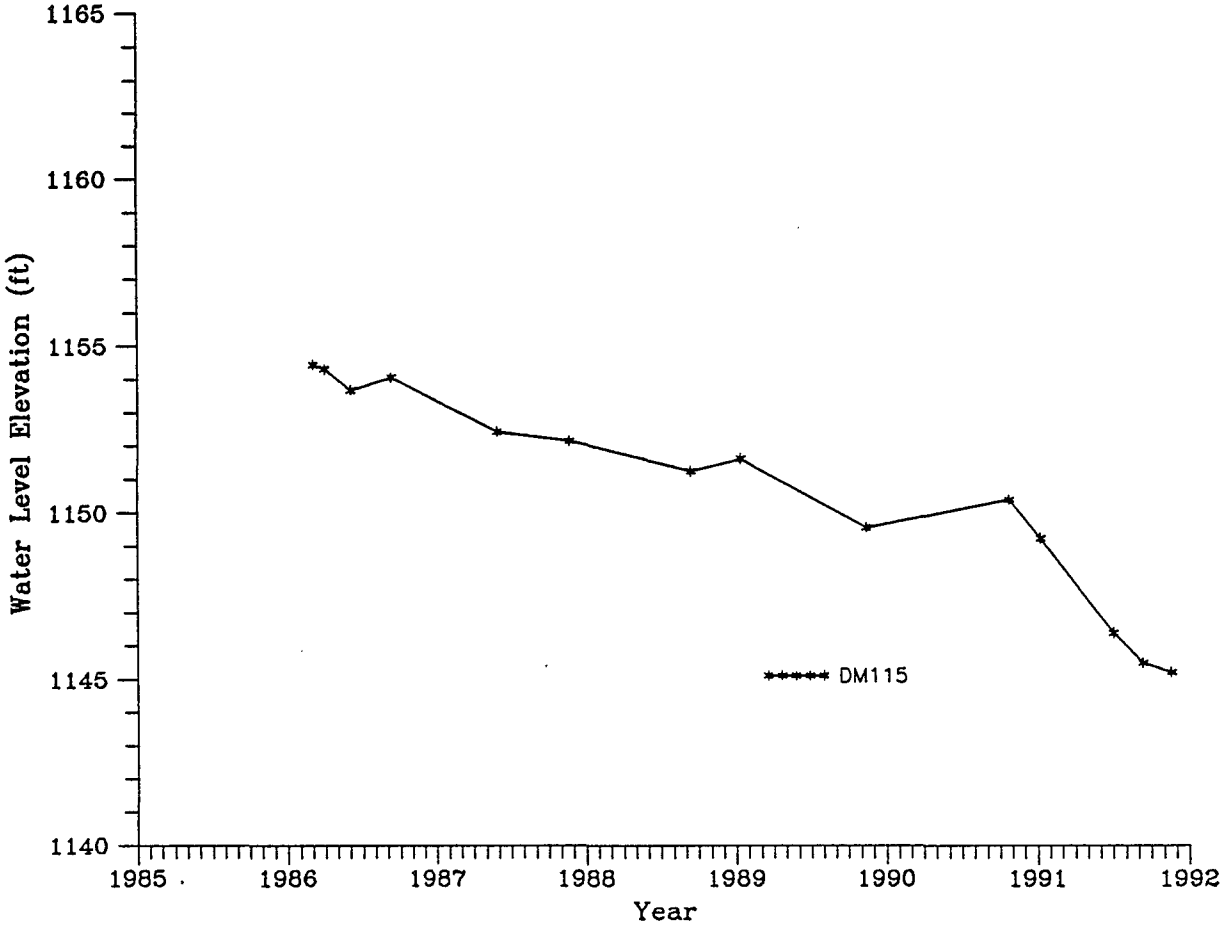


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 114

Figure G.16

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

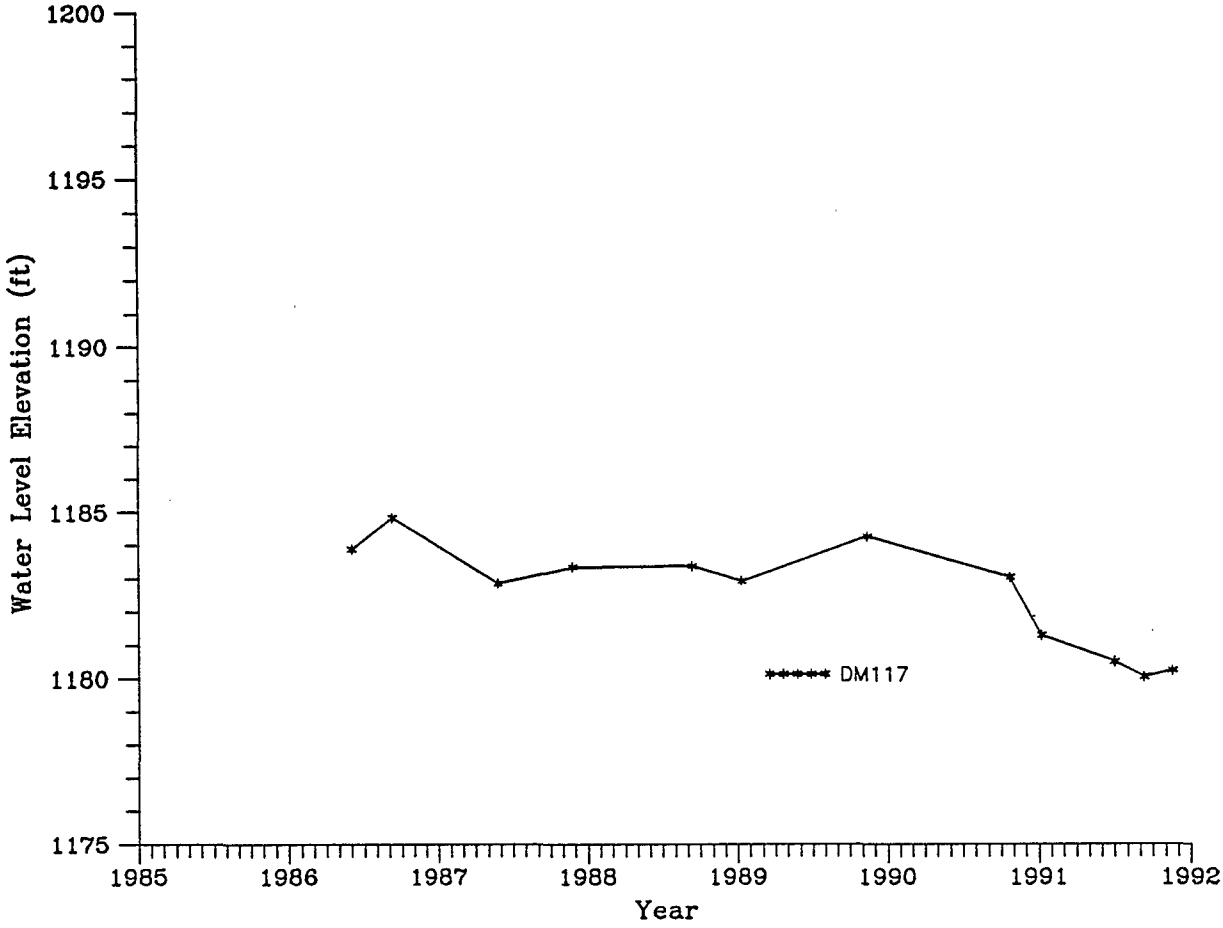


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 115

Figure G.17

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

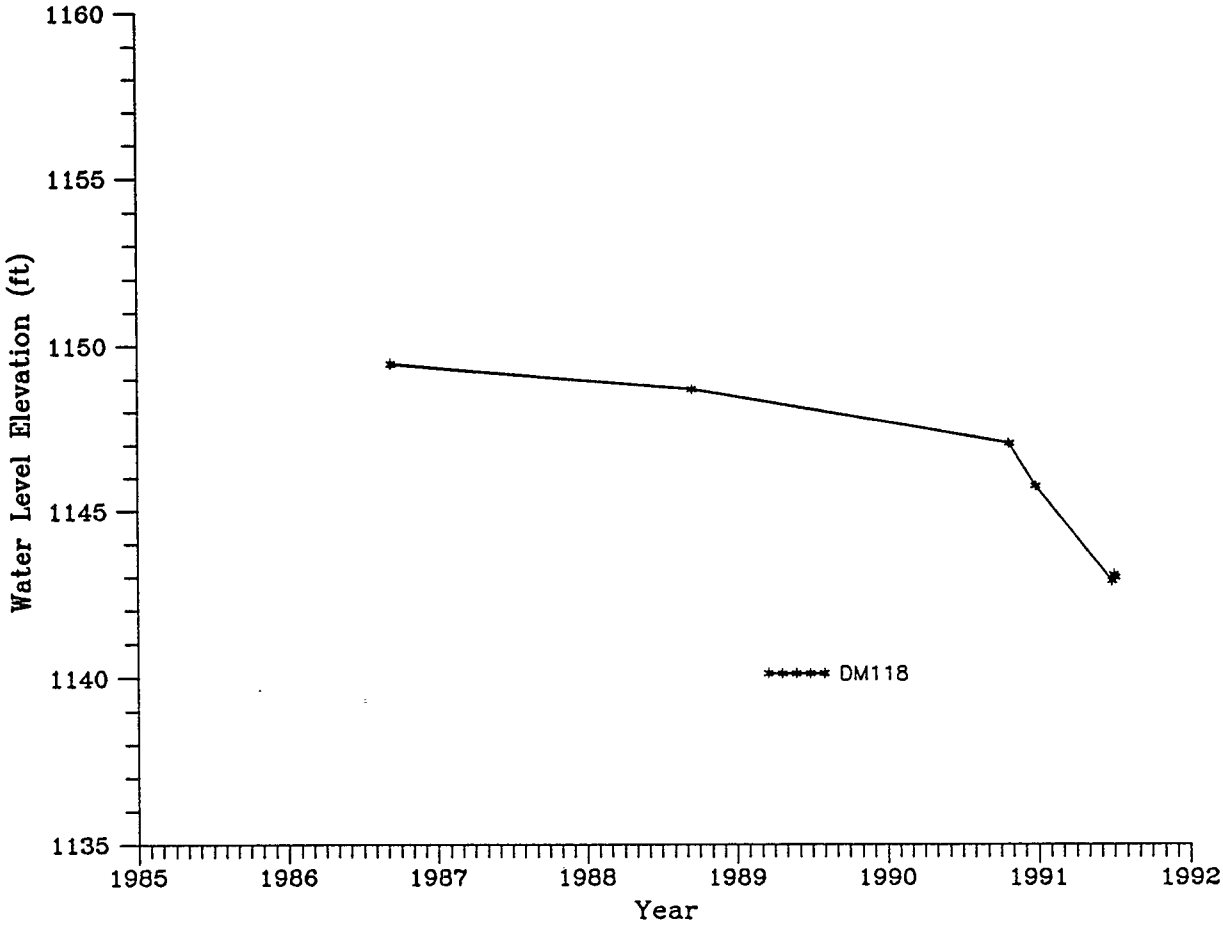


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 117

Figure G.18

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

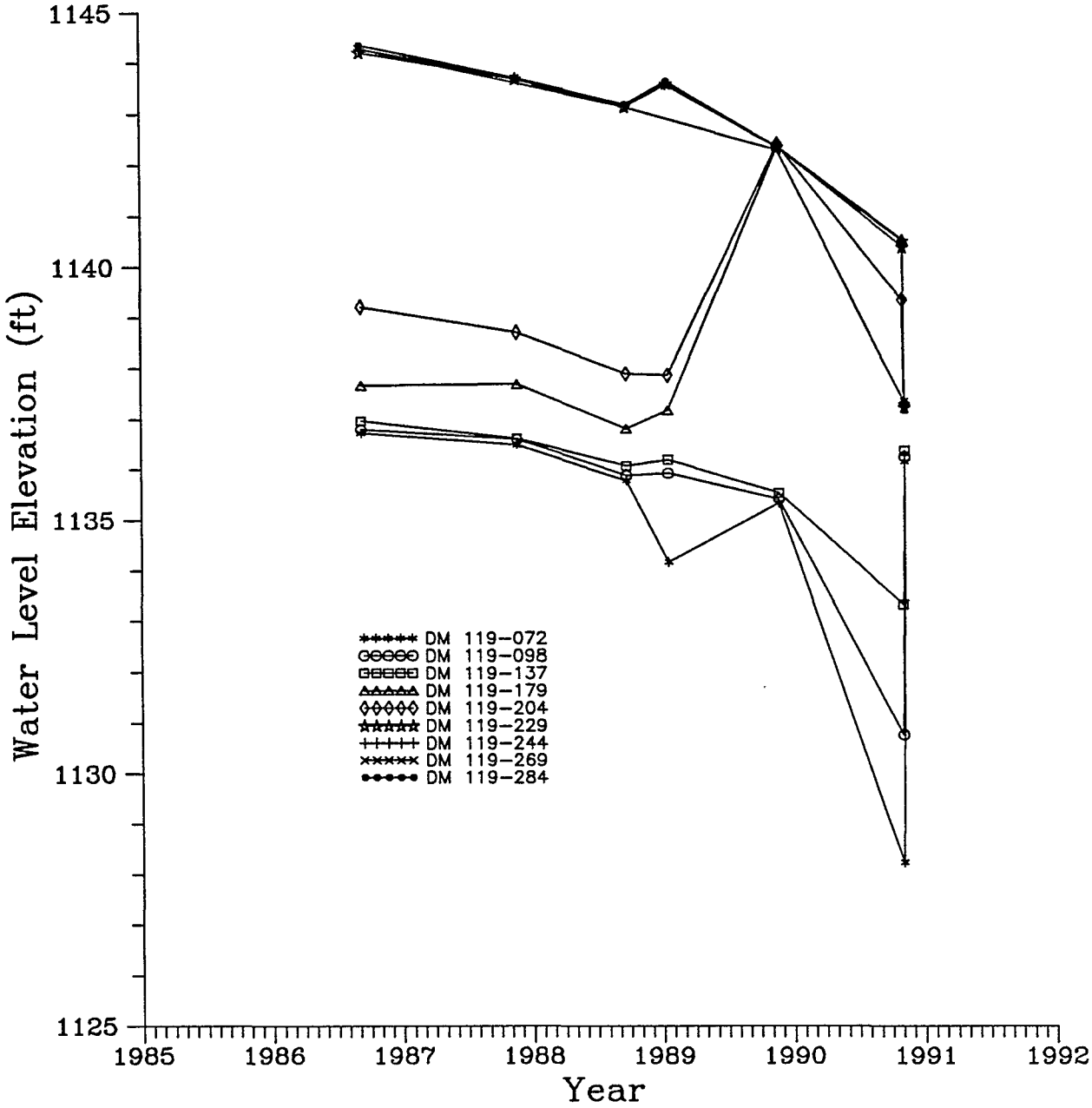


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 118

Figure G.19

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

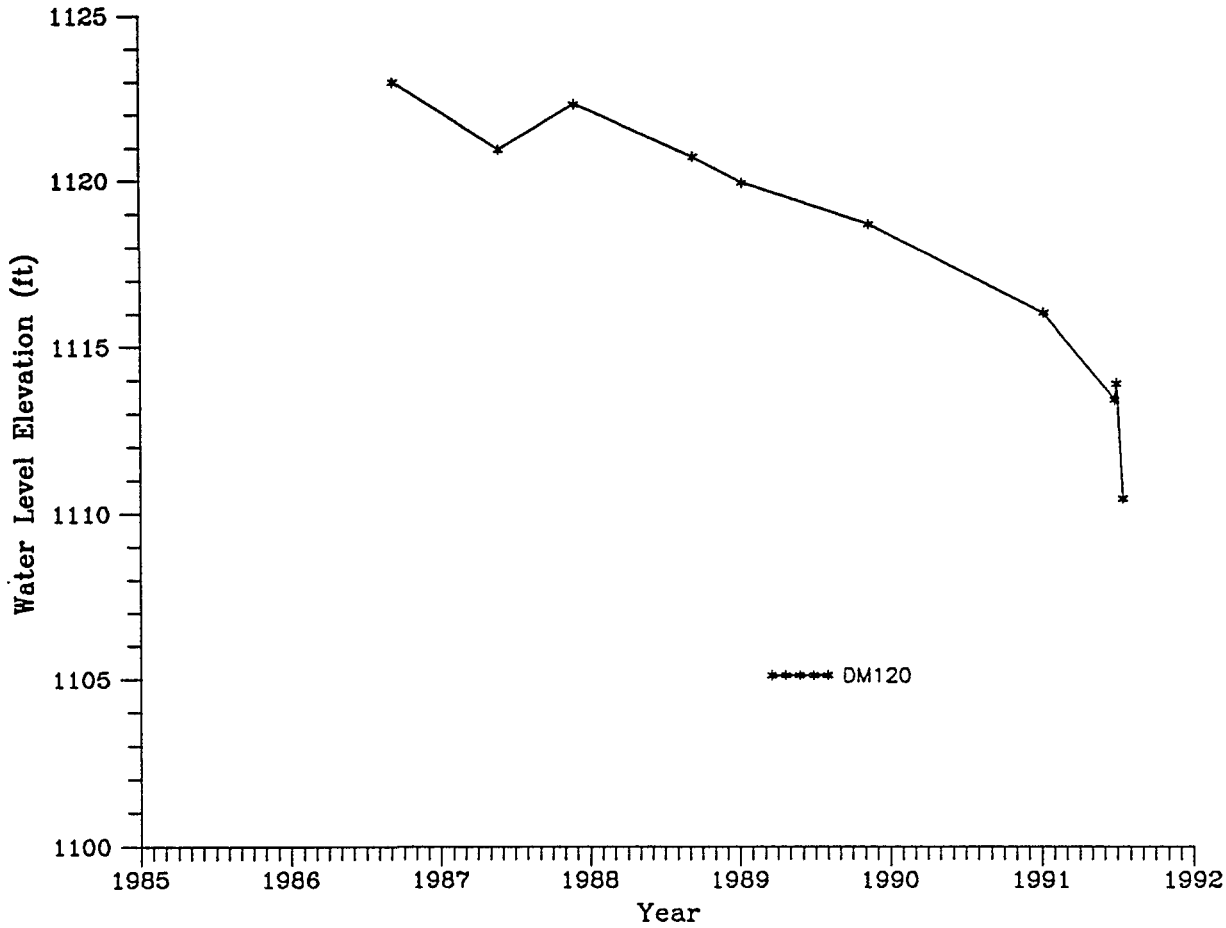


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 119

Figure G.20

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

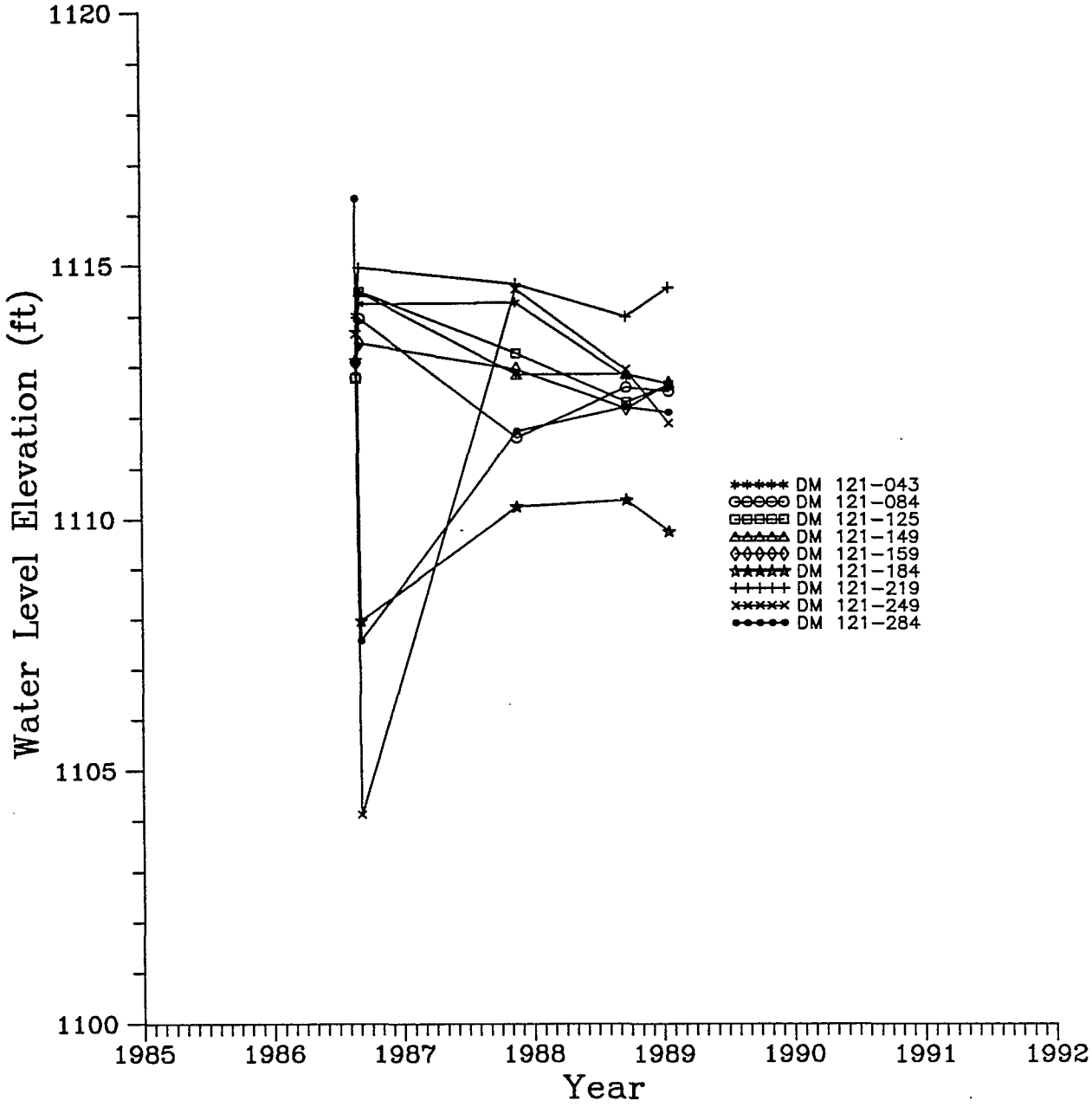


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 120

Figure G.21

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

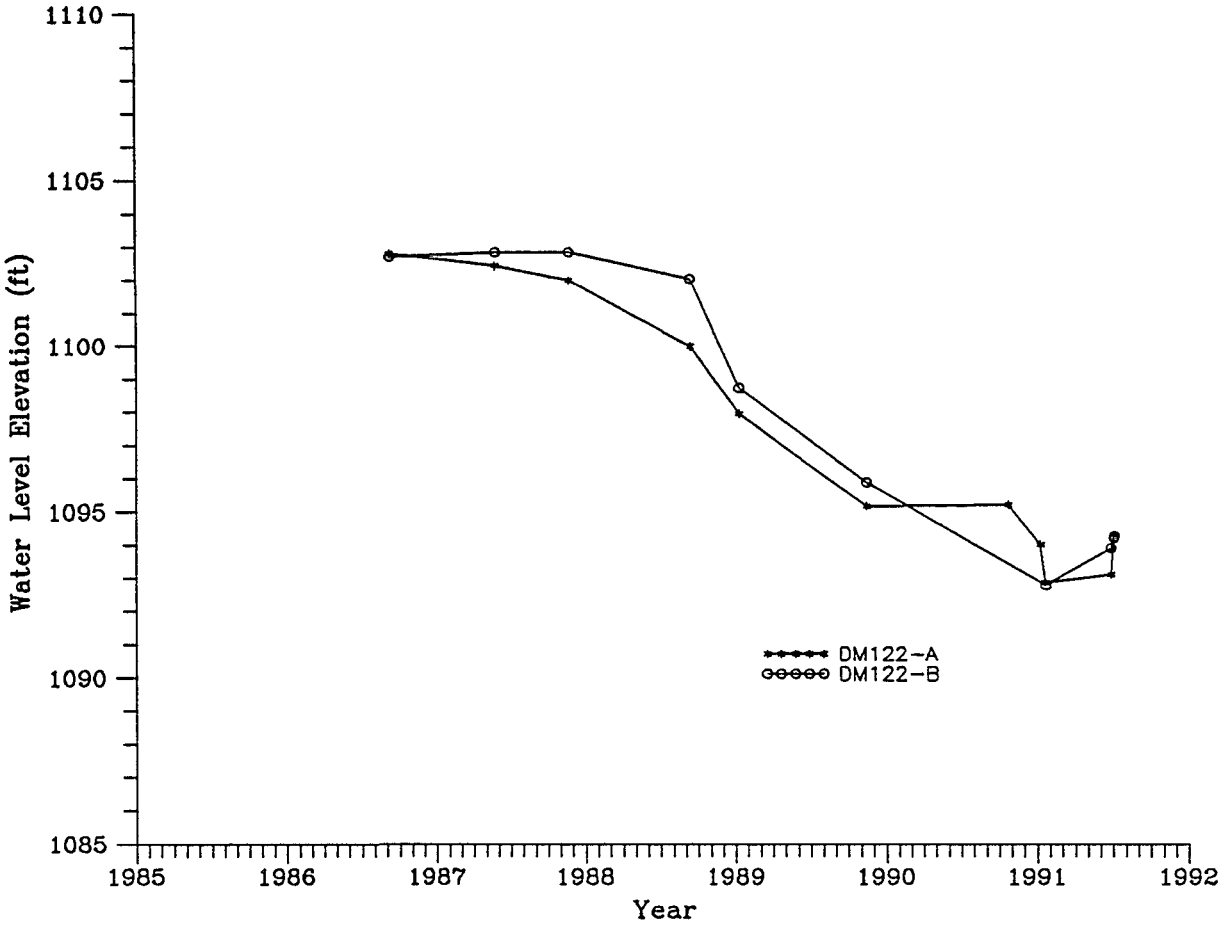


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 121

Figure G.22

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

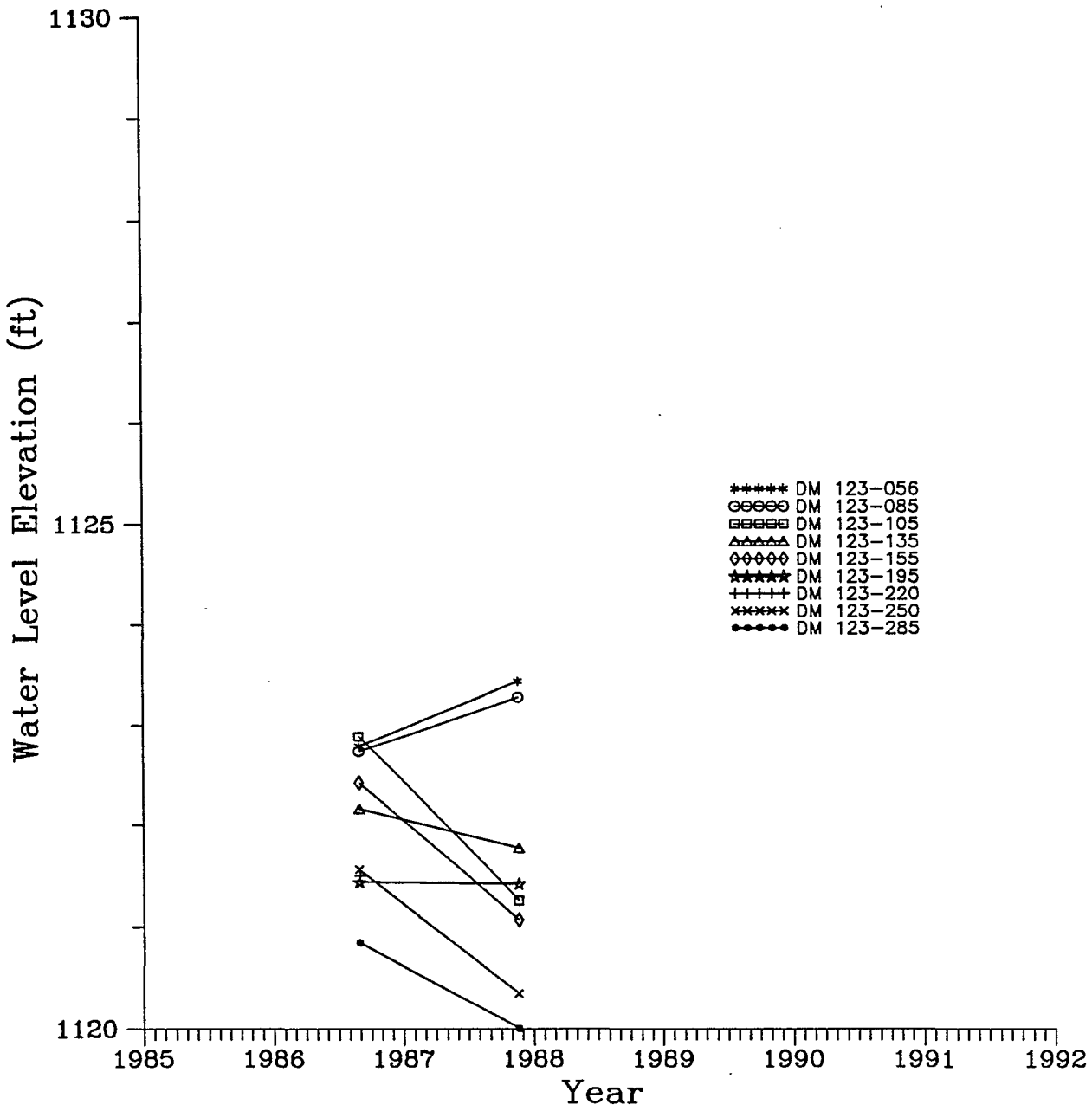


STATIC WATER LEVEL VS. TIME

MONITOR WELLS DM 122A AND DM 122B

Figure G.23

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

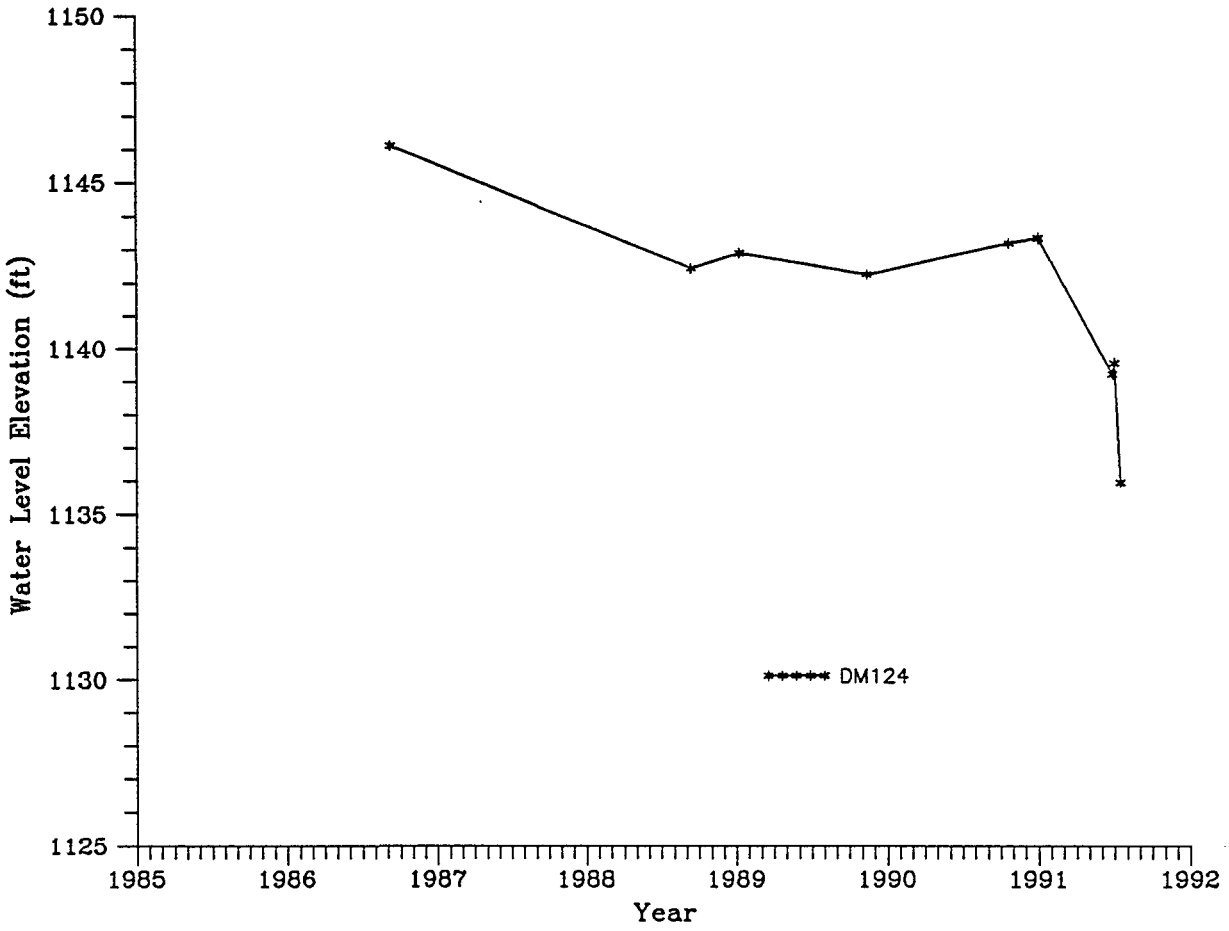


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 123

Figure G.24

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

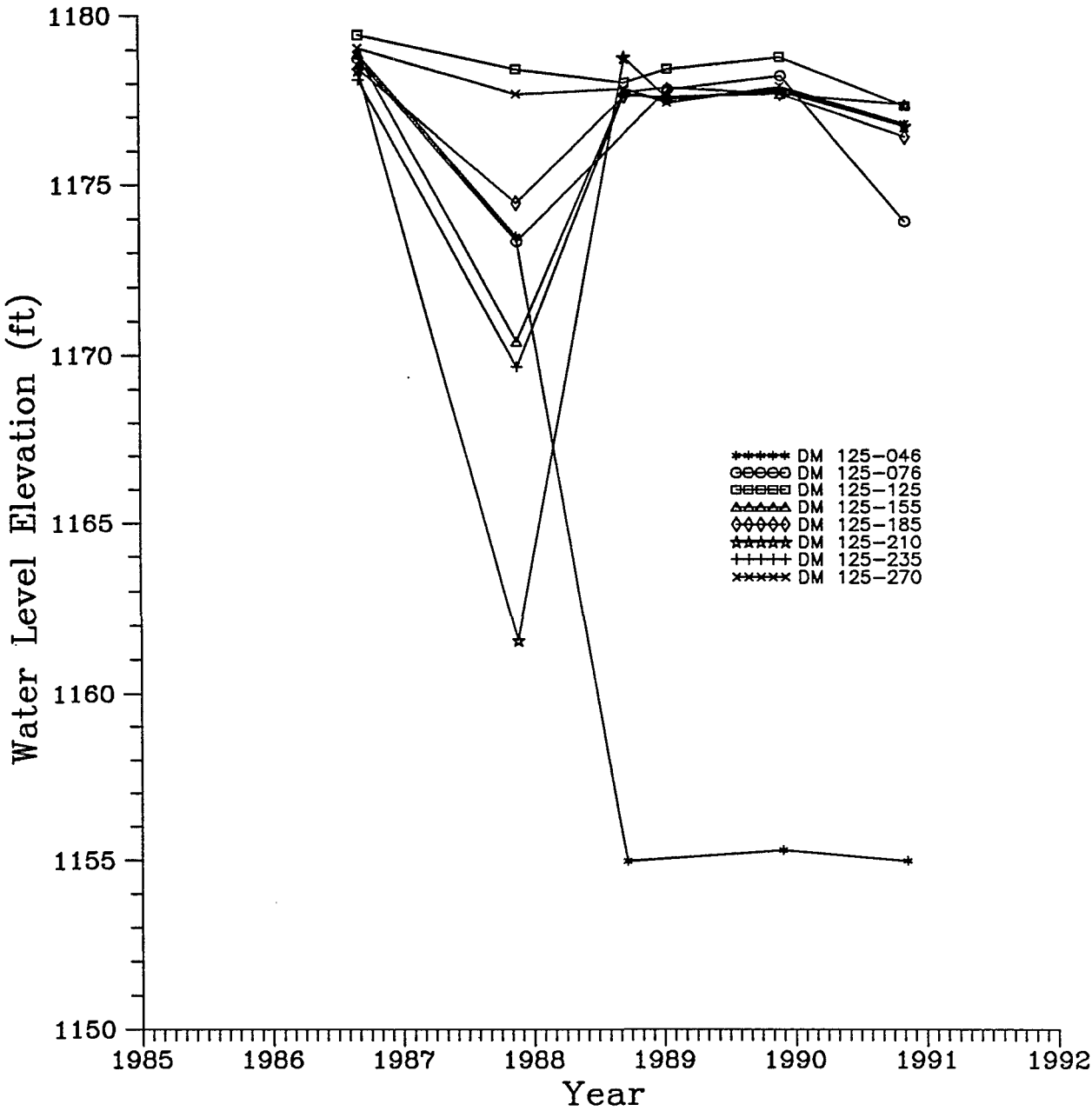


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 124

Figure G.25

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

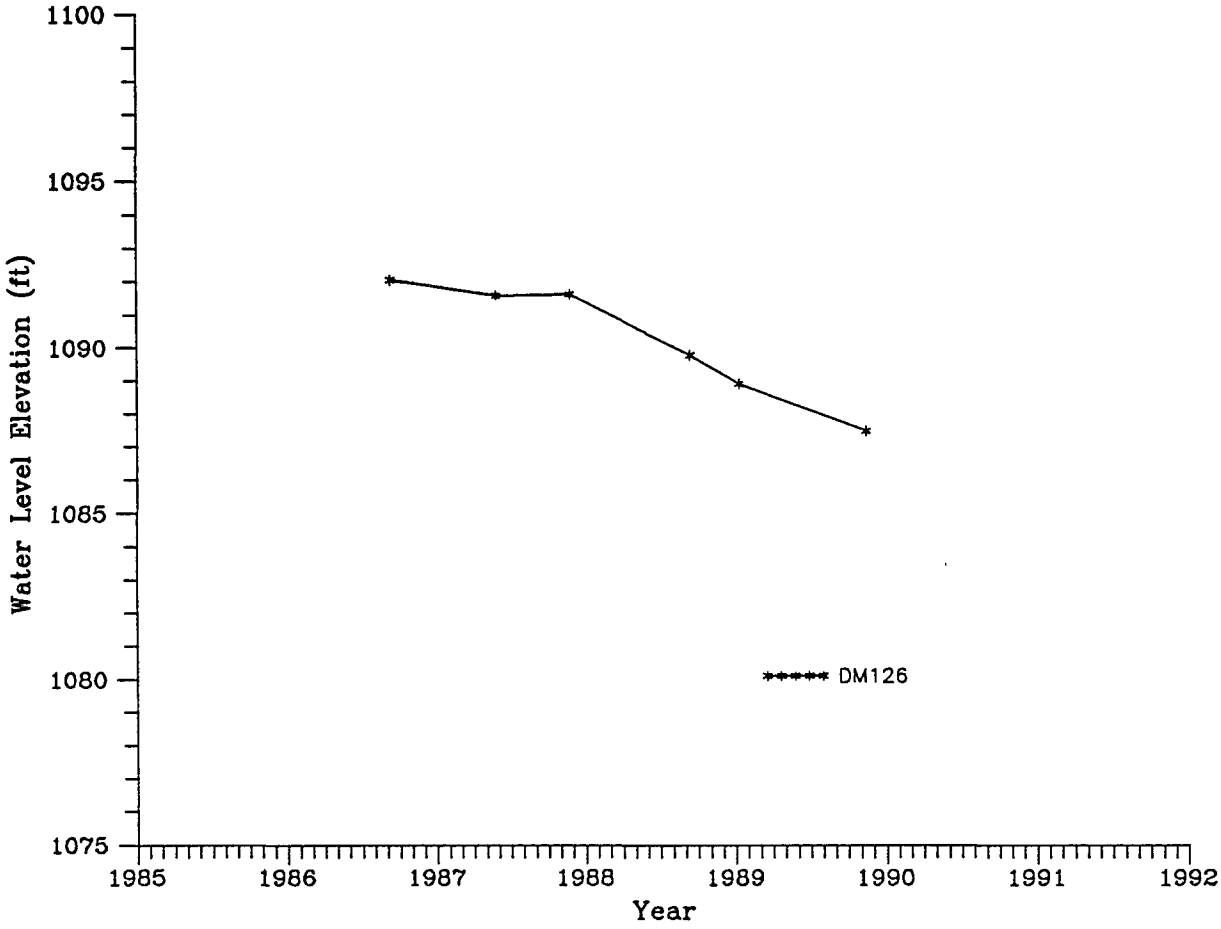


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 125

Figure G.26

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

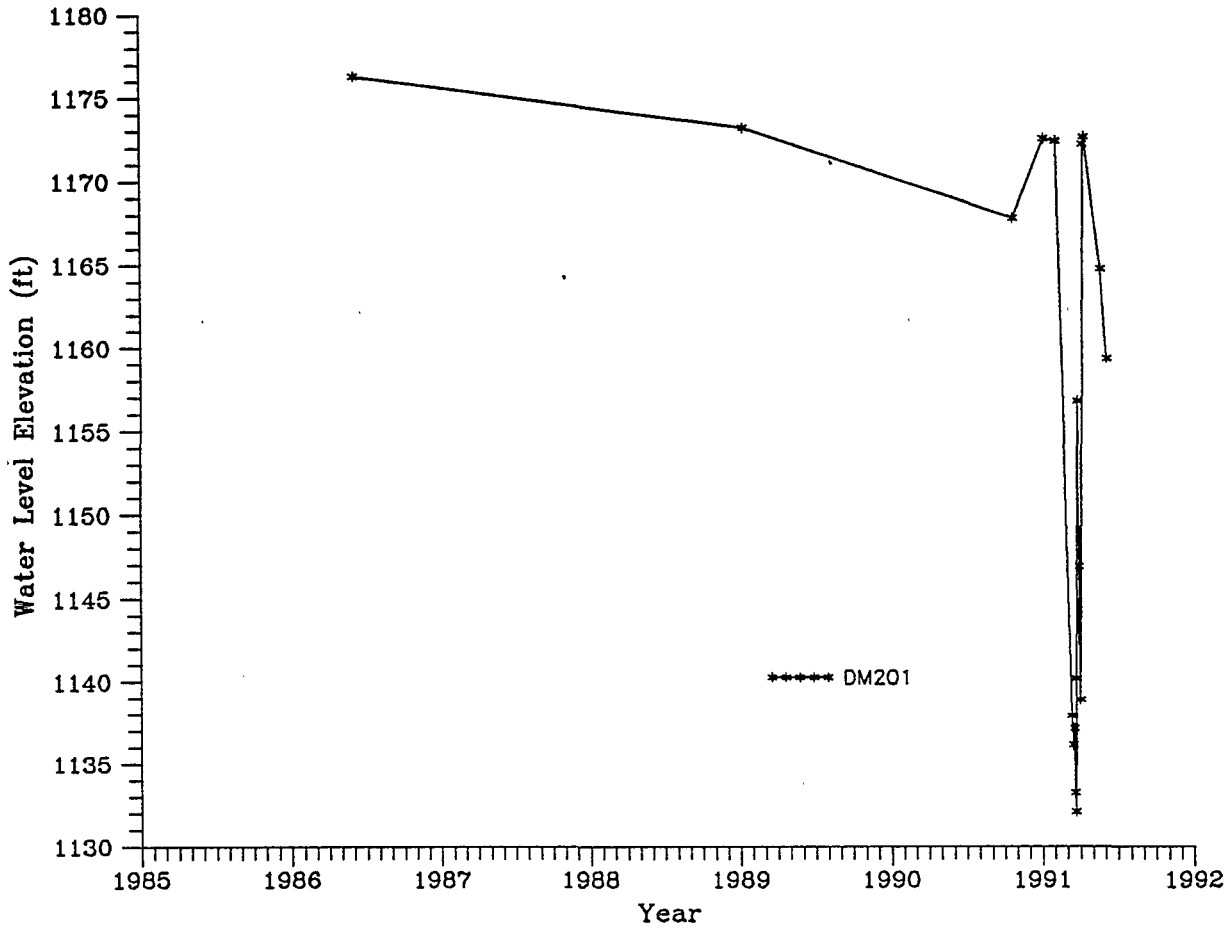


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 126

Figure G.27

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

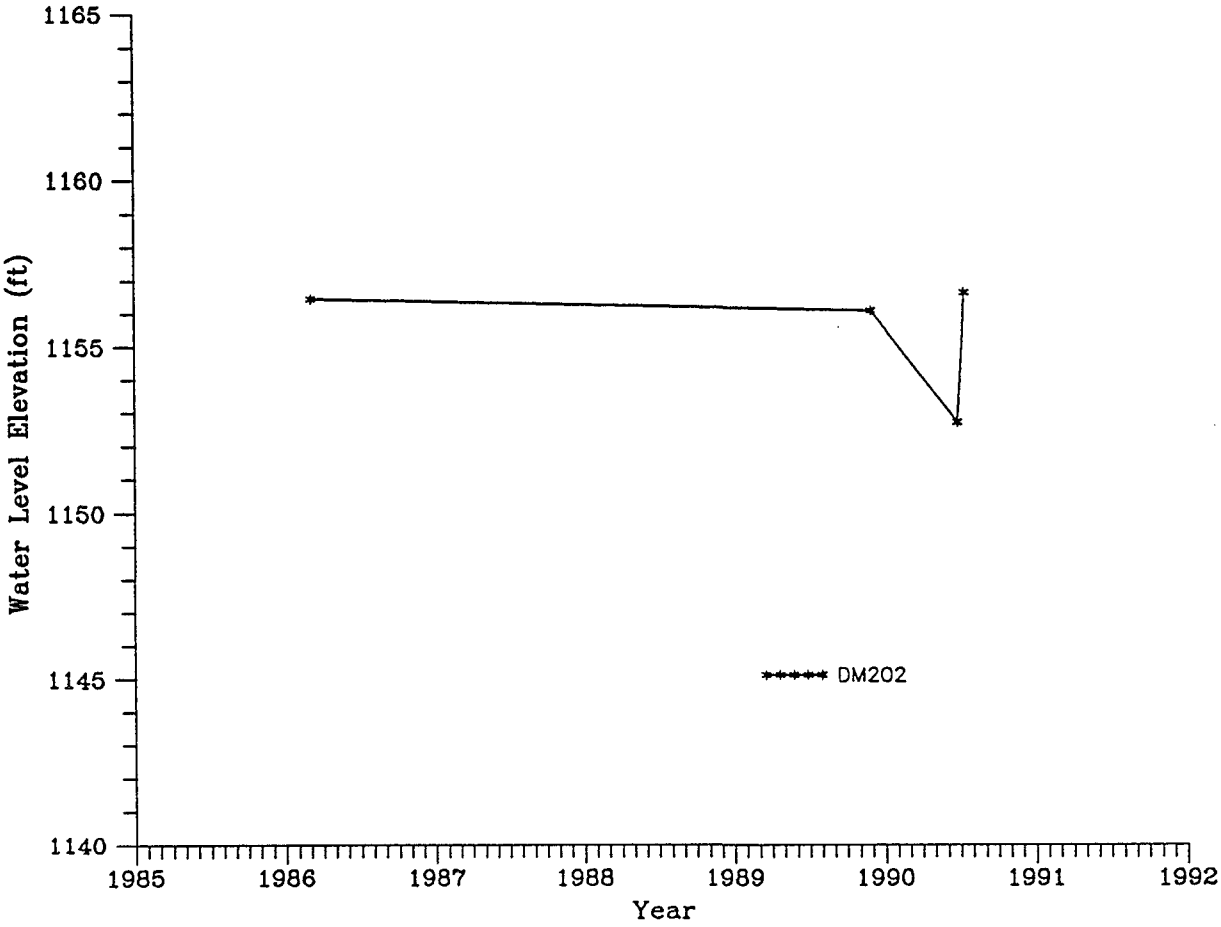


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 201

Figure G.28

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 202

Figure G.29

MOTOROLA 52nd ST.
FR RI
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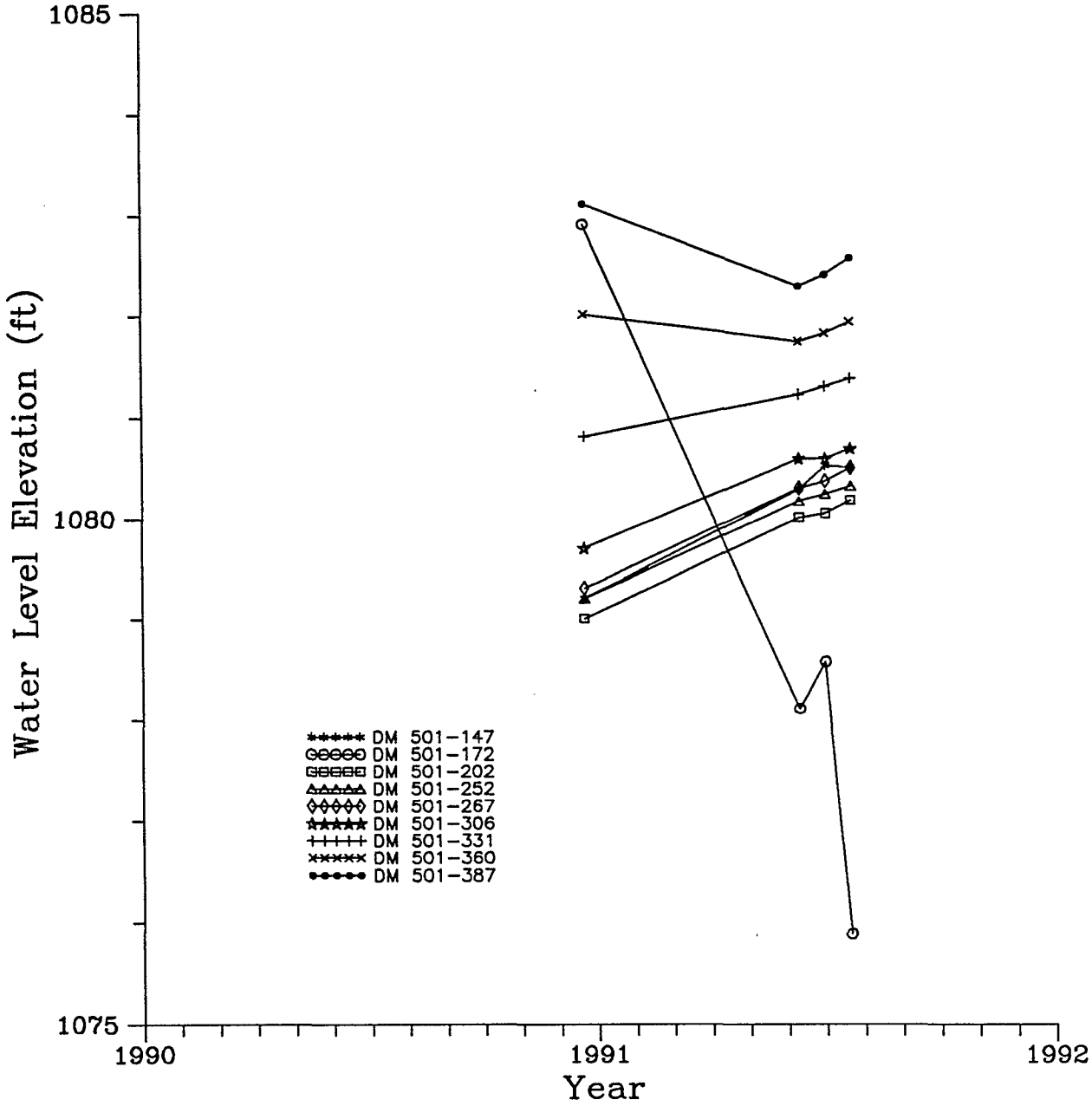

STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 501

Figure G.30

MOTOROLA 52nd ST.
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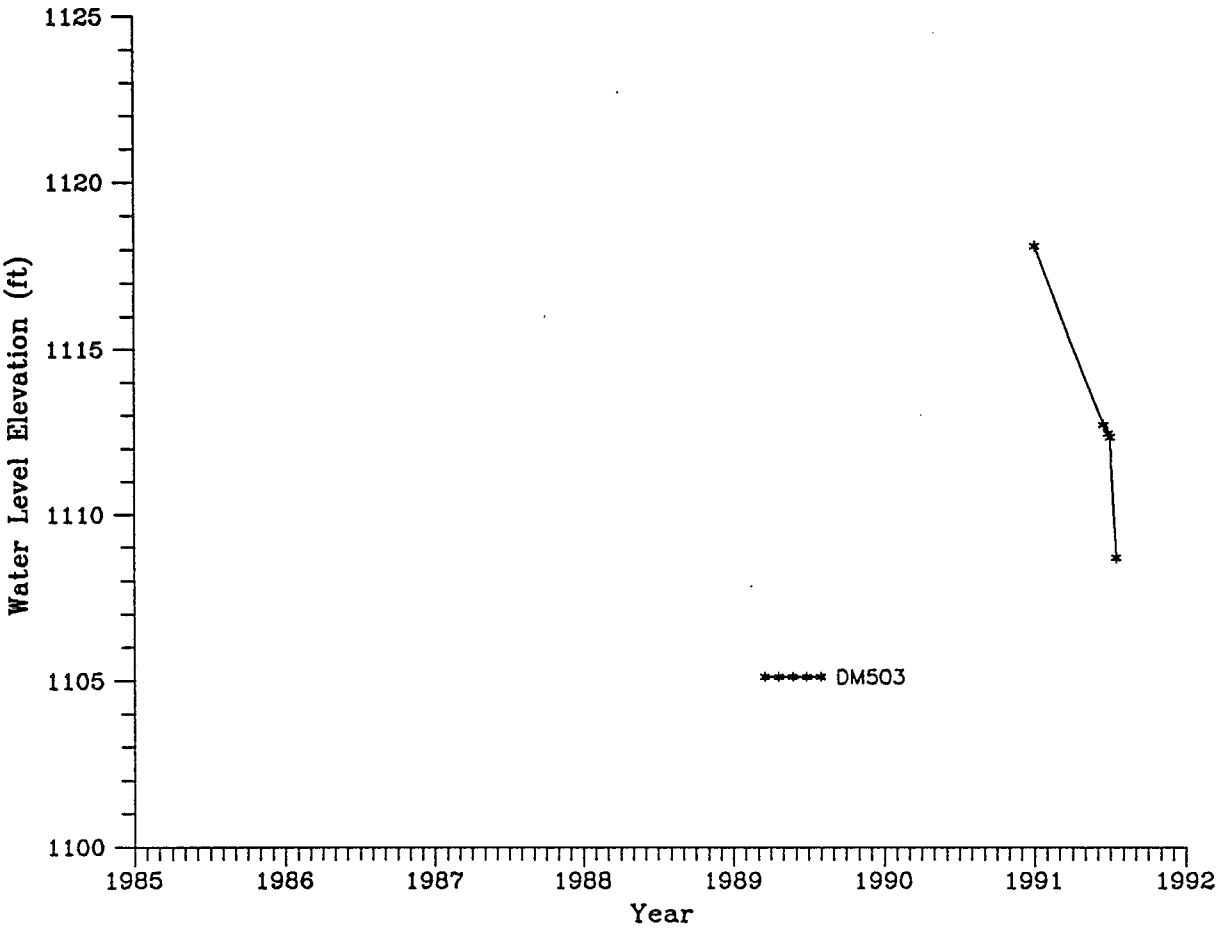

STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 503

Figure G.31

MOTOROLA 52nd ST.
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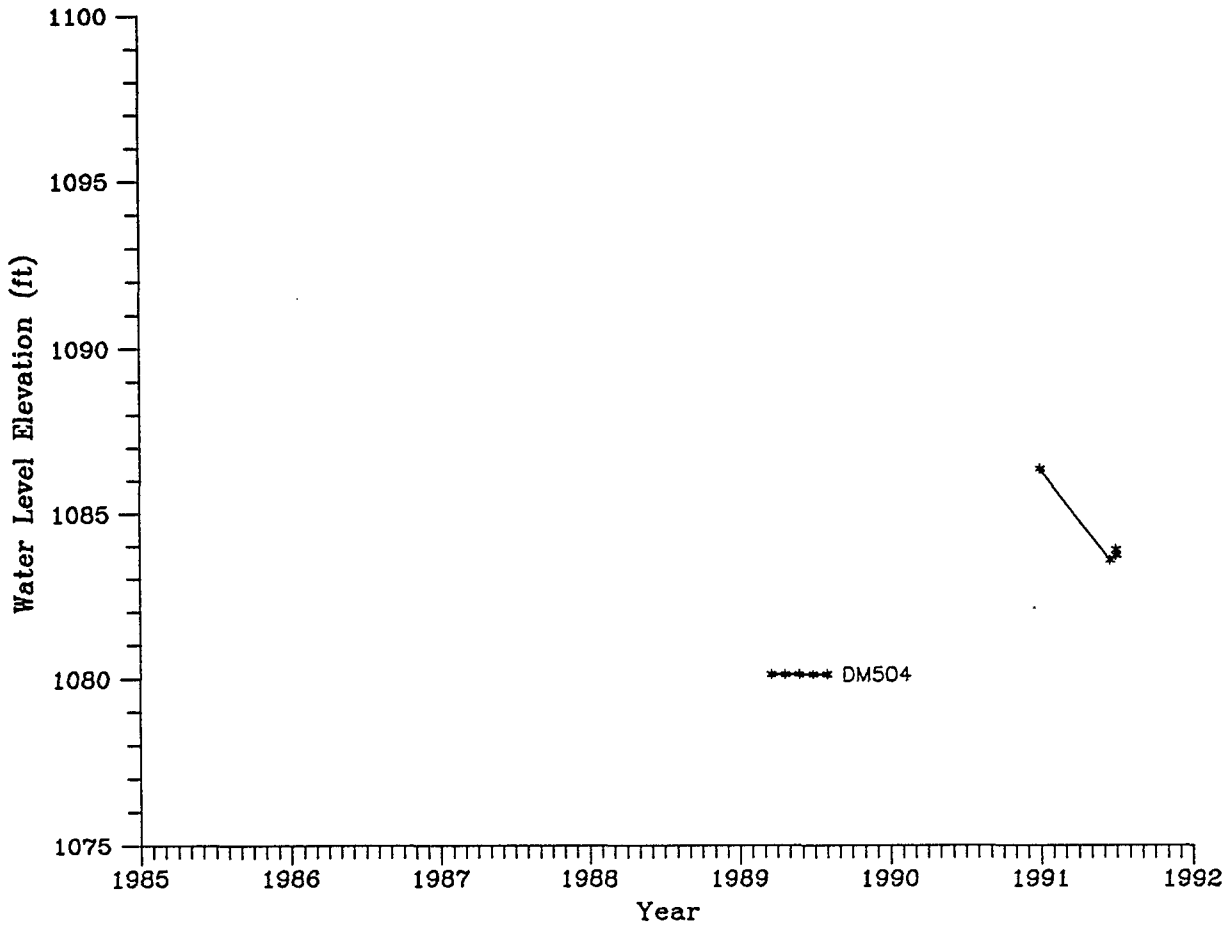

STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 504

Figure G.32

MOTOROLA 52nd ST.
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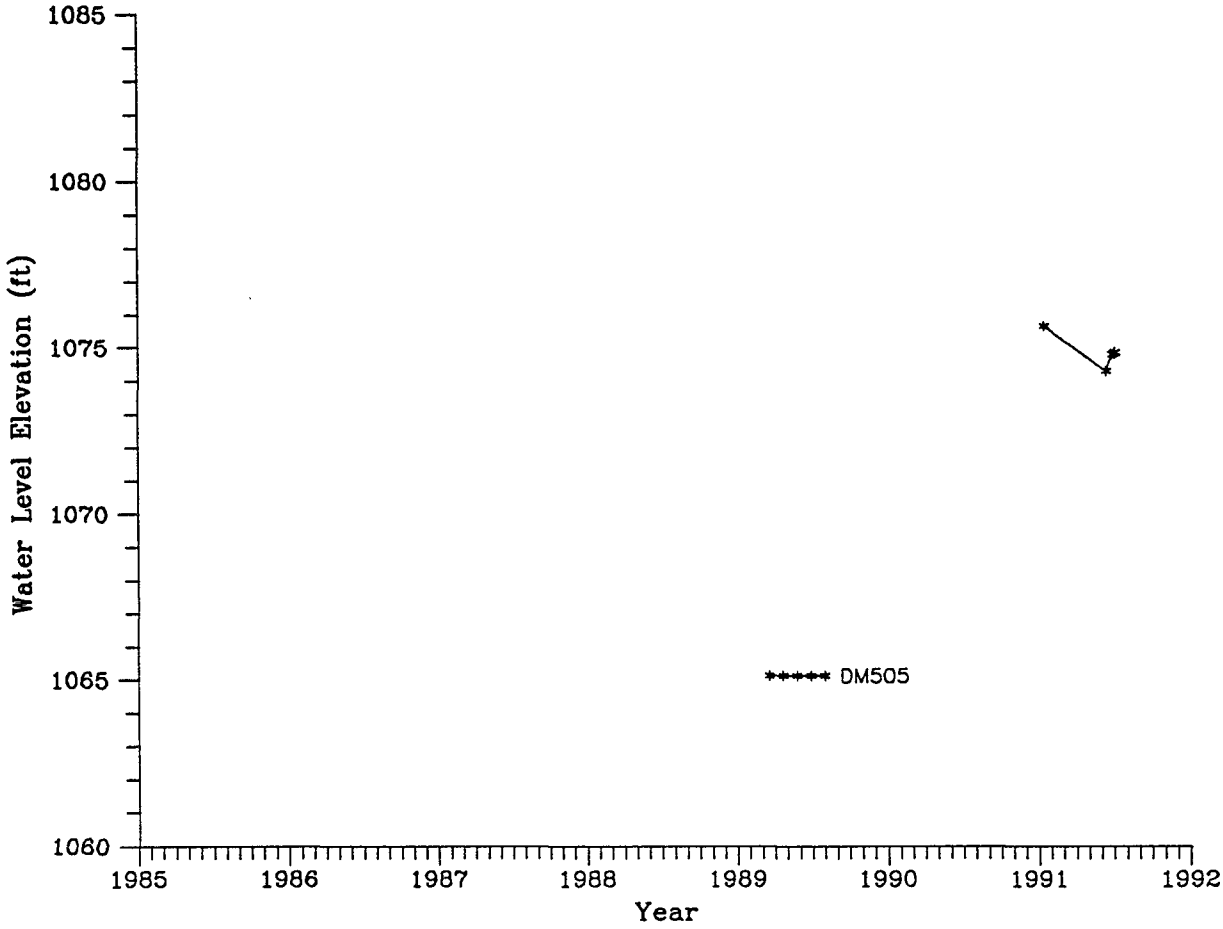
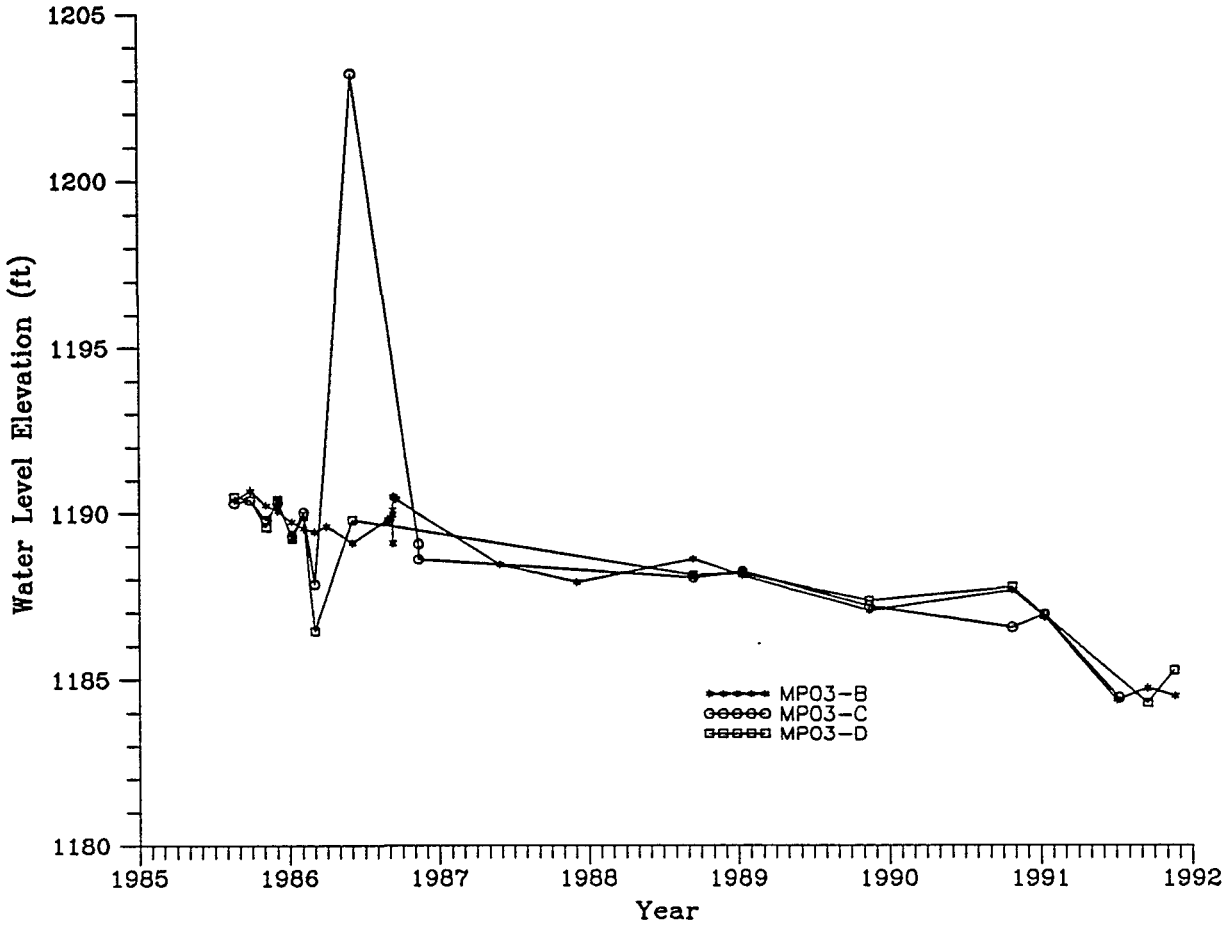


STATIC WATER LEVEL VS. TIME

MONITOR WELL DM 505

Figure G.33

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 03B, MP 03C AND MP 03D

Figure G.34

MOTOROLA 52nd ST.
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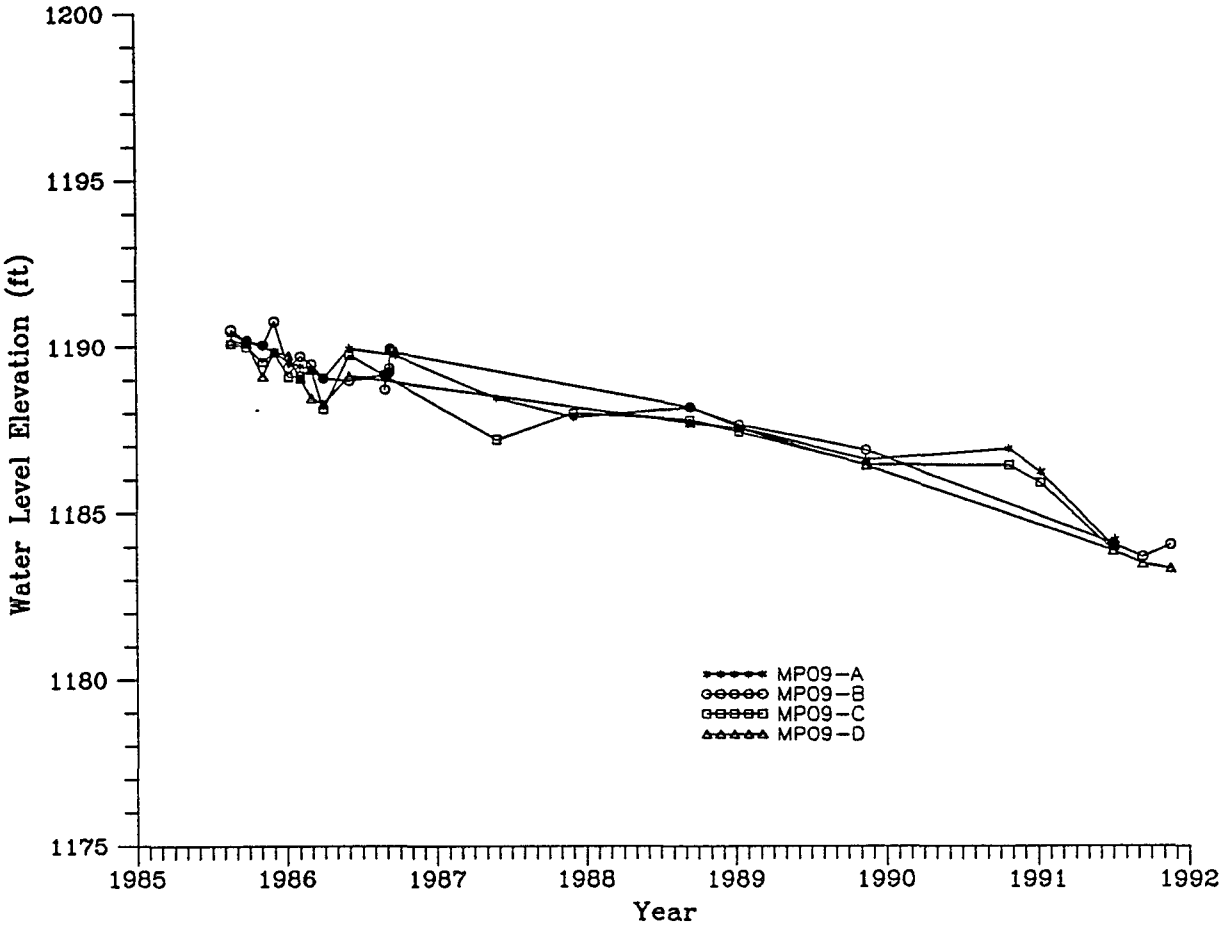
FEBRUARY 1992

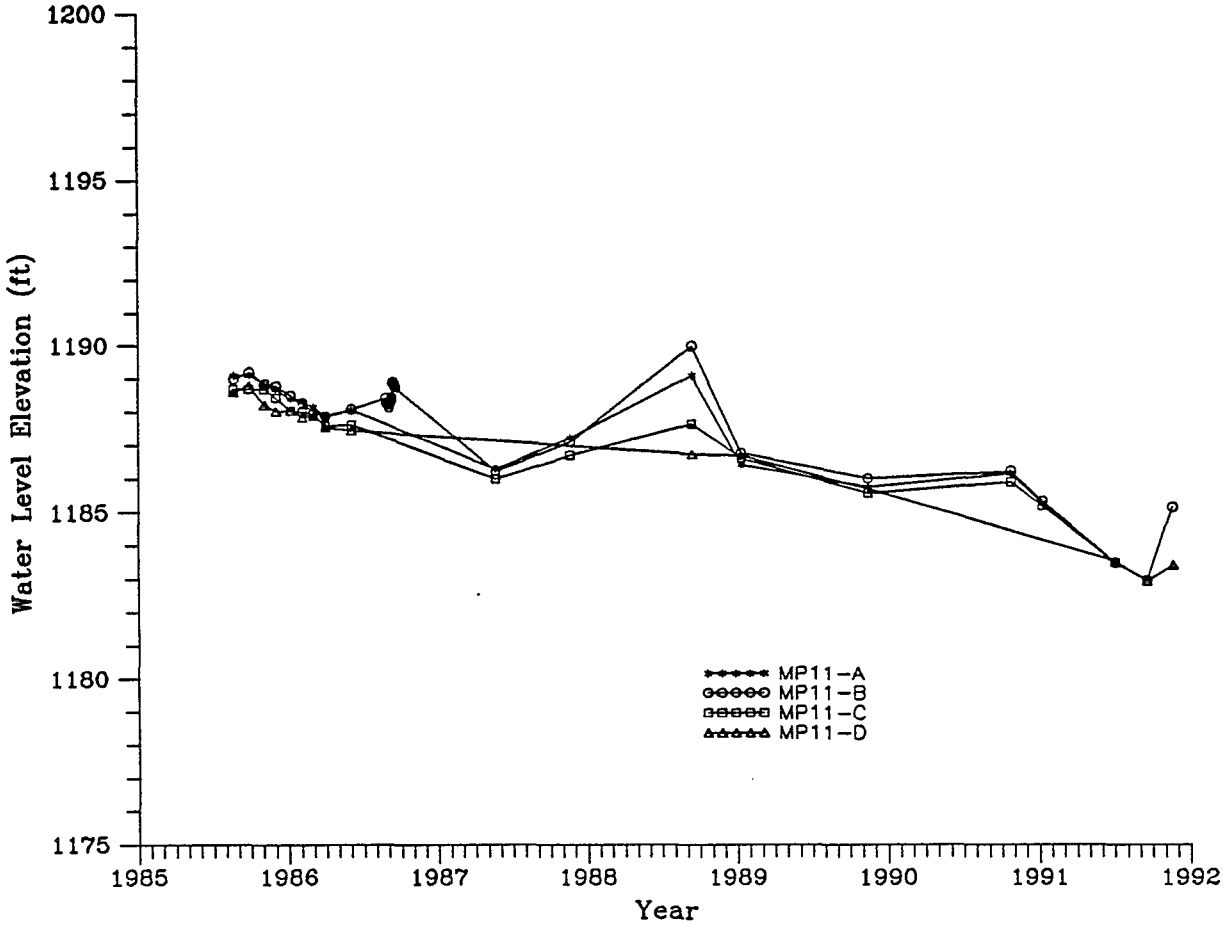


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 09A, MP 09B, MP 09C AND MP 09D

Figure G.35

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

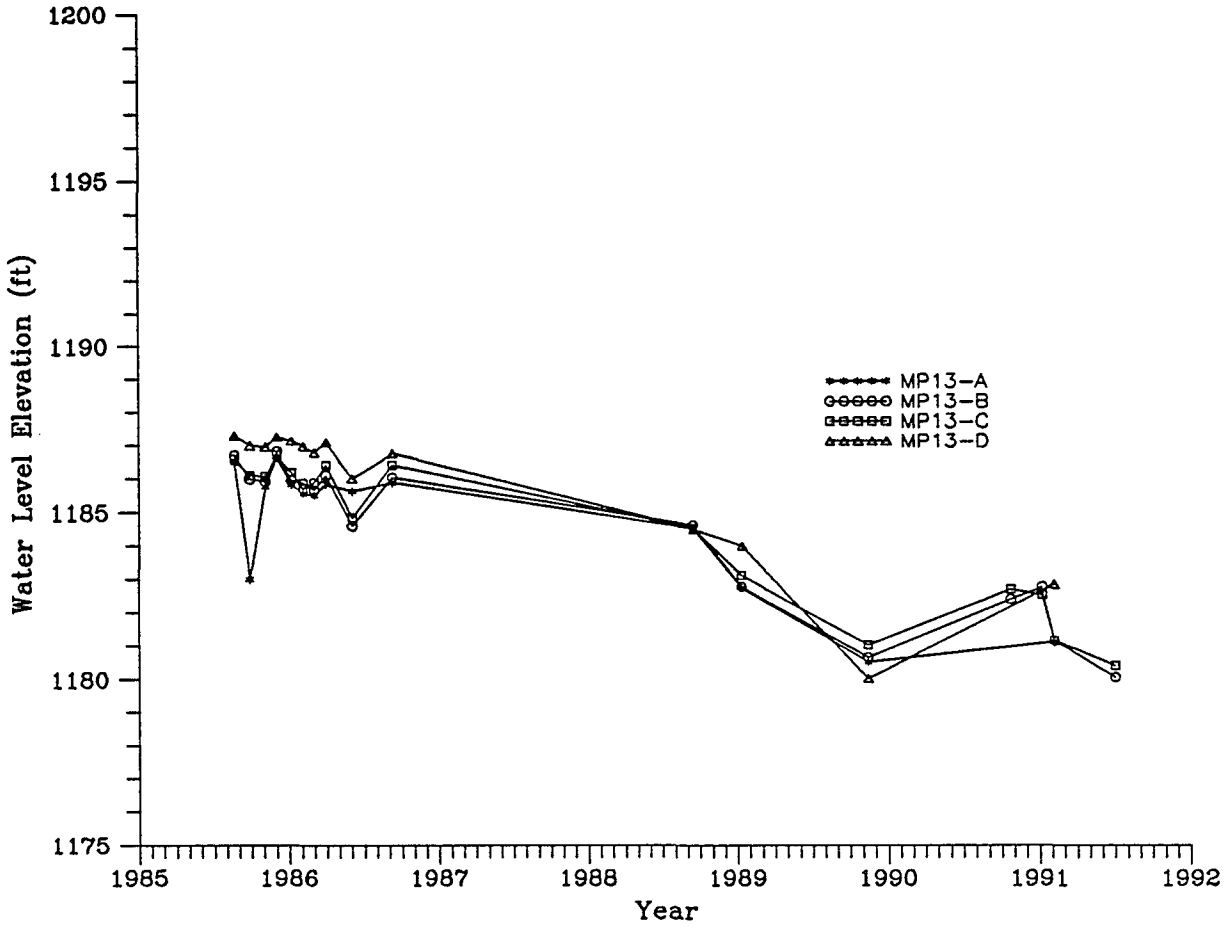


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 11A, MP 11B, MP 11C AND MP 11D

Figure G.36

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

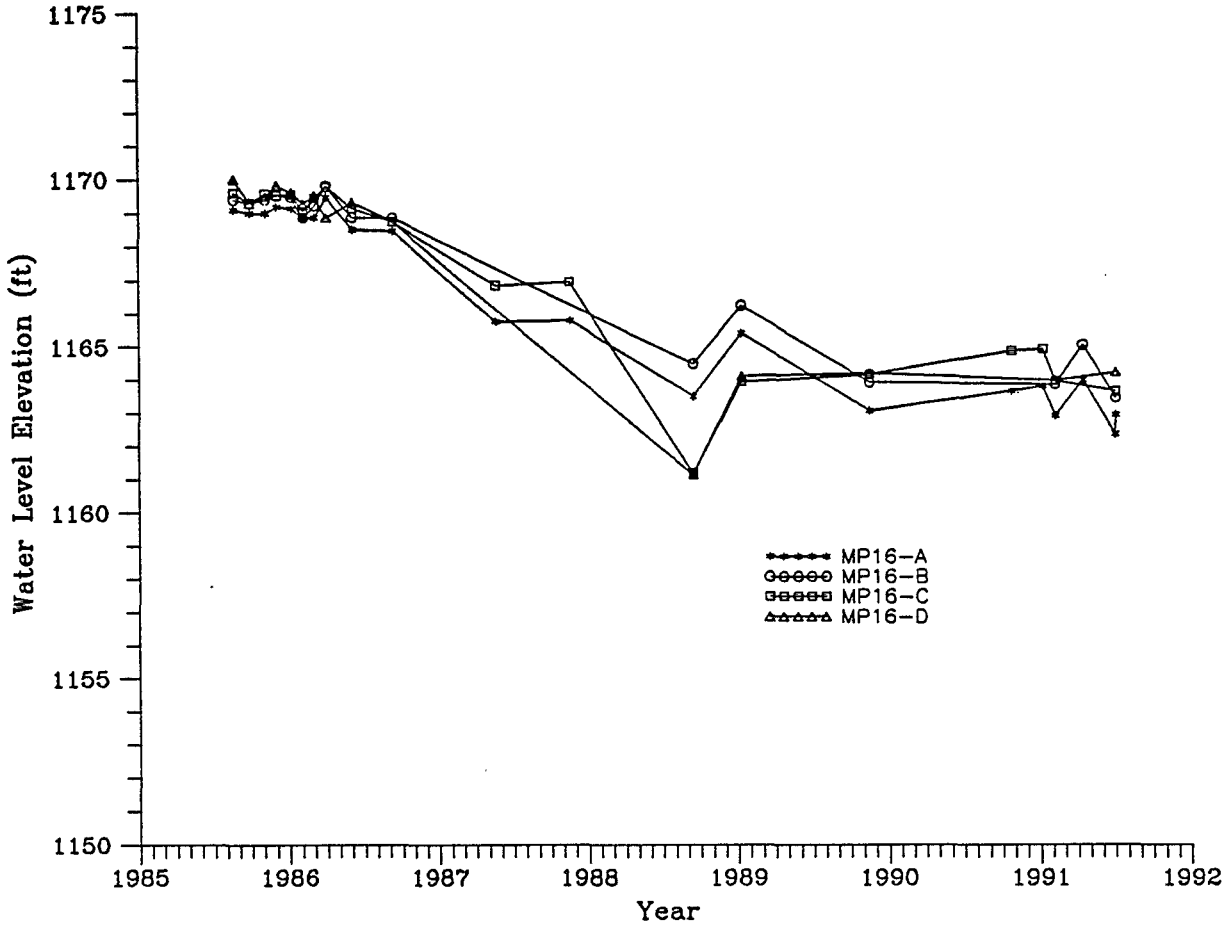


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 13A, MP 13B, MP 13C AND MP 13D

Figure G.37

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

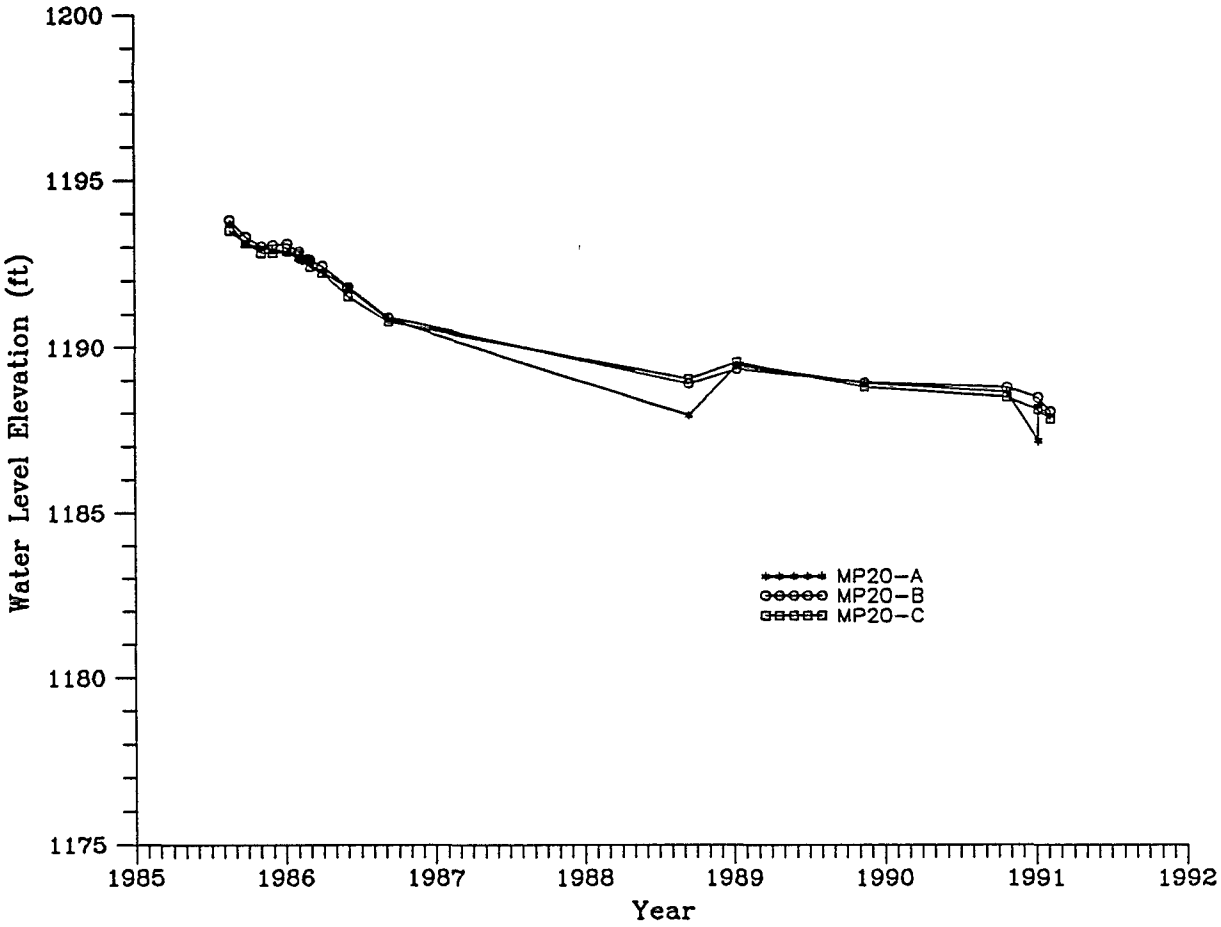


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 16A, MP 16B MP 16C AND MP 16D

Figure G.38

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

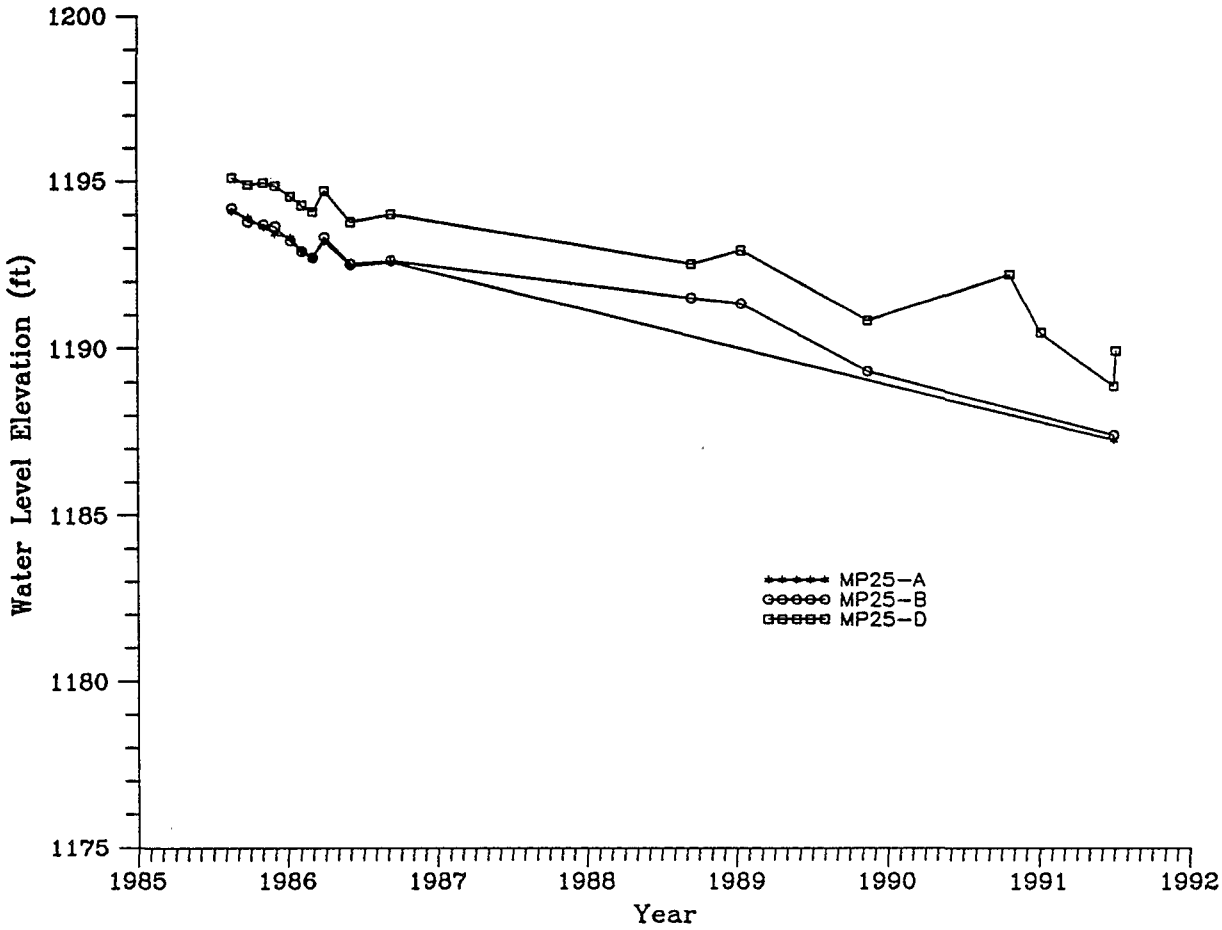


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 20A, MP 20B, AND MP 20C

Figure G.39

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

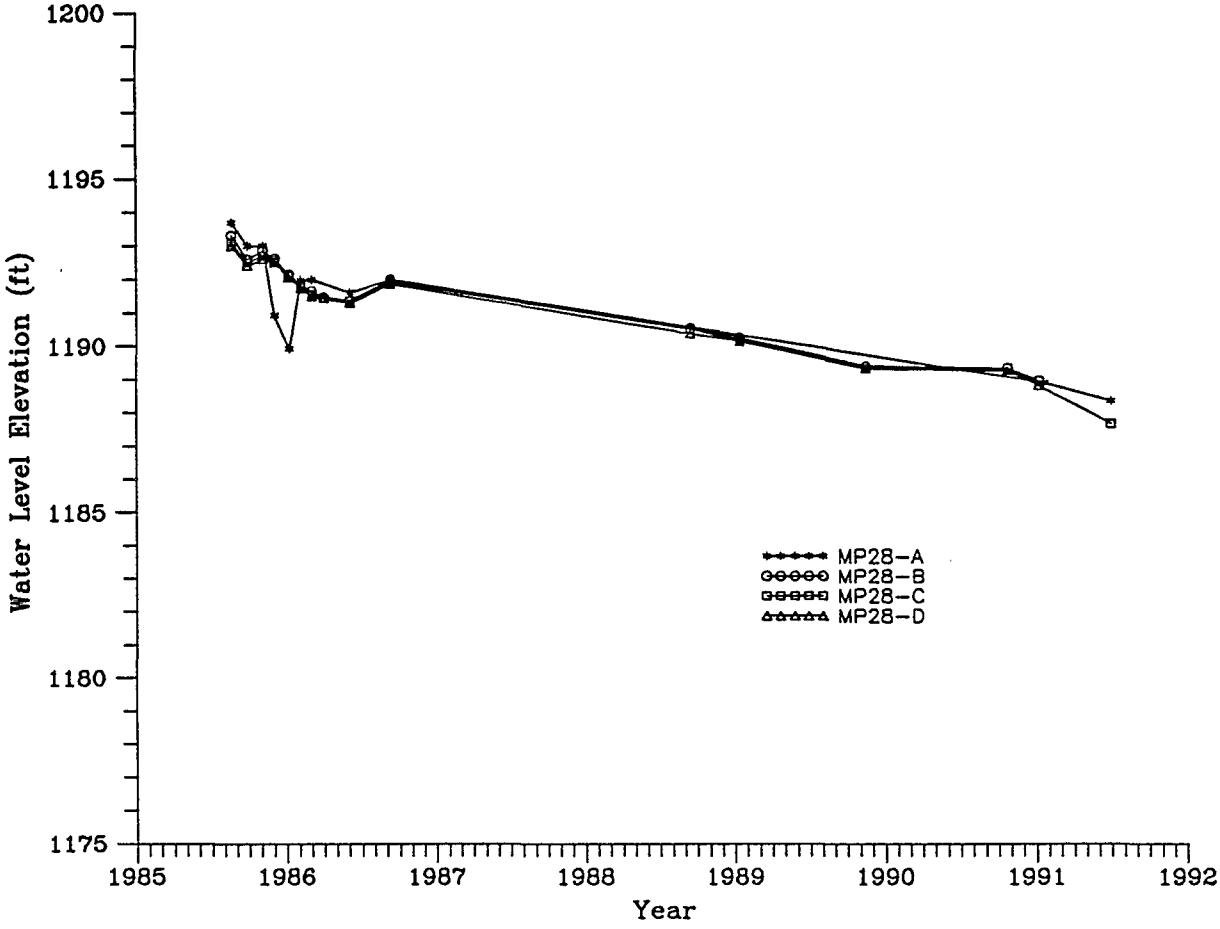


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 25A, MP 25B, AND MP 25D

Figure G.40

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

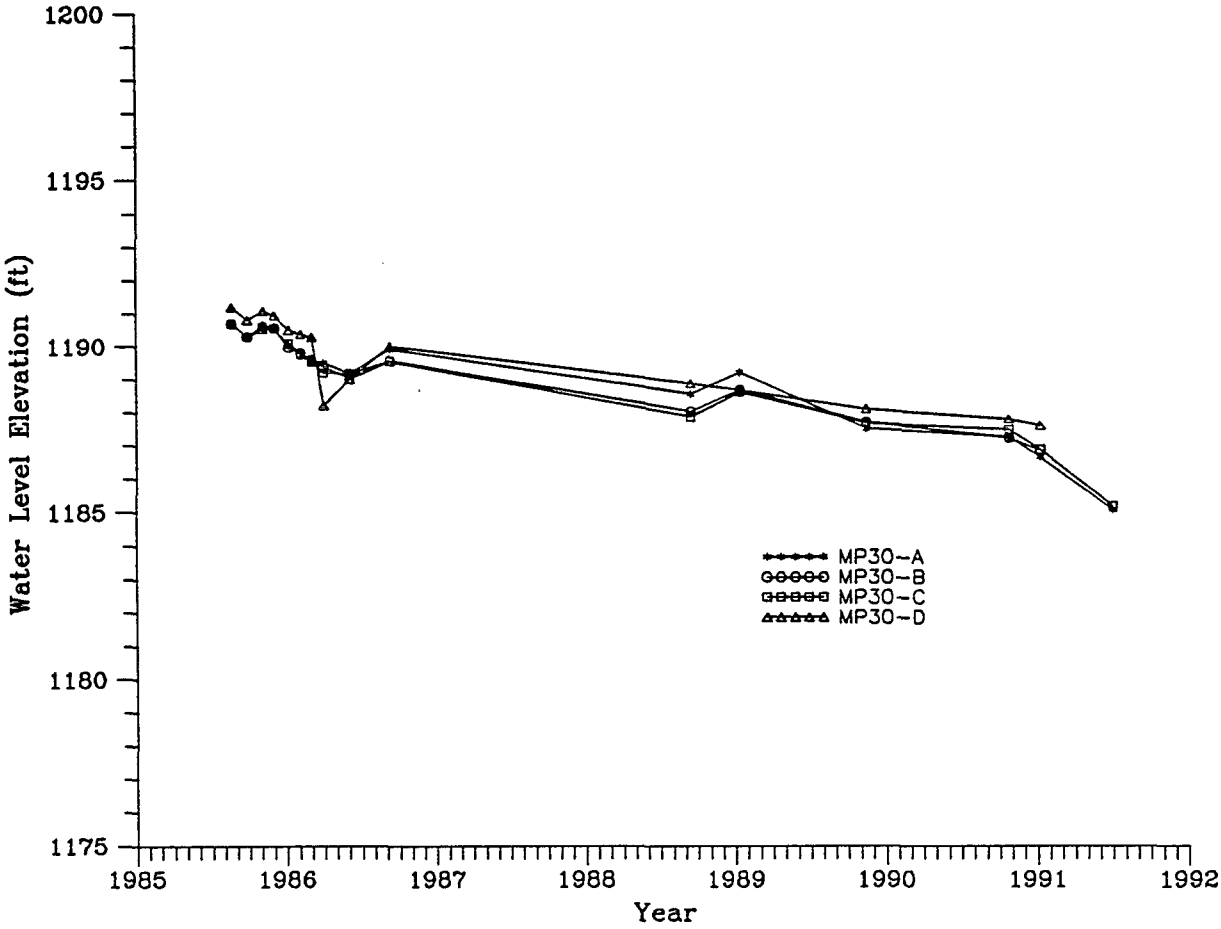


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 28A, MP 28B, MP 28C AND MP 28D

Figure G.41

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

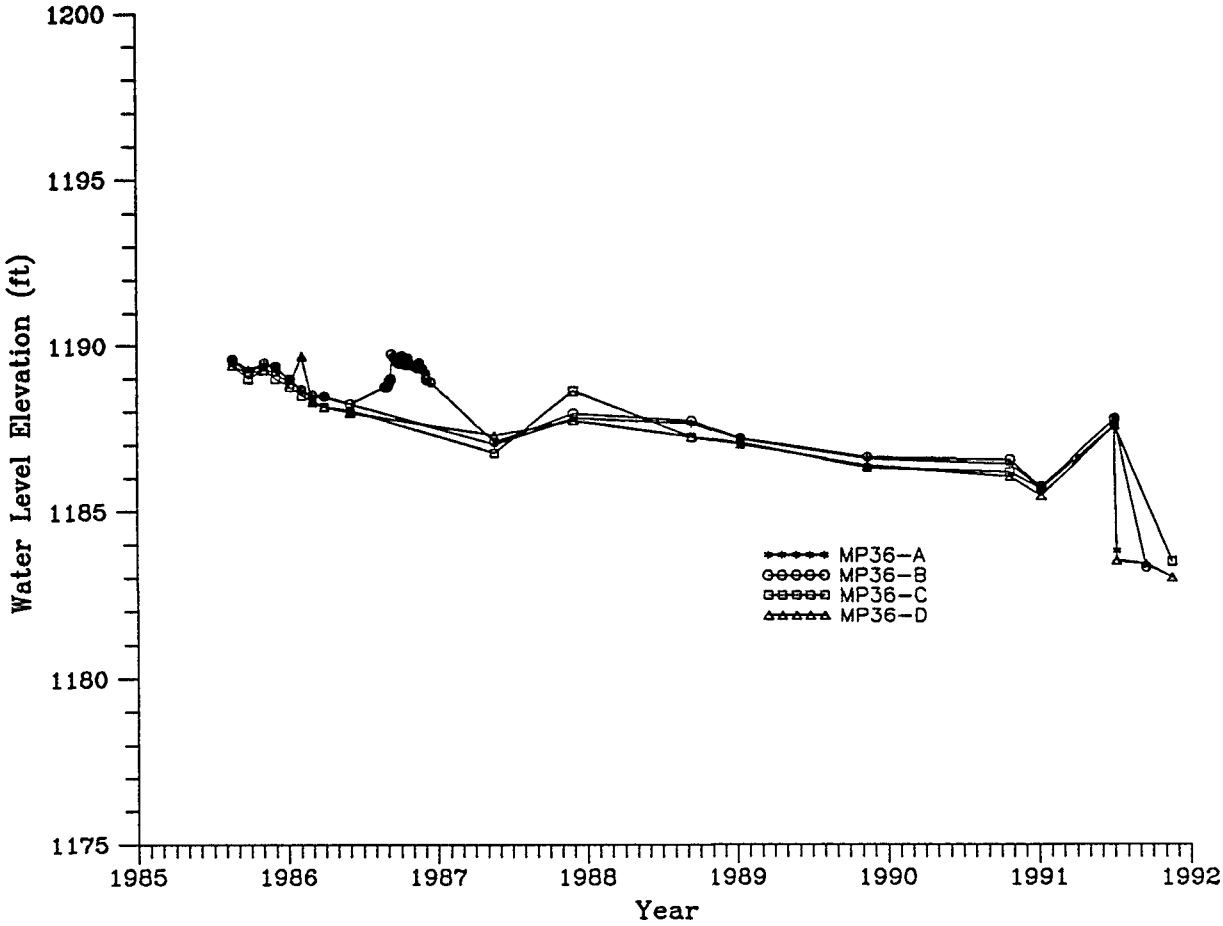


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 30A, MP 30B, MP 30C AND MP 30D

Figure G.42

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

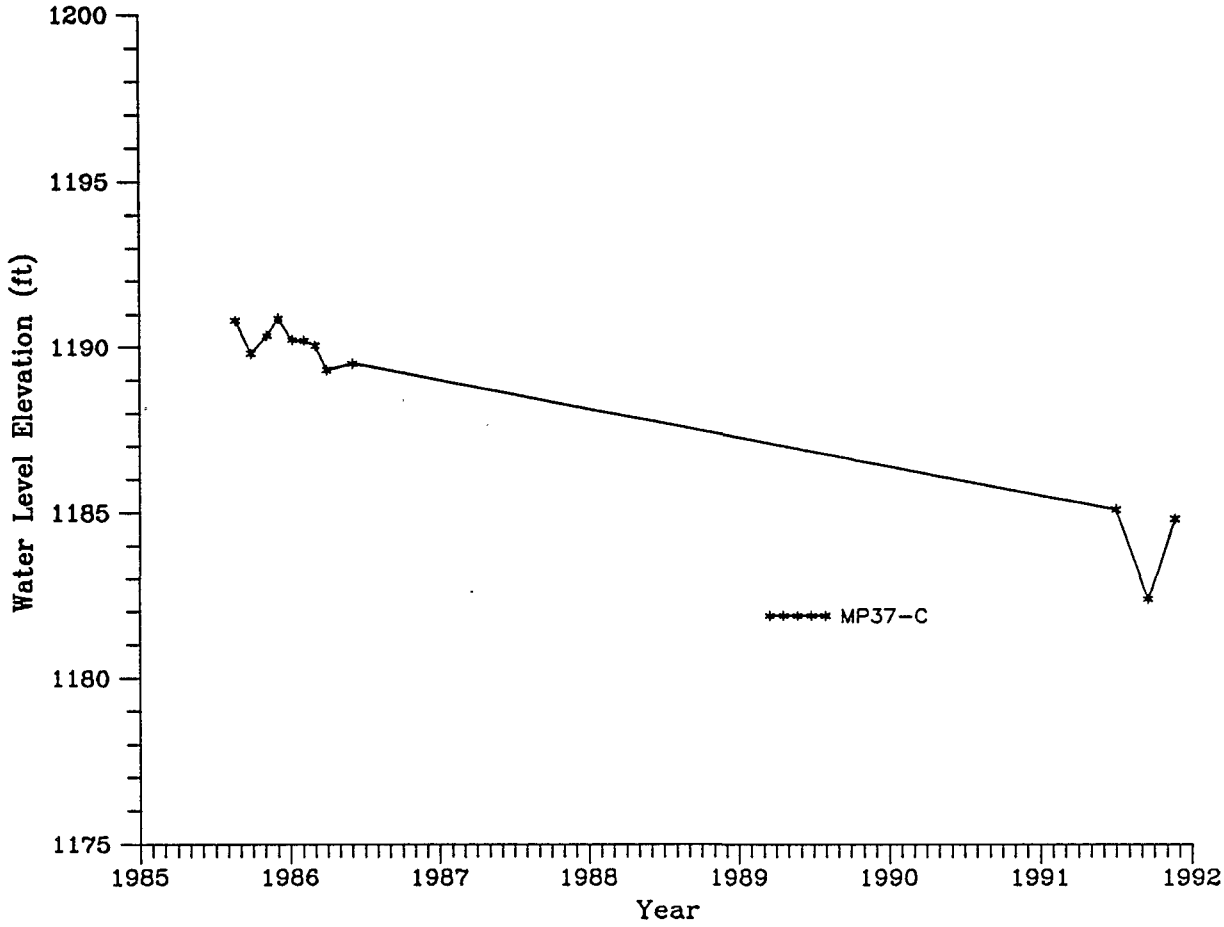


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 36A, MP 36B, MP 36C AND MP 36D

Figure G.43

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

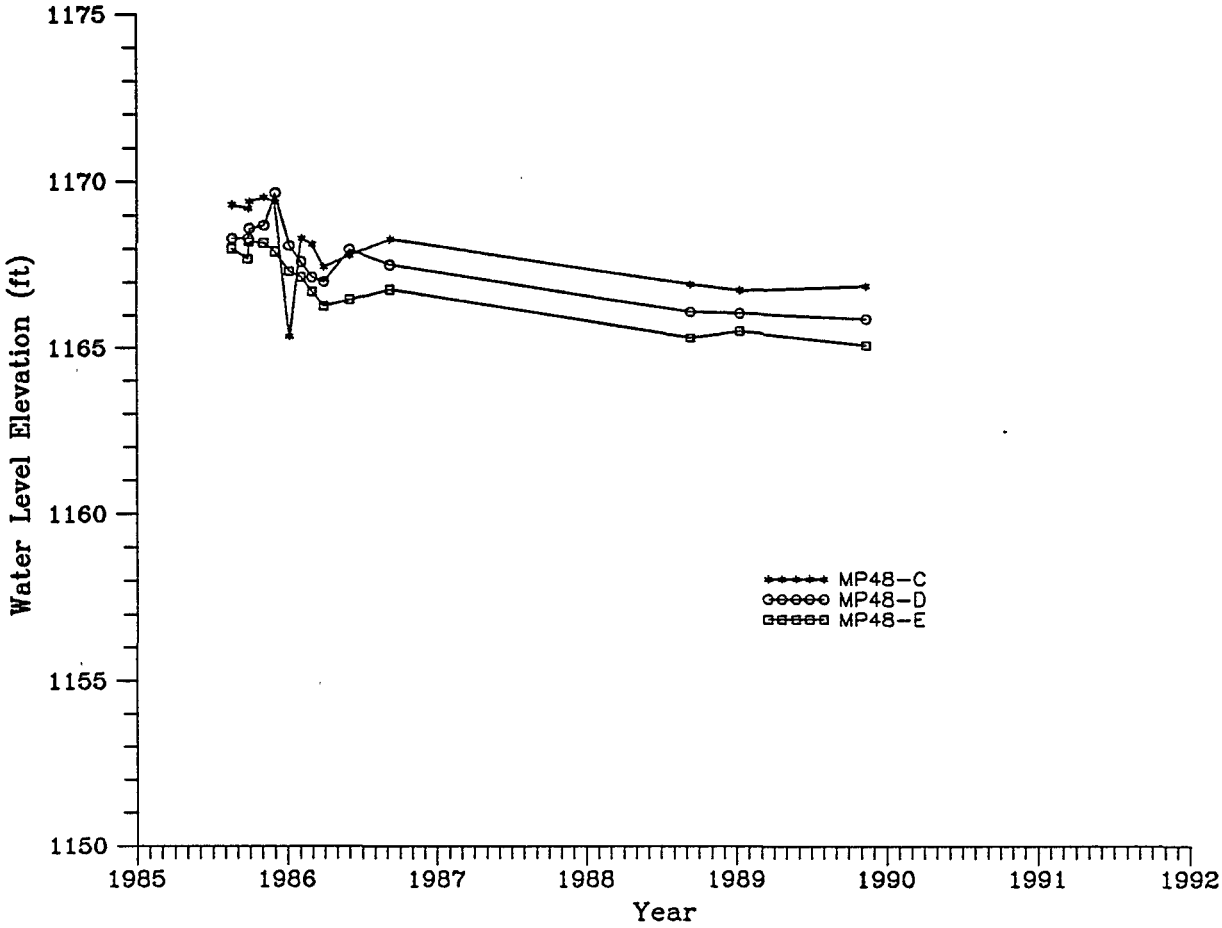


STATIC WATER LEVEL VS. TIME

MONITOR WELL MP 37C

Figure G.44

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

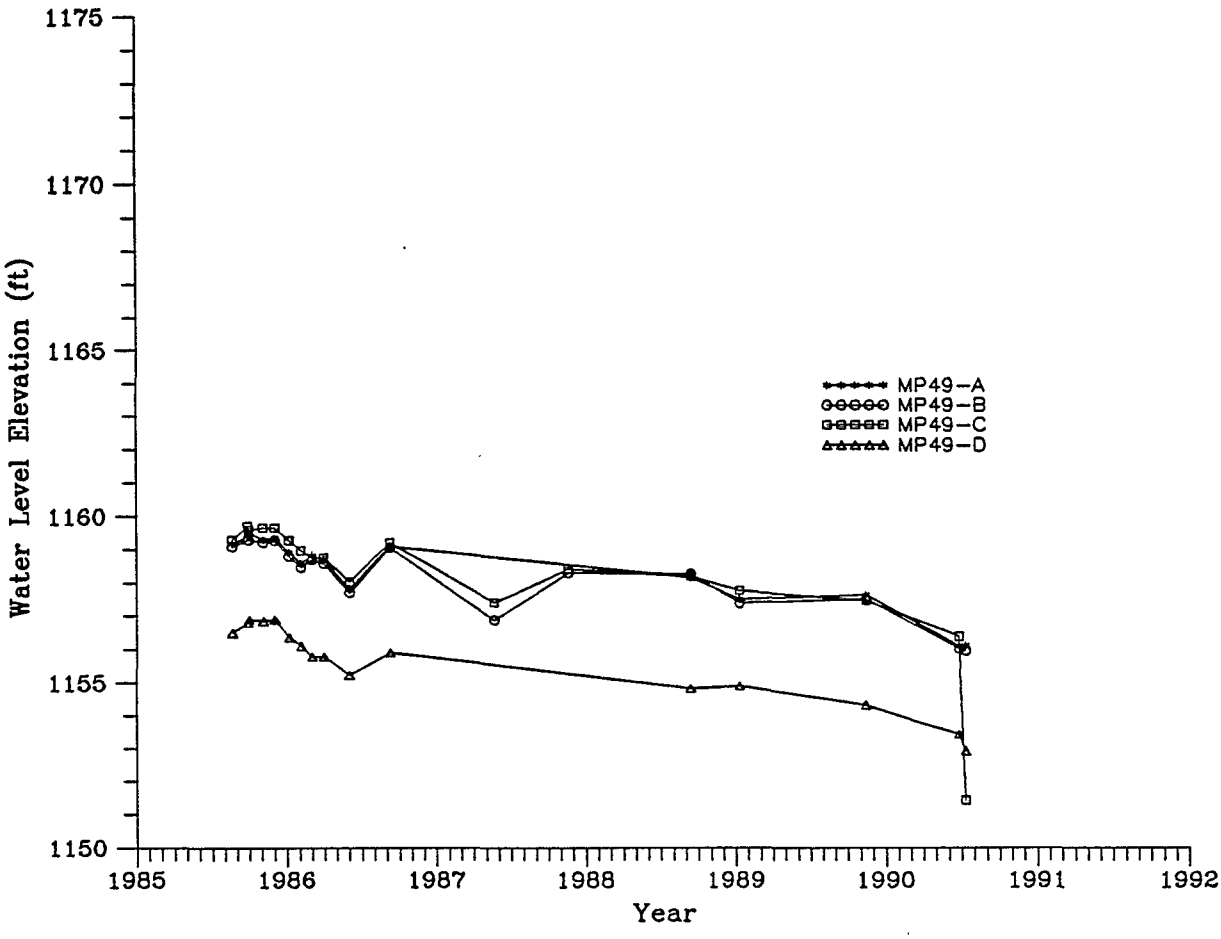


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 48C, MP 48D, AND MP 48E

Figure G.45

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

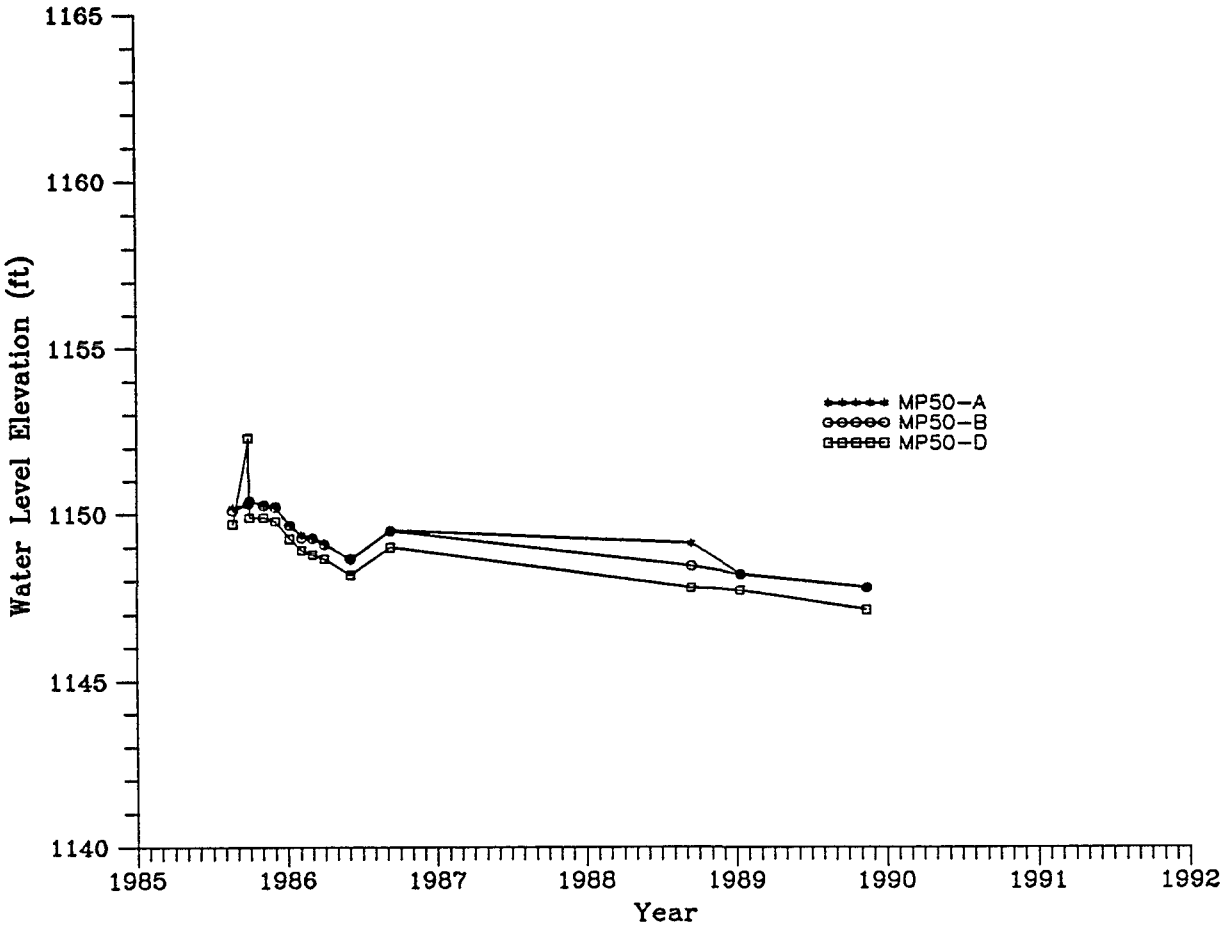


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 49A, MP 49B, MP 49C AND MP 49D

Figure G.46

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

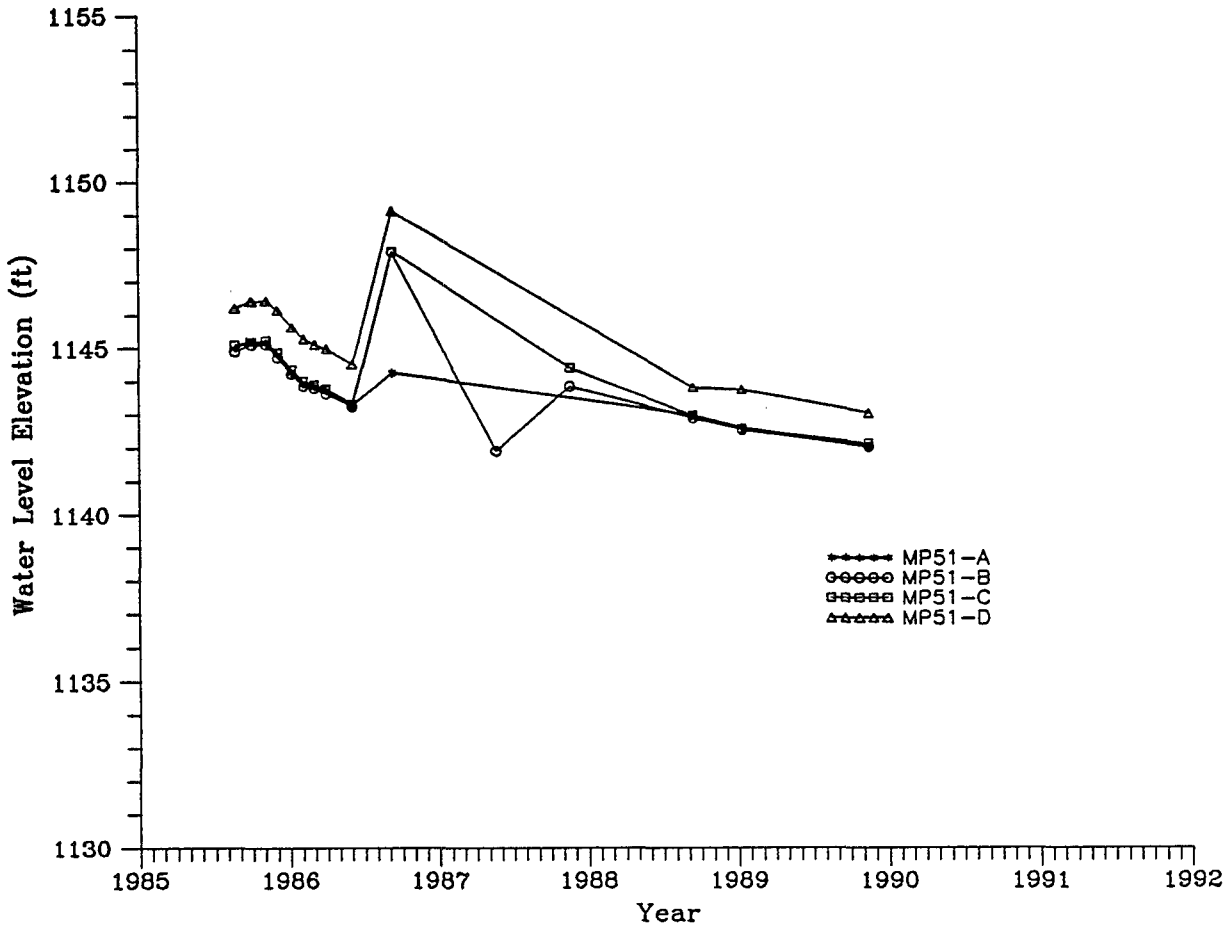


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 50A, MP 50B, AND MP 50D

Figure G.47

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

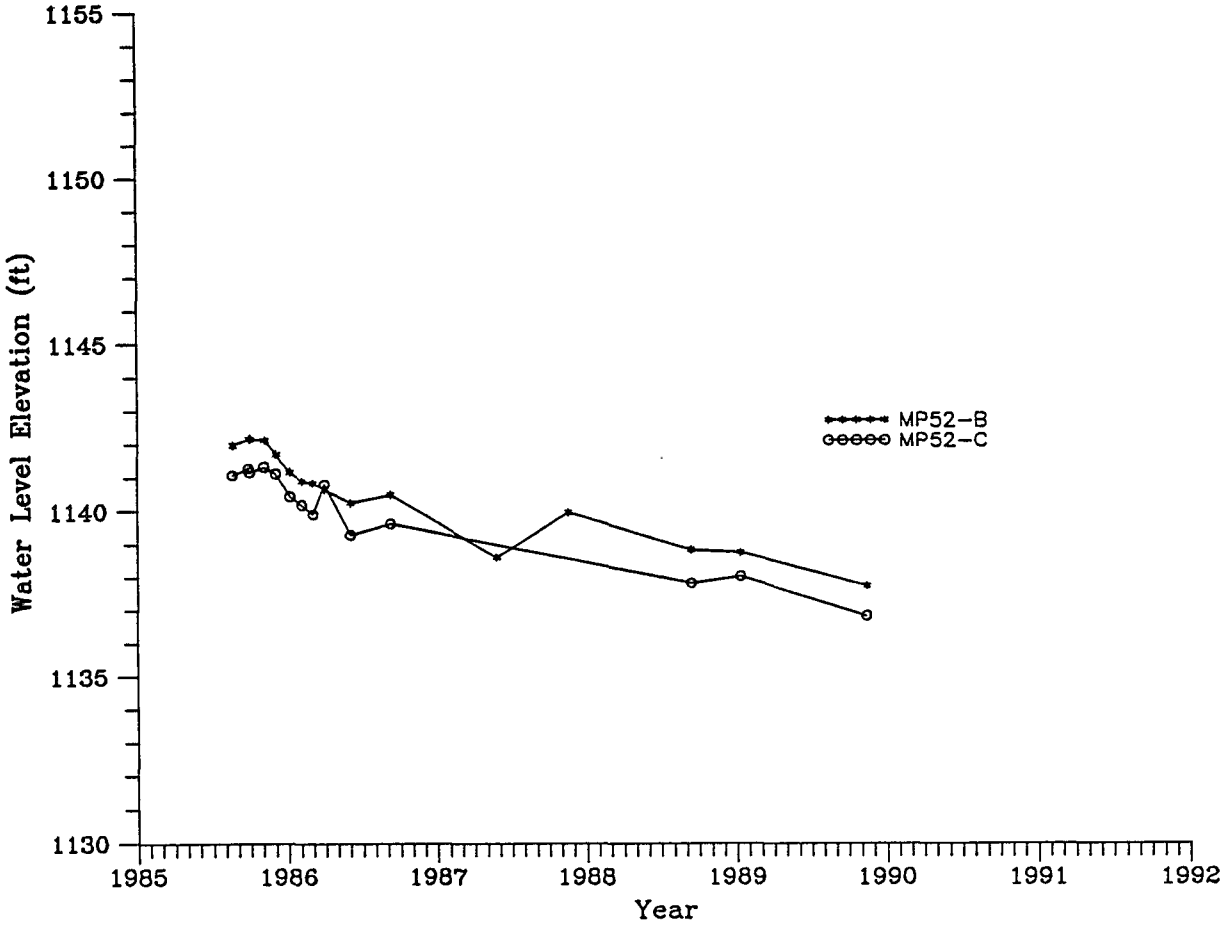


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 51A, MP 51B, MP 51C AND MP 51D

Figure G.48

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

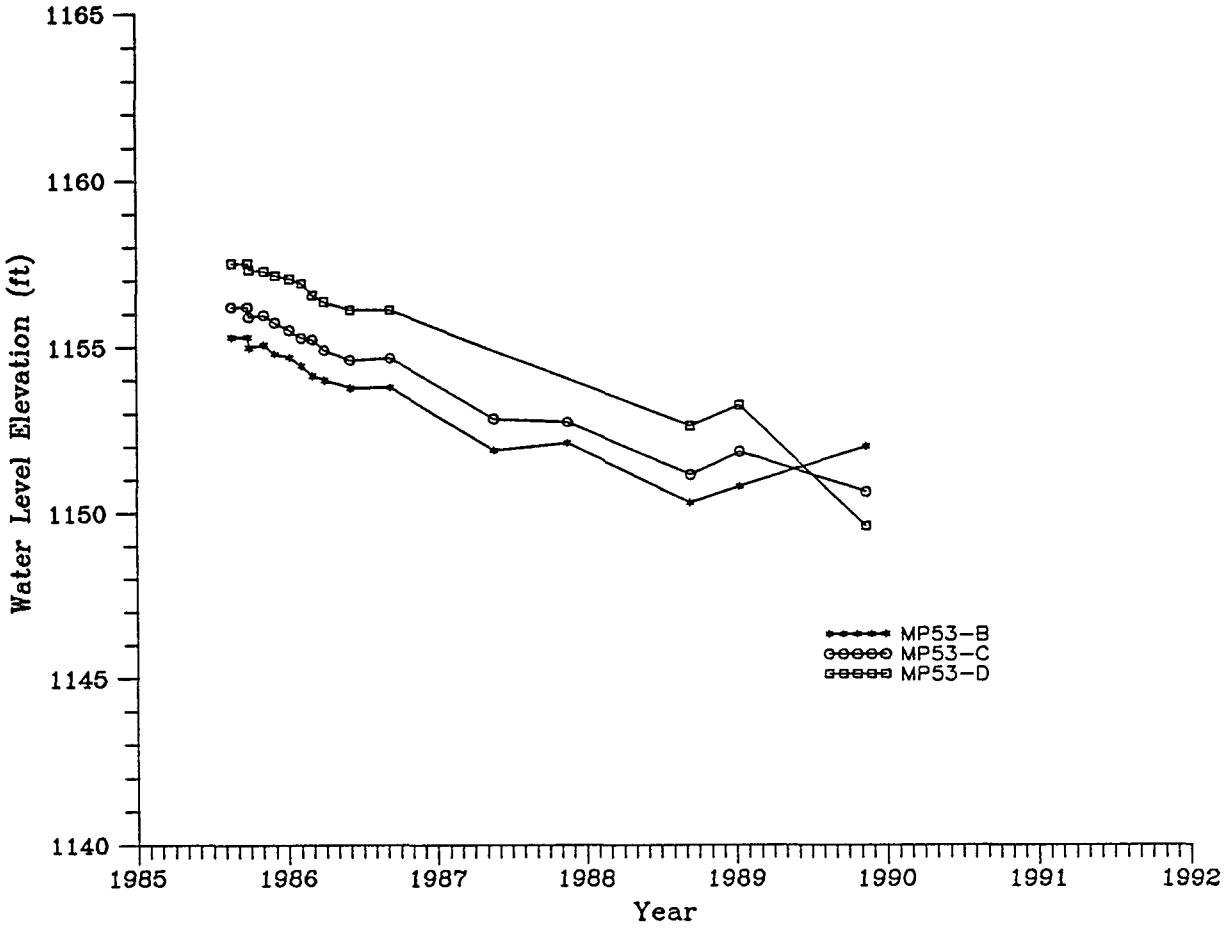


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 52B AND MP 52C

Figure G.49

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

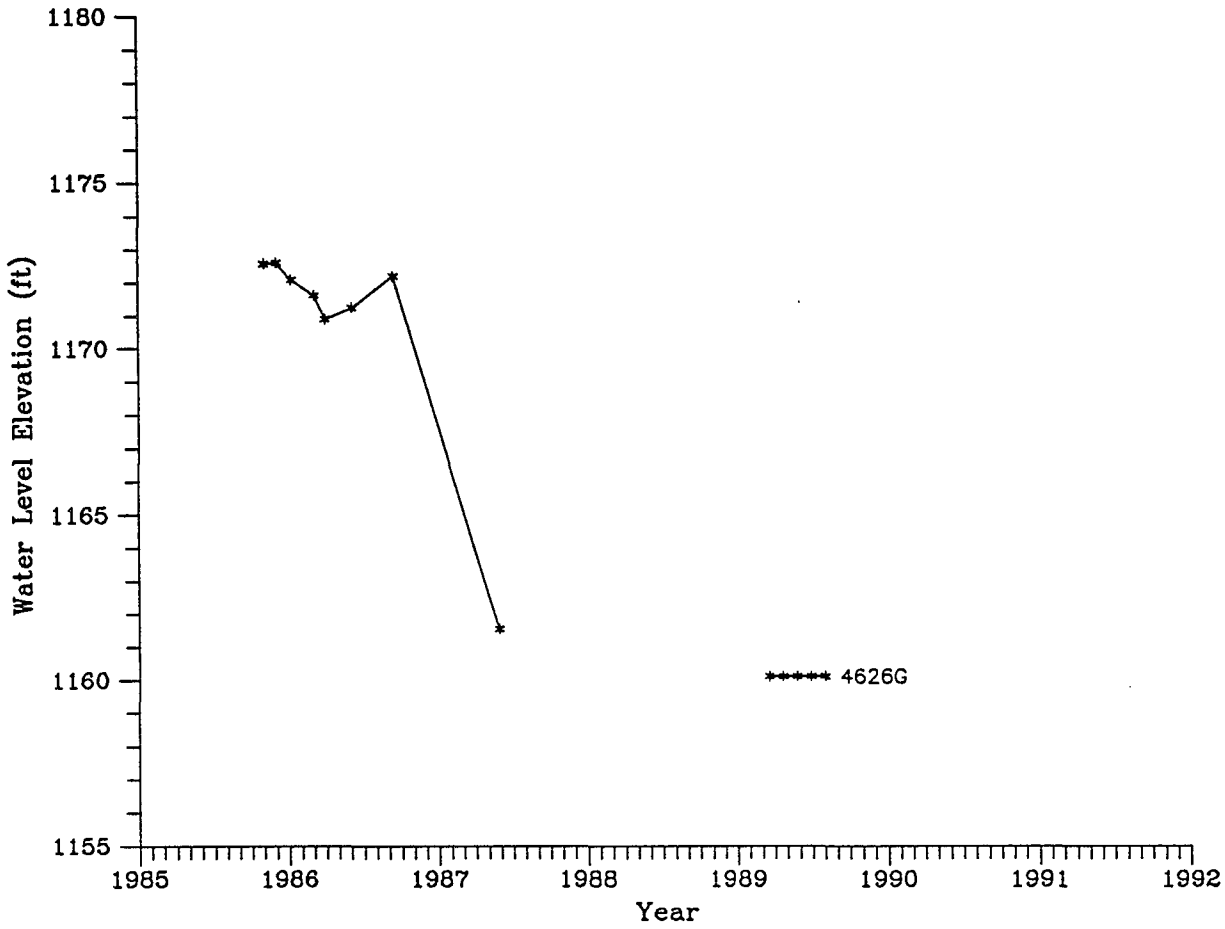


STATIC WATER LEVEL VS. TIME

MONITOR WELLS MP 53B, MP 53C, AND MP 53D

Figure G.50

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

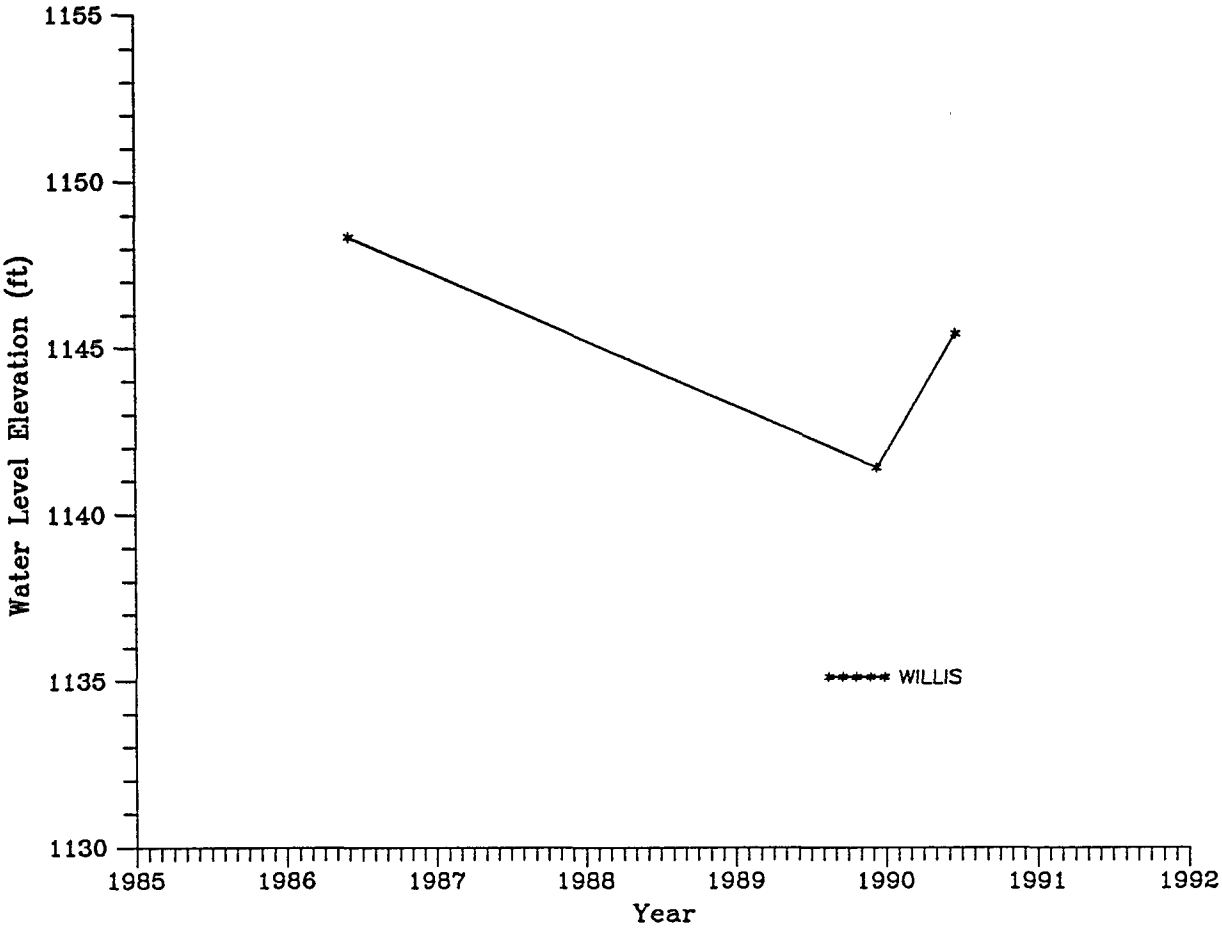


STATIC WATER LEVEL VS. TIME

MONITOR WELL 4626G

Figure G.51

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992

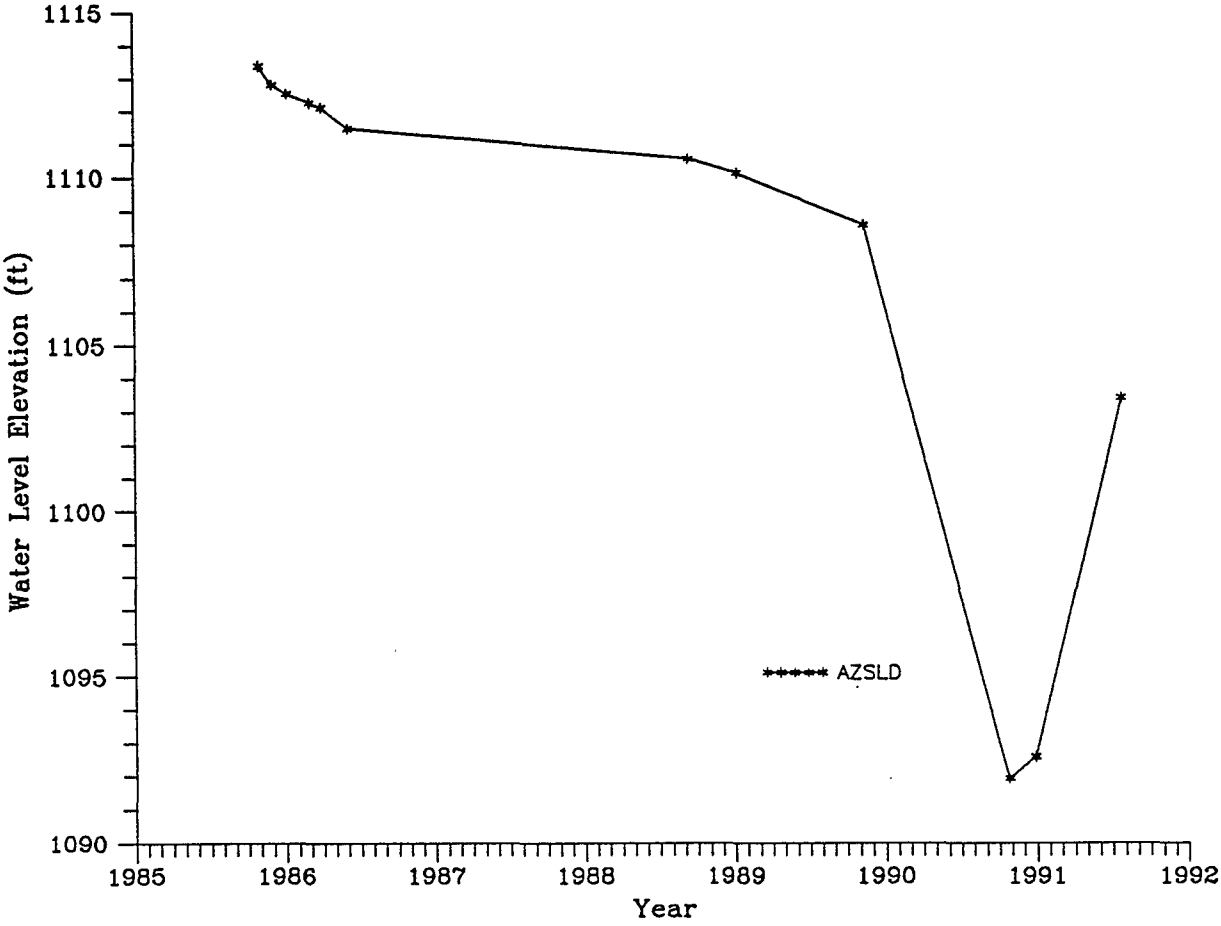


STATIC WATER LEVEL VS. TIME

MONITOR WELL WILLIS

Figure G.52

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992



STATIC WATER LEVEL VS. TIME

MONITOR WELL AZSLD

Figure G.53

MOTOROLA 52nd ST.
FR RI
FEBRUARY 1992