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METALLURGICAL LABORATORY
HAZARDOUS WASTE MANAGEMENT
FACILITIES
GROUNDWATER MONITORING AND
CORRECTIVE-ACTION REPORT (U)**

THIRD AND FOURTH QUARTERS 2000

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Westinghouse Savannah River Company
Savannah River Site
Aiken, SC 29808

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Executive Summary

This report describes the groundwater monitoring and corrective-action program at the M-Area Hazardous Waste Management Facility (HWMF) and the Metallurgical Laboratory (Met Lab) HWMF at the Savannah River Site (SRS) during 2000. This program is required by South Carolina Resource Conservation and Recovery Act (RCRA) Hazardous Waste Permit SC1890008989 and Section 264.100(g) of the South Carolina Hazardous Waste Management Regulations. Report requirements are described in the 1995 RCRA Renewal Permit, effective October 5, 1995, Section IIIB.H.11.b for the M-Area HWMF and Section IIIG.H.11.b for the Met Lab HWMF. Program activities are summarized below.

- Sampling was conducted to determine compliance with the Groundwater Protection Standard (GWPS) and to demonstrate the effectiveness of the corrective action program. Samples were collected and analyzed during first and third quarters of 2000 at M-Area HWMF and Met Lab point-of-compliance (POC), background, and plume definition wells. M-Area HWMF recovery wells were sampled monthly. Semiannual monitoring is for pH, specific conductance, temperature, and GWPS constituents (except polychlorinated biphenyls [PCBs]); only POC wells MSB 1D, 2D, 4D, and 59D are monitored for PCBs. The Monitoring Constituents are only analyzed annually, during the third quarter of the calendar year. The Appendix IX analyses are also only conducted annually on 20% of the POC wells at the M-Area HWMF and at 40% of the POC wells at the Met Lab HWMF. For the Appendix IX analyses, the Met Lab HWMF POC wells are sampled during the first quarter of the year, and the M-Area HWMF POC wells are sampled during the third quarter of the year.
- Efforts were made to sample all 37 POC wells at the M-Area HWMF for semi-annual constituents listed in Appendix IIIB-A of the 1995 RCRA Renewal Permit (see Appendix A, [Table A-1](#)). Approval was granted by the South Carolina Department of Health and Environmental Control (SCDHEC) (letter dated March 15, 1999; Frasier to Odum) to refine the list of inorganic Monitoring Constituents listed in Section II, Appendix IIIB-A of the permit (SCDHEC, 1995). The Monitoring Constituents SCDHEC approved for deletion from monitoring at the POC wells were chromium, mercury, uranium, fluoride, cobalt (with the exception of the Annual Appendix IX analysis at 20% of POC wells), chloride, copper, zinc, manganese, sulfate, and total phosphates.

During 2000, samples from POC wells in the M-Area Aquifer Zone exceeded the Appendix IIIB-A Monitoring Constituent Standard (MCS) for **nitrate-nitrite as nitrogen** (MSB 4D, 13D, 62D) and **total alpha-emitting radium** (MSB 2D), and the GWPS for **tetrachloroethylene** (PCE) (MSB 1D, 4D, 8A, 62D, 63D) and **trichloroethylene** (TCE) (MSB 1D, 4D, 8A, 62D, 63D).

The POC wells screened in the Upper Lost Lake Aquifer Zone had **TCE** (MSB 1C, 2C, 5C, 6C, 7C, 8C, 13CC and 62C), **PCE** (MSB 1C, 2C, 5C, 6C, 7C, 8C, 13CC, 62C, 63C) and **1,1-Dichloroethylene** (MSB 5C, and 8C) above the GWPS, and **nitrate-nitrite as nitrogen** (MSB 1C, 2C, 3C, 4C, 5C, 6C, 7C, and 8C) and **non-volatile beta** (MSB 8C) above the MCS.

Like in the above-lying aquifer zones the contaminants most frequently above the GWPS in the Lower Lost Lake Aquifer Zone were **TCE** (MSB 1B, 2B, 3B, 4B, 5B, 6B, 7B, 8B, 13A, and 63B) and **PCE** (MSB 1B, 2B, 3B, 4B, 6B, 7B, 8B, 13A, and 63B). Also above the GWPS were **1,1-Dichloroethylene** (MSB 7B), **chlorobenzene** (MSB 13A and 63B), and **lead** (MSB 6B). **Nitrate-nitrite as nitrogen** exceeded the MCS (MSB 1B, 2B, 7B, and 13A). (See the *Field and Analytical Results* subsection and [Tables D-2](#) and [D-10](#), Appendix D, Volume I.)

- All 6 background wells at the M-Area HWMF were sampled during 2000. (See the *Field and Analytical Results* subsection and [Table D-3](#), Appendix D, Volume I.)

In the M-Area Aquifer Zone, MSB 43D exceeded the GWPS for **lead**, while MSB 29D had **gross alpha, nitrate-nitrite as nitrogen, iron**, and **total radium** above the MCS. There were no analytes above standards in the background wells screened in the deeper aquifers.

- For the M-Area HWMF, the constituents that exceeded the GWPS or MCS in plume definition wells during 2000 are summarized for each aquifer. This summary combines the constituents that exceeded standards from the first and third quarter 2000 sampling events. For more details, see the *Field and Analytical Results* subsection and [Table D-4](#), Appendix D, Volume I.

The constituents that exceeded the GWPS in the M-Area Aquifer Zone included **PCE or TCE** (ASB 6A, MSB 15D, 18B, 24, 26, 31C, 65D, 66D, 74D, 78DR, and 88B). The constituents that exceeded the MCS were **aluminum** (AMD 15D, ASB 3AR, MSB 20C, 24, 47D, 48D, and 66D), **nitrate-nitrite as nitrogen** (AMB 15D and MSB 17B, 18B), **sodium** (AMD 7, 9D, ASB 1A, 2AR, 3AR, 4, 5AR, 6A, 8, MSB 17B, 18B, 19C, 20C, 27, 31C, 33, 47D, and 66D), and **sulfate** (AMB 7, AMB 9D, ASB 1A, 2AR, 3AR, 4, 5AR, 6A, and 8).

In the Upper Lost Lake Aquifer Zone, the constituents that exceeded the GWPS were **lead** (APB 8C, AMB 18C, 19C, MCB 5C, and 7C), and **PCE or TCE** (APB 8C, MCB 5C, 6C, 7C, MSB 12B, 15A, 20A, 31CC, 39CC, 40C, 47C, 70C, 74C, 75C, 76C, 77C, 79C and SRW 14B). The constituents that exceeded the MCS were **aluminum** (APB 8C, MCB 7C, MSB 11C, 47C, 55HC, and 76C), **nitrate-nitrite as nitrogen** (MSB 18A, and MSB 70C), **sodium** (APB 8C, AMB 19C, MSB 12B, 33C, 45B, 47C, 55HC, 70C, 75C, 76C, and 79C), and **sulfate** (AMB 19C, MSB 40C, and 75C).

In the Lower Lost Lake Aquifer Zone, the constituents that exceeded the GWPS were **TCE or PCE** (MSB 10B, 21B, 25A, 26B, 31B, 33B, 36B, 39B, 40B, 47B, 49B, 66C, 68C, 69C, 73B, 74B, 75B, 79B, 89B). The constituents exceeding the MCS were **aluminum** (MSB 71B, 75B, 79B AND SRW 16A), **nitrate-nitrite as nitrogen** (MSB 17BB and 49B), and **sodium** (AMB 10B, ASB 2CR, 3CR, 10CR, 17BB, 33B, 36B, 39B, 40B, 47B, 49B, 71B, 75B, 79B, and 88C).

In the Middle Sand Aquifer Zone of the Crouch Branch Confining Unit, the constituents that exceeded the GWPS were **TCE or PCE** (AMB 17A, 18A, MSB 10A, 33A, 49A, 66B, 68B, and SRW 14A). The constituents exceeding the MCS were **aluminum** (ASB 6AA, MSB 40A, 55B, 82A, and 83B), **nitrate-nitrite as nitrogen** (AMB 17A), **sodium** (AMB 10A, MSB 82A and 84A) and **sulfate** (AMB 10A, MSB 55B, 82A and 82B).

In the Crouch Branch Aquifer Unit the constituents exceeding the GWPS were **TCE or PCE** (MSB 42TA, 47TA). The only constituent exceeding the MCS was **sodium** (ASB 6TA)

- Concentrations of PCE, TCE, nitrate-nitrite as nitrogen, sodium, sulfate and their distributions are provided in isoconcentration maps for each aquifer zone monitored. PCE and TCE are on the GWPS list, and nitrate-nitrite as nitrogen, sodium and sulfate serve as indicators parameters that help identify source areas and potential plume extent.
- Monthly sampling events were scheduled for each recovery well during 2000. The majority of recovery wells show a continued decreasing trend in TCE and PCE concentrations. (See the *Field and Analytical Results* subsection and [Tables D-5a, b, and c](#), Appendix D, Volume I.)
- Efforts were made to sample all 14 of the POC wells at the Met Lab HWMF for constituents listed in Appendix IIIG-A of the 1995 RCRA Renewal Permit during 2000 (see Appendix A, Table A-2).

In the M-Area Aquifer Zone POC wells, **lead** (AMB 6) and **TCE** (AMB 5) exceeded the GWPS. **Sodium** exceeded the MCS (AMB 5, 6, 8D, 9D, 10D).

In the Upper Lost Lake Aquifer Zone, **lead** (AMB 18C and 19C) exceeded the GWPS, and **sodium** and **sulfate** exceeded the MCS (AMB 19C).

In the Lower Lost Lake Aquifer Zone, **sodium** (AMB 10B) and **total organic halogens** (AMB 4A and 17A) exceeded the MCS. The Middle Sand Aquifer Zone of the Crouch Branch Confining Unit had **TCE** (AMB 4A, 17A, and 18A) and **PCE** (AMB 4A, and 17A) above the GWPS (see the *Field and Analytical Results* subsection and [Tables D-6](#) and [D-10](#), Appendix D, Volume I).

- All 8 background wells at the Met Lab HWMF were sampled during 2000. In the M-Area Aquifer Zone, MSB 43D exceeded the GWPS for **lead**, while MSB 29D had **gross alpha**, **nitrate-nitrate as nitrogen**, **iron**, and **total radium** above the MCS. There were no analytes above standards in the background wells screened in the deeper aquifers (see *Field and Analytical Results* subsection and [Table D-7](#), Appendix D, Volume I).
- All 8 of the plume definition wells at the Met Lab HWMF were sampled during 2000 (see *Field and Analytical Results* subsection and [Table D-8](#), Appendix D, Volume I.).

In the M-Area Aquifer Zone, **aluminum** and **nitrate-nitrite as nitrogen** exceeded the MCS in AMB 15D. **Iron**, **sodium** and **sulfate** exceeded the MCS in AMB 7.

In the Lower Lost Lake Aquifer Zone, **PCE** exceeded the GWPS in AMB 7B.

In the Middle Sand Aquifer Zone of the Crouch Branch Confining Unit, **PCE** and **TCE** (AMB 7A) exceeded the GWPS.

- Solvent contamination has been detected in production wells within A/M Area. Data from Production well 905-82A suggests solvents have reached the deeper McQueen Branch Aquifer at levels slightly exceeding the MCL. Monitoring wells have been recently installed to assess the distribution of contaminants within the Cretaceous Aquifer System. Details of the ongoing investigation will be provided in subsequent Groundwater Reports.
- Statistical analysis of trends in TCE and PCE concentrations were performed on selected monitoring wells. The evaluation included historical data up through first and third quarter 2000. Data for 1Q00 and 3Q00 PCE and TCE concentrations generally remained consistent with long-term trends for the aquifer zones under remediation. A long-term downward trend in PCE was observed in the M-Area Aquifer Zone and the Lost Lake Aquifer Zones. The Middle Sand Aquifer Zone of the Crouch Branch Confining Unit showed no discernible trend in PCE, however, a downward trend in TCE concentration is apparent. An upward trend in PCE and TCE concentrations is observable in selected wells in the Upper Lost Lake Aquifer Zone, and also in MSB 13A of the Lower Lost Lake Aquifer Zone.
- Statistical analysis of trends in TCE and PCE concentrations were performed on the RWM recovery wells. The majority of RWM wells show a continued decreasing trend in TCE and PCE concentrations. The remaining recovery wells continued to show no apparent trend, with the exception of several RWM wells that showed TCE and PCE concentrations in 3Q00 that were statistically above the long-term trend.
- Groundwater flow rates and directions are not significantly different from previous reports. Precipitation was below the historical average. For fourth quarter 2000 M-Area Aquifer Zone flow rates ranged from 197 to 370 ft/year, Upper Lost Lake Aquifer Zone ranged from 201 to 262 ft/year, Lower Lost Lake Aquifer Zone ranged from 185 to 293 ft/year, Middle Sand Aquifer Zone of the CBCU ranged from 183 to 338 ft/year, and the Crouch Branch Aquifer Unit had a flow rate of 246 ft/year.
- Drawdown was established for each of the Central Sector potentiometric surfaces based on water elevation measurements collected during the 1Q00 M-1 Stripper outage (see Figures 6-10). This representation of the influence of the RWM wells on the potentiometric surfaces replaces the outdated version contained in annual reports published through 1999. For the Upper and Lower Lost Lake Aquifer Zones, the zones of capture based on the data collected during the stripper outage generally agree with the zones of capture generated from the 1995

modeling efforts. However, for the M-Area Aquifer Zone, the observed zone of capture covers less area than the zone of capture produced through modeling.

- During the second half of 2000, the M-1 Air Stripper removed 4,589 lbs. of solvent from the groundwater beneath the M-Area HWMF (see the *Air Stripper Performance* subsection and [Table D-15](#), Appendix D, Volume I).
- During the second half of 2000, the A-2 air stripper removed 628 lbs. of solvent from the groundwater beneath the M-Area HWMF (see the *Air Stripper Performance* subsection and [Table D-16](#), Appendix D, Volume I).
- During the second half of 2000, the Soil Vapor Extraction Unit (SVEU) Vadose Zone Unit 782-3M removed 6,322 lbs. of solvent (see the *Vadose Zone Unit Performance* subsection and [Table D-17](#), Appendix D, Volume I).
- During the second half of 2000, the SVEU Vadose Zone Unit 782-4M removed 6,918 lbs. of solvent (see the *Vadose Zone Unit Performance* subsection and [Table D-18](#), Appendix D, Volume I).
- During 1999, the SVEU Vadose Zone Units 782-5M and 782-8M had achieved their goals and ceased operations (see the *Vadose Zone Unit Performance* subsection and [Table D-19](#), Appendix D, Volume 1).
- Solvent removal from these wells was greatly improved by startup and operation of the Dynamic Underground Stripping (DUS) facility in the second half of the year. During the second half of 2000, the SVEU Vadose Zone Unit 782-6M removed 7,170 lbs. of solvent (see the *Vadose Zone Unit Performance* subsection and [Table D-20](#), Appendix D, Volume I).
- During the first half of 2000, the SVEU Vadose Zone Unit (formerly the Integrated Demonstration Unit, or "IDU") 782-7M removed 625 lbs. of solvent (see the *Vadose Zone Unit Performance* subsection and [Table D-22](#), Appendix D, Volume I).
- The DUS removed more than 7,000 lbs. of TCE and PCE from the soil column since start up in June 2000. A very strong upward trend in the PCE and TCE concentration in the offgas was observed from the start of operations to the close of the calendar year. Satisfactory operation of the DUS facility is ongoing in 2001.
- During 2000, the Southern Sector air recirculation well treatment system (SSR well series) removed a total of 1,781 lbs. of TCE and 77 pounds of PCE.

Introduction

As directed by the 1995 RCRA Renewal Permit (SCDHEC, 1995), this report includes information on groundwater monitoring and corrective action at both the M-Area Hazardous Waste Management Facility (HWMF) and the Metallurgical Laboratory Hazardous Waste Management Facility (Met Lab HWMF). Requirements specified in Module III, Section B, M-Area Hazardous Waste Management Facility of the permit (SCDHEC, 1995) were approved for modification by the South Carolina Department of Health and Environmental Control (SCDHEC) (letter dated March 15, 1999; Frasier to Odum) in response to proposals for reducing monitoring requirements submitted to support SRS's permit modification request (Revision 12 to Volume III of the 1992 RCRA Part B Permit Renewal Application). SCDHEC reviewed the proposals, Technical Basis Report for Efficient Groundwater Monitoring at the A/M Area Network (WSRC-TR-98-00044) and Refinement of the List of Constituents for Groundwater Monitoring at M-Area (WSRC-TR-00347) and outlined approval of specific portions of the SRS proposals in their response (letter dated March 15, 1999; Frasier to Odum).

Description of Facilities

M-Area HWMF

The M-Area HWMF, located in the northwest portion of the Savannah River Site (SRS) (Figure 1, Appendix C, Volume I), consists of the M-Area Settling Basin; a seepage area, overflow ditch, and inlet process sewer line; and Lost Lake, a shallow upland depression.

The unlined settling basin operated from 1958 until 1985, receiving wastewater that contained volatile organic solvents used for metal degreasing as well as chemical constituents and depleted uranium from fuel fabrication processes in M Area. The underground process sewer line transported M-Area process wastewater to the basin. Water periodically overflowed from the basin through the ditch to the seepage area adjacent to the ditch and to Lost Lake.

Because of the hazardous nature of the constituents released to the environment during operation of the basin, the M-Area HWMF is subject to the requirements of the Resource Conservation and Recovery Act (RCRA). Currently, the facility is operating under the 1995 RCRA Renewal Permit (South Carolina Hazardous Waste Permit SC 1890008989) (SCDHEC, 1995). A brief history of the M-Area HWMF compliance and post-closure programs is located in the *Monitoring and Corrective-Action Program Assessment* section of this report.

The A/M-Areas corrective-action program addresses four sectors (Figure 3) of the contaminant plume that are based on geography, subsurface conditions, and ongoing actions.

- The **central sector** includes the solvent storage and handling areas, the M-Area Process Sewer Line, the M-Area Settling Basin, and the A-014 Outfall area. Contamination came from direct release to the subsurface of large quantities of solvent with migration through the vadose zone and into the saturated zone. A separate dense nonaqueous phase liquid (DNAPL) is present in both the saturated and unsaturated zones resulting in high aqueous concentrations typically above 1000 ppb of TCE. The remediation strategy is to identify and remove DNAPL in the subsurface while continuing mass removal from the dissolved plume using the M-1 Air Stripper recovery system. The majority of the concentrated contaminant plume and the primary remediation efforts are in this sector.
- The **northern sector** is outside the influence of the M-1 Air Stripper recovery system. This sector, which includes the Savannah River Laboratory Seepage Basins, the A-001 outfall, and part of the Savannah River Technology Center, is remediated by the A-2 air stripper recovery system.

- The **western sector** is west of the central sector and outside the M-1 Air Stripper zone of influence. DNAPL may have migrated and dispersed into this area. Although no remediation system is currently in place within the western sector, a Corrective Action Plan has been developed to accelerate remediation of DNAPL in the vicinity of the closed M-Basin, which is believed to be the source of the Western Sector Plume.
- The **southern sector** encompasses the contaminant plume south of the central sector outside the M-1 Air Stripper zone of influence. The contamination plume in the area is a result of advective transport processes from source zones (M-Area Settling Basin and A-014 Outfall) in the Central Sector prior to installation of the M-1 pump and treat system. Groundwater flows south from this sector towards Upper Three Runs Creek. The plume is relatively large and has concentration values up to 16,000 ppb (TCE). Remediation in the Lost Lake Aquifer Zone is currently addressed by a system of 12 vertical airlift recirculation wells (SSR well series) at the intermediate portion of the plume. A phytoremediation study is ongoing.

Met Lab HWMF

The Met Lab HWMF is located in the eastern portion of the central sector of A/M Areas (Figure 1, Appendix C). The facility consists of the unlined Metallurgical Laboratory Basin, the abandoned portion of the influent process sewer line, an associated Carolina bay, and a drainage outfall to the bay.

Because of the hazardous nature of the constituents released to the environment during operation of the facility, the Met Lab HWMF is subject to the requirements of RCRA. Currently, the facility is operating under the 1995 RCRA Renewal Permit (South Carolina Hazardous Waste Permit SC 1890008989) (SCDHEC, 1995).

Compliance Monitoring Program

M-Area HWMF

Requirements and Standards

- Point-of-compliance (POC) wells (Figure 2, Appendix C, Volume I) monitor groundwater quality at the M-Area HWMF as mandated by RCRA and associated South Carolina regulations. Appendix IIIB-C in the 1995 RCRA Renewal Permit (SCDHEC, 1995) specifies the required monitoring regimen. This monitoring regimen was modified by SCDHEC (letter dated March 15, 1999; Frasier to Odum) in response to proposals for reducing monitoring requirements submitted to support SRS's permit modification request (Revision 12 to Volume III of the 1992 RCRA Part B Permit Renewal Application). SCDHEC reviewed the proposals, Technical Basis Report for Efficient Groundwater Monitoring at the A/M Area Network (WSRC-TR-98-00044) and Refinement of the List of Constituents for Groundwater Monitoring at M-Area (WSRC-TR-00347) and outlined approval of specific portions of the SRS proposals in their response (letter dated March 15, 1999; Frasier to Odum). The monitoring regimen is as follows:
- quarterly monitoring for synchronous water elevations
- quarterly monitoring of new wells for one year for Groundwater Protection Standard (GWPS) constituents, inorganic monitoring constituents, and field parameters listed in Appendix IIIB-A of the permit
- semiannual monitoring for pH, specific conductance, temperature, and GWPS constituents (except polychlorinated biphenyls [PCBs]); only POC wells MSB 1D, 2D, 4D, and 59D are monitored for PCBs. MSB 57D, 58D and 60D previously received monitoring for PCBs, but were approved for deletion from the groundwater monitoring well network (letter dated March 15, 1999; Frasier to Odum).

- annual monitoring for gross alpha, nonvolatile beta, total alpha-emitting radium, and the inorganic monitoring constituents listed in Section II, Appendix IIIB-A, of the permit
- monitoring during the third quarter of each year of at least 20 percent of the POC wells for Appendix IX constituents (SCDHEC, 1994)
- Approval was granted by SCDHEC (letter dated March 15, 1999; Frasier to Odum) to refine the list of inorganic Monitoring Constituents listed in Section II, Appendix IIIB-A of the permit (SCDHEC, 1995). The Monitoring Constituents SCDHEC approved for deletion from monitoring at the POC wells were chromium, mercury, uranium, fluoride, cobalt (with the exception of the Annual Appendix IX analysis at 20% of POC wells), chloride, copper, zinc, manganese, sulfate, and total phosphates.

Analytical results for the hazardous constituents listed in Section I, Appendix IIIB-A, of the permit (SCDHEC, 1995) are compared to the GWPS as defined in Appendix IIIB-A of the permit (SCDHEC, 1995). The Monitoring Constituents listed in Section II, Appendix IIIB-A are compared to the Monitoring Constituents Standard (MCS), which is derived from the former GWPS as defined in WSRC (1994), M-Area HWMF background concentrations as defined in the 1987 Part B permit (WSRC, 1987), or drinking water standards (EPA, 1993a, 1993b). The GWPS and the MCS used for comparison are provided in Appendix A, Volume I. M-Area HWMF groundwater background concentrations were determined during the assessment monitoring program, using groundwater samples from background wells MSB 29B, 29C, 29D, 43A, 43B, and 43D (WSRC, 1987, 1994).

The SRS Environmental Restoration Department (ERD) reports the monitoring results to the SCDHEC as required by the 1995 RCRA Renewal Permit (SCDHEC, 1995) and Section 264.100(g) of the South Carolina Hazardous Waste Management Regulations (SCDHEC, 1994).

Point-of-Compliance Well Network

Appendix B, Volume I, lists the wells in the groundwater monitoring network, and the units they monitor. Currently, the M-Area HWMF POC well network is composed of 37 wells: MSB 1B, 1C, 1D, 2B, 2C, 2D, 3B, 3C, 3D, 4B, 4C, 4D, 5A, 5B, 5C, 6A, 6B, 6C, 7A, 7B, 7C, 8A, 8B, 8C, 13A, 13CC, 13D, 39A, 59D, 62B, 62C, 62D, 63B, 63C, 63D, 64C, and 64D.

This network developed as follows:

- Wells MSB 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 13A, 13B, and 13C, installed in the early 1980s, were approved by SCDHEC as the original POC wells.
- Well MSB 22 was approved by SCDHEC for interim sampling to replace well MSB 3A in the early 1990's.
- Sampling at wells MSB 1A, 2A, 3A, 4A, and 13C was stopped in 1990 due to declining water levels at the M-Area HWMF resulting from basin closure and the recovery system operation.
- Sampling of well MSB 22 as a POC well was stopped in 1991.
- Wells MSB 1B, 1C, 1CC, 1D, 2B, 2C, 2D, 3B, 3C, 3D, 4B, 4C, 4D, 5B, 5C, 6B, 6C, 7B, 7C, 8B, 8C, 13CC, 13D, 57D, 58D, 59D, 60D, 62B, 62C, 62D, 63B, 63C, 63D, 64B, 64C, and 64D were installed in 1990 (MSB 1D, 2D, 3D, 4D, and 13D replaced wells MSB 1A, 2A, 3A, 4A, and 13C).
- Well MSB 13B was removed from the POC well network beginning third quarter 1994.
- Well MSB 39A was designated a POC well, and well MSB 64B, formerly a POC well, was designated a plume definition well in the new permit (SCDHEC, 1995).

Met Lab HWMF

Requirements and Standards

POC wells (Figure 2, Appendix C, Volume I) monitor the groundwater quality at the Met Lab HWMF as mandated by RCRA and associated South Carolina regulations. Appendix IIIG-C of the 1995 RCRA Renewal Permit (SCDHEC, 1995) specifies the following monitoring regimen:

- quarterly monitoring for synchronous water elevations at all POC wells listed in Appendix IIIG-B of the permit
- quarterly monitoring of new POC wells for one year for GWPS constituents, inorganic monitoring constituents, and field parameters listed in Appendix IIIG-A of the permit
- semiannual monitoring for inorganic monitoring constituents, pH, specific conductance, temperature, and GWPS constituents at all POC wells listed in Appendix IIIG-B of the permit
- annual monitoring for gross alpha, nonvolatile beta, and total alpha-emitting radium at all POC wells listed in Appendix IIIG-B of the permit
- monitoring during the first quarter of each year of at least 40 percent of the POC wells for Appendix IX constituents (SCDHEC, 1994)

Analytical results for hazardous constituents are compared to the GWPS as defined in Section I, Appendix IIIG-A of the permit (SCDHEC, 1995). Monitoring Constituents, as defined in Section II, Appendix IIIG-A of the permit (SCDHEC, 1995) are compared to a MCS which is derived from the former GWPS as defined in WSRC (1994), M-Area HWMF background concentrations as defined in the 1987 Part B permit (WSRC, 1987), or drinking water standards (EPA, 1993a, 1993b). The GWPS and the MCS used for comparison are provided in Appendix A, Volume I. M-Area HWMF groundwater background concentrations were determined during the assessment monitoring program, using groundwater samples from background wells MSB 29B, 29C, 29D, 43A, 43B, and 43D (WSRC, 1987, 1994). Data from background wells AMB 11D and 12D were not included in development of the background standard (WSRC, 1987, 1994). Therefore, the comparison is to groundwater background quality not impacted by contamination from the M-Area HWMF. ERD reports the monitoring results to SCDHEC to meet the requirements of the renewal permit (SCDHEC, 1995) and the South Carolina Hazardous Waste Management Regulations (SCDHEC, 1994).

Point-of-Compliance Well Network

Appendix B, Volume I, lists the wells in the groundwater monitoring network, and the units they monitor. Currently, the Met Lab HWMF POC well network is composed of 14 wells:

- 7 M-Area Aquifer Zone wells: AMB 4D, 5, 6, 8D, 9D, 10D, 16D
- 2 Upper Lost Lake Aquifer Zone wells: AMB 18C, 19C
- 1 Lower Lost Lake Aquifer Zone well: AMB 10B
- 4 Middle Sand Aquifer Zone of the Crouch Branch Confining Unit (CBCU) wells: AMB 4A, 10A, 17A, 18A

Corrective-Action Monitoring Program

M-Area HWMF

Requirements and Standards

Data from background, plume definition, and recovery wells (Figures 4 and 5, Appendix C, Volume I) are used to assess the effectiveness of the corrective-action program for the M-Area HWMF. Background and plume definition wells monitor the horizontal and vertical extent of groundwater contamination, groundwater flow rates and directions, and groundwater quality.

Recovery wells pump contaminated groundwater to air strippers, which remove volatile organic contaminants from the water before it is returned to the ground.

The 1995 RCRA Renewal Permit (SCDHEC, 1995) specifies the monitoring regimen for these wells to meet RCRA requirements. This monitoring regimen was modified by SCDHEC (letter dated March 15, 1999; Frasier to Odum) in response to proposals for reducing monitoring requirements submitted to support SRS's permit modification request (Revision 12 to Volume III of the 1992 RCRA Part B Permit Renewal Application). SCDHEC reviewed the proposals, Technical Basis Report for Efficient Groundwater Monitoring at the A/M Area Network (WSRC-TR-98-00044) and Refinement of the List of Constituents for Groundwater Monitoring at M-Area (WSRC-TR-00347) and outlined approval of specific portions of the SRS proposals in their response (letter dated March 15, 1999; Frasier to Odum).

Background wells

- quarterly monitoring for synchronous water elevations
- quarterly monitoring of new wells for one year for GWPS constituents, inorganic monitoring constituents, and field parameters listed in Appendix IIIB-A of the permit
- semiannual monitoring for pH, specific conductance, temperature, and GWPS constituents (except PCBs)
- annual monitoring for gross alpha, nonvolatile beta, total alpha-emitting radium, and the inorganic monitoring constituents listed in Section II, Appendix IIIB-A, of the permit

Plume definition wells

- quarterly monitoring for synchronous water elevations
- quarterly monitoring of new wells for one year for GWPS constituents, inorganic monitoring constituents, and field parameters listed in Appendix IIIB-A of the permit
- semiannual monitoring for pH, specific conductance, temperature, and GWPS constituents (except PCBs); selected plume definition wells are monitored semiannually for PCBs
- annual monitoring for gross alpha, nonvolatile beta, total alpha-emitting radium, and the inorganic monitoring constituents listed in Section II, Appendix IIIB-A, of the permit
- Approval was granted by SCDHEC (letter dated March 15, 1999; Fraiser to Odum) to refine the list of inorganic Monitoring Constituents listed in Section II, Appendix IIIB-A of the permit (SCDHEC, 1995). The SCDHEC approved deletion of chromium, mercury, uranium, fluoride, cobalt, chloride, copper, zinc, manganese, and total phosphates from the monitoring requirements for plume definition wells. In addition, SCDHEC (letter dated March 15, 1999; Fraiser to Odum) approved deletion of monitoring radionuclides (gross alpha, gross beta, and total radium) at most plume definition wells, continuing analyses only on samples from the wells in the MSB 17, MSB 18 and MSB 39 clusters.

Recovery wells

- monthly monitoring for water elevations
- monthly monitoring for pH, specific conductance, temperature, and the organic GWPS constituents (except PCBs)
- semiannual monitoring for PCBs at recovery wells RWM 1, 6, and 10

Piezometers

- quarterly monitoring for synchronous water elevations

Analytical results for background, plume definition, and recovery wells are compared to standards and reported to SCDHEC as described for the POC wells.

Corrective-Action Well Network

Wells were proposed for removal from the groundwater monitoring network in permit modification requests submitted to SCDHEC (Technical Basis for Proposed Modification to the Groundwater Monitoring Program, September 1996; Technical Basis Report for Efficient Groundwater Monitoring at the A/M Area Network dated June, 1998) to reduce the sampling requirements for the M-Area HWMF. In response, SCDHEC granted approval to remove some of the proposed piezometer wells (letter of March 4, 1997; Fraiser to Wells). SCDHEC granted approval to remove some of the proposed wells from the groundwater monitoring program in response to the modification request (letter of March 15, 1999; Fraiser to Odum). Appendix B, Volume I, lists the wells in the groundwater monitoring network, and the units they monitor.

Modifications to the corrective-action well network are as follows:

- Wells MSB 1CC, 57D, 58D, and 60D were proposed for removal from the groundwater monitoring network in a permit modification request submitted to SCDHEC (Technical Basis Report for Efficient Groundwater Monitoring at the A/M Area Network dated June, 1998) to reduce the sampling requirements for the M-Area HWMF. SCDHEC granted approval to remove these wells from the groundwater monitoring program in response to the modification request (letter of March 15, 1999; Frasier to Odum).
- Well MSB 19A was abandoned in 1999 since the well was leaning into a drainage ditch to the point that it was inaccessible for sampling.
- Well MSB 23B was abandoned June 12, 2000 as part of a construction project in the vicinity.

The network of background, plume definition, and recovery wells and piezometers currently consists of the following:

Background wells (6 total)

- 2 M-Area Aquifer Zone wells: MSB 29D, 43D
- 2 Upper Lost Lake Aquifer Zone wells: MSB 29C, 43B
- 2 Lower Lost Lake Aquifer Zone wells: MSB 29B, 43A

Plume definition wells (209 total)

1 well screened in a perched zone above the water table, 49 wells in the M-Area Aquifer Zone, 4 wells screened in the M-Area Aquifer Zone/Green Clay Confining Zone, 1 well screened in the Green Clay Confining Unit, 41 wells screened in the Upper Lost Lake Aquifer Zone, 57 wells screened in the Lower Lost Lake Aquifer Zone, 1 well screened in the Upper Clay Confining Zone-Crouch Branch Confining Unit, 32 wells screened in the Middle Sand Aquifer Zone-Crouch Branch Confining Unit, and 23 wells screened in the Crouch Branch Aquifer Unit.

Recovery wells (17 total)

The recovery wells included in the previously approved network include:

- 1 recovery well screened in the M-Area Aquifer Zone, Green Clay Confining Zone the Upper Lost Lake Aquifer Zone: RWM 1
- 2 recovery wells screened in the M-Area Aquifer Zone: RWM 9 and 10
- 2 recovery wells screened in the Upper Lost Lake Aquifer Zone: RWM 13C and 14C
- 3 recovery wells screened in the Lower Lost Lake Aquifer Zone: RWM 13B, 14B, and 15B
- 7 recovery wells screened through the M-Area Aquifer Zone, Green Clay Confining Zone, Upper Lost Lake Aquifer Zone and Lower Lost Lake Aquifer Zone: RWM 2, 3, 4, 5, 6, 7 and 11
- 1 recovery well screened through the Green Clay Confining Zone, Upper Lost Lake Aquifer Zone and Lower Lost Lake Aquifer Zone: RWM 8

- 1 recovery well screened through the Upper Lost Lake Aquifer Zone and the Lower Lost Lake Aquifer Zone: RWM 12

There are additional recovery wells that are not included in the current permit, RWM 16 cluster, 17B and 17D. The RWM 16 cluster is not operational. The data from RWM 17B and 17D has been included in this report for information purposes.

- RWM 17B is screened in the Lower Lost Lake Aquifer Zone.
- RWM 17D is screened in the M-Area Aquifer Zone.

Piezometers (57 total)

- 1 piezometer screened in the vadose zone
- 25 piezometers screened in the M-Area Aquifer
- 5 piezometers screened across the Green Clay Confining Unit such that the screen zone is in the M-Area Aquifer Zone/Green Clay Confining Zone/Upper Lost Lake Aquifer Zone
- 6 screened in the Upper Lost Lake Aquifer
- 9 screened in the Lower Lost Lake Aquifer
- 3 screened in the Middle Sand Aquifer Zone-Crouch Branch Confining Unit
- 8 screened in the Crouch Branch Aquifer Unit

Met Lab HWMF

Requirements and Standards

Data from background and plume definition wells (Figure 4, Appendix C, Volume I) are used to assess the effectiveness of the corrective-action program for the Met Lab HWMF. Background and plume definition wells monitor the horizontal and vertical extent of groundwater contamination, groundwater flow rates and directions, and groundwater quality.

Appendix IIIG-C of the 1995 RCRA Renewal Permit (SCDHEC, 1995) specifies the following monitoring regimen:

- quarterly monitoring for synchronous water elevations at all background and plume definition wells listed in Appendix IIIG-B of the permit
- quarterly monitoring of new background and plume definition wells for one year for GWPS constituents, inorganic monitoring constituents, and field parameters listed in Appendix IIIG-A of the permit
- semiannual monitoring for inorganic monitoring constituents, pH, specific conductance, temperature, and GWPS constituents at all background and plume definition wells listed in Appendix IIIG-B of the permit
- annual monitoring for gross alpha, nonvolatile beta, and total alpha-emitting radium at all background and plume definition wells listed in Appendix IIIG-B of the permit

Analytical results for background and plume definition wells are compared to standards and reported to SCDHEC as described for POC wells.

Corrective-Action Well Network

Appendix B, Volume I, lists the wells in the groundwater monitoring network, and the units they monitor. The network of background and plume definition wells currently consists of the following wells:

Background wells (8 total)

- 4 M-Area Aquifer Zone wells: AMB 11D, 12D; MSB 29D, 43D

- 2 Upper Lost Lake Aquifer Zone wells: MSB 29C, 43B
- 2 Lower Lost Lake Aquifer Zone wells: MSB 29B, 43A

Plume definition wells (8 total)

- 3 M-Area Aquifer Zone wells: AMB 7, 14D, 15D
- 1 Upper Lost Lake Aquifer Zone well: AMB 11B
- 2 Lower Lost Lake Aquifer Zone wells: AMB 4B, 7B
- 2 Middle Sand Aquifer Zone of the CBCU wells: AMB 7A, 13AR

Sampling and Results

Groundwater Sampling

During third and fourth quarters 2000, synchronous water elevations were measured on September 23-27, 2000, and December 27-31, 2000, respectively. Synchronous water levels for each quarter of 2000 are presented in [Table D-1](#) (Appendix D, Volume I).

The sampling procedure for wells with pumps (WSRC, 1992) requires evacuation of a minimum of two well volumes and stabilization of pH, specific conductance, and turbidity prior to sample collection. Stability is established when a minimum of three successive measurements, taken at 10-minute intervals, are within 10 percent of each other.

If a well pumps dry before two well volumes are purged or before stabilization is achieved, it must be revisited within 24 hours for the data to be considered from a single sampling event. On the second visit within 24 hours, samples are taken without purging or stability measurements; thus, these samples may not be representative of the groundwater quality. [Tables D-2](#) through [D-8](#) (Appendix D, Volume I) show the number of well volumes purged for each well. The well volumes purged for some wells may be less than 2 because of rounding down in the calculations.

Variable-speed pumps are installed in wells that have histories of elevated metals and in most new wells. Samples from these wells are collected at a slower rate to minimize turbidity, which has been associated with elevated metals levels. Currently, variable-speed pumps are installed in wells AMB 14D, 15D, 16D, 18C, and 19C; MCB 5C; MSB 32B, 32C, 87B, 87C, 88B, 88C, and 89B. Samples from wells MSB 16C, 42D, and 46C are collected using an open-bucket bailer. The remaining wells, except the recovery wells, have single-speed centrifugal downhole pumps. The recovery wells have pumps that run continuously. Pump types for all wells are indicated in [Tables D-2](#) through [D-8](#) (Appendix D, Volume I).

Samples were collected by RCS Corporation of Aiken, South Carolina, and analyzed by Environmental Science & Engineering of General Engineering Laboratories of Charleston, South Carolina (South Carolina certification number 10120). Samples are treated as specified in the 1995 RCRA Renewal Permit (SCDHEC, 1995) and the Westinghouse Savannah River Company Quality Assurance Plan (WSRC, 1990).

A record of well installations, replacements, and abandonments is found in the EPD/EMS well inventory (EPD/EMS, 1999). The aquifer zones monitored by the POC well networks, and identified in this report in the [Key to Reading the Tables](#) section of Appendix D (Volume I), are defined in Ehrke et al. (1995).

Analytical results that exceeded the GWPS (Appendix A, Volume I) during third quarter 2000 are presented in this report ([Tables D-2](#) through [D-11](#), Appendix D). Previous sampling events in first quarter 2000, and first and third quarters 1999 also are included to fulfill permit requirement IIIB.H.11.b(i) for M Area and IIIG.H.11.b(i) for Met Lab. For simplicity, results that either equaled or exceeded standards are described as *elevated*, *exceeding* standards, or *above* standards.

M-Area HWMF

Groundwater sampling to determine water quality was conducted third quarter 2000 at POC, background, and plume definition wells and monthly at recovery wells.

Sampling Problems

Tables D-2 through D-5 (Appendix D, Volume I) provide sampling codes (defined in the *Key to Reading the Tables* section of Appendix D, Volume I) that describe unusual sampling events.

Well MSB 3D contains DNAPL with dissolved PCBs in sediments trapped in the well sump (memorandum SWE-ERG-93-0966, M. A. Ebra, SRS, to J. W. Cook and J. V. Odum, SRS, December 7, 1993). This well is no longer sampled regularly for groundwater quality because of waste disposal issues.

Maintenance or access problems during third quarter 2000 for the remaining wells are summarized as follows.

Water Elevation Measurements

- Wells MSB 3B, 20C, 34C, 35D, 45C, 46C, 82A, 84A and 87C water elevations were not taken during third quarter 2000 because there was no water to the surface in these wells.
- Well MSB 19A was abandoned in place in 1999. The well was falling into a drainage ditch and had become inaccessible due to the degree that it was leaning. It will be replaced.
- Well MSB 23B was abandoned on June 12, 2000 as part of construction in the vicinity.
- Wells MSB 8A, 9C, 16C and 67D were dry.
- Wells AMB 10A, ASB 9, MSB 23TA, SRW 16A, SRW 16B and SRW16C were inaccessible.
- Well ARP 5D was sampled, but previously no water elevation measurements were reported due to missing survey data for the top of casing. The well has been re-surveyed and a hydrograph including historic water elevation data for this well is included in this report.

Analytical Sample Collection

- Well MSB 19A was not sampled because it was abandoned in place prior in 1999. The well was falling into a drainage ditch and had become inaccessible. It will be replaced.
- Well MSB 23B was not sampled because it was abandoned on June 12, 2000 as part of construction in the vicinity.
- Well MSB 23TA was not sampled because it was inaccessible.
- Well MSB 35A was not sampled due to a scheduling error.
- Wells MSB 8A, 9C, 16C, 36D and 67D were not sampled because they were dry.
- Wells MSB 35A, 42D, 46C and 87C were not sampled because there was not enough water to pump to the surface.

Met Lab HWMF

Groundwater sampling to determine water quality was conducted during first and third quarter 2000 at POC, background, and plume definition wells.

Sampling Problems

Tables D-6 through D-8 provide sampling codes (defined in *Key to Reading the Tables*, Appendix D) that describe unusual sampling events for the Met Lab wells.

Maintenance or access problems during third quarter 2000 are summarized as follows.

Water Elevation Measurements

- Well AMB 10A has an obstructed standpipe.

Analytical Sample Collection

- Wells AMB 6 and 14D were not sampled because there was not enough water to pump to the surface.

Field and Analytical Results

The *Key to Reading the Tables* section of Appendix D (Volume I) defines abbreviations used in the data tables and provides discussions of holding times and data qualification. The section includes a description of the result modifiers used in Appendix D. The modifiers help define analytical accuracy and precision. Appendix E (Volume I) provides a general assessment of the quality and usability of the data.

M-Area HWMF

Tables D-2 through D-5 (Appendix D) present the field and analytical results for samples collected from M-Area POC, background, plume definition, and recovery wells, respectively, for first and third quarters 2000, and first and third quarters 1999. Water elevations were determined using the elevation of the top of standpipe as the measurement reference point. If no standpipe exists, the reference point used is the top of casing. The tables identify the hazardous constituents that exceeded the GWPS in Appendix IIIB-A of the 1995 RCRA Renewal Permit (SCDHEC, 1995). The Monitoring Constituents that exceeded the Monitoring Constituent Standard (MCS) (Appendix A, Volume I). Table D-10 summarizes the constituents that exceeded GWPS in M-Area POC wells during first and third quarter 2000.

Tables D-2 through D-5 also show the analytical laboratories that conducted the analyses, the dilution factors used in the analyses, the analyses that received modifiers or that exceeded the EPA-approved holding times during third quarter 2000, and information concerning the wells.

Met Lab HWMF

Tables D-6 through D-8 (Appendix D) present the field and analytical results for samples collected from Met Lab POC, background, and plume definition wells, respectively, for first and third quarters 2000. Water elevations were determined using the elevation of the top of standpipe as the measurement reference point. If no standpipe exists, the reference point used is the top of casing. The tables identify the hazardous constituents that exceeded the GWPS in Appendix IIIG-A of the 1995 RCRA Renewal Permit (SCDHEC, 1995), or the MCS (Appendix A, Volume I). Table D-11 summarizes the constituents that exceeded GWPS in Met Lab HWMF POC wells during first and third quarters 2000.

Tables D-6 through D-8 also show the analytical laboratories that conducted the analyses, the dilution factors used in the analyses, the analyses that received modifiers or that exceeded the EPA-approved holding times during first quarter 2000, and information concerning the wells.

Appendix IX Results

During the first and third quarters of each year, samples from 20 percent of the POC wells at the M Area HWMF and 40 percent of the POC wells at the Met Lab HWMF are analyzed for Appendix IX constituents (SCDHEC, 1994) to identify any new hazardous constituents. New constituents detected above their sample quantitation limits are re-analyzed in subsequent quarters and statistically compared to background concentrations to determine if they are true contaminants or artifacts of the analyses.

During first quarter 2000, Met Lab POC wells AMB 4D, 10B, 16D, 17A, 18A, and 18C were analyzed for Appendix IX constituents. During third quarter 2000, M Area POC wells MSB 2B, 2C, 2D, 7A, 7B, 7C, 63C and 63D were analyzed for Appendix IX constituents. Appendix IX analytes that exceeded their sample quantitation limits and that were not listed in the GWPS in Appendix IIIG-A of the 1995 RCRA Renewal Permit (SCDHEC, 1995) are reported in Table D-11 (Appendix D, Volume I). The 2000 annual Appendix IX sampling at the M-Area and Met Lab POC wells did not identify any constituents not already included on the GWPS list that were

above their sample quantitation limits and without data qualifiers. Therefore no confirmation sampling was required, and no modification of the current GWPS (SCDHEC, 1995) is proposed at this time.

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Hydrogeologic Assessment

The hydrogeologic system in A/M Areas is evaluated using piezometric and potentiometric maps and cross sections (Maps 1 through 16, Appendix H, Volume III) to determine groundwater flow rates and directions and precipitation data, hydrographs (Appendix G, Volume II), and zone of capture maps (Appendix H, Maps 17 through 20) to determine the effects of the recovery well system.

The piezometric and potentiometric maps for this report were constructed for third and fourth quarters 2000 using synchronous water elevations. Water elevations were determined using the elevation of the top of standpipe as the water measurement reference point, or the top of casing in the cases where a standpipe was not present. Maps were constructed for each of the aquifer zones described in Ehrke et al. (1995). Appendix B, Volume I, lists the wells in the groundwater monitoring network, and the units they monitor. Aquifer zones are identified in this report in the *Key to Reading the Tables* section of Appendix D (Volume I). A significant number of monitoring well screen zones were re-evaluated in the process of preparing the isoconcentration and potentiometric surface maps to resolve data anomalies. As a result of this re-evaluation, many of the wells were re-designated to the appropriate monitoring zone corresponding to the screened interval. The aquifer zones monitored by each well are provided in Appendix B, Volume I, M-Area HWMF and Met Lab HWMF Monitoring and Recovery Well Network. Map directions are oriented to SRS site north.

Water elevations that were determined to be unrepresentative for the aquifer were not used during contouring, and were posted as “not decision data” (NDD). The wells with values that were considered unrepresentative for third and fourth quarter 2000 were:

Table 1. Unrepresentative Water Elevations

Well	Water Elevation (ft msl)
ABP 2A	330.89
ABP 8C	304.05
AMB 13AR	316.10
AMB 15D	353.00
AMB 19C	327.30
AOB 2	345.60
MSB 6A	327.04
MSB 11F	354.30
MSB 42C	358.50
MSB 85D	333.20
MSB 86C	326.10
MSB 87B	316.10
MSB 88B	79.62
RWM 3	306.05
RWM 13B	114.57
SRW 2B	320.70
SRW 9A	114.40
SRW 12A	122.40
SRW 12C	39.50
SRW 13A	94.00
SRW 15C	133.20

Groundwater Flow Directions and Rates

Horizontal Flow Directions

- Horizontal gradients in the M-Area Aquifer Zone (Maps 1 and 6, Appendix H, Volume III) are variable. The natural stratigraphy, variability in recharge, and the removal of water by wells RWM 3, 6, 9, 10, and 11 produce mounds and depressions found on the piezometric surface. South of the M-Area HWMF, near the Miscellaneous Chemical Basin (MCB), a water-table divide appears to divert flow naturally to the southwest to southeast.
- Potentiometric contours for the Upper Lost Lake Aquifer Zone (Maps 2 and 7, Appendix H, Volume III) indicate a flow pattern, with the highest water elevations located north of A/M Area, and flow away from this area to the southwest to southeast. Near the M-Area HWMF and A-014 Outfall, flow is directed to the south. A mound in the potentiometric surface at the M-Area HWMF may result from local recharge from the M-Area Aquifer Zone at this location, possibly enhanced by recovery system water-level drawdown to the north. Another mound in the potentiometric surface located north of the Metallurgical Laboratory Seepage Basin may be the result of pumping by recovery wells RWM 12 to the northeast and RWM 9 and 11 to the southwest.
- Flow beneath the Lower Lost Lake Aquifer Zone (Maps 3 and 8, Appendix H, Volume III) is toward the south, southeast. The most prominent feature is a generally north-south oriented trough beneath the M-Area HWMF. The potentiometric depression that occurs near the recovery wells surrounding the M-Area HWMF may result from the recovery well system.
- The flow direction in the Middle Sand Aquifer Zone of the CBCU (Maps 4 and 9, Appendix H, Volume III) is toward the south, southeast. The effects of pumping in the overlying Upper and Lower Lost Lake Aquifer Zones cause a slight depression beneath the M-Area HWMF.
- Flow in the Crouch Branch Aquifer Unit (Maps 5 and 10, Appendix H, Volume III) is to the west-southwest, especially in the northern vicinity of A/M Area, apparently controlled by regional discharge to the Savannah River.

Horizontal Flow Rates

Horizontal groundwater flow rates are calculated using the following equation:

$$\text{Flow(ft / day)} = \frac{\text{Hydraulic Conductivity(ft / day)}}{\text{Porosity(unitless)}} \times \frac{dh(\text{ft})}{dl(\text{ft})}$$

Hydraulic conductivity constants estimated for the M-Area Aquifer Zone, the Upper Lost Lake Aquifer Zone, the Lower Lost Lake Aquifer Zone, the Middle Sand Aquifer Zone of the CBCU, and the Crouch Branch Aquifer Unit are 27, 45, 45, 45, and 40 ft/day, respectively; the effective porosity value for each is 0.20 (Aadland et al, 1995 & 1997). The value dh is the difference in head, and dl is the length of the flow path shown on the map. The ratio dh/dl is the horizontal gradient. Gradient, flow rate per day, and flow rate per year were each determined to two significant digits in the calculations.

Flow-rate estimates vary depending on the vertical gradient between wells, the size of the area under consideration, the number of data points, and the length and location of the flow path. Because flow rates are based on inferred or estimated parameters, rate estimates should be considered accurate to an order of magnitude only.

The estimated groundwater flow rates for third and fourth quarters 2000 (Table D-13, Appendix D, Volume I) were as follows:

Third Quarter 2000

- M-Area Aquifer Zone: 198 to 278 ft/year
- Upper Lost Lake Aquifer Zone: 226 to 283 ft/year
- Lower Lost Lake Aquifer Zone: 227 to 264 ft/year
- Middle Sand Aquifer Zone of the CBCU: 159 to 354 ft/year
- Crouch Branch Aquifer Unit: 251 ft/year

Fourth Quarter 2000

- M-Area Aquifer Zone: 197 to 370 ft/year
- Upper Lost Lake Aquifer Zone: 201 to 262 ft/year
- Lower Lost Lake Aquifer Zone: 185 to 293 ft/year
- Middle Sand Aquifer Zone of the CBCU: 183 to 338 ft/year
- Crouch Branch Aquifer Unit: 246 ft/year

These rates are within the same order of magnitude as the flow rates for previous quarters.

Water-Elevation Changes

Recharge and Water-Elevation Changes

Precipitation measurements for the A/M Areas during first and second halves of 2000 are provided in Table 2 below. For comparison, the historical averages are also provided.

Table 2. A/M-Area Precipitation Data for First and Second Halves 2000

	Monthly Precipitation (in.)	Historical Average 1952–1999 (in.)
January	6.53	4.43
February	0.61	4.38
March	3.58	4.82
April	1.43	3.29
May	0.63	3.68
June	4.86	4.55
July	2.49	5.15
August	5.11	4.93
September	7.82	4.10
October	0.00	2.97
November	3.50	2.64
December	1.94	3.52
Annual total	38.33	Average total: 48.47

As in 1998 and 1999, precipitation in the first and second halves of 2000 were several inches below the historical average. Concurrently, recharge rates would also be expected to be below the historical average. A reduction in recharge rates may be reflected in a decreasing trend in water elevations measured in shallow aquifers.

Hydrographs showing water-elevation changes for M-Area HWMF and Met Lab HWMF monitoring wells from 1992 to present are provided in [Appendix G](#) (Volume II). Water elevations portrayed by the hydrographs were determined using the elevation of the top of standpipe as the water measurement reference point except for wells without standpipes, where top of casing was used as the reference point. The vertical scale of the hydrographs has been adjusted to include the normal range for all water elevations in the network. Water elevations were noted that extended outside the range of the chart. The anomalous elevations are believed to be the result of measurement or transcription error and were noted in [Table 1](#).

Monitoring wells generally reflect a water-level decline since 1996 caused by the decrease in precipitation over the last several years. Water elevations in monitoring wells away from the recovery wells system show variations related to rainfall, proximity to streams and other physical features.

Corrective Action and Water-Elevation Changes

The M-Area RWM series of recovery wells were shut down for a week starting March 11, 2000 for maintenance to be performed on the M-1 Air Stripper system. The outage was viewed as an opportunity to conduct a "pumping test" to evaluate current conditions. This provided data to prepare drawdown maps in the Central Sector for the M-Area Aquifer Zone, Upper/Lower Lost Lake Aquifer Zones and Crouch Branch Aquifer. Water elevations were measured before the pumps were stopped, and at the end of the recovery period while the pumps were off. Maps were generated for each aquifer to illustrate the influence of the pumping wells (see [Appendix C](#), [Figures 6 - 10](#)).

Most of the RWM wells are screened across multiple aquifer units and confining zones (see [Appendix B](#), Well Network). Pressure transducers and data loggers were installed in "observation wells" near RWM-10 (MSB-4D, -C and -B and MSB-59D) and near RWM-8 (MSB-13D, -CC and -A). Hand measurements were collected at selected observation wells distributed around the Central Sector. Additionally, hand measurements were taken more frequently at a set of five well clusters distributed around the RWM pumping centers, and also at the RWM wells. Data is provided in [Table 3](#).

Schedule of Field Activities

03/07/00: Instrument wells with pressure transducers and hermits.

03/09/00: Start data collection in all hermits ("background" data).

03/10/00: First round of manual water level readings taken on all selected observation wells. This is our baseline ("background") round of manual water level measurements.

03/11/00: Second round of manual water level readings taken on a subset of wells just prior to outage commencing.

03/11/00, about 12:00 hrs: M-1 Air Stripper outage begins; system/pumps powered down. Stop background data collection in hermits and begin second of three phases (i.e., monitor recovery phase).

03/13/00: Third round of manual water level readings taken on a subset of wells. Recovery phase continues.

03/14/00: Fourth round of manual water level readings taken on a subset of wells. Recovery phase continues.

03/15/00: Fifth round of manual water level readings taken at all selected observation wells. End of outage; begin monitoring of drawdown phase with M-1 system startup via hermits (the third and final hermit phase). No further manual water level measurements are collected.

03/29/00: Stop data collection with hermits; remove transducer and hermit equipment.

Contour Maps:

A series of contour maps was created to show the effects of RWM production well pumping on each of the aquifers in the study area (see Appendix C, [Figures 6 - 20](#)). The maps show groundwater recovery by difference between values of the 03/15/00 (baseline conditions represented by the end of outage measurements) and 03/10/00 (prior to outage) manual water level measurements. The zone of influence from the RWM wells is indicated by the contours of the head difference measured at the end of the aquifer recovery phase.

Table 3. Water Elevation Data Before and During M-1 Stripper Outage

Well*	Aquifer	Water Elevation (ft) 3/10/00 pumps on	Water Elevation (ft) 3/11/00 pumps off	Water Elevation (ft) 3/13/00 pumps off	Water Elevation (ft) 3/14/00 pumps off	Water Elevation (ft) 3/15/00 pumps off	Head Change (ft) (pumps off - pumps on)
MCB11B	LLLAZ	191.18				190.92	-0.26
MCB11C	ULLAZ	191.32				191.05	-0.27
MCB11D	ULLAZ	215.8				215.98	0.18
MSB13A	LLLAZ	206.08	207.56	210.93	211.10	211.22	5.14
MSB13B	ULLAZ				229.55	229.55	NA
MSB13C	MAAZ				226.94	226.94	NA
MSB13CC	ULLAZ	223.02	223.11	223.67	223.84	223.90	0.88
MSB13D	MAAZ	226.75	226.77	226.69	226.76	226.80	0.05
MSB15A	ULLAZ	218	218.33	221.30	221.76	222.08	4.08
MSB15AA	LLLAZ	211.62	212.19	216.24	216.48	216.61	4.99
MSB15D	MAAZ	237.41	237.41	237.41	237.41	237.41	NA
MSB18A	ULLAZ	211.26				211.78	0.52
MSB18B	MAAZ	220.62				220.66	0.04
MSB18C	MAAZ	226.19				226.18	-0.01
MSB21B	LLLAZ	218.53				220.36	1.83
MSB21C	MAAZ	227.9				227.89	-0.01
MSB21TA	CBAU	193.03				193.25	0.22
MSB26	MAAZ	229.39	229.54	229.46	229.58	229.65	0.26
MSB26A	ULLAZ	222.2	225.02	224.66	224.84	224.98	2.78
MSB26B	LLLAZ	216.67	217.17	220.13	220.27	220.41	3.74
MSB31A	CBAU	196.84	196.83	196.99	197.03	196.91	0.07
MSB31B	LLLAZ	210.8	217.06	219.38	219.73	219.86	9.06
MSB31C	MAAZ	231.08	231.07	231.03	231.18	231.10	0.02
MSB31CC	ULLAZ	210.93	216.98	219.43	219.73	219.91	8.98
MSB33	LLLAZ						NA
MSB33A	MSAZ, CBCU	204.19				204.18	-0.01
MSB33B	LLLAZ	206.83				206.89	0.06
MSB33C	ULLAZ	209.94				209.99	0.05
MSB33TA	CBAU	194.76				194.74	-0.02
MSB34A	LLLAZ	217.32	217.48	218.36	218.47	218.48	1.16
MSB34B	ULLAZ	226.52	226.75	226.85	227.05	227.08	0.56
MSB34C	MAAZ				Dry (155.35)		NA
MSB34TA	CBAU	201.02	199.97	201.22	201.22	201.08	0.06
MSB34TB	MSAZ, CBCU	201.31	201.22	201.45	201.47	201.37	0.06
MSB35A	MSAZ, CBCU	215.09				216.26	1.17
MSB35B	ULLAZ	217.54				219.75	2.21
MSB35D	MAAZ	238.45				238.32	-0.13
MSB35TA	CBAU	198.68				198.70	0.02
MSB36A	MSAZ, CBCU	208.69				210.68	1.99
MSB36B	LLLAZ	212.68				214.25	1.57
MSB36C	ULLAZ	212.72				214.30	1.58
MSB36D	MAAZ	232.81				232.75	-0.06
MSB36TA	CBAU	194.05				194.16	0.11
MSB39A	MSAZ, CBCU	207.6				209.85	2.25
MSB39B	LLLAZ	210.39				212.62	2.23
MSB39C	ULLAZ	213.86				215.37	1.51
MSB39D	MAAZ	230.27				230.20	-0.07
MSB39TA	CBAU	191.9				192.02	0.12
MSB40A	MSAZ, CBCU	202.05				202.17	0.12
MSB40B	LLLAZ	203.53				203.58	0.05
MSB40C	ULLAZ	203.59				203.64	0.05
MSB40D	MAAZ	226.53				226.31	-0.22
MSB40TA	CBAU	189.05				189.16	0.11

Table 3. Water Elevation Data Before and During M-1 Stripper Outage (continued)

Well*	Aquifer	Water Elevation (ft) 3/10/00 pumps on	Water Elevation (ft) 3/11/00 pumps off	Water Elevation (ft) 3/13/00 pumps off	Water Elevation (ft) 3/14/00 pumps off	Water Elevation (ft) 3/15/00 pumps off	Head Change (ft) (pumps off - pumps on)
MSB41A	MSAZ_CBCU	216.21				216.41	0.20
MSB41B	MSAZ_CBCU	216.28				216.47	0.19
MSB41C	LLLAZ	216.75				217.00	0.25
MSB41D	MAAZ	241.11				241.10	-0.01
MSB41TA	CBAU	205.81				205.73	-0.08
MSB42A	MSAZ_CBCU	217.5					NA
MSB42B	LLLAZ	223.99					NA
MSB42C	ULLAZ	228.86					NA
MSB42D	MAAZ	229.95					NA
MSB42TA	CBAU	204.15					NA
MSB43A	LLLAZ	227.62				227.76	0.14
MSB43B	ULLAZ	227.75				227.90	0.15
MSB43D	MAAZ_GCCZ	229.82				229.33	-0.49
MSB43DD	MAAZ	229.82				229.79	-0.03
MSB43TA	CBAU	201.97				202.04	0.07
MSB4A	MAAZ						NA
MSB4B	LLLAZ	206.73	210.16	214.62	214.85	215.00	8.27
MSB4C	ULLAZ	213.14	214.35	217.73	218.19	218.51	5.37
MSB4D	MAAZ	227.77	227.96	227.99	228.08	228.07	0.30
MSB59D	MAAZ	227.73	228.22	228.15	228.25	228.25	0.52
MSB62B	LLLAZ				212.95	213.14	NA
MSB62C	ULLAZ				222.97	223.10	NA
MSB62D	MAAZ				227.56	227.56	NA
MSB64B	LLLAZ	206.43				209.16	2.73
MSB64C	ULLAZ	221.37				221.85	0.48
MSB64D	MAAZ	225.78				225.80	0.02
MSB70C	ULLAZ	216.63				216.69	0.06
MSB70D	MAAZ	220.14				220.15	0.01
MSB74B	LLLAZ	208.88				209.39	0.51
MSB74C	ULLAZ	209.71				208.71	-1.00
MSB74D	MAAZ					230.06	NA
RWM1	MAAZ/GCCZ/ULLAZ	185.59	221.49	223.38	223.82	224.06	38.47
RWM10	MAAZ/GCCZ/ULLAZ/ LLLAZ/ MSAZ	192.75	215.42	218.86	219.12	219.31	26.56
RWM11	MAAZ/GCCZ/ULLAZ/ LLLAZ	225.35	225.60	225.97	226.15	226.23	0.88
RWM2	MAAZ/GCCZ/ULLAZ/ LLLAZ	161.72	226.38	226.88	227.11	227.18	65.46
RWM3	MAAZ/GCCZ/ULLAZ/ LLLAZ	211.24	224.33	225.34	225.15	225.64	14.40
RWM4	MAAZ/GCCZ/ULLAZ/ LLLAZ	205.36	219.38	222.12	222.36	222.51	17.15
RWM5	MAAZ/GCCZ/ULLAZ/ LLLAZ	209.79	219.19	221.71	221.97	222.11	12.32
RWM6	MAAZ/GCCZ/ULLAZ/ LLLAZ/	214.45	222.18	224.00	224.26	222.34	7.89
RWM7	MAAZ/GCCZ/ULLAZ/ LLLAZ/	195.22	220.52	222.73	223.15	223.39	28.17
RWM8	MAAZ/GCCZ/ULLAZ/ LLLAZ/	202.57	210.42	213.56	213.74	213.86	11.29
RWM9	MAAZ/GCCZ/ULLAZ/ LLLAZ	228.28	228.37	228.46	228.65	228.72	0.44
SRW15A	MSAZ_CBCU	207.48				207.44	-0.04
SRW15B	ULLAZ	207.65				207.65	0.00
SRW15C	MAAZ	210.89				211.03	0.14

Notes: MAAZ: M-Area Aquifer Zone

GCCZ: Green Clay Confining Zone

ULLAZ: Upper Lost Lake Aquifer Zone

LLLAZ: Lower Lost Lake Aquifer Zone

MSAZ_CBCU: Middle Sand Aquifer Zone of the Crouch Branch Confining Unit

NA: Not applicable

*Shaded areas identify subset of wells measured more frequently during the M-1 Stripper Outage.

RWM Pumping Well Flow Rates:

Table 4 shows the totalizer and flow rate values from the 11 RWM series recovery wells in the study. This includes values for RWM 8 and RWM 10 just prior to outage start on 03/11/00 and for all wells after system startup (readings taken on 03/15/00, 03/17/00, and 03/23/00).

Table 4. RWM Pumping Well Flow Rates

Well ID	Flow Rate (gpm) 3/11/00	Flow Rate (gpm) 3/15/00	Flow Rate (gpm) 3/17/00	Flow Rate (gpm) 3/23/00	Flow Rate (gpm) 3/29/00
RWM1	-	-	20.5	<i>19.87</i>	-
RWM2	-	-	26.0	<i>25.30</i>	-
RWM3	-	-	60.2	<i>58.90</i>	-
RWM4	-	-	47.0	<i>46.65</i>	-
RWM5	-	-	48.1	<i>47.61</i>	-
RWM6	-	-	68.1	<i>67.39</i>	-
RWM7	-	-	38.1	<i>37.12</i>	-
RWM8	45.8	56 ^a	46.5	<i>45.00</i>	46.17
	45.0	-	-		-
RWM9	-	-	46.3	<i>45.53</i>	-
RWM10	36.4	46.0 ^b	32.4	<i>31.97</i>	31.98
	43.0	-	-		-
RWM11	-	-	71.5	<i>70.74</i>	-

Notes:

- a- Bad readings from this meter - totalizer already running and reading 18.7 gpm prior to pump being turned on.
- b- Initial flow rate was 56-58 gpm, which was rapidly throttled back to 46.0 gpm.
- c- Bold italics indicate calculated flow rates from totalizers

Summary of Observations

The observations drawn from the data collected during the M-1 stripper outage are discussed in relationship to the aquifers beginning with the uppermost zone and continuing to the deepest zone monitored. The discussion only refers to RWM wells in the Central Sector associated with the M-1 stripper. Estimates of the extent of the zone of influence for each aquifer are based on the recovery measured at the selected monitoring wells, and are therefore biased by the location and distribution of the available wells that were screened at the appropriate intervals.

Although the screen zones of RWM 1 through 11 all begin in the M-Area Aquifer Zone, their influence on the flow field in this aquifer appears minimal. The maximum recovery measured in a monitoring well was only 0.52 ft (MSB 59D), near RWM 10. The screened interval for RWM 10 extends from the M-Area Aquifer Zone down to the Middle Sand Aquifer Zone of the Crouch Branch Confining Unit. None of the other RWM wells appear to extract much groundwater through the screened portions that begin in the M-Area Aquifer Zone.

Most of the RWM wells have the greatest screen length within the Lost Lake Aquifer Unit since this is the primary target zone for the groundwater remediation in the Central Sector. As would be expected, the Upper and Lower Lost Lake Aquifer Zones show the greatest response to the RWM pumping wells. Of the monitoring wells, a maximum recovery of 8.27 ft (MSB 31CC) was observed in the Upper Lost Lake Aquifer Zone and a maximum recovery of 9.06 ft (MSB 31B) was observed in the Lower Lost Lake Aquifer Zone.

In the Upper Lost Lake Aquifer Zone, the center of the zone of influence during pumping is in the vicinity of RWM 6, and affects an area approximately 3 miles in diameter. In the Lower Lost Lake Aquifer Zone, the center of the zone of influence is more elongated around RWM 6, 7 and 10, and encompasses an area approximately 4 miles in diameter.

Only RWM 8 and 10 penetrate into the Middle Sand Aquifer Zone of the Crouch Branch Confining Unit. As would be expected, the extraction influence in this aquifer is greatest in the vicinity of RWM 7 and 10,

as demonstrated by the maximum recovery measured at the nearby wells, 2.25 ft (MSB 39A) and 1.99 ft (MSB 36A). The zone of influence has a diameter of roughly 3 miles.

None of the RWM wells reach the Crouch Branch Aquifer Zone and only RWM 8 and 10 penetrate to the Middle Sand Aquifer Zone of the Crouch Branch Confining Unit. The negligible effect the RWM pumping wells have on the Crouch Branch Aquifer Zone is evidence of the competency of the Lower Clay Confining Zone of the Crouch Branch Confining Unit in the vicinity of RWM 8 and 10.

Generally, the extraction influence of the RWM recovery wells seems to be greatest in the vicinity of RWM 6, 7, 8 and 10. Less aquifer response was measurable around the RWM wells located further north in the Central Sector. For the most part, the zone of influence in the Lost Lake Aquifer Unit correlates well with high concentration regions of the TCE and PCE plumes that are the target of the remediation activities in the Central Sector.

Effectiveness of the Corrective-Action Program

The effectiveness of the corrective-action program is evaluated by assessing water quality changes and rate of contaminant removal. The duration of the cleanup program is estimated by tracking the time it takes to remove contaminants from the groundwater and projecting the time it will take to reach the remediation goals.

Water Quality Changes

Extent of Contamination

The discussion of the horizontal and vertical extent of contamination addresses the distribution of PCE and TCE contamination ([Maps 11 through 20](#), Appendix H, Volume III). PCE, although geometrically similar in distribution to TCE, is usually present in lower concentrations, and the plume is less extensive. The 5 µg/L contour lines on the isoconcentration maps encompass the areas where the constituent exceeded the GWPS during third quarter 2000.

Isoconcentration maps of nitrate-nitrite as nitrogen, sodium, and sulfate are provided in the annual reports as indicators of contamination emanating from discrete sources in the A/M Area, even though these constituents are not part of the list of hazardous constituents. Nitric acid and sodium hydroxide were used to clean aluminum parts in the A/M Area during the manufacture of fuel targets for reactors. Isoconcentration maps of sodium and nitrate may be useful in identifying the zone of contamination that could be attributed to the M-Area Basin. A separate zone of elevated sodium concentrations in the Northern Sector may be indicative of another release from the SRL Seepage Basins. A distinct plume of sulfate contamination was observed within the northern sector at the SRL Seepage Basins when isoconcentration maps were plotted using first quarter 1995 and third quarter 1996 data for the M-Area and Upper Lost Lake Aquifers. Therefore, isoconcentration maps of sulfate may be indicative as general tracers of the contamination zone attributed to the SRL Seepage Basins.

The results of a special program conducted to determine the extent of inorganic contamination near the M-Area HWMF were presented in the 1987 annual report (DuPont, 1988). The results indicate that a plume of mobile inorganic constituents is present south-southeast of the M-Area HWMF. The plume is evident in most of the hydrostratigraphic units composing the M-Area Aquifer Zone and appears to have a pattern similar to the TCE and PCE plumes. Plume maps for the inorganics also were shown in the revised RCRA Part B post-closure care permit application submitted May 31, 1988; they are not presented in this report. Because these constituents are within the more extensive chlorinated solvent plumes, they are addressed by the current corrective-action system or by other measures.

Vertical distribution of PCE along 6 transects is shown by isoconcentration cross-sections [38 through 43](#) (Appendix H, Volume III). Vertical distribution of TCE along 6 transects is shown by isoconcentration cross-sections 44 through 49 (Appendix H, Volume III).

Contour lines on the isoconcentration maps are solid when the horizontal extent of the constituent was confidently interpreted and dashed when concentration boundaries were uncertain. Isoconcentration maps, showing the extent of contamination, are interpreted and plotted for the recorded specific concentration value of a monitoring well within a specific aquifer for that specific time frame. The plume geometry and apparent extent of contamination may differ between sampling periods. Differences may in part be attributed to the distribution of data points available for each sampling period being contoured. If a particular well at a controlling location could not be sampled due to access or mechanical problems, historical data from the well was reviewed to determine what the expected value would have been from the well, and efforts were made to honor the historical data while contouring. A similar review process was used in the case of data returned from the lab with the qualifiers "J" or "L" that were posted on the maps as

“non decision data” (NDD) based on guidance received from SCDHEC (letter, Taylor to Cook, April 21, 1998). Thus the extent of the plume may not be representative of past extents of the depicted analyte.

M-Area Aquifer Zone

[Maps 17 -21](#) (Appendix H, Volume III) show constituent distribution in the M-Area Aquifer Zone. The plume generally is limited to areas of known or suspected solvent disposal sites, which include the M-Area HWMF, the Solvent Storage Facility, the A-014 outfall, the Metallurgical Laboratory Seepage Basin, the Miscellaneous Chemical Basin (MCB)/Metals Burning Pit, and the A-Miscellaneous Rubble Pit.

Upper Lost Lake Aquifer Zone

[Maps 22 through 26](#) (Appendix H, Volume III) show the extent of contamination in the Upper Lost Lake Aquifer Zone. The pattern of contamination in this zone in relation to known point sources is similar to, but more extensive than, the pattern in the M-Area Aquifer Zone. In general, the extent of the plumes in this zone is greater in the downgradient direction, than in the M-Area Aquifer Zone due to greater horizontal flow rates in the Upper Lost Lake Aquifer Zone. The addition of TCE and PCE data from the SSM wells has enhanced the geometry of the plumes in the Southern Sector.

Lower Lost Lake Aquifer Zone

Constituent concentration in the Lower Lost Lake Aquifer Zone are shown on [Maps 27 through 31](#) (Appendix H, Volume III). The lateral extent of the plume as defined by the 5 µg/L contour is greater in the downgradient directions than in the upper aquifer zones because the Lower Lost Lake Aquifer Zone has a higher potential for horizontal flow. The addition of TCE, and PCE data from the SSM wells has enhanced the geometry of the plumes in the Southern Sector.

Middle Sand Aquifer Zone of the Crouch Branch Confining Unit

The distribution of constituents in the Middle Sand Aquifer Zone of the Crouch Branch Confining Unit is shown on [Maps 32 through 36](#) (Appendix H, Volume III). Monitoring is limited in the Middle Sand Aquifer Zone of the Crouch Branch Confining Unit. Constituent concentrations in this zone, as in the overlying zones, are highest near known sources. Contamination in the Middle Sand Aquifer Zone of the Crouch Branch Confining Unit is less extensive beneath the western part of M Area than in overlying zones. Beneath the eastern part of M Area, contamination patterns are similar to patterns in the Lower Lost Lake Aquifer Zone, but contamination is less extensive in the lower zone. A localized detection of PCE (7.7 ppb) has been recorded at well MSB 55B in the northern sector of A/M Area. However, the detection may be spurious because there were no surrounding detections in the area. A follow-up on the detection did not confirm the existence of PCE contamination.

Crouch Branch Aquifer Unit

The distribution of constituents in the Crouch Branch Aquifer Unit is shown on [Maps 37 through 41](#) (Appendix H, Volume III). Contaminant concentrations in the Crouch Branch Aquifer Unit are primarily limited to the area beneath the Savannah River Technology Center (SRTC) and an area extending from the SRTC north to well MSB 55TA, which is generally upgradient of these facilities. Downward vertical hydraulic gradients from the M-Area Aquifer Zone to the Crouch Branch Aquifer Unit characterize the SRTC area. The presence of a zone of increased transmissivity in the Middle Sand Aquifer Zone, which allows downward flow into the Crouch Branch Aquifer Unit, is indicated by constituent concentrations measured in wells monitoring that portion of the Crouch Branch Aquifer Unit.

Concentration Changes over Time

Changes in PCE and TCE concentrations during the past several years in samples from POC and plume definition wells are illustrated in time series plots in [Appendix F](#) (Volume II). The plots use a fixed, logarithmic scale providing a consistent frame of reference for evaluating

changes in concentration over time. Since the vertical scale begins at 1 ppb, occasionally a few values that were less than 1 ppb drop below the x axis.

Statistical evaluations using the Cumulative Summations (CUSUM) test were previously performed as described in the 1987 *Annual Monitoring and Corrective-Action Report* (DuPont, 1988) and as modified in third quarter 1998. The CUSUM statistical evaluation program was rewritten in 1999 to be consistent with new EPA guidance for using CUSUM (ASTM, 1996, *Provisional Standard Guide for Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs*, PS 64-96; WSRC 2000, *F&HASB Remediation Project, SGS Recommendation for CAR Statistics, PECD-SGS-99-013 Rev. 1*).

The RCRA Part B Permit requires annual reports on the effectiveness of the corrective action program that are to include a statistical evaluation of water quality data for significant changes. The purpose of the statistical evaluation is to identify remediation system impacts to the groundwater quality in various wells. Identifying impacts requires a statistical evaluation since normal concentration fluctuations and trends make a non-statistical approach ineffective.

Typically, combined Shewhart-CUSUM control charts is the method suggested by the EPA for intrawell comparisons (EPA, 1989). However, M-Area/Met Lab data show existing contamination and wells often were installed after initiation of the remediation system. Therefore, the "textbook" combined Shewhart-CUSUM control chart method was slightly modified from the EPA procedure and the ASTM Provisional Standard Guide (ASTM PS 64-96) for use at M-Area/Met Lab HWMFs to statistically monitor both increasing and decreasing changes to our recent groundwater quality data.

The recent historical sampling data (1/1/94 to 12/31/00) was analyzed for trends, with a comparison of the 2000 sampling data (1Q00 and 3Q00) then made to determine if any significant changes have occurred. The "historical" trend determination was made per EPA guidance, and included evaluation and removal of outliers, and normality determination and transformation. The determination of significant changes for 2000 data was made using the standardized value from the combined Shewhart-CUSUM control chart analysis (WSRC, 2000), with any standardized value exceeding the control limits indicating a deviation from the recent historical trend.

Statistical evaluations of trends in concentrations of TCE and PCE using the updated, EPA based version of the CUSUM test are provided in [Tables D-14a and D-14b](#) (Appendix D, Volume I). The CUSUM test was applied to POC wells, recovery wells, and selected plume definition wells. Results of the CUSUM test are provided in the tables for wells having a sufficient quantity of decision quality data to perform the analysis.

Table D-14a provides the CUSUM results for POC and selected plume definition wells. Data for 1Q00 and 3Q00 PCE and TCE concentrations generally remained consistent with long term trends for the aquifer zones under remediation. A long-term downward trend in PCE was observed in the M-Area Aquifer Zone and the Lost Lake Aquifer Zones. The Middle Sand Aquifer Zone of the Crouch Branch Confining Unit showed no discernible trend in PCE; however, a downward trend in TCE concentration is apparent. An upward trend in PCE and TCE concentrations is observable in selected wells in the Upper Lost Lake Aquifer Zone, and also in MSB 13A of the Lower Lost Lake Aquifer Zone.

In the previous annual report, statistical analysis of 3Q99 data was somewhat limited due to the occurrence of numerous data points that received data qualifiers and were therefore not used as decision data. For the 2000 analysis, "J" qualified data was reviewed with respect to the time vs. concentrations plots. Since the "J" qualified values appeared to be well within the normal fluctuation of the concentrations, these values were included in the statistical analysis. The addition of "J" qualified or estimated data has allowed computation of additional trends from last year and does not appear to have had an area-wide negative effect on this statistical analysis.

[Table D-14b](#) provides the CUSUM results for the recovery wells. The majority of RWM wells show a continued decreasing trend in TCE and PCE concentrations. The remaining recovery

wells continued to show no apparent trend, with the exception of several RWM wells which showed TCE and PCE concentrations in 3Q00 that were statistically above the long term trend. Further monitoring at these recovery wells will determine if this is the beginning of a change in the trend, or if it was only a temporary elevation in concentration.

Rate of Contaminant Removal

SRS determines the rate of contaminant removal using mass balance calculations that subtract the concentration of VOCs in the effluent from the concentration of VOCs in the influent. This amount is then multiplied by the number of gallons of water or cubic feet of air that passes through the stripper column or SVEU during a given period. The results of this technique are described in the *Corrective-Action System Operation and Performance* section.

Corrective-Action System Operation and Performance

Corrective action is accomplished in M-Area/Met Lab areas by pumping contaminated ground-water to two air strippers where volatile organic compounds are removed and by pumping contaminated air, using vacuum extraction, from the vadose.

The M-1 Air Stripper in M Area, Central Sector, is fed by 13 recovery wells (RWM series). Eleven of the recovery wells began operating in April 1985 and has been operating full scale since September 1985. The A-2 Air Stripper is fed by 6 recovery wells in the northern sector. The production catalytic-oxidation unit at the Integrated Demonstration Site (782-7M), fed by a single vapor extraction well, began experimental operation in 1990 and has been in full-scale operation since August 1994. Four soil vapor extraction units (SVEU) in the vadose zone, located in A/M Area, have been operating since May 1995. These units are fed by 12 soil vapor extraction wells.

Within the Met Lab area, vadose zone remediation was initiated in 1998 with the installation and operation of 20 BaroBallsTM. Two additional recovery wells, RWM 17B and 17D, began feeding groundwater into the M-1 Air Stripper as of July 2000

Twelve vertical, airlift recirculation wells (ARWs), well series "SSR", are screened in the Upper and Lower Lost Lake Aquifer Zones in the Southern Sector of A/M Area. The ARW remediation system was initiated with the installation of the first SSR well in 1996. Currently 12 wells (SSR well series) are placed approximately 255 feet apart within the vicinity of the 500 ppb isoconcentration contour of TCE (based on 1994 data). The SSR wells form a line diagonal to the groundwater flow path. Computer modeling predicts the SSR wells form a vertical capture zone extending through the majority of the Lost Lake Aquifer Zone (Aleman and Hamm, 1999). Eleven SSR wells of this Southern Sector remediation system became operational during 1999. The SSR wells are monitored by the SSM well series. TCE and PCE data from the SSM wells 10 – 18 are posted on the isoconcentration maps for information purposes to provide a better approximation of the southern sector plume geometry. SSM wells 10 through 18 were used because they are located parallel to the line of SSR wells and are in a better distribution to provide data than wells SSM 1-9, which are grouped near the ends of the SSR transect. Also, the data collected from SSM 1-9 is not validated data. [Table D-23](#) provides a summary of the SSM and SSR, TCE and PCE data collected during 2000, as well as historical data.

A description of the systems that compose the corrective-action program follows.

Air Stripper Performance

M-1 Air Stripper

A summary of 2000 operation and performance data for the M-1 Air Stripper is presented in [Table D-15](#) (Appendix D, Volume I). During the second half of 2000, the stripper removed 4,589 lbs. of VOCs. The average monthly influent VOC concentration was 4,948 µg/L. The average monthly effluent total was below detection.

The M-1 Air Stripper has removed a cumulative total of 372,232 lbs. of VOCs since the beginning of operation in 1995. When combined with the contaminated water treated by the pilot air stripper, the prototype air stripper, and the start-up of the full-scale M-1 Air Stripper system (16,200, 15,900, and 2,100 lbs., respectively, for a total of 34,200 lbs.), the total weight of PCE and TCE removed by the M-1 Air Stripper by the end of 2000 was 406,432 lbs.

The water feed rate to the M-1 Air Stripper has averaged 425 gpm since startup. Total inlet solvent concentrations have decreased from roughly 47,100 µg/L in April 1985 to less than 4800 µg/L in December 2000. Stripping efficiency has always produced effluent concentrations substantially less than the permit limits.

A-2 Air Stripper

A summary of 2000 operating and performance data for the A-2 Air Stripper is presented in [Table D-16](#) (Appendix D, Volume I). During the second half of the year, the stripper removed 628 lbs. of VOCs from RWM 12, RWM 13B, RWM 13C, RWM 14B, RWM 14C, and RWM 15. The average semi-annual influent concentration was 984 µg/L, and the average semi-annual effluent VOC concentration was below detection.

Vadose Zone Unit Performance

SVEU Vadose Zone Unit 782-3M

A summary of 2000 operating and performance data for the 782-3M is presented in [Table D-17](#) (Appendix D, Volume I). During the second half of the year, the 782-3M removed a total of 6,322 lbs. of VOCs. The average monthly VOC influent concentration was 119.8 ppmv.

SVEU Vadose Zone Unit 782-4M

A summary of 2000 operating and performance data for the 782-4M is presented in [Table D-18](#) (Appendix D, Volume I). During the second half of the year, the 782-4M removed a total of 6,918 lbs. of VOCs. The average annual influent VOC concentration was 229 ppmv.

SVEU Vadose Zone Unit 782-5M

During 1999, the 782-5M achieved its goal and was taken out of operation.

SVEU Vadose Zone Unit 782-6M

A summary of 2000 operating and performance data for the 782-6M is presented in [Table D-19](#) (Appendix D, Volume I). During the second half of the year, while the DUS vapor extraction system was operating, the 782-6M removed a total of 7,170 lbs. of VOCs. The average annual influent VOC concentration was 115 ppmv.

SVEU Vadose Zone Unit 782-7M (formerly the Integrated Demonstration Unit (IDU))

A summary of 2000 operating and performance data for the 782-7M (formerly the IDU) is presented in [Table D-20](#) (Appendix D, Volume I). During the second half of the year, the 782-7M removed 625 lbs. of VOCs. The average monthly influent VOC concentration was 28 ppmv.

SVEU Vadose Zone Unit 782-8M

During 1999, the 782-8M achieved its goal and was removed from service.

Recovery Well System

Monthly and cumulative volumes of groundwater pumped from the recovery well system and average flow rates for recovery wells RWM 1 through 17D are presented in [Table D-21](#) (Appendix D, Volume I). Monthly concentrations (µg/L) of PCE and TCE in each well are presented in [Table D-22](#) (Appendix D, Volume I).

Southern Sector Recirculation Wells

Monthly operational and performance data for the Southern Sector recirculation wells SSR-001 through SSR-012 are presented in [Table D-23](#) (Appendix D, Volume I). During 2000, the recirculation wells removed a total of 1781 lbs. of TCE and 77 pounds of PCE. Table D-23 also includes observation data from the SSM monitoring wells.

Dynamic Underground Stripping

Dynamic Underground Stripping (DUS) is a process in which steam is injected into the subsurface zone to drive contaminants to an extraction point. The volatilized contaminants are removed by applying suction to wells screened in the vadose zone.

A DUS system was started in the A/M-Area at the Solvent Storage Tank Area to remove TCE and PCE from the subsurface.

The DUS removed approximately 7000 lbs of TCE and PCE from the soil column since start up in June 2000. A very strong upward trend in the PCE and TCE concentration in the offgas was observed from the start of operations to the close of the calendar year.

Vapor Extraction Well System

Vapor extraction well AMH 2 pumps contaminated air to the SVEU Vadose Zone Unit 782-7M (formerly the IDU). [Table D-20](#) (Appendix D, Volume I) presents a summary of 2000 activity at the 782-7M.

Soil vapor extraction wells MVE 4, MVE 9, and MVE 10 pump contaminated air to the SVEU Vadose Zone Unit 782-3M, located at the A-014 outfall. [Table D-17](#) (Appendix D, Volume I) presents a summary of 2000 activity at the 782-3M.

Soil vapor extraction wells AMH 6 and AMH 7 pump contaminated air to the SVEU Vadose Zone Unit 782-4M, located at the M-Area Settling Basin. [Table D-18](#) (Appendix D, Volume I) presents a summary of 2000 activity at the 782-4M.

Soil vapor extraction wells MVE 1, MVE 2, and MVE 3 pump contaminated air to the SVEU Vadose Zone Unit 782-6M, located at the 321-M Solvent Storage Tank Area. [Table D-19](#) (Appendix D, Volume I) presents a summary of 2000 activity at the 782-6M.

Air Stripper Modifications

Construction was completed on the connection from the Met Lab wells to the M1 Air Stripper in First and Second Quarter of 2000. Operation of RWM-17B commenced on June 12, 2000. RWM-17D was dry on June 12, 2000 probably due to the recent draught. RWM-17D started normal continuous operation in July 2000.

Vadose Zone Unit Modifications

SVEU 782-5M was physically removed and transferred to another remedial project because it had completed its designated mission.

Nine two-inch diameter wells were installed in the A-014 Outfall and were piped into the 782-3M SVEU in the second half of 2000. Work is ongoing to optimize the performance of these wells.

SVEUs 782-5M and 782-7M were shut down due to low contaminant removal rates. Unit 782-7M continues to operate with a removal rate of about 25 lbs./week.

The M-Area Part B permit Modification Rev. 4 stated that final shutdown of the soil vapor extraction units would be supported by an assessment of the areas under remediation. Twenty cone penetrometer characterization locations were completed in November 2000 for soil gas and sediment sampling. Concentration measurements were made on 60 existing vadose zone monitoring points in the area. A total of 282 sediment samples and 155 soil gas samples were collected. The complete details of the sampling effort can be found in Vadose Zone Remediation Assessment: M-area Process Sewer soil Vapor Extraction Units 782-5M, 782-7M, and 782-8M (WSRC, 2001).

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Monitoring and Corrective-Action Program Assessment

Ongoing Programs

M-Area HWMF

Compliance and Post-Closure Programs

- In 1980, the U.S. Department of Energy (USDOE) submitted a notification of the SRS hazardous waste activities to SCDHEC; USDOE then submitted a RCRA Part A hazardous waste permit application.
- SRS notified SCDHEC of volatile organic solvent contamination when it was first detected in the groundwater beneath the settling basin in June 1981. A network of monitoring wells was initiated to define the extent, concentration, distribution, and migration rate of the contaminant plume.
- Interim status monitoring began in 1983 and continued through September 1987; assessment monitoring was initiated second quarter 1986 and completed fourth quarter 1987.
- In February 1983, SRS voluntarily began a pilot remediation system to treat contaminated groundwater.
- A groundwater protection plan was submitted to Congress in June 1984 to meet the requirements of Public Law 98-181.
- In compliance with the requirements of Public Law 98-181, a closure plan for the settling basin was submitted to SCDHEC in 1984, with revisions in 1985 and 1987.
- A full-scale corrective-action program was initiated in 1985 to remove and treat hazardous constituents from the groundwater beneath the M-Area HWMF.
- The M-Area HWMF RCRA Part B post-closure care permit application was approved by SCDHEC in 1987.
- Closure was approved by SCDHEC on July 10, 1987; a closure cap was completed during 1989 and 1990; and closure was certified by SCDHEC on April 26, 1991.
- The 1992 M-Area HWMF RCRA Part B permit renewal application was submitted to SCDHEC in April 1992 as specified in SCHWMR R.61-79.270.30(b) and 270.50(a).
- Revision 1 of the 1992 M-Area HWMF RCRA Part B permit renewal application was submitted to SCDHEC in March 1993. The revision included proposals to reduce the sampling, analysis, and reporting requirements for the groundwater monitoring program in A/M Area.
- Modifications to the 1992 M-Area HWMF RCRA Part B permit renewal application (Revision 2) and the 1987 Part B permit application (Revision 4) were submitted to SCDHEC December 20, 1993. The modifications included a proposal to include PCB monitoring at specified A/M-Area groundwater monitoring wells.
- To expedite SCDHEC's approval of the program to reduce sampling, analysis, and reporting, Revision 5 of the 1987 Part B permit application was submitted in February 1994. SRS received a Notice of Deficiency (NOD) on Revision 5 in June 1994.
- Revision 6 of the 1987 Part B permit application, submitted to SCDHEC in July 1994, was approved by SCDHEC. The revision addresses the NOD on Revision 5, with modifications to the proposed reductions in sampling, analysis, and reporting.

- Also in July 1994, Revision 3 of the 1992 Part B permit renewal application was submitted to SCDHEC in response to their NOD. Revision 3 modifications included updating the hydrostratigraphic nomenclature; updating information on the purged water disposal station, closure and corrective-action activities, DNAPL investigations, and proposed demonstration programs; adding information on new investigations in the western and southern sectors of A/M Area; and revising text on contingency plans, personnel training, and procedures to prevent hazards. The renewal document adheres to the format specified in the EPA Regulatory Completeness Checklist for Post-Closure Permit Applications (Revision 4, February 4, 1986). SCDHEC reviewed the application and held a comment and response period in March 1995.
- The final report updating the hydrostratigraphy of the A/M Area and the Metallurgical Laboratory HWMF was submitted to SCDHEC in February 1995.
- The 1995 RCRA Renewal Permit (SCDHEC, 1995) for the M-Area HWMF and the Metallurgical Laboratory HWMF became effective October 5, 1995.

A/M-Area Vadose Zone Remediation

Although the groundwater corrective-action system in A/M Area has proven effective in removing and treating contaminated groundwater, it does not remove contaminants from the vadose zone, which is the unsaturated layer of soil between the ground surface and the water table. Vadose zone remediation decreases the migration of residual contaminants into the groundwater and reduces the time required for groundwater remediation.

The following four sites, which have elevated levels of PCE and TCE in the vadose zone, have been chosen for vadose zone remediation using vacuum extraction: the abandoned process sewer line, the M-Area Settling Basin, the A-014 Outfall, and the former 321-M Solvent Storage Tank area. Vacuum extraction was selected after a successful pilot demonstration removed more than 1,500 lbs. of solvents during a 21-day test in 1987.

Four SVEUs were installed in A/M Area during 1994. Design of the SVEUs was completed March 11, 1994; construction began March 28, 1994, and was completed in April 1995. On March 25, 1994, SRS requested temporary authorization to initiate vadose zone vacuum extraction at the four locations. SCDHEC granted temporary authorization in June 1994 (letter, J. Litton to W. Wierzbicki, June 16, 1994) and again in June 1995. The SVEUs have been operating since May 1995. During 1999, one of the SVEUs, 782-5M achieved its remediation goals and was removed from service.

The soil vacuum extraction systems operate under air quality control permits 0080-0041-M-CA, 0080-0041-M-CB, 0080-0041-M-CC, and 0080-0041-A-CA issued by SCDHEC in January 1993.

Process modifications have been placed on the four SVEUs to allow remote control operation of the systems. This system allows automatic processing changes while the units are operating. This dynamic process eliminates the manual manipulations necessary to operate the units while still meeting the air quality control permit requirements.

Two additional SVEUs, located near the M-Area Settling Basin and the process sewer line, were on line in 1997. During 1999, one of the SVEUs, 782-8M achieved its remediation goals and was removed from service.

Additional characterization of the vadose zone contamination plume was completed in 1997 and early 1998. These results were compiled for submittal and further action strategies.

The Vadose Zone Monitoring Plan was submitted under separate cover in March 1998.

Purge Water Management

During third quarter 1993, construction of a facility to receive, store, and transfer purged water from the M-Area monitoring wells to the M-1 Air Stripper was completed. This Purged Water Disposal Station, 782-2M, houses a 10,000-gal, double-wall tank. This facility has been used continuously for containment of purged water since January 1994.

Investigation Derived Waste Minimization

In 1999, SRS initiated use of an alternate monitoring well design, the Westbay Multi-port Sampling System. The Westbay Multi-port Sampling System allows groundwater sampling from multiple screened intervals in the same well bore. The advantage in utilizing this technology is that only a single well bore needs to be drilled for multiple completions. Also, because the sampling device is connected directly to the aquifer via a depressible "O-ring", the only Investigation Derived Waste (IDW) that is generated is from the unused portion of the groundwater sample brought to the surface in the sampling chambers. The best application of this technology is for VOC contaminated groundwater in thick (i.e., 40-60 feet) aquifers which exhibit clean sand formations with very thin clay laminae. It is especially useful when volatile contamination is present due to the low sample volume needed for analysis. The sampler is limited to approximately one-half liter per run in the hole. This is the major limiting factor. As many as four canisters can be strung together to produce one liter of sample; however, a 20-foot sump below the sampling port is required to accommodate the canisters.

The first Westbay system was installed in the spring of 1999, MSB-91TB. This pilot Westbay system was completed in the Crouch Branch Aquifer Unit with two screened intervals. Installation of this Westbay system provided dual benefits by reducing IDW generation, and also reducing installation costs since conventional well installation would have required using surface casing for two wells, instead of just one. Following this successful application of the Westbay system, the technology was applied to eight effectiveness monitoring wells (SSM 10 – 17) designed to monitor the effectiveness of the recirculation well (SSR 1 – 12) VOC remediation in the Southern Sector of A/M Area. These eight Westbay completions in the Lost Lake Aquifer Zone have two screened intervals each, one interval screened in the Upper Lost Lake Aquifer Zone, and one in the Lower Lost Lake Aquifer Zone. The Southern Sector wells were installed in two phases of four wells each. The first was in October/November 1999 time frame and the last four were installed in January 2000.

Planned activities are for installation of the Westbay Multi-port Sampling System in five effectiveness monitoring well installations at the MCB. This remediation activity is for VOC contamination in the Lost Lake Aquifer Zone also. For the MCB installation two screened intervals will have the Westbay system installed. Although the MCB is not part of the M-Area or Met Lab HWMFs, monitoring activities are included in this report due to its proximity to the HWMFs, and its inclusion on area maps. Other planned activities are for the installation of as many as eight Westbay systems in the Crouch Branch Aquifer Unit, with up to three screened zones each. To date none of the Westbay systems have yet positioned screen zones above and below a confining unit in the same well bore.

Central Sector Remediation

The remediation strategy in the Central Sector has been to identify and remove DNAPL in the subsurface, while continuing mass removal from the dissolved plume using the M-1 Air Stripper and the RWM recovery well system. Remediation is complemented with SVEU operations in the vadose zone.

Western Sector Characterization

Soil headspace was analyzed on eight borings in the western sector. The drilling report has recently been released and shows a refinement of the boundary of the TCE/PCE plume. The findings suggest that the primary source of TCE/PCE is from the M-Area Seepage Basin with the contamination spreading into the western sector from upgradient sources. In addition, fate and transport modeling is being developed to predict mobility of the DNAPL pool that is located near the M-Area Settling Basin and Lost Lake. Characterization was initiated and completed in the Western Sector during 1998 that further defined the plume and lithology in the area.

Southern Sector Remediation

The Southern Sector information is included to meet the requirements of the annual effectiveness monitoring report for this area. The southern sector plume has an estimated aerial

extent of 800 acres, ranging from relatively dilute concentrations of volatile organic compounds to concentrations in the 16,000 ppb range, and is outside the zone of influence of the M-1 and A-2 Air Stripper groundwater recovery system. SRS investigated the Southern Sector to determine the boundary of solvent contamination and to define the geology and hydrology of the area. Based on the results of the assessments, in 1996 SRS installed two vertical air recirculation wells (ARW), well series SSR, in the Lost Lake Aquifer Zone to control downgradient migration of the >500 ppb boundary of the VOC plume. Ten additional wells were also installed in the Lost Lake Aquifer Zone and start-up of 11 of the 12 wells in the system began in 1999. A multi-stage, in-well aerator, developed by Davis Environmental, was installed into SSR-012.

An "effectiveness monitoring plan" was submitted to SCDHEC and was approved in 1999. The plan proposed installation of 8 wells, in addition to using 4 existing wells to monitor effectiveness of the ARW treatment system. The wells monitoring the ARW treatment system are the SSM well series, 1 through 18. The SSM well clusters have wells screened in the the Upper and Lower Lost Lake Aquifer Zones. Monthly status reports have continued on the progress of the remedial system.

Reports are scheduled for annual submittal to SCDHEC. The Southern Sector Phase 1 Corrective Action Plan (WSRC-RP-2000-4179) was submitted to SCDHEC in December 2000. Based on the monitoring data, it is clear that some of the ARW wells are located upgradient (SSR-8, -9, -10, -11, and 12) or sidegradient (SSR-1) of the 500 ppb contour of the TCE plume. The current ARW system does not have the treatment capacity to control the approaching highly contaminated plume. Actions to correct these problems are being planned.

Northern Sector Characterization and Remediation

Characterization of the Northern Sector was initiated in 1998 by drilling three soil borings. Initial results of the borings showed a positive VOC result in the Lost Lake and Crouch Branch Aquifers. Follow-up testing has failed to confirm the VOC results in these borings. However, additional monitoring wells were installed in 1999 for continued monitoring of the Lost Lake and Crouch Branch Aquifers.

Groundwater contamination in the Northern Sector extends over approximately 174 acres. Controlling contamination in the uppermost aquifer zone will prevent further migration downward into the deeper Crouch Branch Aquifer Unit. The A-2 Air Stripper, with a feed rate of 300 gpm, is fed by six recovery wells: RWM 13B, 13C, 14B, 14C, 15B and RWM 12 (previously from the A-1 Stripper Unit). The A-2 Stripper Unit began operating in fiscal year 1996.

Although not designed for remediation purposes, production wells 905-20A and 905-53A provide remediation benefits in the Crouch Branch Aquifer in the Northern Sector. The annual operating frequency of the production wells is about 50% of the year and is estimated to remove approximately 700 lbs. of solvent every year (Jackson et al., 1997) if operating at that frequency.

Met Lab HWMF

Vadose zone remediation was initiated in 1998 with the installation and operation of 20 BaroBalls™ within the Met Lab area. Two additional recovery wells, RWM 17B and 17D, began feeding groundwater into the M-1 Air Stripper as of July 2000.

A proposal for background wells is currently under SCDHEC review for acceptance. The set of proposed background wells will allow an accurate statistical assessment of the contamination found in and around the Met Lab area.

Proposed Monitoring and Corrective-Action Program Modifications

The progress of proposed modifications is reported here after changes are approved by SCDHEC in other reports, e.g., status reports, monitoring-change proposals, and modifications.

Groundwater Monitoring Program

A modification to the current sampling program was submitted in 1998 to reduce the sampling requirements (analytes and wells) for the M-Area HWMF. This modification received partial approval in March 1999.

A/M-Areas Vadose Zone Remediation Program

SVEU 782-5M was physically removed and transferred to another remedial project because it had completed its designated mission.

Nine two-inch diameter wells were installed in the A-014 Outfall and were piped into the 782-3M SVEU in the second half of 2000. Work is ongoing to optimize the performance of these wells.

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Errata and Revisions

Result values for earlier quarters presented in this report may differ from the values for those same quarters presented in previous reports because some re-analyses may have occurred after the quarterly reports were printed.

First and Second Quarters 2000

No errata have been reported.

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Appendix A

Standards

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Table A-1. Standards for M-Area HWMF

Groundwater Protection Standard

261 Appendix VIII / 264 Appendix IX Hazardous Constituents

<u>Constituent</u>	<u>Standard</u>	<u>Unit</u>	<u>Source</u>
<u>Inorganics</u>			
Barium	2,000	µg/L	SCDHEC (1995) ^a
Cyanide	40 ^b	µg/L	SCDHEC (1995)
Lead	15	µg/L	SCDHEC (1995)
Nickel	100	µg/L	SCDHEC (1995)
Selenium	50	µg/L	SCDHEC (1995)
<u>Organics</u>			
Chlorobenzene	5 ^c	µg/L	SCDHEC (1995)
1,1-Dichloroethane	5 ^c	µg/L	SCDHEC (1995)
1,1-Dichloroethylene	7	µg/L	SCDHEC (1995)
trans-1,2-Dichloroethylene	100	µg/L	SCDHEC (1995)
PCB 1016	0.5	µg/L	SCDHEC (1995)
PCB 1221	0.5	µg/L	SCDHEC (1995)
PCB 1232	0.5	µg/L	SCDHEC (1995)
PCB 1242	0.5	µg/L	SCDHEC (1995)
PCB 1248	0.5	µg/L	SCDHEC (1995)
PCB 1254	0.5	µg/L	SCDHEC (1995)
PCB 1260	0.5	µg/L	SCDHEC (1995)
1,1,2,2-Tetrachloroethane	5 ^c	µg/L	SCDHEC (1995)
Tetrachloroethylene	5	µg/L	SCDHEC (1995)
1,1,1-Trichloroethane	200	µg/L	SCDHEC (1995)
Trichloroethylene	5	µg/L	SCDHEC (1995)

Monitoring Constituents Standard

<u>Constituent</u>	<u>Standard</u>	<u>Unit</u>	<u>Source</u>
<u>Inorganics</u>			
Aluminum	100	µg/L	WSRC (1987) ^d
Chloride	4,200	µg/L	WSRC (1987)
Chromium	100	µg/L	EPA (1993a) ^e
Cobalt	4	µg/L	WSRC (1994) ^f
Copper	1,300	µg/L	WSRC (1994)
Fluoride	4,000	µg/L	EPA (1993a)
Manganese	50	µg/L	EPA (1993b) ^g
Mercury	2	µg/L	EPA (1993a)
Nitrate-nitrite as nitrogen	2,400	µg/L	WSRC (1987)
Sodium	4,600	µg/L	WSRC (1987)
Sulfate	3,000	µg/L	WSRC (1987)
Total phosphates (as P)	300	µg/L	WSRC (1987)

Table A-1. Standards for M-Area HWMF (continued)

Monitoring Constituents Standard (continued)

<u>Constituent</u>	<u>Standard</u>	<u>Unit</u>	<u>Source</u>
Uranium	100	µg/L	WSRC (1987)
Zinc	5,000	µg/L	EPA (1993b)
<u>Radionuclides</u>			
Gross alpha	15	pCi/L	EPA (1993a)
Nonvolatile beta	50	pCi/L	EPA (1993a)
Radium, total alpha-emitting ^h	5	pCi/L	EPA (1993a)

^a Concentrations with SCDHEC (1995) sources are groundwater protection standards in the 1995 RCRA Renewal Permit.

^b Concentration is the practical quantitation limit (PQL) for as defined in R.61-79.264 Appendix IX.

^c Concentration is the PQL for EPA Method 8240 as defined in SCDHEC (1994). This PQL is the contract-required PQL for GE and WA.

^d Concentrations with WSRC (1987) sources are background concentrations.

^e Concentrations and activities with EPA (1993a) sources are primary drinking water standards.

^f Concentrations with WSRC (1994) sources were groundwater protection standards under the previous permit.

^g Concentrations with EPA (1993b) sources are secondary drinking water standards.

^h The standard used for total alpha-emitting radium is the primary drinking water standard for total radium.

Table A-2. Standards for Met Lab HWMF

Groundwater Protection Standard

261 Appendix VIII / 264 Appendix IX Hazardous Constituents

<u>Constituent</u>	<u>Standard</u>	<u>Unit</u>	<u>Source</u>
<u>Inorganics</u>			
Arsenic	50	µg/L	SCDHEC (1995) ^a
Barium	2,000	µg/L	SCDHEC (1995)
Chromium	100	µg/L	SCDHEC (1995)
Lead	15	µg/L	SCDHEC (1995)
Mercury	2	µg/L	SCDHEC (1995)
Nickel	100	µg/L	SCDHEC (1995)
Silver	50	µg/L	SCDHEC (1995)
<u>Organics</u>			
Acetone	10 ^b	µg/L	SCDHEC (1995)
Carbon tetrachloride	5	µg/L	SCDHEC (1995)
Chloroethene	2	µg/L	SCDHEC (1995)
Chloroform	100	µg/L	SCDHEC (1995)
1,1-Dichloroethane	5 ^b	µg/L	SCDHEC (1995)
1,2-Dichloroethane	5	µg/L	SCDHEC (1995)
1,1-Dichloroethylene	7	µg/L	SCDHEC (1995)
cis-1,2-Dichloroethylene	70	µg/L	SCDHEC (1995)
trans-1,2-Dichloroethylene	100	µg/L	SCDHEC (1995)
2,4-Dichlorophenoxyacetic acid	10 ^c	µg/L	SCDHEC (1995)
Lindane	0.2	µg/L	SCDHEC (1995)
Methyl methacrylate	2 ^b	µg/L	SCDHEC (1995)
Phenol	10 ^d	µg/L	SCDHEC (1995)
Tetrachloroethylene	5	µg/L	SCDHEC (1995)
1,1,1-Trichloroethane	200	µg/L	SCDHEC (1995)
Trichloroethylene	5	µg/L	SCDHEC (1995)

Monitoring Constituents Standard

<u>Constituent</u>	<u>Standard</u>	<u>Unit</u>	<u>Source</u>
<u>Inorganics</u>			
Chloride	4,200	µg/L	WSRC (1987) ^e
Cyanide	40 ^f	µg/L	SCDHEC (1995)
Fluoride	4,000	µg/L	EPA (1993a) ^g
Iron	300	µg/L	EPA (1993b) ^h
Manganese	50	µg/L	EPA (1993b)
Nitrate-nitrite as nitrogen	2,400	µg/L	WSRC (1987)
Selenium	50	µg/L	EPA (1993a)
Sodium	4,600	µg/L	WSRC (1987)
Sulfate	3,000	µg/L	WSRC (1987)
Total organic carbon	10,000 ⁱ	µg/L	SCDHEC (1995)

Total organic halogens 50^j µg/L SCDHEC (1995)
Table A-2. Standards for Met Lab HWMF (continued)

Monitoring Constituents Standard

<u>Constituent</u>	<u>Standard</u>	<u>Unit</u>	<u>Source</u>
Total phosphates (as P)	300	µg/L	WSRC (1987)
Radionuclides			
Gross alpha	15	pCi/L	EPA (1993a)
Nonvolatile beta	50	pCi/L	EPA (1993a)
Radium, total alpha-emitting ^k	5	pCi/L	EPA (1993a)

- ^a Concentrations with SCDHEC (1995) sources are groundwater protection standards in the 1995 RCRA Renewal Permit.
- ^b Concentration is the practical quantitation limit (PQL) as defined in R.61-79.264 Appendix IX.
- ^c Concentration is the PQL for EPA Method 8150 as defined in SCDHEC (1994). This PQL is the contract-required PQL for GE and WA.
- ^d Concentration is the PQL for EPA Method 8270 as listed in SCDHEC (1994). This PQL is the contract-required PQL for GE and WA.
- ^e Concentrations with WSRC (1987) sources are background concentrations.
- ^f Concentration is the PQL as defined in R.61-79.264 Appendix IX.
- ^g Concentrations and activities with EPA (1993a) sources are primary drinking water standards.
- ^h Concentrations with EPA (1993b) sources are secondary drinking water standards.
- ⁱ Concentration is the PQL for EPA Method 9060. This PQL is the contract-required PQL for GE and WA.
- ^j Concentration is the PQL for EPA Method 9020. This PQL is the contract-required PQL for GE and WA.
- ^k The standard used for total alpha-emitting radium is the primary drinking water standard for total radium.

Appendix B
Well Network

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Well Name	Met Lab Well Use	Aquifer Name
MSB 29B	Background Well	Lower Lost Lake Aquifer Zone
MSB 43A	Background Well	Lower Lost Lake Aquifer Zone
AMB 11D	Background Well	M-Area Aquifer Zone
AMB 12D	Background Well	M-Area Aquifer Zone
MSB 29D	Background Well	M-Area Aquifer Zone
MSB 43D	Background Well	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 29C	Background Well	Upper Lost Lake Aquifer Zone
MSB 43B	Background Well	Upper Lost Lake Aquifer Zone
AMB 4B	Plume Definition Well	Lower Lost Lake Aquifer Zone
AMB 7B	Plume Definition Well	Lower Lost Lake Aquifer Zone
AMB 7	Plume Definition Well	M-Area Aquifer Zone
AMB 14D	Plume Definition Well	M-Area Aquifer Zone
AMB 15D	Plume Definition Well	M-Area Aquifer Zone
AMB 7A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 13AR	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 11B	Plume Definition Well	Upper Lost Lake Aquifer Zone
AMB 10B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
AMB 4D	Point of Compliance Well	M-Area Aquifer Zone
AMB 5	Point of Compliance Well	M-Area Aquifer Zone
AMB 6	Point of Compliance Well	M-Area Aquifer Zone
AMB 8D	Point of Compliance Well	M-Area Aquifer Zone
AMB 9D	Point of Compliance Well	M-Area Aquifer Zone
AMB 10D	Point of Compliance Well	M-Area Aquifer Zone
AMB 16D	Point of Compliance Well	M-Area Aquifer Zone
AMB 4A	Point of Compliance Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 10A	Point of Compliance Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 17A	Point of Compliance Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 18A	Point of Compliance Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 18C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
AMB 19C	Point of Compliance Well	Upper Lost Lake Aquifer Zone

Well Name	M Area Well Use	Aquifer Name
MSB 29B	Background Well	Lower Lost Lake Aquifer Zone
MSB 43A	Background Well	Lower Lost Lake Aquifer Zone
MSB 29D	Background Well	M-Area Aquifer Zone
MSB 43D	Background Well	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 29C	Background Well	Upper Lost Lake Aquifer Zone
MSB 43B	Background Well	Upper Lost Lake Aquifer Zone
MSB 21TA	Piezometer Well	Crouch Branch Aquifer Unit
MSB 30A	Piezometer Well	Crouch Branch Aquifer Unit
MSB 31A	Piezometer Well	Crouch Branch Aquifer Unit
MSB 33TA	Piezometer Well	Crouch Branch Aquifer Unit
MSB 37TA	Piezometer Well	Crouch Branch Aquifer Unit
MSB 38TA	Piezometer Well	Crouch Branch Aquifer Unit
MSB 40TA	Piezometer Well	Crouch Branch Aquifer Unit
SRW 12A	Piezometer Well	Crouch Branch Confining Unit
AC 2A	Piezometer Well	Lower Lost Lake Aquifer Zone
MSB 11A	Piezometer Well	Lower Lost Lake Aquifer Zone
MSB 12A	Piezometer Well	Lower Lost Lake Aquifer Zone
MSB 41C	Piezometer Well	Lower Lost Lake Aquifer Zone
MSB 50B	Piezometer Well	Lower Lost Lake Aquifer Zone
SRW 3BB	Piezometer Well	Lower Lost Lake Aquifer Zone
SRW 9A	Piezometer Well	Lower Lost Lake Aquifer Zone
SRW 11BB	Piezometer Well	Lower Lost Lake Aquifer Zone
SRW 13A	Piezometer Well	Lower Lost Lake Aquifer Zone
AC 2B	Piezometer Well	M-Area Aquifer Zone
AC 3B	Piezometer Well	M-Area Aquifer Zone
ACB 2A	Piezometer Well	M-Area Aquifer Zone
ASB 9	Piezometer Well	M-Area Aquifer Zone
MCB 2	Piezometer Well	M-Area Aquifer Zone
MCB 9D	Piezometer Well	M-Area Aquifer Zone
MSB 25	Piezometer Well	M-Area Aquifer Zone
MSB 35D	Piezometer Well	M-Area Aquifer Zone
MSB 37D	Piezometer Well	M-Area Aquifer Zone
MSB 40D	Piezometer Well	M-Area Aquifer Zone
MSB 41D	Piezometer Well	M-Area Aquifer Zone
MSB 45C	Piezometer Well	M-Area Aquifer Zone
MSB 51D	Piezometer Well	M-Area Aquifer Zone
MSB 52D	Piezometer Well	M-Area Aquifer Zone
MSB 53D	Piezometer Well	M-Area Aquifer Zone
MSB 56D	Piezometer Well	M-Area Aquifer Zone
MSB 77D	Piezometer Well	M-Area Aquifer Zone
MSB 89C	Piezometer Well	M-Area Aquifer Zone

Well Name	M Area Well Use	Aquifer Name
SRW 3A	Piezometer Well	M-Area Aquifer Zone
SRW 6	Piezometer Well	M-Area Aquifer Zone
SRW 9	Piezometer Well	M-Area Aquifer Zone
SRW 12C	Piezometer Well	M-Area Aquifer Zone
SRW 13C	Piezometer Well	M-Area Aquifer Zone
SRW 15C	Piezometer Well	M-Area Aquifer Zone
SRW 16C	Piezometer Well	M-Area Aquifer Zone
SRW 17DR	Piezometer Well	M-Area Aquifer Zone
ARP 1A	Piezometer Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
ARP 2	Piezometer Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
ARP 3	Piezometer Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
ARP 4	Piezometer Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
ARP 5D	Piezometer Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
MSB 42A	Piezometer Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 44A	Piezometer Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
SRW 15A	Piezometer Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AC 1A	Piezometer Well	Upper Lost Lake Aquifer Zone
MSB 24A	Piezometer Well	Upper Lost Lake Aquifer Zone
MSB 46B	Piezometer Well	Upper Lost Lake Aquifer Zone
MSB 50D	Piezometer Well	Upper Lost Lake Aquifer Zone
SRW 13B	Piezometer Well	Upper Lost Lake Aquifer Zone
SRW 15B	Piezometer Well	Upper Lost Lake Aquifer Zone
ASB 6TA	Plume Definition Well	Crouch Branch Aquifer Unit
ASB 8TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 12TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 23TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 27TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 29TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 34TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 35TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 36TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 37A	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 39TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 41TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 42TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 43TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 47TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 48TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 54TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 55TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 66TA	Plume Definition Well	Crouch Branch Aquifer Unit

Well Name	M Area Well Use	Aquifer Name
MSB 69TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 82TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 83TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 85TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 17B	Plume Definition Well	Green Clay Confining Zone
ABP 3C	Plume Definition Well	Lower Lost Lake Aquifer Zone
AMB 4B	Plume Definition Well	Lower Lost Lake Aquifer Zone
AMB 7B	Plume Definition Well	Lower Lost Lake Aquifer Zone
AMB 10B	Plume Definition Well	Lower Lost Lake Aquifer Zone
ASB 2CR	Plume Definition Well	Lower Lost Lake Aquifer Zone
ASB 3CR	Plume Definition Well	Lower Lost Lake Aquifer Zone
ASB 5C	Plume Definition Well	Lower Lost Lake Aquifer Zone
ASB 9B	Plume Definition Well	Lower Lost Lake Aquifer Zone
ASB 10CR	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 9A	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 10B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 15AA	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 17BB	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 19B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 21B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 25A	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 26B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 30B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 31B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 32B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 33B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 34A	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 36B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 37C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 38C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 39B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 40B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 42B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 45A	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 47B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 48B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 49B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 51B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 52B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 53B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 54C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 55C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 64B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 66C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 68C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 69C	Plume Definition Well	Lower Lost Lake Aquifer Zone

Well Name	M Area Well Use	Aquifer Name
MSB 71B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 72B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 73B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 74B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 75B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 77B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 79B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 81B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 82C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 83C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 84C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 85C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 86C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 88C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 89B	Plume Definition Well	Lower Lost Lake Aquifer Zone
SRW 16A	Plume Definition Well	Lower Lost Lake Aquifer Zone
ABP 2A	Plume Definition Well	M-Area Aquifer Zone
AMB 4D	Plume Definition Well	M-Area Aquifer Zone
AMB 7	Plume Definition Well	M-Area Aquifer Zone
AMB 9D	Plume Definition Well	M-Area Aquifer Zone
AMB 12D	Plume Definition Well	M-Area Aquifer Zone
AMB 15D	Plume Definition Well	M-Area Aquifer Zone
AMB 16D	Plume Definition Well	M-Area Aquifer Zone
AOB 1	Plume Definition Well	M-Area Aquifer Zone
AOB 2	Plume Definition Well	M-Area Aquifer Zone
ASB 2AR	Plume Definition Well	M-Area Aquifer Zone
ASB 3AR	Plume Definition Well	M-Area Aquifer Zone
ASB 4	Plume Definition Well	M-Area Aquifer Zone
ASB 5AR	Plume Definition Well	M-Area Aquifer Zone
ASB 6A	Plume Definition Well	M-Area Aquifer Zone
ASB 8	Plume Definition Well	M-Area Aquifer Zone
MSB 9C	Plume Definition Well	M-Area Aquifer Zone
MSB 11F	Plume Definition Well	M-Area Aquifer Zone
MSB 15D	Plume Definition Well	M-Area Aquifer Zone
MSB 16C	Plume Definition Well	M-Area Aquifer Zone
MSB 18B	Plume Definition Well	M-Area Aquifer Zone
MSB 19C	Plume Definition Well	M-Area Aquifer Zone
MSB 20C	Plume Definition Well	M-Area Aquifer Zone
MSB 21C	Plume Definition Well	M-Area Aquifer Zone
MSB 24	Plume Definition Well	M-Area Aquifer Zone
MSB 26	Plume Definition Well	M-Area Aquifer Zone
MSB 27	Plume Definition Well	M-Area Aquifer Zone
MSB 28	Plume Definition Well	M-Area Aquifer Zone
MSB 31C	Plume Definition Well	M-Area Aquifer Zone
MSB 32	Plume Definition Well	M-Area Aquifer Zone

Well Name	M Area Well Use	Aquifer Name
MSB 33	Plume Definition Well	M-Area Aquifer Zone
MSB 34C	Plume Definition Well	M-Area Aquifer Zone
MSB 36D	Plume Definition Well	M-Area Aquifer Zone
MSB 39D	Plume Definition Well	M-Area Aquifer Zone
MSB 42D	Plume Definition Well	M-Area Aquifer Zone
MSB 46C	Plume Definition Well	M-Area Aquifer Zone
MSB 47D	Plume Definition Well	M-Area Aquifer Zone
MSB 48D	Plume Definition Well	M-Area Aquifer Zone
MSB 49D	Plume Definition Well	M-Area Aquifer Zone
MSB 65D	Plume Definition Well	M-Area Aquifer Zone
MSB 66D	Plume Definition Well	M-Area Aquifer Zone
MSB 67D	Plume Definition Well	M-Area Aquifer Zone
MSB 69D	Plume Definition Well	M-Area Aquifer Zone
MSB 70D	Plume Definition Well	M-Area Aquifer Zone
MSB 74D	Plume Definition Well	M-Area Aquifer Zone
MSB 82D	Plume Definition Well	M-Area Aquifer Zone
MSB 85D	Plume Definition Well	M-Area Aquifer Zone
MSB 87C	Plume Definition Well	M-Area Aquifer Zone
MSB 88B	Plume Definition Well	M-Area Aquifer Zone
SRW 16B	Plume Definition Well	M-Area Aquifer Zone
SRW 18	Plume Definition Well	M-Area Aquifer Zone
ASB 1A	Plume Definition Well	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 54D	Plume Definition Well	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 55D	Plume Definition Well	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 78DR	Plume Definition Well	M-Area Aquifer Zone / Green Clay Confining Zone
AMB 4A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 7A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 10A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 13AR	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 17A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 18A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
ASB 6AA	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
ASB 8B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 10A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 19A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 29A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 30AA	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 33A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 35A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 36A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 37B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 40A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 41B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 46A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 48A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 49A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit

Well Name	M Area Well Use	Aquifer Name
MSB 54B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 55B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 66B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 68B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 69B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 82A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 83B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 84A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 85B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
SRW 2A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
SRW 14A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
SRW 19	Plume Definition Well	Perched Unit Above M-Area Aquifer Zone
MSB 82B	Plume Definition Well	Upper Clay Confining Zone - Crouch Branch Confining Unit
ABP 8C	Plume Definition Well	Upper Lost Lake Aquifer Zone
AC 3A	Plume Definition Well	Upper Lost Lake Aquifer Zone
AMB 18C	Plume Definition Well	Upper Lost Lake Aquifer Zone
AMB 19C	Plume Definition Well	Upper Lost Lake Aquifer Zone
ASB 6C	Plume Definition Well	Upper Lost Lake Aquifer Zone
ASB 8C	Plume Definition Well	Upper Lost Lake Aquifer Zone
ASB 9C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MCB 5C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MCB 6C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MCB 7C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 11C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 12B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 15A	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 16A	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 18A	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 20A	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 23B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 27B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 28A	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 30CC	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 31CC	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 32C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 33C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 34B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 35B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 36C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 39C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 40C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 42C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 45B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 47C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 48C	Plume Definition Well	Upper Lost Lake Aquifer Zone

Well Name	M Area Well Use	Aquifer Name
MSB 53C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 55HC	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 70C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 74C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 75C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 76C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 77C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 79C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 87B	Plume Definition Well	Upper Lost Lake Aquifer Zone
SRW 2B	Plume Definition Well	Upper Lost Lake Aquifer Zone
SRW 14B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 1B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 2B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 3B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 4B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 5B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 6B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 7B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 8B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 13A	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 62B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 63B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 1D	Point of Compliance Well	M-Area Aquifer Zone
MSB 2D	Point of Compliance Well	M-Area Aquifer Zone
MSB 3D	Point of Compliance Well	M-Area Aquifer Zone
MSB 4D	Point of Compliance Well	M-Area Aquifer Zone
MSB 5A	Point of Compliance Well	M-Area Aquifer Zone
MSB 6A	Point of Compliance Well	M-Area Aquifer Zone
MSB 7A	Point of Compliance Well	M-Area Aquifer Zone
MSB 8A	Point of Compliance Well	M-Area Aquifer Zone
MSB 13D	Point of Compliance Well	M-Area Aquifer Zone
MSB 59D	Point of Compliance Well	M-Area Aquifer Zone
MSB 62D	Point of Compliance Well	M-Area Aquifer Zone
MSB 63D	Point of Compliance Well	M-Area Aquifer Zone
MSB 64D	Point of Compliance Well	M-Area Aquifer Zone
MSB 39A	Point of Compliance Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 1C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 2C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 3C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 4C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 5C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 6C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 7C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 8C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 13CC	Point of Compliance Well	Upper Lost Lake Aquifer Zone

Well Name	M Area Well Use	Aquifer Name
MSB 62C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 63C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 64C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
SSR 10	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 1	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 2	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 3	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 4	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 5	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 6	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 7	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 8	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 9	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 11	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 12	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
RWM 8	Recovery Well	Green Clay Confining Zone / Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
RWM 13B	Recovery Well	Lower Lost Lake Aquifer Zone
RWM 14B	Recovery Well	Lower Lost Lake Aquifer Zone
RWM 15B	Recovery Well	Lower Lost Lake Aquifer Zone
RWM 9	Recovery Well	M-Area Aquifer Zone
RWM 10	Recovery Well	M-Area Aquifer Zone
RWM 4	Recovery Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
RWM 5	Recovery Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
RWM 6	Recovery Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
RWM 7	Recovery Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
RWM 1	Recovery Well	Unknown
RWM 2	Recovery Well	Unknown
RWM 3	Recovery Well	Unknown
RWM 11	Recovery Well	Unknown
RWM 13C	Recovery Well	Upper Lost Lake Aquifer Zone
RWM 14C	Recovery Well	Upper Lost Lake Aquifer Zone
RWM 12	Recovery Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone

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Appendix C

Figures

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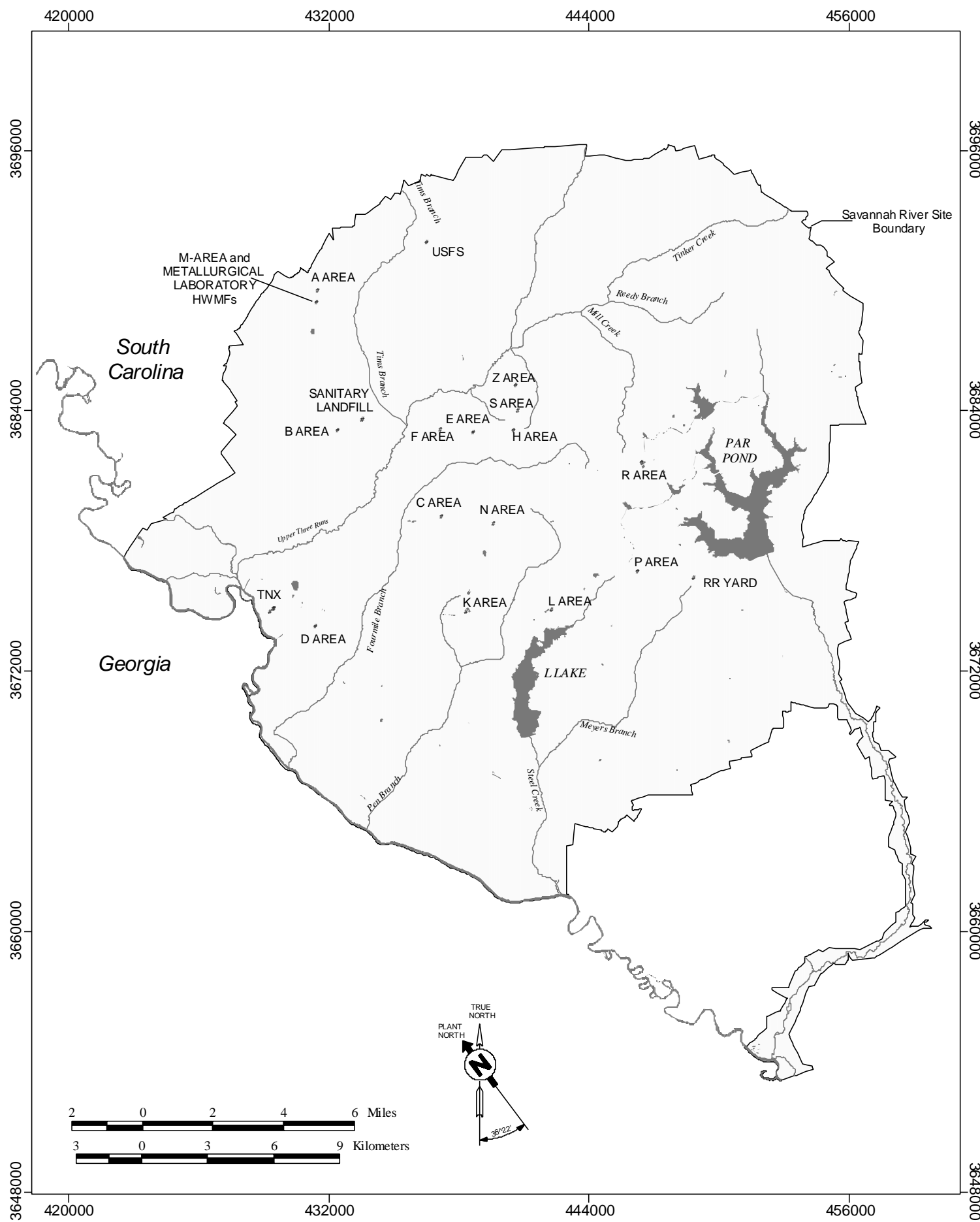


Figure 1. Location of the M-Area and Metallurgical Laboratory HWMFs at the Savannah River Site

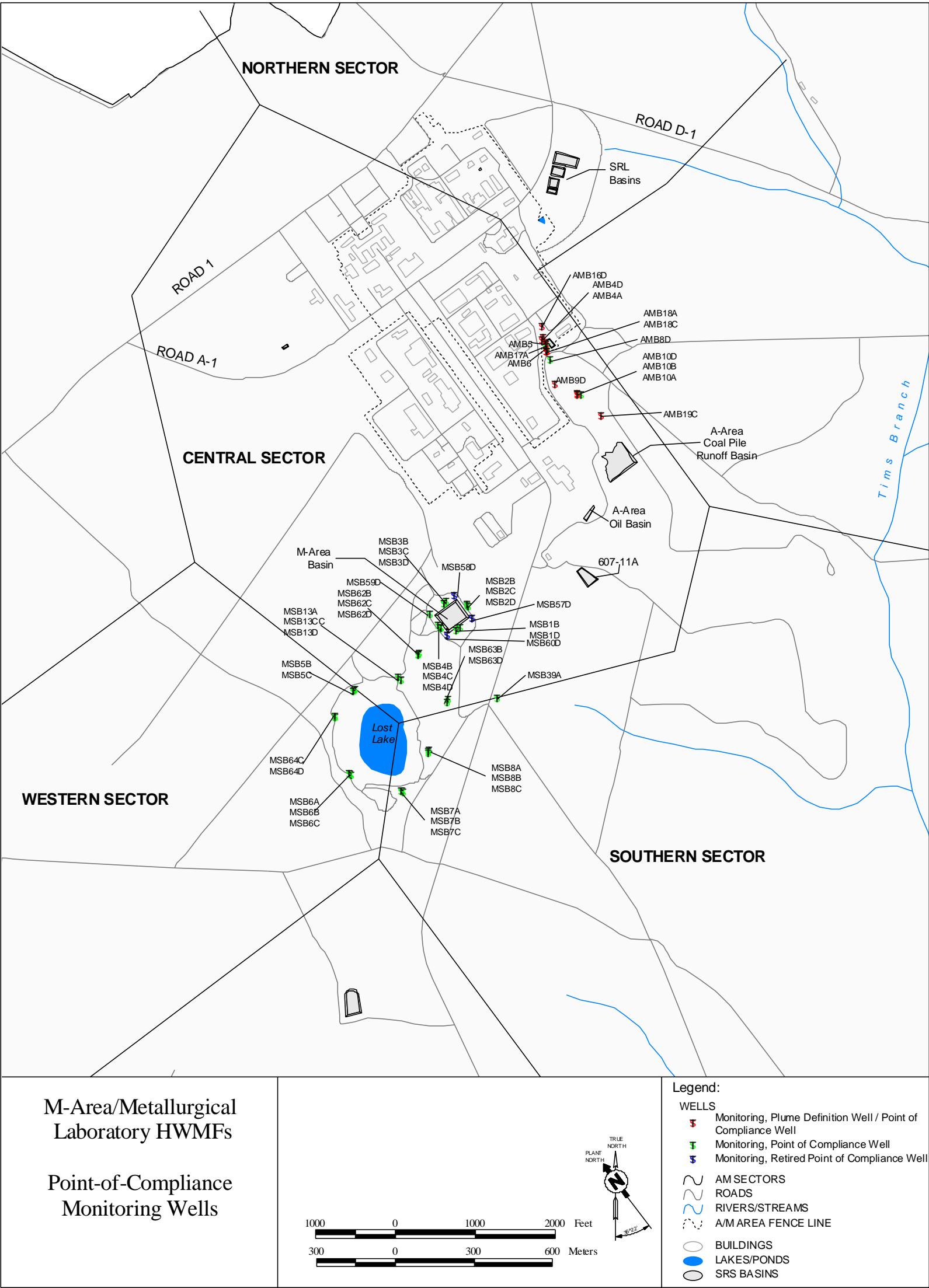


Figure 2 M-Area/Metallurgical Laboratory HWMFs Point-of-Compliance Moniroting Wells



Figure 3. M-Are/Metallurgical Laboratory HWMFs M-Area Sectors

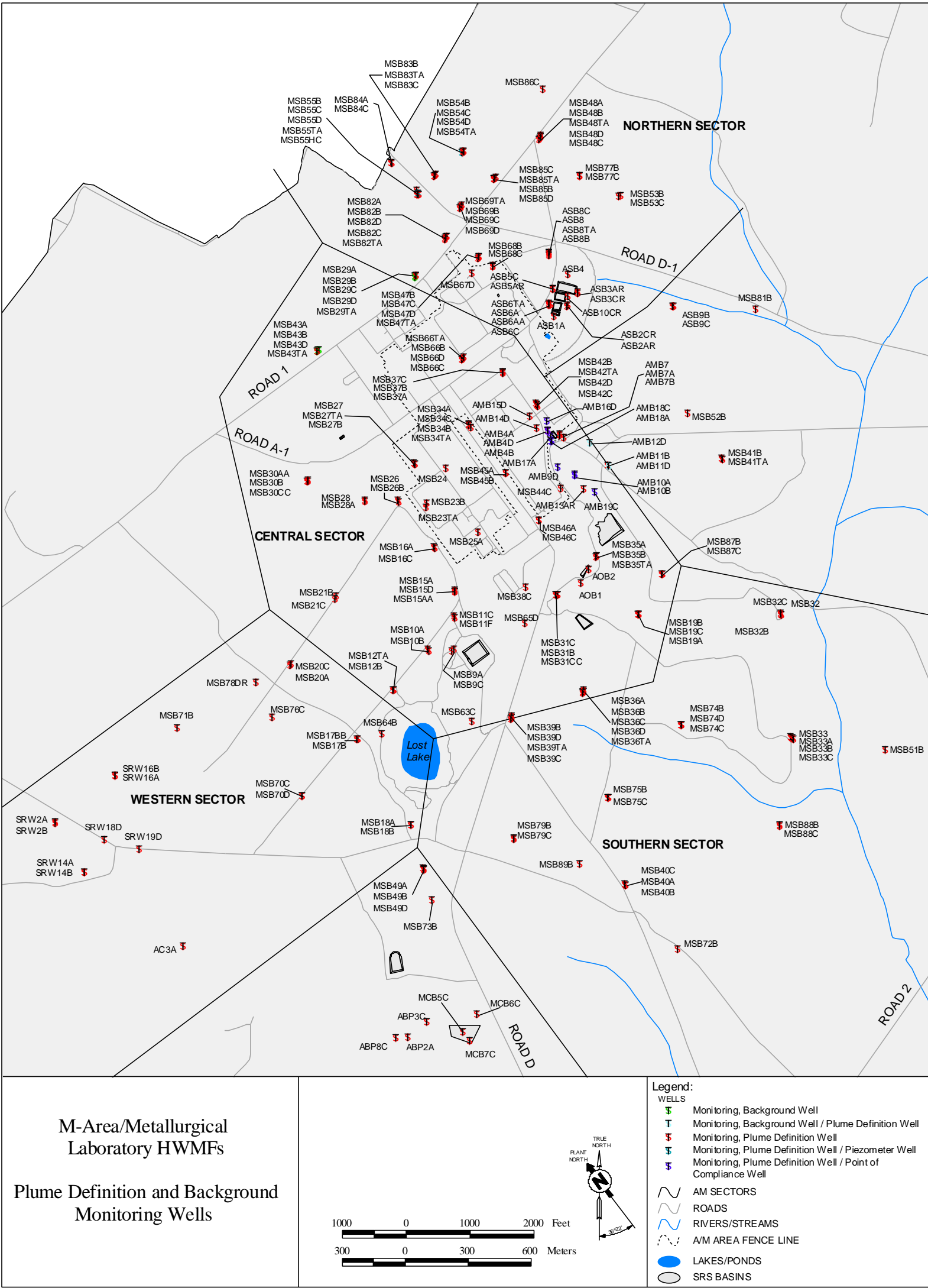


Figure 4. M-Area/Metallurgical Laboratory HWMFs Plume Definition and Background Monitoring Wells

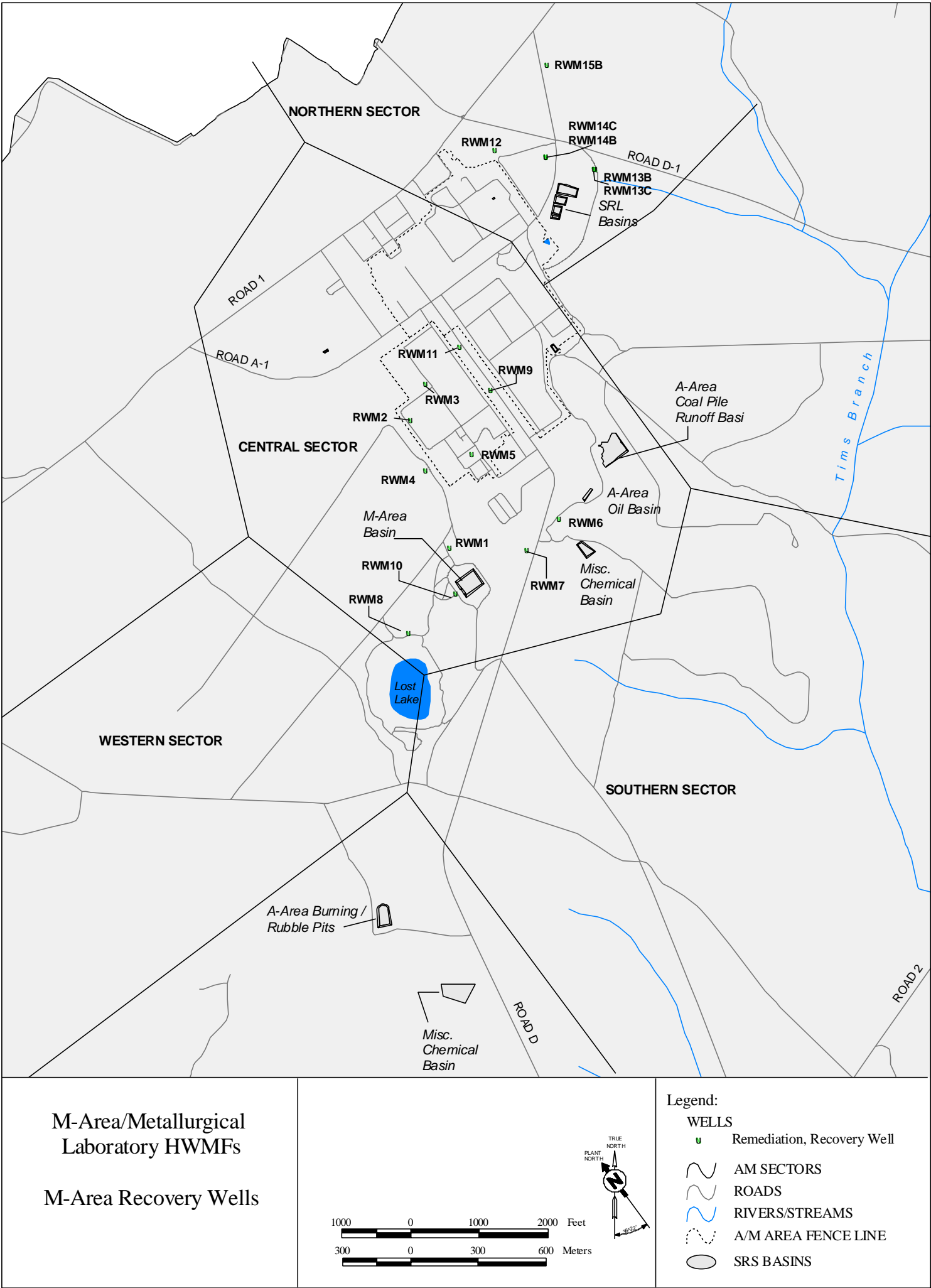


Figure 5. M-Area/Metallurgical Laboratory HWMFs M-Area Recovery Wells

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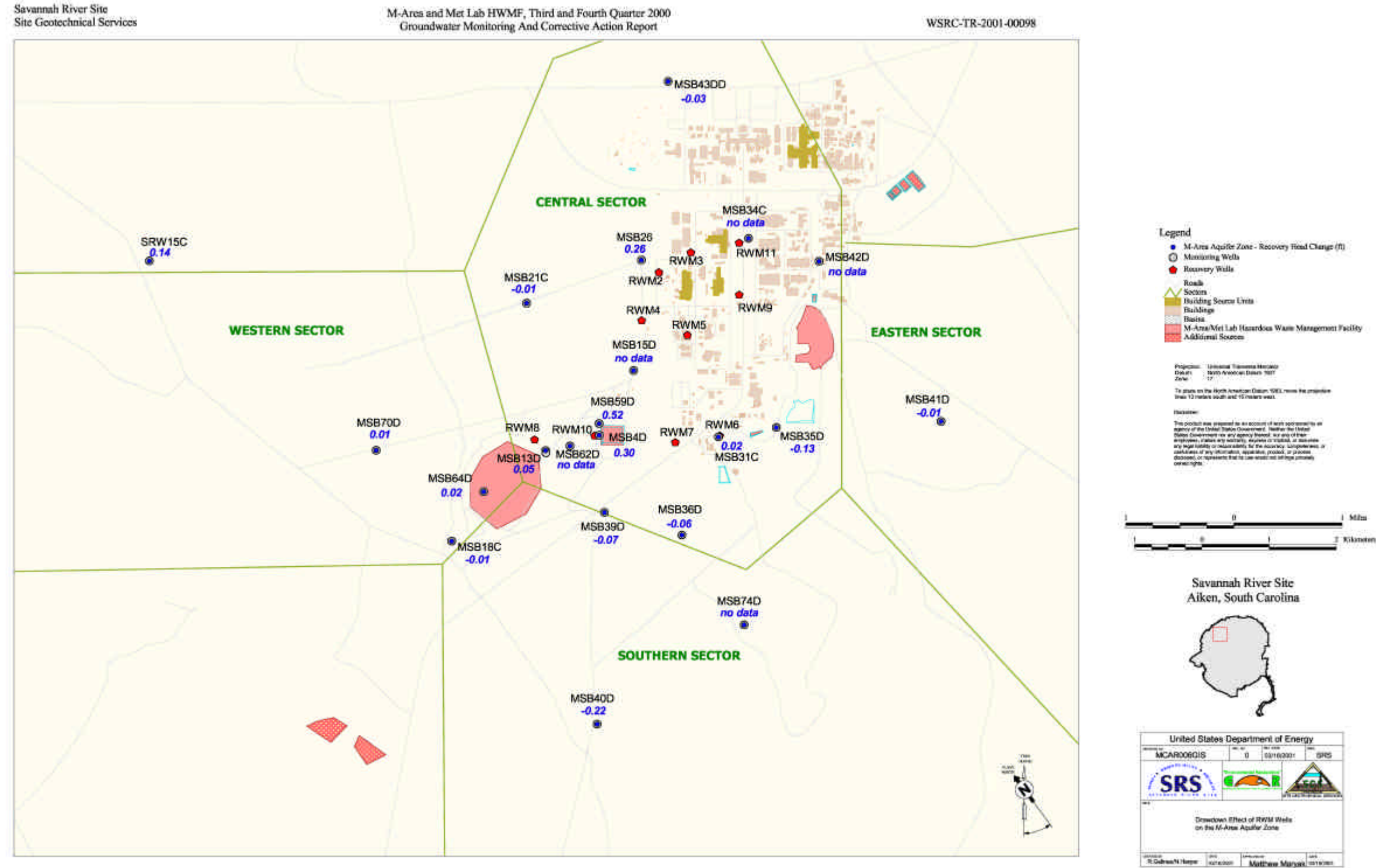


Figure 6: Drawdown Effect of RWM Wells on the M-Area Aquifer Zone

Savannah River Site
Site Geotechnical Services

M-Area and Met Lab HWMF Third and Fourth Quarter 2000
Groundwater Monitoring And Corrective Action Report

WSRC-TR-2001-00098

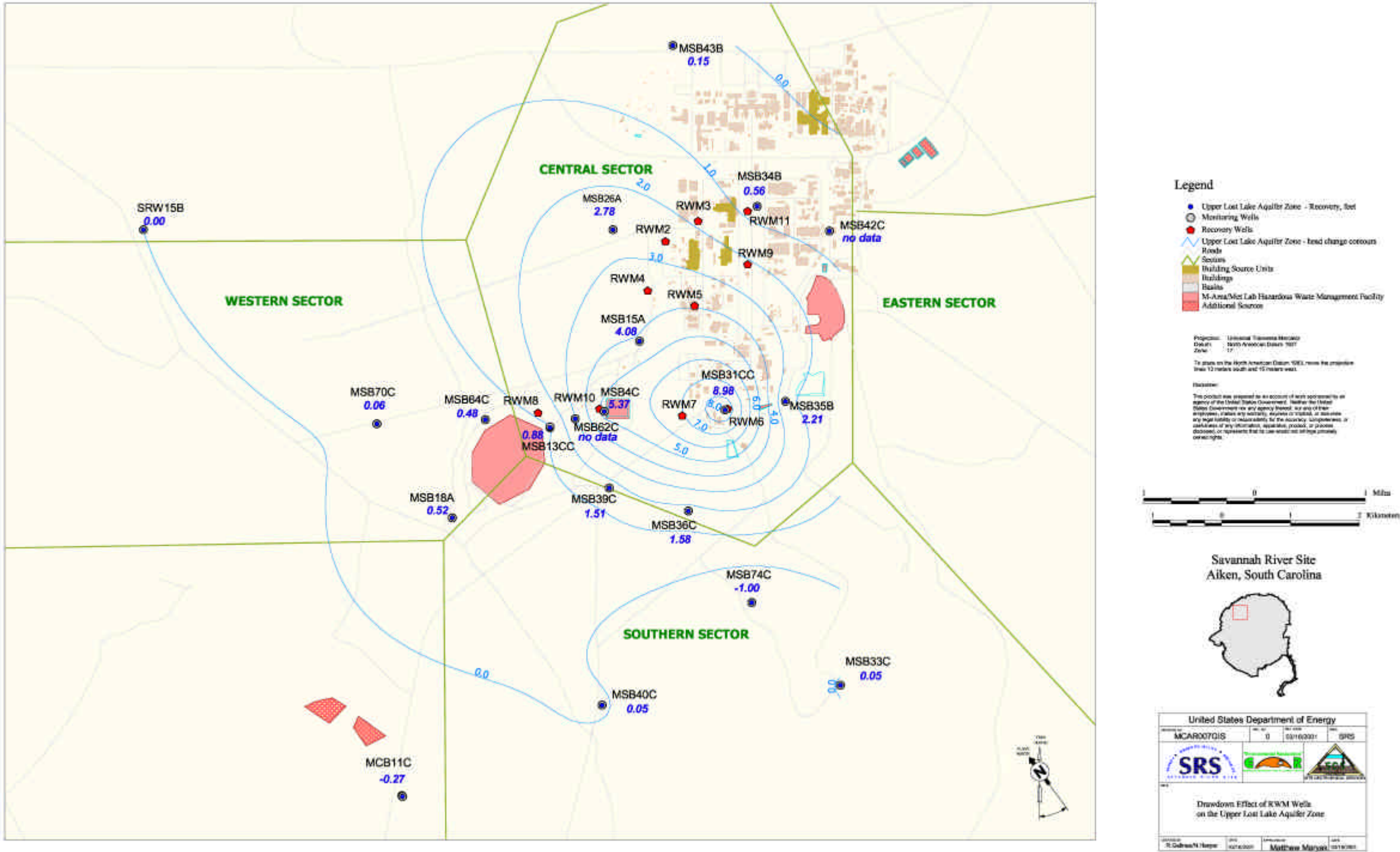


Figure 7. Drawdown Effect of RWM Wells on the Upper Lost Lake Aquifer Zone

Savannah River Site
Site Geotechnical Services

M-Area and Met Lab HWMF, Third and Fourth Quarter 2000
Groundwater Monitoring And Corrective Action Report

WSRC-TR-2001-00098

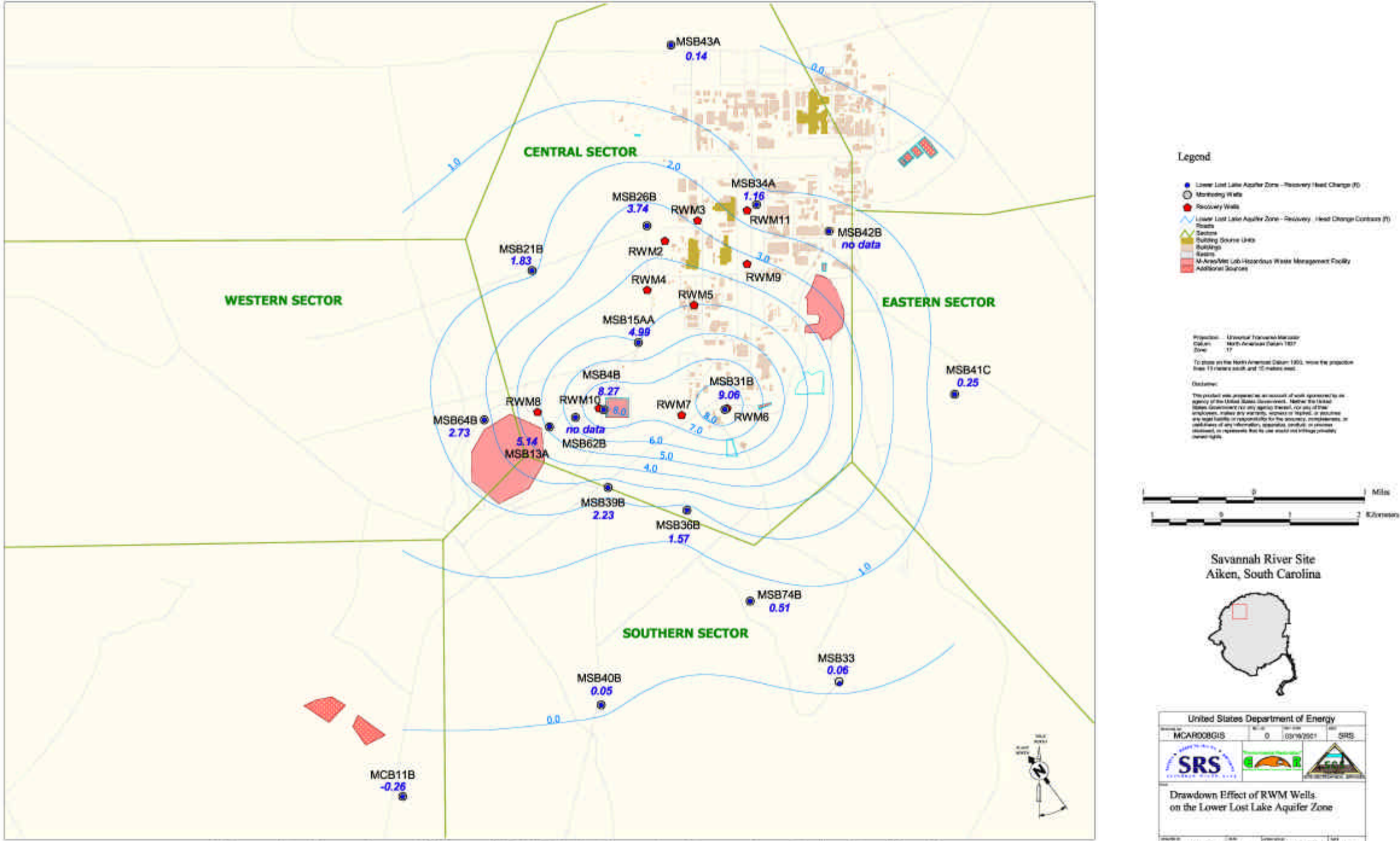


Figure 8: Drawdown Effect of RWM Wells on the Lower Lost Lake Aquifer Zone

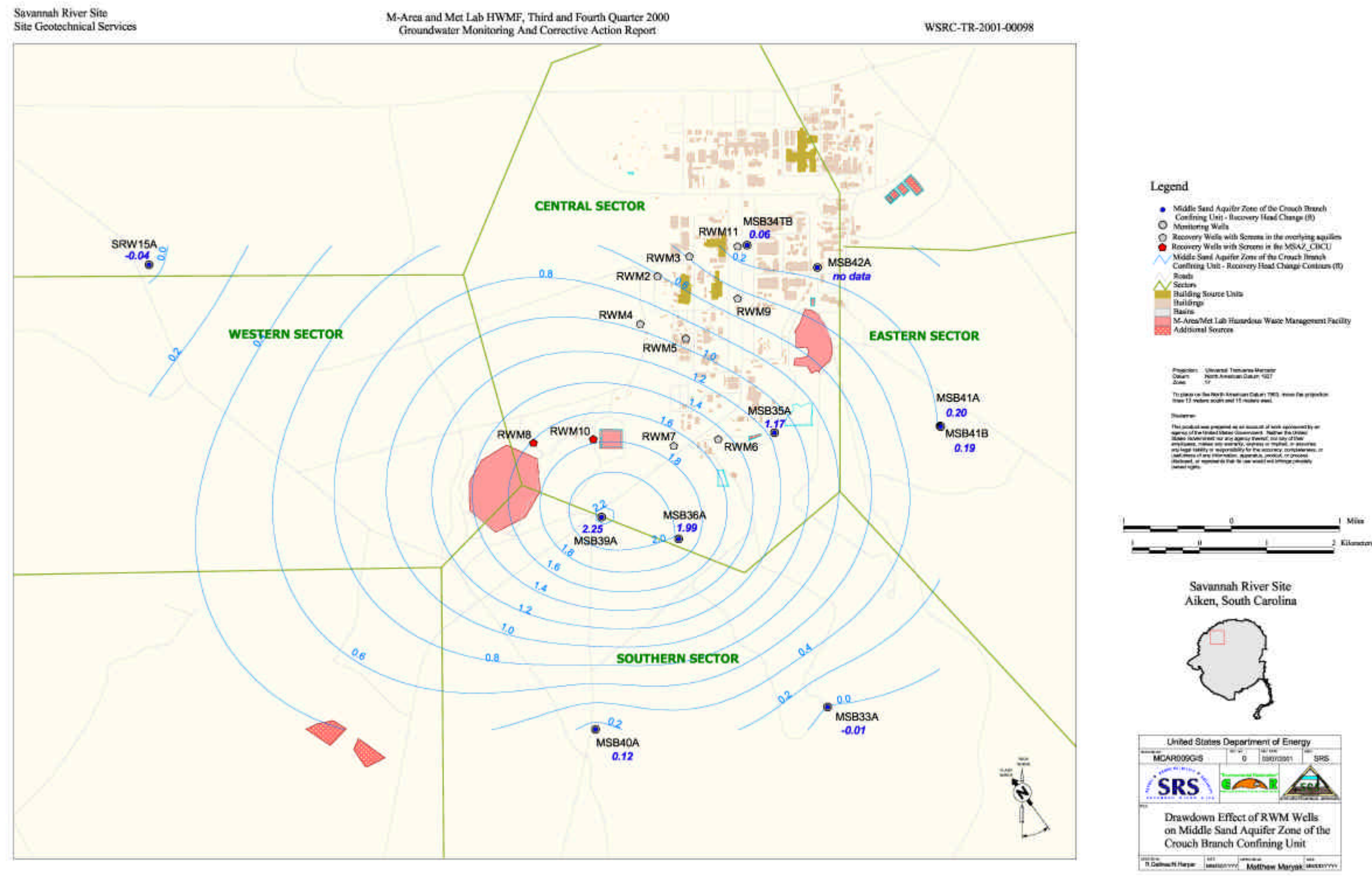


Figure 9: Drawdown Effect of RWM Wells on Middle Sand Aquifer Zone of the Crouch Branch Confining Unit

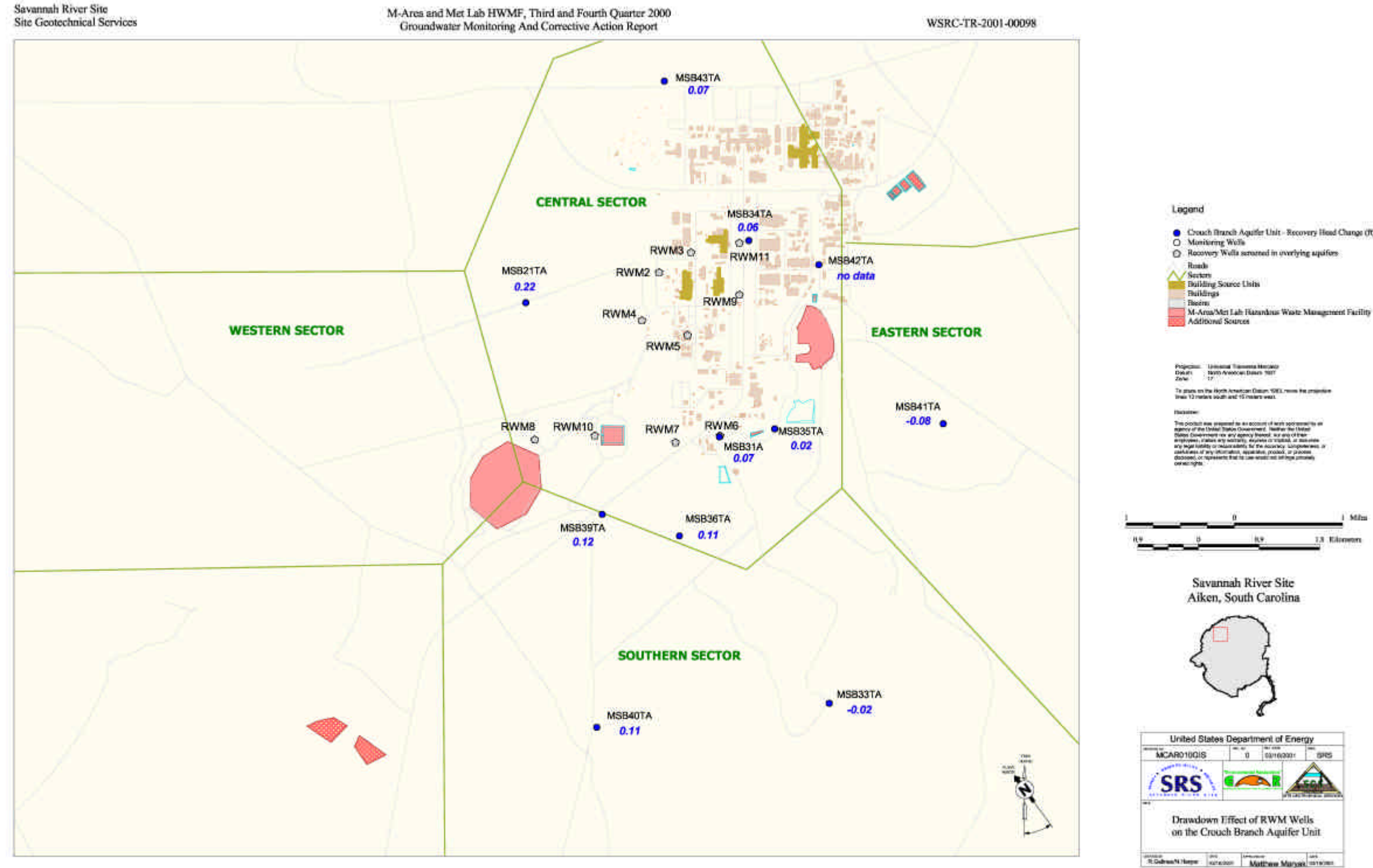


Figure 10. Drawdown Effect of RWM Wells on the Crouch Branch Aquifer Unit

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Appendix D

Groundwater Monitoring Results Tables

Key to Reading the Tables

The following abbreviations may appear in the data tables:

Constituents

1,2,3,4,6,7,8-HPCDD	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin
1,2,3,4,6,7,8-HPCDF	1,2,3,4,6,7,8-heptachlorodibenzo-p-furan
1,2,3,4,7,8-HXCDD	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin
1,2,3,4,7,8-HXCDF	1,2,3,4,7,8-hexachlorodibenzo-p-furan
Lindane	gamma-benzene hexachloride
PCB	polychlorinated biphenyl
1,2,3,7,8-PCDD	1,2,3,7,8-pentachlorodibenzo-p-dioxin
1,2,3,7,8-PCDF	1,2,3,7,8-pentachlorodibenzo-p-furan
Sp. conductance	specific conductance
TCDD	tetrachlorodibenzo-p-dioxin
TCDF	tetrachlorodibenzo-p-furan

Laboratories

CN	Clemson Technical Center, Inc.
EM	Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) Laboratory
GE and GP	General Engineering Laboratories, Inc.
SC	Savannah River Technology Center
SP	Spencer Testing Services, Inc.
TM	Thermo NUtech
WA and WS	Recra LabNet Philadelphia.

Nomenclature

AZ	-	Aquifer Zone
CBAU	CBA	Crouch Branch Aquifer Unit (previously Black Creek)
CBCU	CBC	Crouch Branch Confining Unit
GAU	GAU	Gordon Aquifer Unit
GCCZ	GC	Green Clay Confining Zone
LAZ_UTRA	LAZ	Lower Aquifer Zone-Upper Three Runs Aquifer Unit
LLAZ	LLAZ	Lost Lake Aquifer Zone
LLLAZ	LL	Lower Lost Lake Aquifer Zone (previously Lower Congaree)
MAAZ	M	M-Area Aquifer Zone (previously Water Table)
MSAZ_CBCU	MCBC	Middle Sand Aquifer Zone-CBCU (previously Ellenton Sand)
PZ	PZ	Perched Zone
UAZ_UTRA	UAZ	Upper Aquifer Zone-Upper Three Runs Aquifer Unit
ULLAZ	UL	Upper Lost Lake Aquifer Zone (previously Upper Congaree)
UNKNOWN	UNK	Unknown

Sampling Codes

B	blank sample was collected
C	well was pumping continuously
D	well was dry
E	equipment blank was collected
I	well went dry during sampling; insufficient water to collect all samples
L	well went dry before sampling began; only depth to water can be determined
N	well was not stabilized before sampling began
P	inaccessibility or mechanical failure prevented sample collection and field analysis of the water
S	no water in standpipe
T	samples were collected, but some samples were not sent to the laboratory due to high turbidity
W	unable to sample well because of stabilization or sampling equipment failure; water-level measurements were obtained
X	well went dry during purging; samples collected after well recovered

Sampling Methods

B	sample collected using an open-bucket bailer
O	sample collected by method other than bailer or pump
P	sample collected using a bladder pump
S	sample collected using a single-speed centrifugal downhole pump
V	sample collected using a variable-speed pump

Units

mg/L	milligrams per liter
msl	mean sea level
MSL	million structures per liter
NTU	nephelometric turbidity unit
pCi/L	picocuries per liter
pCi/mL	picocuries per milliliter
pH	pH unit
µg/L	micrograms per liter
µS/cm	microsiemens per centimeter

Other Codes

CLP	EPA Functional Guideline Codes
CS	carbon steel
DF	<i>dilution factor</i> column in data tables
E	exponential notation (e.g., $1.1\text{E}-09 = 1.1 \times 10^{-9} = 0.0000000011$)
STORET	EPA STORET result qualifiers
Filt.	Data results after application of the Data Usability filter
GWPS	groundwater protection standard
MCS	monitoring constituents standard
Mod	<i>modifier</i> column in data tables
NDD	<i>"not decision data"</i>
PDWS	primary drinking water standard
PVC	polyvinyl chloride
ST	<i>exceeded the GWPS or MCS</i> column in data tables
TOC	top of casing
<EQL	less than the sample-specific estimated quantitation limit

Results Below Detection

For radiological analyses, the analytical result field contains the result recorded on the analytical instrument and reported by the laboratory, even if it is negative. For nonradiological analyses, if the analyte is not detected, the sample-specific estimated quantitation limit (EQL) is entered into the result field and is reported with a less than [<] sign. The EQL is defined as the lowest concentration that can be achieved reliably within specified limits of precision and accuracy during routine laboratory operating conditions. The sample-specific EQL is modified for sample concentration or dilution or unusual aliquot size that affects analytical sensitivity.

Uncertainty and Data Usability

In April 1998, SCDHEC accepted guidance proposed by SRS to apply a method for minimizing uncertainty in compliance decisions potentially affecting long-term monitoring or remediation (letter, Taylor to Cook; April 21, 1998). The method is applied by processing or "filtering" the data, using the EPA Functional Guideline Codes applied by the laboratories to qualify the analytical results. By removing all data with a result qualifier of "L", "R", "U", and "J" from consideration, groundwater data users can ensure that only quantified numerical results are applied to the decision process. The output of the filtering process populates the "Filt" column as follows:

- 1) "Null" or "blank" – Data not remarked. The analytical result is acceptable for use as reported, and the result is not greater than an associated concentration limit for the analyte. If a concentration limit exists for the analyte, and the result is greater than the concentration limit, then the "Filt." Column will contain the applicable limit, and the "greater than" symbol. For example, in the case of trichloroethylene, ">5" would indicate the result exceeded a concentration limit of 5 ug/L.

Rationale: The best result would be one without qualifiers, so the preferred choice would be the maximum result that did not have any qualifiers.

2) "J", "L", "N", "NJ", or "JL" – "J" identifies that the analyte was positively identified; the associated numerical value is an estimated concentration of the analyte in the sample. "L" Indicates the sample result is off scale high. "JL" Indicates an estimated quantity of a sample that is off scale high. "N" is used for all TIC (tentatively identified compounds) and indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification. "NJ" means the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Rationale: an estimate can still provide useful information. Although there may be a range of uncertainty around the actual value, the value itself may still grossly exceed a regulatory standard. However, a estimated value is less certain than an unqualified result. Therefore, this would be labeled as "NDD" (not decision data).

3) "U" - material analyzed for, but not detected. The analyte concentration is less than the sample specific Estimated Quantitation Limit and labeled "<EQL".

Rationale: a result above the detection limit would be chosen before a result below detection so that the process is not biased toward false negatives.

4) "UJ" - result is not above the reported sample quantitation limit, but the reported quantitation limit itself is approximate, and may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Rationale: the additional qualifiers make this result less reliable for use than the "U" without qualifiers. These results would be labeled "<EQL".

5) "Rejected" – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Rationale: the only value in providing this result in the report is to indicate that the lab attempted to analyze the sample. If there are any other results available, the result with the "R" qualifier should not be reported. If it is reported, it is definitely "NDD" (not decision data).

Holding Times

Standard analytical methods include a limit, called holding time, on the maximum elapsed time between sample collection and extraction or analysis by the laboratory. In the data tables, the result qualifier Q in the "EPA" column indicates that holding time was exceeded. Analyses performed beyond holding times may not yield valid results.

The South Carolina Department of Health and Environmental Control (SCDHEC) allows only 15 minutes to elapse between sampling and analysis for pH. Thus, only field pH measurements can meet the holding time criterion; laboratory pH analyses always will exceed it.

The laboratory procedure used for the determination of specific conductance allows one day to elapse between sampling and analysis. Thus, laboratory specific conductance measurements may exceed the holding time criterion.

Data Qualification

The contract laboratories submit sample- or batch-specific quality assurance/quality control information either at the same time as analytical results or in a quarterly summary. Properly defined and used, data qualifiers can be a key component in assessing data usability. The EPA Functional Guideline Codes used by the analytical laboratories are shown in the CLP result

qualifier column are defined below. These modifiers appear in the data tables under the column *CLP*. EPA STORET codes appear in the data tables under the column labeled *EPA*.

“CLP” Qualifiers - EPA Functional Guideline Codes

<i>(Blank)</i>	Data not remarked. The analytical result is acceptable for use as reported.
<i>J</i>	The analyte was positively identified; the associated numerical value is an estimated concentration of the analyte in the sample.
<i>N</i>	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification. Used for all TIC results.
<i>R</i>	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence of absence of the analyte cannot be verified. Assignment of <i>R</i> requires approval by the appropriate WSRC data validation coordinator.
<i>U</i>	Material analyzed for but not detected. Analytical result reported is less than the sample quantitation limit.
<i>NJ</i>	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Note: These are only some of the qualifiers present in the database. All modifiers associated with the data are published in the result tables of EPD/EMS' quarterly groundwater monitoring reports, the official repository of the data.

“EPA” Qualifiers – EPA STORET Codes

<i>(Blank)</i>	Data not remarked
<i>C</i>	The result is calculated.
<i>I</i>	The result is less than the ssEQL, but equal to or greater than the MDL. Always reported with an associated EPA functional Guideline Code qualifier of <i>U</i> .
<i>K</i>	The actual concentration is known to be less than the reported result.
<i>L</i>	The actual concentration is known to be less than the reported result.
<i>O</i>	Sample received by laboratory, but the analysis was lost or not performed.
<i>Q</i>	Sample was held beyond normal holding time prior to analysis.

Note: These are only some of the qualifiers present in the database. All modifiers associated with the data are published in the result tables of EPD/EMS' quarterly groundwater monitoring reports, the official repository of the data.

TABLE D1

Synchronous Water Elevations

Water Level Measurement Periods

1Q00	03/20/00 to 03/30/00
2Q00	06/24/00 to 06/29/00
3Q00	09/23/00 to 09/27/00
4Q00	12/27/00 to 12/31/00

Table D1. Synchronous Water Elevation Measurements

Well Name	1Q2000	2Q2000	3Q2000	4Q2000	Aquifer Abbreviation	Well Use: M Area	Well Use: MetLab
ABP 2A	222.18	221.00	NS	219.04	MAAZ	Plume Definition	
AC 2B	225.45	225.18	225.11	224.94	MAAZ	Piezometer	
AC 3B	211.20	210.62	209.69	208.63	MAAZ	Piezometer	
ACB 2A	232.05	231.47	230.75	NS	MAAZ	Piezometer	
AMB 4D	229.58	228.90	227.60	226.28	MAAZ	Plume Definition	POC
AMB 5	230.05	229.48	228.20	NS	MAAZ		POC
AMB 6	230.10	229.40	228.48	NS	MAAZ		POC
AMB 7	230.65	229.53	228.66	229.71	MAAZ	Plume Definition	Plume Definition
AMB 8D	230.05	229.31	228.42	NS	MAAZ		POC
AMB 9D	229.92	229.20	228.34	227.45	MAAZ	Plume Definition	POC
AMB 10D	230.91	229.90	*189.13	NS	MAAZ		POC
AMB 11D	231.19	230.48	229.77	NS	MAAZ		Background Well
AMB 12D	230.70	230.00	229.18	230.18	MAAZ	Plume Definition	Background Well
AMB 14D	228.51	NS	226.73	NS	MAAZ		Plume Definition
AMB 15D	230.11	238.74	228.71	230.45	MAAZ	Plume Definition	Plume Definition
AMB 16D	230.01	218.10	228.19	228.65	MAAZ	Plume Definition	POC
AOB 1	NS	NS	279.60	NS	MAAZ	Plume Definition	
AOB 2	231.20	NS	228.60	230.05	MAAZ	Plume Definition	
ARP 1A	NS	NS	213.50	214.98	MAAZ_GCCZ_ULLAZ	Piezometer	
ARP 2	217.96	216.67	215.59	214.75	MAAZ_GCCZ_ULLAZ	Piezometer	
ARP 3	220.53	212.30	218.60	216.91	MAAZ_GCCZ_ULLAZ	Piezometer	
ARP 4	217.98	216.78	212.37	214.88	MAAZ_GCCZ_ULLAZ	Piezometer	
ARP 5D	NS	NS	NS	NS	MAAZ_GCCZ_ULLAZ	Piezometer	
ASB 1A	235.93	NS	235.92	235.58	MAAZ_GCCZ	Plume Definition	
ASB 2AR	235.70	235.29	234.44	234.19	MAAZ	Plume Definition	
ASB 3AR	236.08	233.65	234.86	234.25	MAAZ	Plume Definition	
ASB 4	236.12	233.79	234.40	233.25	MAAZ	Plume Definition	
ASB 5AR	233.51	230.68	229.08	232.25	MAAZ	Plume Definition	
ASB 6A	228.82	209.14	228.89	236.09	MAAZ	Plume Definition	
ASB 8	232.02	231.12	230.34	229.65	MAAZ	Plume Definition	
ASB 9	239.35	238.70	NS	234.81	MAAZ	Piezometer	
MCB 2	223.05	221.97	221.23	220.26	MAAZ	Piezometer	
MCB 9D	222.24	221.08	220.94	219.15	MAAZ	Piezometer	
MSB 1D	228.45	227.81	227.15	226.55	MAAZ		POC
MSB 2D	228.95	228.43	227.67	227.19	MAAZ		POC
MSB 3D	NS	NS	NS	NS	MAAZ		POC
MSB 4D	227.69	226.99	226.39	225.84	MAAZ		POC
MSB 5A	226.17	NS	224.62	223.99	MAAZ		POC
MSB 6A	226.31	224.94	224.10	223.11	MAAZ		POC
MSB 7A	227.32	226.20	225.46	224.77	MAAZ		POC
MSB 8A	167.96	NS	NS	NS	MAAZ		POC
MSB 9C	NS	NS	NS	226.46	MAAZ	Plume Definition	
MSB 11F	228.28	227.61	226.84	226.28	MAAZ	Plume Definition	
MSB 13D	226.62	225.89	225.23	224.58	MAAZ		POC
MSB 15D	NS	237.50	227.59	227.28	MAAZ	Plume Definition	
MSB 16C	228.49	227.52	NS	226.78	MAAZ	Plume Definition	

Well Name	1Q2000	2Q2000	3Q2000	4Q2000	Aquifer Abbreviation	Well Use: M Area	Well Use: MetLab
MSB 17B	224.38	223.62	222.93	222.20	GCCZ	Plume Definition	Background Well
MSB 18B	220.48	219.90	218.90	218.19	MAAZ	Plume Definition	
MSB 19C	233.33	232.57	232.22	231.72	MAAZ	Plume Definition	
MSB 20C	225.55	225.11	NS	NS	MAAZ	Plume Definition	
MSB 21C	228.12	227.12	226.47	225.98	MAAZ	Plume Definition	
MSB 24	233.89	233.50	233.18	233.42	MAAZ	Plume Definition	
MSB 25	NS	NS	237.48	237.40	MAAZ	Piezometer	
MSB 26	229.43	228.59	228.07	227.78	MAAZ	Plume Definition	
MSB 27	NS	226.45	NS	NS	MAAZ	Plume Definition	
MSB 28	228.42	227.72	227.28	226.81	MAAZ	Plume Definition	
MSB 29D	230.42	229.90	229.22	232.42	MAAZ	Background Well	
MSB 31C	231.05	230.25	229.94	229.79	MAAZ	Plume Definition	
MSB 32	223.03	221.88	221.71	221.88	MAAZ	Plume Definition	
MSB 33	216.11	216.02	216.06	NS	MAAZ	Plume Definition	
MSB 34C	228.42	NS	NS	224.70	MAAZ	Plume Definition	
MSB 35D	NS	238.51	NS	NS	MAAZ	Piezometer	
MSB 36D	232.46	231.83	231.29	231.00	MAAZ	Plume Definition	
MSB 37D	229.29	228.44	227.79	NS	MAAZ	Piezometer	
MSB 39D	230.30	229.32	228.75	228.22	MAAZ	Plume Definition	
MSB 40D	226.50	225.81	225.35	223.78	MAAZ	Piezometer	
MSB 41D	240.98	241.06	241.11	240.99	MAAZ	Piezometer	
MSB 42D	229.71	230.54	228.10	227.65	MAAZ	Plume Definition	
MSB 43D	229.92	229.03	228.38	231.37	MAAZ_GCCZ	Background Well	Background Well
MSB 45C	NS	NS	NS	NS	MAAZ	Piezometer	
MSB 46C	NS	NS	NS	362.70	MAAZ	Plume Definition	
MSB 47D	231.85	230.94	230.25	229.41	MAAZ	Plume Definition	
MSB 48D	231.40	230.49	229.76	228.94	MAAZ	Plume Definition	
MSB 49D	228.11	226.44	225.73	224.82	MAAZ	Plume Definition	
MSB 51D	209.48	209.01	208.59	208.17	MAAZ	Piezometer	
MSB 52D	235.39	234.86	234.34	233.78	MAAZ	Piezometer	
MSB 53D	231.44	220.10	230.26	229.51	MAAZ	Piezometer	
MSB 54D	231.75	230.93	230.20	229.19	MAAZ_GCCZ	Plume Definition	
MSB 55D	232.97	NS	232.95	232.85	MAAZ_GCCZ	Plume Definition	
MSB 56D	219.25	219.72	218.23	217.69	MAAZ	Piezometer	
MSB 59D	228.10	227.36	226.67	226.12	MAAZ	POC	
MSB 62D	227.48	226.72	226.02	225.31	MAAZ	POC	
MSB 63D	227.79	227.15	226.49	225.97	MAAZ	POC	
MSB 64D	225.27	224.94	224.18	224.59	MAAZ	POC	
MSB 65D	230.14	NS	229.14	228.49	MAAZ	Plume Definition	
MSB 66D	267.18	267.11	228.39	NS	MAAZ	Plume Definition	
MSB 67D	NS	NS	NS	NS	MAAZ	Plume Definition	
MSB 69D	231.80	230.98	230.22	229.81	MAAZ	Plume Definition	
MSB 70D	220.15	215.92	218.45	217.88	MAAZ	Plume Definition	
MSB 74D	230.02	229.40	228.97	228.60	MAAZ	Plume Definition	
MSB 77D	232.00	231.35	230.67	229.90	MAAZ	Piezometer	
MSB 78DR	221.64	221.24	220.64	220.19	MAAZ_GCCZ	Plume Definition	
MSB 82D	231.55	230.60	230.02	229.78	MAAZ	Plume Definition	
MSB 85D	231.50	230.51	229.89	229.09	MAAZ	Plume Definition	

Well Name	1Q2000	2Q2000	3Q2000	4Q2000	Aquifer Abbreviation	Well Use: M Area	Well Use: MetLab
MSB 87C	NS	NS	NS	236.80	MAAZ	Plume Definition	Plume Definition POC POC
MSB 89C	228.07	227.44	226.83	226.12	MAAZ	Piezometer	
SRW 3A	213.92	211.07	252.20	209.24	MAAZ	Piezometer	
SRW 6	NS	NS	NS	NS	MAAZ	Piezometer	
SRW 9	200.15	201.30	*166.60	193.86	MAAZ	Piezometer	
SRW 12C	191.99	191.37	*39.50	189.70	MAAZ	Piezometer	
SRW 13C	207.75	207.16	196.80	205.54	MAAZ	Piezometer	
SRW 15C	210.76	210.02	209.19	208.31	MAAZ	Piezometer	
SRW 15C	210.76	210.02	*133.20	208.31	MAAZ	Piezometer	
SRW 16B	213.08	212.00	NS	210.19	MAAZ	Plume Definition	
SRW 16C	213.35	212.63	NS	210.77	MAAZ	Piezometer	
ABP 8C	195.85	194.44	193.50	193.33	ULLAZ	Plume Definition	
AC 1A	NS	NS	NS	NS	ULLAZ	Piezometer	
AC 3A	209.52	208.46	207.50	206.56	ULLAZ	Plume Definition	
AMB 11B	220.65	220.82	219.58	NS	ULLAZ		
AMB 18C	229.72	229.05	228.13	229.01	ULLAZ	Plume Definition	
AMB 19C	327.26	226.43	225.92	224.95	ULLAZ	Plume Definition	
ASB 6C	221.72	220.45	220.02	219.80	ULLAZ	Plume Definition	
ASB 8C	218.45	217.38	219.32	214.89	ULLAZ	Plume Definition	
ASB 9C	219.80	218.48	217.80	215.75	ULLAZ	Plume Definition	
ASB 9C	219.80	218.48	217.78	215.75	ULLAZ	Plume Definition	
MCB 5C	194.30	192.83	192.00	191.83	ULLAZ	Plume Definition	
MCB 6C	194.94	193.51	192.65	192.49	ULLAZ	Plume Definition	
MCB 7C	193.36	191.90	191.10	190.93	ULLAZ	Plume Definition	
MSB 1C	214.44	214.17	214.09	213.31	ULLAZ	POC	
MSB 2C	215.50	215.31	215.25	214.62	ULLAZ	POC	
MSB 3C	217.18	216.67	216.84	216.14	ULLAZ	POC	
MSB 4C	213.01	212.90	213.00	211.81	ULLAZ	POC	
MSB 5C	221.57	220.63	220.22	219.59	ULLAZ	POC	
MSB 6C	222.20	221.27	220.44	219.82	ULLAZ	POC	
MSB 7C	221.25	220.28	219.73	218.93	ULLAZ	POC	
MSB 8C	218.65	211.68	219.44	NS	ULLAZ	POC	
MSB 11C	217.74	217.02	218.38	217.67	ULLAZ	Plume Definition	
MSB 12B	216.51	215.57	215.27	210.51	ULLAZ	Plume Definition	
MSB 13CC	223.43	222.21	221.66	221.20	ULLAZ	POC	
MSB 15A	217.79	217.11	217.38	216.54	ULLAZ	Plume Definition	Background Well
MSB 16A	216.96	215.89	215.74	215.35	ULLAZ	Plume Definition	
MSB 18A	211.10	210.21	209.83	209.01	ULLAZ	Plume Definition	
MSB 20A	NS	216.20	215.80	215.11	ULLAZ	Plume Definition	
MSB 23B	220.38	NS	NS	NS	ULLAZ	Plume Definition	
MSB 24A	222.65	221.74	222.25	220.53	ULLAZ	Piezometer	
MSB 27B	224.69	222.12	221.70	221.15	ULLAZ	Plume Definition	
MSB 28A	222.09	221.00	220.62	199.65	ULLAZ	Plume Definition	
MSB 29C	228.35	227.60	216.94	230.12	ULLAZ	Background Well	
MSB 30CC	223.39	222.51	222.13	221.54	ULLAZ	Plume Definition	
MSB 30CC	223.39	222.51	222.13	221.54	ULLAZ	Plume Definition	
MSB 31CC	212.43	210.33	213.69	212.30	ULLAZ	Plume Definition	
MSB 32C	215.53	214.77	214.65	214.34	ULLAZ	Plume Definition	

Well Name	1Q2000	2Q2000	3Q2000	4Q2000	Aquifer Abbreviation	Well Use: M Area	Well Use: MetLab
MSB 33C	210.21	209.70	209.96	209.35	ULLAZ	Plume Definition	Background Well
MSB 34B	226.51	223.58	223.10	223.60	ULLAZ	Plume Definition	
MSB 35B	217.60	216.52	216.83	216.37	ULLAZ	Plume Definition	
MSB 36C	213.32	212.04	211.99	211.73	ULLAZ	Plume Definition	
MSB 39C	213.59	213.06	215.94	212.69	ULLAZ	Plume Definition	
MSB 40C	203.42	203.50	203.50	203.46	ULLAZ	Plume Definition	
MSB 42C	228.54	229.45	228.18	NS	ULLAZ	Plume Definition	
MSB 43B	227.81	226.91	226.21	229.02	ULLAZ	Background Well	
MSB 45B	222.98	221.93	221.39	220.90	ULLAZ	Plume Definition	
MSB 46B	226.05	225.87	225.95	225.84	ULLAZ	Piezometer	
MSB 47C	230.69	229.74	229.19	228.38	ULLAZ	Plume Definition	
MSB 48C	223.04	222.12	221.40	220.72	ULLAZ	Plume Definition	
MSB 50D	NS	NS	NS	NS	ULLAZ	Piezometer	
MSB 53C	221.27	231.43	219.68	218.96	ULLAZ	Plume Definition	
MSB 55HC	231.49	230.56	229.88	229.30	ULLAZ	Plume Definition	
MSB 62C	222.81	220.77	220.45	219.89	ULLAZ	POC	
MSB 63C	218.95	218.25	217.90	217.43	ULLAZ	POC	
MSB 64C	192.27	220.41	219.84	219.22	ULLAZ	POC	
MSB 70C	216.69	218.82	214.81	214.24	ULLAZ	Plume Definition	
MSB 74C	210.01	209.04	209.20	208.88	ULLAZ	Plume Definition	
MSB 75C	208.55	207.82	207.83	208.05	ULLAZ	Plume Definition	
MSB 76C	219.21	218.71	217.98	217.28	ULLAZ	Plume Definition	
MSB 77C	222.00	221.26	220.57	219.96	ULLAZ	Plume Definition	
MSB 79C	208.52	207.65	207.32	207.18	ULLAZ	Plume Definition	
MSB 87B	316.89	210.40	215.91	215.49	ULLAZ	Plume Definition	
SRW 2B	205.84	NS	204.10	203.03	ULLAZ	Plume Definition	Plume Definition Plume Definition POC
SRW 13B	201.35	200.38	*153.40	198.83	ULLAZ	Piezometer	
SRW 14B	203.56	202.31	201.80	200.87	ULLAZ	Plume Definition	
SRW 15B	207.65	206.64	205.92	205.01	ULLAZ	Piezometer	
SRW 15B	207.65	206.64	*158.30	205.01	ULLAZ	Piezometer	
ABP 3C	196.54	195.07	194.25	193.92	LLLAZ	Plume Definition	
AC 2A	219.05	218.19	217.72	217.09	LLLAZ	Piezometer	
AMB 4B	222.60	221.15	220.89	219.98	LLLAZ	Plume Definition	
AMB 7B	222.40	221.22	221.02	220.20	LLLAZ	Plume Definition	
AMB 10B	221.26	220.00	219.79	218.75	LLLAZ	Plume Definition	
ASB 2CR	221.46	219.54	219.17	219.05	LLLAZ	Plume Definition	
ASB 3CR	221.33	218.88	218.54	218.45	LLLAZ	Plume Definition	
ASB 5C	220.28	219.29	218.96	218.18	LLLAZ	Plume Definition	
ASB 9B	219.39	218.14	217.35	215.45	LLLAZ	Plume Definition	
ASB 9B	219.39	218.14	217.42	215.45	LLLAZ	Plume Definition	
ASB 10CR	221.41	219.21	218.92	217.65	LLLAZ	Plume Definition	
MSB 1B	208.08	207.31	208.30	208.16	LLLAZ	POC	
MSB 2B	209.32	209.12	209.39	209.06	LLLAZ	POC	
MSB 3B	NS	NS	NS	NS	LLLAZ	POC	
MSB 4B	206.59	206.07	207.51	207.22	LLLAZ	POC	
MSB 5B	206.35	205.31	205.20	206.61	LLLAZ	POC	
MSB 6B	205.12	204.30	203.95	203.97	LLLAZ	POC	
MSB 7B	205.71	204.83	204.45	204.31	LLLAZ	POC	

Well Name	1Q2000	2Q2000	3Q2000	4Q2000	Aquifer Abbreviation	Well Use: M Area	Well Use: MetLab
MSB 8B	207.09	209.08	206.02	206.48	LLLAZ	POC	Background Well
MSB 9A	208.65	207.88	208.47	208.59	LLLAZ	Plume Definition	
MSB 10B	209.91	210.71	211.08	210.93	LLLAZ	Plume Definition	
MSB 11A	210.65	209.61	210.64	209.39	LLLAZ	Piezometer	
MSB 12A	207.90	205.80	205.75	207.62	LLLAZ	Piezometer	
MSB 13A	211.02	205.14	205.09	206.97	LLLAZ	POC	
MSB 15AA	211.52	210.47	210.42	210.04	LLLAZ	Plume Definition	
MSB 17BB	210.99	210.15	209.73	209.61	LLLAZ	Plume Definition	
MSB 19B	215.13	214.24	214.36	213.69	LLLAZ	Plume Definition	
MSB 21B	218.48	217.55	217.16	216.42	LLLAZ	Plume Definition	
MSB 25A	213.78	212.42	212.15	211.60	LLLAZ	Plume Definition	
MSB 26B	216.82	215.62	215.10	214.59	LLLAZ	Plume Definition	
MSB 29B	222.41	221.42	220.90	223.07	LLLAZ	Background Well	
MSB 30B	223.42	222.59	222.21	NS	LLLAZ	Plume Definition	
MSB 31B	212.36	209.98	213.78	212.11	LLLAZ	Plume Definition	
MSB 32B	210.67	209.99	209.64	209.30	LLLAZ	Plume Definition	
MSB 33B	206.85	206.26	206.25	205.96	LLLAZ	Plume Definition	
MSB 34A	217.12	215.32	214.58	214.40	LLLAZ	Plume Definition	
MSB 36B	213.22	212.04	211.92	211.61	LLLAZ	Plume Definition	
MSB 37C	226.18	224.91	224.36	223.89	LLLAZ	Plume Definition	
MSB 38C	219.96	215.47	215.78	215.03	LLLAZ	Plume Definition	
MSB 39B	212.41	209.50	209.51	NS	LLLAZ	Plume Definition	Background Well
MSB 40B	203.50	202.69	202.28	201.99	LLLAZ	Plume Definition	
MSB 41C	216.43	215.73	215.34	214.75	LLLAZ	Piezometer	
MSB 42B	223.26	223.97	221.93	221.14	LLLAZ	Plume Definition	
MSB 43A	227.63	226.73	226.05	228.95	LLLAZ	Background Well	
MSB 45A	216.21	212.80	212.19	211.80	LLLAZ	Plume Definition	
MSB 47B	223.06	222.04	221.44	220.89	LLLAZ	Plume Definition	
MSB 48B	222.51	221.60	220.89	220.02	LLLAZ	Plume Definition	
MSB 49B	202.49	201.25	200.82	200.71	LLLAZ	Plume Definition	
MSB 50B	202.10	201.42	201.54	201.14	LLLAZ	Piezometer	
MSB 51B	204.44	203.68	203.64	203.29	LLLAZ	Plume Definition	
MSB 52B	218.40	217.02	216.43	219.67	LLLAZ	Plume Definition	
MSB 53B	220.61	219.78	219.04	218.28	LLLAZ	Plume Definition	
MSB 54C	225.24	224.18	223.51	223.01	LLLAZ	Plume Definition	
MSB 55C	227.88	226.89	226.25	225.62	LLLAZ	Plume Definition	
MSB 62B	212.76	206.64	207.07	207.87	LLLAZ	POC	
MSB 63B	207.44	206.77	206.68	207.54	LLLAZ	POC	
MSB 64B	206.72	205.64	205.19	NS	LLLAZ	Plume Definition	
MSB 66C	226.83	225.66	225.09	224.60	LLLAZ	Plume Definition	
MSB 68C	222.89	221.83	211.54	221.39	LLLAZ	Plume Definition	
MSB 69C	225.85	224.92	224.20	223.70	LLLAZ	Plume Definition	
MSB 71B	215.80	214.98	214.05	213.45	LLLAZ	Plume Definition	
MSB 72B	199.12	198.48	197.89	197.62	LLLAZ	Plume Definition	
MSB 73B	200.50	194.80	198.95	198.42	LLLAZ	Plume Definition	
MSB 74B	210.12	209.27	208.83	208.56	LLLAZ	Plume Definition	
MSB 75B	208.76	207.82	207.71	207.43	LLLAZ	Plume Definition	
MSB 77B	220.04	219.00	218.42	217.68	LLLAZ	Plume Definition	

Well Name	1Q2000	2Q2000	3Q2000	4Q2000	Aquifer Abbreviation	Well Use: M Area	Well Use: MetLab
MSB 79B	206.31	205.30	204.94	204.89	LLLAZ	Plume Definition	
MSB 81B	219.12	218.21	217.67	216.93	LLLAZ	Plume Definition	
MSB 82C	226.30	225.23	224.68	224.34	LLLAZ	Plume Definition	
MSB 83C	226.90	225.80	225.09	224.99	LLLAZ	Plume Definition	
MSB 84C	228.62	227.60	227.00	226.52	LLLAZ	Plume Definition	
MSB 85C	223.03	222.06	228.36	220.54	LLLAZ	Plume Definition	
MSB 86C	223.92	223.21	222.33	221.25	LLLAZ	Plume Definition	
MSB 88C	202.91	202.57	202.43	202.21	LLLAZ	Plume Definition	
MSB 89B	206.21	205.49	204.52	204.42	LLLAZ	Plume Definition	
SRW 3BB	206.82	205.74	205.00	204.21	LLLAZ	Piezometer	
SRW 9A	196.76	195.71	*114.40	194.22	LLLAZ	Piezometer	
SRW 11BB	203.74	202.72	202.02	201.22	LLLAZ	Piezometer	
SRW 13A	199.59	198.49	*94.00	197.21	LLLAZ	Piezometer	
SRW 16A	212.48	211.19	NS	209.56	LLLAZ	Plume Definition	
AMB 4A	217.19	216.15	214.69	214.12	MSAZ_CBCU	Plume Definition	POC
AMB 7A	217.11	216.02	214.92	214.00	MSAZ_CBCU	Plume Definition	Plume Definition
AMB 10A	216.72	215.28	NS	214.45	MSAZ_CBCU	Plume Definition	POC
AMB 13AR	216.99	225.10	215.78	215.10	MSAZ_CBCU	Plume Definition	Plume Definition
AMB 17A	216.82	216.05	214.53	214.00	MSAZ_CBCU	Plume Definition	POC
AMB 18A	216.79	215.60	214.50	213.85	MSAZ_CBCU	Plume Definition	POC
ASB 6AA	216.69	216.48	214.64	212.80	MSAZ_CBCU	Plume Definition	
ASB 8B	210.97	209.98	209.33	207.05	MSAZ_CBCU	Plume Definition	
MSB 10A	209.01	208.12	208.48	208.54	MSAZ_CBCU	Plume Definition	
MSB 19A	NS	NS	NS	NS	MSAZ_CBCU	Plume Definition	
MSB 29A	217.96	217.10	217.10	217.72	MSAZ_CBCU	Plume Definition	
MSB 30AA	222.48	221.60	221.30	220.00	MSAZ_CBCU	Plume Definition	
MSB 33A	204.13	203.71	203.35	203.20	MSAZ_CBCU	Plume Definition	
MSB 35A	214.99	214.09	214.07	213.89	MSAZ_CBCU	Plume Definition	
MSB 36A	209.35	207.86	207.75	207.98	MSAZ_CBCU	Plume Definition	
MSB 37B	217.89	216.08	215.20	214.95	MSAZ_CBCU	Plume Definition	
MSB 39A	207.75	206.74	206.63	NS	MSAZ_CBCU	POC	
MSB 40A	202.09	201.23	200.79	200.57	MSAZ_CBCU	Plume Definition	
MSB 41B	216.09	215.29	214.88	214.36	MSAZ_CBCU	Plume Definition	
MSB 42A	217.20	217.74	215.12	214.33	MSAZ_CBCU	Piezometer	
MSB 44A	215.85	215.02	214.33	214.05	MSAZ_CBCU	Piezometer	
MSB 46A	214.18	212.70	212.11	211.47	MSAZ_CBCU	Plume Definition	
MSB 48A	221.10	220.10	219.45	219.54	MSAZ_CBCU	Plume Definition	
MSB 49A	196.50	195.41	194.89	194.53	MSAZ_CBCU	Plume Definition	
MSB 49A	196.50	195.41	194.89	194.53	MSAZ_CBCU	Plume Definition	
MSB 54B	220.89	219.83	219.10	218.90	MSAZ_CBCU	Plume Definition	
MSB 55B	220.50	219.46	218.77	218.12	MSAZ_CBCU	Plume Definition	
MSB 66B	217.28	216.21	215.38	215.15	MSAZ_CBCU	Plume Definition	
MSB 68B	217.15	216.20	215.52	215.91	MSAZ_CBCU	Plume Definition	
MSB 68B	217.15	216.20	192.87	215.91	MSAZ_CBCU	Plume Definition	
MSB 69B	219.15	218.22	217.17	217.36	MSAZ_CBCU	Plume Definition	
MSB 82A	213.07	218.37	NS	218.63	MSAZ_CBCU	Plume Definition	
MSB 82B	218.35	217.30	216.54	216.32	UCCZ_CBCU	Plume Definition	
MSB 83B	220.54	219.55	218.89	218.57	MSAZ_CBCU	Plume Definition	

Well Name	1Q2000	2Q2000	3Q2000	4Q2000	Aquifer Abbreviation	Well Use: M Area	Well Use: MetLab
MSB 83B	220.54	219.55	218.89	218.57	MSAZ_CBCU	Plume Definition	
MSB 84A	196.99	217.92	NS	184.58	MSAZ_CBCU	Plume Definition	
MSB 85B	219.85	218.92	218.17	217.34	MSAZ_CBCU	Plume Definition	
MSB 88B	200.38	200.09	199.86	199.55	MSAZ_CBCU	Plume Definition	
SRW 2A	204.62	203.64	203.00	202.09	MSAZ_CBCU	Plume Definition	
SRW 12A	191.95	190.51	<i>*122.40</i>	189.39	CBCU	Piezometer	
SRW 14A	201.63	200.23	<i>*179.90</i>	198.92	MSAZ_CBCU	Plume Definition	
SRW 15A	207.35	206.35	205.75	204.97	MSAZ_CBCU	Piezometer	
SRW 15A	207.35	206.35	205.75	204.97	MSAZ_CBCU	Piezometer	
ASB 6TA	212.52	211.74	210.57	206.01	CBAU	Plume Definition	
ASB 8TA	214.27	213.33	<i>*194.71</i>	209.35	CBAU	Plume Definition	
MSB 12TA	191.84	190.40	213.58	189.81	CBAU	Plume Definition	
MSB 21TA	193.25	191.95	191.54	191.26	CBAU	Piezometer	
MSB 23TA	199.85	198.76	NS	NS	CBAU	Plume Definition	
MSB 27TA	199.49	198.53	197.28	197.69	CBAU	Plume Definition	
MSB 29TA	210.89	209.86	209.00	209.26	CBAU	Plume Definition	
MSB 30A	197.13	196.20	195.36	195.48	CBAU	Piezometer	
MSB 31A	197.35	195.70	195.56	195.40	CBAU	Piezometer	
MSB 33TA	195.18	193.74	193.44	NS	CBAU	Piezometer	
MSB 34TA	200.90	199.73	193.09	198.90	CBAU	Plume Definition	
MSB 35TA	198.73	197.52	197.39	197.20	CBAU	Plume Definition	
MSB 36TA	193.92	192.99	192.78	192.77	CBAU	Plume Definition	
MSB 37A	NS	204.66	NS	NS	CBAU	Plume Definition	
MSB 37TA	205.59	204.56	202.24	203.90	CBAU	Piezometer	
MSB 38TA	197.35	195.62	195.37	NS	CBAU	Piezometer	
MSB 39TA	191.86	190.80	190.62	NS	CBAU	Plume Definition	
MSB 40TA	189.49	188.10	187.77	187.70	CBAU	Piezometer	
MSB 41TA	205.99	204.67	204.32	204.10	CBAU	Plume Definition	
MSB 42TA	203.71	204.98	201.62	200.74	CBAU	Plume Definition	
MSB 43TA	201.49	200.88	199.83	199.65	CBAU	Plume Definition	
MSB 47TA	214.71	213.78	212.90	212.65	CBAU	Plume Definition	
MSB 47TA	214.71	213.78	212.90	212.65	CBAU	Plume Definition	
MSB 48TA	220.99	220.04	219.32	218.67	CBAU	Plume Definition	
MSB 48TA	220.99	220.04	219.32	218.67	CBAU	Plume Definition	
MSB 54TA	218.40	217.36	216.60	216.60	CBAU	Plume Definition	
MSB 55TA	212.98	212.10	211.28	210.62	CBAU	Plume Definition	
MSB 66TA	204.18	204.16	202.35	NS	CBAU	Plume Definition	
MSB 69TA	213.99	213.20	212.15	212.39	CBAU	Plume Definition	
MSB 82TA	212.95	212.10	211.12	210.28	CBAU	Plume Definition	
MSB 83TA	214.49	213.50	212.75	212.78	CBAU	Plume Definition	
MSB 85TA	219.39	218.34	217.67	217.11	CBAU	Plume Definition	

* Values in Italics were considered anomalous due to measurement error and were not used for contouring potentiometric surfaces.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF**WELL MSB 1B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101833 E 48483.2	33.33 Deg N 81.737 Deg W	142.6 - 137.9 ft msl	354.8 ft msl	4" PVC	S	LL

SAMPLE DATE 02/18/99 09/16/99 02/28/00 08/08/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	208.86	214.6	208.2	207.07	ft msl
pH	5	5.3	5.7	5	pH
Sp. Conductance	43	42	45	40	uS/cm
Water temperature	19.3	19.4	18.7	20.3	deg. C
Alkalinity as CaCO ₃		1	4	5	mg/L
Turbidity	.2	.3	.4	.7	NTU
Volumes purged	2.46	2.73	2.50	3.05	well volume
Sampling code					
Synchronous water level	212.1 (03/29/99)	209.1 (09/21/99)	208.1 (03/21/00)	208.3 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	14.4		46		14.2	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	JU Q							ug/L	
	Lead, total recoverable	<100	U	<10	U	10.5	J I	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<50	U	<250	U	<10	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<50	U	<250	U	<10	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<50	U	<250	U	<10	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<250	U			<5	U	< EQL	5	ug/L	ML
	PCB 1016			<1.9	U							ug/L	
	PCB 1221			<1.9	U							ug/L	
	PCB 1232			<.94	U							ug/L	
	PCB 1242			<.94	U							ug/L	
	PCB 1248			<.94	U							ug/L	
	PCB 1254			<.94	U							ug/L	
	PCB 1260			<.94	U							ug/L	
	1,1,2,2-Tetrachloroethane	<50	U	<250	U	<10	U	<5	U	< EQL	5	ug/L	ML
+	Tetrachloroethylene	<50	U	<250	U	10.3	J K	9.3		> 5	5	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<250	U	<10	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	1200		1700		1690	J K	1630		> 5	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<40	U	< EQL	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	2420		2240		3120		3290		> 2400	5	ug/L	EX
	Sodium, total recoverable			2620		2890		3030		< 4600	1	ug/L	ML
	Sulfate	384	J	315	J	243						ug/L	
Radionuclides													
	Gross alpha	-.35	U	2.02		1.36	J I	1.83	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	-1.04	UIJ	1.91		1.26	U	2.9	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.88	UIJ	.41		.2	U	1.6	J IL	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 1C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101832.5 E 48512.7	33.33 Deg N 81.737 Deg W	166 - 161.3 ft msl	355.1 ft msl	4" PVC	S	UL

SAMPLE DATE	02/18/99	09/16/99	02/28/00	08/08/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	215.85	217.72	214.52	213.34	ft msl
pH	10.9	11.1	10	6.9	pH
Sp. Conductance	650	668	207	162	uS/cm
Water temperature	17.9	24.3	17.5	22.6	deg. C
Alkalinity as CaCO ₃	79	112	32	25	mg/L
Turbidity	.3	.4	.6	.3	NTU
Volumes purged	.028	0	0	2.15	well volume
Sampling code	X	NX	NX		
Synchronous water level	216.3 (03/29/99)	215.5 (09/21/99)	214.4 (03/21/00)	214.1 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	44.5		5.13	J I	35.8		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<25	U	<1	U	<2	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<25	U	<1	U	<2	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<25	U	3.97		3.76	J K	3.1	J I	NDD	5	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<1	U			<5	U	< EQL	5	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<1	U	<2	U	<5	U	< EQL	5	ug/L	ML
+	Tetrachloroethylene	377		349		304	J K	657		> 5	5	ug/L	ML
	1,1,1-Trichloroethane	<25	U	.69	J I	<2	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	161		136		152	J K	434		> 5	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	73.6		1770		1820		8.17	J I	NDD	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	17100		11700		9410		11600		> 2400	5	ug/L	EX
+	Sodium, total recoverable	19200		22600		18700		16100		> 4600	1	ug/L	ML
	Sulfate	2260		2750		2870						ug/L	
Radionuclides													
	Gross alpha	1.24		2.91		.939	U	1.84	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	4.09	J	10.9		5.97	J K	3.69		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	2.16	J	.72		.3	U	.647	J IL	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 1D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101833.4 E 48452.2	33.33 Deg N 81.737 Deg W	229.8 - 210.4 ft msl	354.8000 ft msl	4 " PVC	S	M

SAMPLE DATE 02/18/99 08/17/99 03/27/00 09/01/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	230.31	229.85	228.67	227.4	ft msl
pH	4.9	5.5	5.4	5	pH
Sp. Conductance	45	40	39	41	uS/cm
Water temperature	19.6	23.2	21.5	22.3	deg. C
Alkalinity as CaCO3	1	2	2	0	mg/L
Turbidity	.3	1.5	5.1	1.6	NTU
Volumes purged	2.71	2.93	4.89	4.08	well volume
Sampling code			NX		
Synchronous water level	230.1 (03/29/99)	229.6 (09/21/99)	228.5 (03/21/00)	227.2 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	14		13.8	J I	13.5	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<5.2	U V	<20	U	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<5.83	JU V	<13.4	U V	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	23.9	J I	NDD	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016	<2	U	<2	U	<.971	JU Q	<.943	U	< EQL	1	ug/L	ML
	PCB 1221	<2	U	<2	U	<.971	JU Q	<.943	U	< EQL	1	ug/L	ML
	PCB 1232	<1	U	<.98	U	<.971	JU Q	<.943	U	< EQL	1	ug/L	ML
	PCB 1242	<1	U	<.98	U	<.971	JU Q	<.943	U	< EQL	1	ug/L	ML
	PCB 1248	<1	U	<.98	U	<.971	JU Q	<.943	U	< EQL	1	ug/L	ML
	PCB 1254	<1	U	<.98	U	<.971	JU Q	<.943	U	< EQL	1	ug/L	ML
	PCB 1260	<1	U	<.98	U	<.971	JU Q	<.943	U	< EQL	1	ug/L	ML
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	11.9		6		17.8		<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	3.09	J I	3.8	J I	17.3		<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	13.1	J	<200	U	<200	U	12000		> 100	1	ug/L	ML
	Nitrate-nitrite as nitrogen	2550		2290		2490		2270	J K	NDD	1	ug/L	EX
	Sodium, total recoverable	4470		5320		4100		3760		< 4600	1	ug/L	ML
	Sulfate	<5000	U	192	J	278						ug/L	
Radionuclides													
	Gross alpha	.7	UI	11		5.84		8.43		< 15	1	pCi/L	GP
	Nonvolatile beta	22.8	J	7.29		2.63		4.16		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.95	UI	2.41		1.4		4.27		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 2B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101997.9 E 48748.2	33.331 Deg N 81.737 Deg W	150.3 - 145.6 ft msl	354.6000 ft msl	4 " PVC	S	LL

SAMPLE DATE	02/18/99	08/09/99	02/28/00	08/08/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	210.34	211.1	209.45	208.32	ft msl
pH	11.5	11.6	9.9	10.3	pH
Sp. Conductance	2900	3038	3740	2675	uS/cm
Water temperature	18.8	24.5	18.1	22.2	deg. C
Alkalinity as CaCO ₃	439	66	771	548	mg/L
Turbidity	.5	.7	.6	.4	NTU
Volumes purged	.024	.023	0	.024	well volume
Sampling code	X	NX	NX	NX	
Synchronous water level	211.9 (03/29/99)	211 (09/21/99)	209.3 (03/21/00)	209.4 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	430		115		628		< 2000	1	ug/L	EX
	Cyanide	<10	U	<10	U			<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<10	U	<4.24	JU	<1.17	JU	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<60	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<4.7	JU I	<40	U	<7.58	U V	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<250	U	<1.07	JU V	<50	U	<50	U	< EQL	10	ug/L	EX
	1,1-Dichloroethane	<250	U	<1	JU	<50	U	<50	U	< EQL	10	ug/L	EX
	1,1-Dichloroethylene	<250	U	3.27	J	<50	U	<50	U	< EQL	10	ug/L	EX
	trans-1,2-Dichloroethylene	<250	U	3.01	J			<50	U	< EQL	10	ug/L	EX
	PCB 1016							<.98	U	< EQL	.980	ug/L	EX
	PCB 1221							<.98	U	< EQL	.980	ug/L	EX
	PCB 1232							<.98	U	< EQL	.980	ug/L	EX
	PCB 1242							<2	U	< EQL	.980	ug/L	EX
	PCB 1248							<.98	U	< EQL	.980	ug/L	EX
	PCB 1254							<.98	U	< EQL	.980	ug/L	EX
	PCB 1260							<.98	U	< EQL	.980	ug/L	EX
	1,1,2,2-Tetrachloroethane	<250	U	<1	JU	<50	U	<50	U	< EQL	10	ug/L	EX
+	Tetrachloroethylene	9650		9010		13500	J K	13000		> 5	200	ug/L	EX
	1,1,1-Trichloroethane	<250	U	4.47	J	<50	U	<50	U	< EQL	10	ug/L	EX
+	Trichloroethylene	11200		10900		16800	J K	13000		> 5	200	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	798		1030		1100		1270		> 100	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	5540		4340		5250		4430		> 2400	5	ug/L	EX
+	Sodium, total recoverable	31400		53700		61000		56400		> 4600	1	ug/L	EX
	Sulfate	<5000	U	1660		1780						ug/L	
Radionuclides													
	Gross alpha	.65	UI	9.79		7.09		8.32	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	58.8		59.46		36.6		47.3		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.72	UI	3.35		3.1		4.14	J L	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 2C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101982.5 E 48749.3	33.331 Deg N 81.737 Deg W	194.7 - 190.0 ft msl	354.7000 ft msl	4 " PVC	S	UL

SAMPLE DATE	02/18/99	08/09/99	02/28/00	08/08/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	217.13	216.9	215.68	214.44	ft msl
pH	11.3	8.1	10.4	7	pH
Sp. Conductance	1100	190	940	154	uS/cm
Water temperature	20	24.6	17.5	23.1	deg. C
Alkalinity as CaCO3	141	18	168	22	mg/L
Turbidity	1	.5	1.7	.7	NTU
Volumes purged	.057	2.34	0	2.20	well volume
Sampling code	X		NX		
Synchronous water level	217.2 (03/29/99)	216.8 (09/21/99)	215.5 (03/21/00)	215.3 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	62		20.8		62.8		< 2000	1	ug/L	EX
	Cyanide	<10	U	<10	U			<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<10	U	<20	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<60	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<10	U	<40	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<1250	U	4.68	J K	<100	U	<250	JU L	< EQL	50	ug/L	EX
	1,1-Dichloroethane	<1250	U	<1	U	<100	U	<250	JU L	< EQL	50	ug/L	EX
	1,1-Dichloroethylene	<1250	U	.92	J IK	<100	U	<250	JU L	< EQL	50	ug/L	EX
	trans-1,2-Dichloroethylene	<1250	U	<1	U			<250	JU L	< EQL	50	ug/L	EX
	PCB 1016							<.97	U	< EQL	.970	ug/L	EX
	PCB 1221							<.97	U	< EQL	.970	ug/L	EX
	PCB 1232							<.97	U	< EQL	.970	ug/L	EX
	PCB 1242							<1.9	U	< EQL	.970	ug/L	EX
	PCB 1248							<.97	U	< EQL	.970	ug/L	EX
	PCB 1254							<.97	U	< EQL	.970	ug/L	EX
	PCB 1260							<.97	U	< EQL	.970	ug/L	EX
	1,1,2,2-Tetrachloroethane	<1250	U	12.6	J K	<100	U	<250	JU L	< EQL	50	ug/L	EX
+	Tetrachloroethylene	24700		57400		22200	J K	39000		> 5	250	ug/L	EX
	1,1,1-Trichloroethane	<1250	U	<1	U	<100	U	<250	JU L	< EQL	50	ug/L	EX
+	Trichloroethylene	18300		44500		14200	J K	25000		> 5	250	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	194		727		<200	U	86.4	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	11000		7830		15300		13200		> 2400	5	ug/L	EX
+	Sodium, total recoverable	13000		20300		13000		12500		> 4600	1	ug/L	EX
	Sulfate	<5000	U	811		337						ug/L	
Radionuclides													
	Gross alpha	.9	UI	6.05		3.31		4.42		< 15	1	pCi/L	GP
	Nonvolatile beta	4.01		11.74		4.37		3.74		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	4.66	J	1.65		3.7		2.77	J L	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 2D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102014 E 48755.7	33.331 Deg N 81.737 Deg W	230.10 - 210.7 ft msl	353.8 ft msl	4" PVC	S	M

SAMPLE DATE	02/18/99	08/31/99	02/28/00	09/27/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.03	229.97	229.04	227.55	ft msl
pH	4.2	4.6	5.5	4.7	pH
Sp. Conductance	45	39	36	38	uS/cm
Water temperature	19.8	18.7	18.6	19.3	deg. C
Alkalinity as CaCO ₃		0	2	0	mg/L
Turbidity	.5	1	1.3	.8	NTU
Volumes purged	4.92	3.04	2.27	4.21	well volume
Sampling code					
Synchronous water level	230.7 (03/29/99)	229.9 (09/21/99)	229 (03/21/00)	227.7 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	14		12	J I	12.4		< 2000	1	ug/L	EX
	Cyanide	<10	U	<10	U	<20	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<10	U	<20	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<60	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<10	U	<40	U	<4.54	JU	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<125	U	<1	U	<2	U	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<125	U	<1	U	<2	U	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<125	U	1.94	J K	1.34	J IK	<5	JU L	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<125	U	<1	U			<5	JU L	< EQL	1	ug/L	EX
	PCB 1016	<2	U	<2	U	<1	JU	<.96	U	< EQL	.960	ug/L	EX
	PCB 1221	<2	U	<2	U	<1	JU	<.96	U	< EQL	.960	ug/L	EX
	PCB 1232	<1	U	<.99	U	<1	JU	<.96	U	< EQL	.960	ug/L	EX
	PCB 1242	<1	U	<.99	U	<1	JU	<1.9	U	< EQL	.960	ug/L	EX
	PCB 1248	<1	U	<.99	U	<1	JU	<.96	U	< EQL	.960	ug/L	EX
	PCB 1254	<1	U	<.99	U	<1	JU	<.96	U	< EQL	.960	ug/L	EX
	PCB 1260	<1	U	<.99	U	<1	JU	<.96	U	< EQL	.960	ug/L	EX
	1,1,2,2-Tetrachloroethane	<125	U	<1	U	<2	U	<5	JU L	< EQL	1	ug/L	EX
	Tetrachloroethylene	272		507		599	J K	12	J L	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<125	U	14.5	J K	20.6	J K	<5	JU L	< EQL	1	ug/L	EX
	Trichloroethylene	98.9	J I	99.8	J K	84.8	J K	36	J L	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	224		710		115	J I	<125	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	3370		1800		2450		2250		< 2400	5	ug/L	EX
	Sodium, total recoverable	2050		2480		2100		1950		< 4600	1	ug/L	EX
	Sulfate	<5000	U	246	J	<400	U					ug/L	
Radionuclides													
	Gross alpha	.48	UI	14.6		7.49		8.75		< 15	1	pCi/L	GP
	Nonvolatile beta	-1.26	UI	15.36		2.83	J I	2.88	J I	NDD	1	pCi/L	GP
+	Radium, total alpha-emitting	3.95	UI	3.14		4.9		6.37		> 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 3B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102191.7 E 48568	33.331 Deg N 81.737 Deg W	145.8 - 141.1 ft msl	361 ft msl	4 " PVC	S	LL
SAMPLE DATE		02/24/99	08/09/99	02/28/00	08/08/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	241.2	ft msl	
pH	5.3	6.7	7.2	6.3	pH	
Sp. Conductance	34	57	65	41	uS/cm	
Water temperature	18.1	22.1	18.8	21.4	deg. C	
Alkalinity as CaCO ₃	11	16	8	6	mg/L	
Turbidity	1	.4	.9	.2	NTU	
Volumes purged				3.57	well volume	
Sampling code						
Synchronous water level	()	()	()	()	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	17.2		20		<15	U	14	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U	<5.8	JU	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<8.7	JU I	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<3.7	JU I	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<125	U	<1	U	<5	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<125	U	<1	U	<5	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<125	U	<1	U	<5	U	<10	U	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<125	U	<1	U			<10	U	< EQL	10	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U	<1	U	<5	U	<10	U	< EQL	10	ug/L	ML
+	Tetrachloroethylene	894		376		551	J K	356		> 5	10	ug/L	ML
	1,1,1-Trichloroethane	<125	U	<1	U	<5	U	<10	U	< EQL	10	ug/L	ML
+	Trichloroethylene	3260		1290		1730	J K	1310		> 5	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<40	U	< EQL	1	ug/L	ML
	Nitrate-nitrite as nitrogen	1370		1340		1130		1170		< 2400	5	ug/L	EX
	Sodium, total recoverable	2240		2760		2600		2490		< 4600	1	ug/L	ML
	Sulfate	779	J	706		443						ug/L	
Radionuclides													
	Gross alpha	.12	U	1.21		.6	J I	.861	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	2.49	J	1.42		1.39	J I	1.3	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.93	UIJ	.25	UI	.4	U	.631	J IL	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 3C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102189.6 E 48538.5	33.331 Deg N 81.738 Deg W	193.7 - 189.0 ft msl	360.8000 ft msl	4 " PVC	S	UL
SAMPLE DATE		02/24/99	08/09/99	02/28/00	08/09/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	218.02	218.3	217.3	216.1	ft msl	
pH	11.2	11.4	9	11.7	pH	
Sp. Conductance	1600	1797	1852	1790	uS/cm	
Water temperature	14.4	28.4	19.1	22.7	deg. C	
Alkalinity as CaCO ₃	409	352	380	286	mg/L	
Turbidity	.9	.8	1	.8	NTU	
Volumes purged	.053	0	0	0	well volume	
Sampling code	X	NX	NX	NX		
Synchronous water level	218.6 (03/29/99)	218.2 (09/21/99)	217.2 (03/21/00)	216.8 (09/23/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	424		260		149		333		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<6.92	JU	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<2500	U	4.34	J K	<200	U	<200	JU L	< EQL	200	ug/L	ML
	1,1-Dichloroethane	<2500	U	<1	U	<200	U	<200	JU L	< EQL	200	ug/L	ML
	1,1-Dichloroethylene	<2500	U	5.48	J K	<200	U	<200	JU L	< EQL	200	ug/L	ML
	trans-1,2-Dichloroethylene	<2500	U	32	J K			<200	JU L	< EQL	200	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<2500	U	<1	U	<200	U	<200	JU L	< EQL	200	ug/L	ML
	Tetrachloroethylene	61800		48900		45800	J K	60200	J L	NDD	200	ug/L	ML
	1,1,1-Trichloroethane	<2500	U	4.03	J K	<200	U	<200	JU L	< EQL	200	ug/L	ML
	Trichloroethylene	23400		16900		17200	J K	17300	J L	NDD	200	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	3850		3330		3400		3140		> 100	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	3400		2300		2210		4740		> 2400	5	ug/L	EX
+	Sodium, total recoverable	50100		37700		20000		18700		> 4600	1	ug/L	ML
	Sulfate	2640	J	1250		1140						ug/L	
Radionuclides													
	Gross alpha	13.1		9.18		2.9		6.31	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	356	J	64.48		24.9		19.4	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	2.82	UI	1.89		2.2		1.56	J IL	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 4B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101978.3 E 48312.8	33.33 Deg N 81.738 Deg W	143.1 - 138.4 ft msl	355.3000 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/23/99 08/09/99 02/28/00 08/10/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	206.79	208.37	206.7	206.12	ft msl
pH	4.7	4.9	6.1	5	pH
Sp. Conductance	19	27	26	26	uS/cm
Water temperature	19.2	21.9	19.1	21.3	deg. C
Alkalinity as CaCO3	1	1	6	0	mg/L
Turbidity	.3	.5	.4	.7	NTU
Volumes purged	2.55	3.32	2.42	3.00	well volume
Sampling code					
Synchronous water level	212.5 (03/29/99)	208.3 (09/21/99)	206.6 (03/21/00)	207.5 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.99	J I	5.7	J I	<15	U	12.2	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U	<4.96	JU	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<4.2	JU I	<40	U	9.62	J I	NDD	1	ug/L	ML
Organics													
	Chlorobenzene	<125	U	<1	U	<10	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<125	U	<1	U	<10	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<125	U	<1	U	<10	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<125	U	<1	U			<5	U	< EQL	5	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U	<1	U	<10	U	<5	U	< EQL	5	ug/L	ML
+	Tetrachloroethylene	142		62.1		62.7	J K	73		> 5	5	ug/L	ML
	1,1,1-Trichloroethane	<125	U	<1	U	<10	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	2200		829		1120	J K	1200		> 5	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<40	U	< EQL	1	ug/L	ML
	Nitrate-nitrite as nitrogen	736		1110		1200		1500		< 2400	5	ug/L	EX
	Sodium, total recoverable	2160		2190		2000		2210		< 4600	1	ug/L	ML
	Sulfate	<5000	U	569		548						ug/L	
Radionuclides													
	Gross alpha	.15	UI	1.61		.0354	U	1.51	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	-2.42	UIJ	3.06		2.06	J I	1.07	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.92	UI	.33		.6	J I	.196	JU L	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 4C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101963.2 E 48313.6	33.33 Deg N 81.738 Deg W	168.1 - 163.3 ft msl	355.2000 ft msl	4 " PVC	S	UL
SAMPLE DATE		02/23/99	08/09/99	02/28/00	08/10/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	213.64	214.15	213.12	212.37	ft msl	
pH	5.2	5.7	8.9	5.8	pH	
Sp. Conductance	120	198	415	191	uS/cm	
Water temperature	19.1	22.7	19.2	21.5	deg. C	
Alkalinity as CaCO ₃	3	4	32	2	mg/L	
Turbidity	.5	.4	.7	.7	NTU	
Volumes purged	2.34	2.50	0	2.65	well volume	
Sampling code			NX			
Synchronous water level	216.5 (03/29/99)	214.1 (09/21/99)	213 (03/21/00)	213 (09/23/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	72.3		65		142		68.1		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<500	U	<1.06	JU KV	<50	U	<50	JU L	< EQL	50	ug/L	ML
	1,1-Dichloroethane	<500	U	<1	U	<50	U	<50	JU L	< EQL	50	ug/L	ML
	1,1-Dichloroethylene	<500	U	6.79	J K	<50	U	<50	JU L	< EQL	50	ug/L	ML
	trans-1,2-Dichloroethylene	<500	U	<1	U			<50	JU L	< EQL	50	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<500	U	1.54	J K	<50	U	<50	JU L	< EQL	50	ug/L	ML
	Tetrachloroethylene	9280		9590		7050	J K	19400	J L	NDD	50	ug/L	ML
	1,1,1-Trichloroethane	<500	U	.7	J IK	<50	U	<50	JU L	< EQL	50	ug/L	ML
	Trichloroethylene	10600		11300		10300	J K	16900	J L	NDD	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	45.9		<200	U	<200	U	<40	U	< EQL	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	29700		17700		18800		18200		> 2400	5	ug/L	EX
+	Sodium, total recoverable	12900		16800		15000		16300		> 4600	1	ug/L	ML
	Sulfate	<5000	U	292	J	239						ug/L	
Radionuclides													
	Gross alpha	.37	UI	10.78		2.93		3.47	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	2.02	UI	25.95		7.03		6.98		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	3.46	UI	2.1		2		2.22	J L	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 4D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102007.5 E 48311.7	33.33 Deg N 81.738 Deg W	228.4 - 209.0 ft msl	355.5 ft msl	4 " PVC	S	M

SAMPLE DATE	02/23/99	08/09/99	02/28/00	08/10/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	229.3	229	227.85	226.85	ft msl
pH	4.6	5.1	5.4	4.7	pH
Sp. Conductance	50	58	53	53	uS/cm
Water temperature	19.2	22.9	19.3	21.5	deg. C
Alkalinity as CaCO ₃		0	2	0	mg/L
Turbidity	.3	.4	.9	.4	NTU
Volumes purged	3.81	4.02	3.45	5.56	well volume
Sampling code					
Synchronous water level	229.3 (03/29/99)	228.9 (09/21/99)	227.7 (03/21/00)	226.4 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	13.9		17		5.55	J I	13.1	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	8.2	J IL	<20	U	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<25	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<25	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<25	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016	<2	U	<2	U	<1	JU	<.976	JU Q	< EQL	1	ug/L	ML
	PCB 1221	<2	U	<2	U	<1	JU	<.976	JU Q	< EQL	1	ug/L	ML
	PCB 1232	<1	U	<1	U	<1	JU	<.976	JU Q	< EQL	1	ug/L	ML
	PCB 1242	<1	U	<1	U	<1	JU	<.976	JU Q	< EQL	1	ug/L	ML
	PCB 1248	<1	U	<1	U	<1	JU	<.976	JU Q	< EQL	1	ug/L	ML
	PCB 1254	<1	U	<1	U	<1	JU	<.976	JU Q	< EQL	1	ug/L	ML
	PCB 1260	<1	U	<1	U	<1	JU	<.976	JU Q	< EQL	1	ug/L	ML
	1,1,2,2-Tetrachloroethane	<25	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	86.1		68.7		53.5	J K	34.5		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	107		104		85.6	J K	70.4		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	153		111	J	130	J I	149		> 100	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	2060		2570		4520		3530		> 2400	5	ug/L	EX
	Sodium, total recoverable	3830		3730		4400		4140		< 4600	1	ug/L	ML
	Sulfate	<5000	U	1480	J	1540						ug/L	
Radionuclides													
	Gross alpha	1.42		10.82		4.79		6.21		< 15	1	pCi/L	GP
	Nonvolatile beta	.04	UI	10.94	J	4.46		3.97	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	4.74	UI	1.41		4.4		3.37	J L	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 5A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101971.5 E 46998.7	33.328 Deg N 81.741 Deg W	247.2 - 217.2 ft msl	344.6000 ft msl	4 " PVC	S	M

SAMPLE DATE	02/17/99	08/31/99	02/24/00	08/09/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	227.25	227.12	226.3	225.11	ft msl
pH	5.1	5.3	4.5	5.3	pH
Sp. Conductance	32	27	27	27	uS/cm
Water temperature	19.3	18.9	18.7	23.6	deg. C
Alkalinity as CaCO ₃	1	1	0	1	mg/L
Turbidity	.8	.8	.6	.7	NTU
Volumes purged	5.42	4.39	4.80	5.34	well volume
Sampling code					
Synchronous water level	227.2 (03/29/99)	227.1 (09/21/99)	226.2 (03/21/00)	224.6 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	<10	U	<15	U	<15	U	< EQL	1	ug/L	ML
	Cyanide	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<10	U	<9.84	JU IV	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	.69	J IK	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	3.12	J IL	.73	J IK	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	9	J	99.9	J	<200	U	<15.1	U V	< EQL	1	ug/L	ML
	Nitrate-nitrite as nitrogen	2930		1530		1290		1530		< 2400	5	ug/L	EX
	Sodium, total recoverable	4670		5550		3700		3550		< 4600	1	ug/L	ML
	Sulfate	<5000	U	822		701						ug/L	
Radionuclides													
	Gross alpha	1.46		1.47		1.29	U V	1.8	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	.003	UI	1.04	UI	1.08	U	.646	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1.35	UI	1.26		.2	U	.773	J IL	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 5B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101971.1 E 46983.6	33.328 Deg N 81.741 Deg W	136.1 - 131.4 ft msl	345 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/17/99 08/16/99 02/24/00 08/09/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	207.5	209.55	206.48	205	ft msl
pH	4.9	5.5	4.5	5.2	pH
Sp. Conductance	19	20	18	18	uS/cm
Water temperature	18.9	20.2	18.4	22.6	deg. C
Alkalinity as CaCO3	1	2	0	0	mg/L
Turbidity	.9	.5	.3	.8	NTU
Volumes purged	2.43	2.48	2.50	3.63	well volume
Sampling code					
Synchronous water level	209.3 (03/29/99)	209.5 (09/21/99)	206.4 (03/21/00)	205.2 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	6.4	J I	4.79	J I	5.07	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<1.96	U V	<5.36	JU IV	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<5	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	29	J L	5	J K	10.9	J K	21.5		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<10.3	U V	< EQL	1	ug/L	ML
	Nitrate-nitrite as nitrogen	342		253	J	246	J I	405	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1550		1600		1700		1580		< 4600	1	ug/L	ML
	Sulfate	<5000	U	568		701						ug/L	
Radionuclides													
	Gross alpha	.11	UI	17.57	J	.254	JU L	1.21	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	-1.2	UI	41.7	J	1.37	U	.149	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.17	UI	.18	UI	.1	U	.239	JU L	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 5C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101970.4 E 46968.6	33.328 Deg N 81.741 Deg W	188.1 - 183.4 ft msl	345.2000 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/17/99 08/16/99 02/24/00 08/09/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	222.77	222.93	221.65	220.35	ft msl
pH	5.1	5.6	5	5.3	pH
Sp. Conductance	220	232	224	222	uS/cm
Water temperature	18.9	20.2	18.6	22.2	deg. C
Alkalinity as CaCO3	3	3	2	2	mg/L
Turbidity	.4	.5	.5	.5	NTU
Volumes purged	3.58	2.79	3.08	3.98	well volume
Sampling code					
Synchronous water level	223 (03/29/99)	222.9 (09/21/99)	221.6 (03/21/00)	220.2 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	41		39		34.3		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<1.71	U V	<11.1	JU IV	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<5	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	2.85	J K	2.4		2.21	J L	NDD	1	ug/L	ML
	1,1-Dichloroethylene	39.7		40	J K	36.6		30.3	J L	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	148		150	J K	151		139	J L	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	5.62		5.71	J K	5.16		3.09	J L	NDD	1	ug/L	ML
	Trichloroethylene	26.6	J L	28.3	J K	28.5		20.9	J L	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	44.6		105	J	<200	U	<20.7	U V	< EQL	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	23700		4410		23300		23700		> 2400	5	ug/L	EX
+	Sodium, total recoverable	24800		25800		31000		29000		> 4600	1	ug/L	ML
	Sulfate	<5000	U	512		428						ug/L	
Radionuclides													
	Gross alpha	2.45	J	7.44	J	3.49	J IL	6.75		< 15	1	pCi/L	GP
	Nonvolatile beta	4.1	J	13.8	J	12.1		14.4		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	4.56	UI	2.85		2.1		2.92	J L	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 6A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101133.8 E 46319.9	33.325 Deg N 81.741 Deg W	241.9 - 211.9 ft msl	343.8000 ft msl	4 " PVC	S	M
SAMPLE DATE		02/05/99	08/25/99	02/03/00	09/02/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	327.04	227.22	226.42	224.6	ft msl	
pH	4.8	5.1	4.5	6	pH	
Sp. Conductance	32	37	38	36	uS/cm	
Water temperature	19.2	19.6	18.3	19.5	deg. C	
Alkalinity as CaCO ₃	3	1	0	5	mg/L	
Turbidity	1.5	.4	.6	5.1	NTU	
Volumes purged	.663	5.55	5.22	8.78	well volume	
Sampling code						
Synchronous water level	227.2 (03/29/99)	227.2 (09/21/99)	226.3 (03/21/00)	224.1 (09/23/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.46	J I	6.1	J I	6.24	J I	4.91	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<15.1	U V	<20	U	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<10	U	<20	U	<12.3	U V	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<1	U	<1	U	1.79	J L	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<1	U	<1	U	4.48	J L	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	26.5	J I	NDD	1	ug/L	ML
	Nitrate-nitrite as nitrogen	336		390	J	384	J I	329	J K	NDD	1	ug/L	EX
+	Sodium, total recoverable	5750		5250		6300		6100		> 4600	1	ug/L	ML
	Sulfate	324	J	711		350	J I					ug/L	
Radionuclides													
	Gross alpha	-58	U	3.13		1.46	J I	1.68	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	-28	UIJ	1.99		1.02	J I	1.61	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	3.29	J	1.1		.8	J I	.884	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 6B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101148.5 E 46321.6	33.325 Deg N 81.741 Deg W	129.8 - 125.1 ft msl	343.9000 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/17/99 08/17/99 02/24/00 08/10/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	206.47	207	205.23	203.95	ft msl
pH	5.5	5.9	5.3	5.7	pH
Sp. Conductance	53	50	54	54	uS/cm
Water temperature	19.6	21	18.9	22	deg. C
Alkalinity as CaCO ₃	3	3	2	1	mg/L
Turbidity	.5	.7	.4	.5	NTU
Volumes purged	2.84	3.15	2.48	2.46	well volume
Sampling code					
Synchronous water level	206.8 (03/29/99)	207 (09/21/99)	205.1 (03/21/00)	204 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	18		18.5		38		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
+	Lead, total recoverable	<100	U	<10	U	<5.41	JU IV	244		> 15	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<125	U	<1	U	<10	U	<10	JU L	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<125	U	<1	U	<10	U	<10	JU L	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<125	U	<1	U	<10	U	<10	JU L	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<125	U	.94	J IK	<10	U	<10	JU L	< EQL	10	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U	<1	U	<10	U	<10	JU L	< EQL	10	ug/L	ML
	Tetrachloroethylene	94.3	J I	73.5	J K	91.1		96	J L	NDD	10	ug/L	ML
	1,1,1-Trichloroethane	<125	U	<1	U	<10	U	<10	JU L	< EQL	10	ug/L	ML
	Trichloroethylene	2930	J L	2260		2880		3230	J L	NDD	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<40	U	< EQL	1	ug/L	ML
	Nitrate-nitrite as nitrogen	4190		2990		3730		804		< 2400	5	ug/L	EX
	Sodium, total recoverable	3020		2980		3400		3640		< 4600	1	ug/L	ML
	Sulfate	<5000	U	436		219	J I					ug/L	
Radionuclides													
	Gross alpha	.36	UI	2.51		1.74	J I	3.53		< 15	1	pCi/L	GP
	Nonvolatile beta	.78	UI	4.13		3.95		4.52		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	2.65	UI	.93		.9	J I	1.23	J IL	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 6C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>							
N 101169.1 E 46324.1	33.325 Deg N 81.741 Deg W	194 - 189.3 ft msl	343.8000 ft msl	4 " PVC	S	UL							
SAMPLE DATE		02/17/99	08/17/99	02/24/00	08/10/00								
FIELD DATA													
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>								
Water Elevation	223.25	223.36	222.35	221	ft msl								
pH	5.3	5.9	5.4	5.6	pH								
Sp. Conductance	230	224	203	192	uS/cm								
Water temperature	19.5	20.3	19.3	22.4	deg. C								
Alkalinity as CaCO3	12	20	11	1	mg/L								
Turbidity	.7	2.3	.6	1.5	NTU								
Volumes purged	4.52	3.15	2.32	3.58	well volume								
Sampling code													
Synchronous water level	223.3 (03/29/99)	223.3 (09/21/99)	222.2 (03/21/00)	220.4 (09/23/00)	ft msl								
ANALYTICAL DATA													
I. Groundwater Protection Standard													
261 Appendix VIII/264 Appendix IX Hazardous Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	4.7	J I	4.59	J I	4.21	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U	<6.13	JU IV	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<4.2	JU I	<40	U	8.9	J I	NDD	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	.62	J IK	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	58.3		57.8	J K	61.5		61.2		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	11.9	J L	10.9	J K	11.3		11.9		> 5	1	ug/L	ML
II. Monitoring Constituents													
<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable					<200	U	<40	U	< EQL	1	ug/L	ML
+	Nitrate-nitrite as nitrogen					14900		11700		> 2400	5	ug/L	EX
+	Sodium, total recoverable					40000		36900		> 4600	1	ug/L	ML
	Sulfate					16300						ug/L	
Radionuclides													
	Gross alpha					.668	U	.795	U	< EQL	1	pCi/L	GP
	Nonvolatile beta					6.66		4.37		< 50	1	pCi/L	GP
	Radium, total alpha-emitting					.5	J I	.053	JU L	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 7A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>		<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100585.7 E 46726.1	33.324 Deg N 81.739 Deg W	242 - 212	ft msl	344.3000 ft msl	4 " PVC	S	M
SAMPLE DATE		02/05/99	08/25/99	02/03/00	09/02/00		
FIELD DATA							
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>		
Water Elevation	228.05	228.12	227.42	225.62	ft msl		
pH	4.6	5.1	4.6	6	pH		
Sp. Conductance	30	37	40	37	uS/cm		
Water temperature	19.3	19.7	18.2	19.7	deg. C		
Alkalinity as CaCO ₃	3	0	0	5	mg/L		
Turbidity	.3	.5	.7	2	NTU		
Volumes purged	4.65	3.76	3.23	2.52	well volume		
Sampling code							
Synchronous water level	228.2 (03/29/99)	228 (09/21/99)	227.3 (03/21/00)	225.5 (09/23/00)	ft msl		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.89	J I	10		8.54	J I	7.62	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U	<14.7	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<10	U	<20	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	52.3		<50	U	<60	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<10	U	<10	U	<40	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016							<.94	U	< EQL	.940	ug/L	EX
	PCB 1221							<.94	U	< EQL	.940	ug/L	EX
	PCB 1232							<.94	U	< EQL	.940	ug/L	EX
	PCB 1242							<1.9	U	< EQL	.940	ug/L	EX
	PCB 1248							<.94	U	< EQL	.940	ug/L	EX
	PCB 1254							<.94	U	< EQL	.940	ug/L	EX
	PCB 1260							<.94	U	< EQL	.940	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1730		1610		1550		1860	J K	NDD	1	ug/L	EX
+	Sodium, total recoverable	5320		6010		5900		6880		> 4600	1	ug/L	EX
	Sulfate	<1000	U	405		237	J I					ug/L	
Radionuclides													
	Gross alpha	1.15	U	4.78		1.83	J I	2.63		< 15	1	pCi/L	GP
	Nonvolatile beta	-.22	UIJ	3.13		.489	U	1.5	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	3.09	UIJ	1.12		1.7		.722	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 7B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100597.6 E 46718.1	33.324 Deg N 81.739 Deg W	147.50 - 142.7 ft msl	344.1000 ft msl	4 " PVC	S	LL

SAMPLE DATE	02/17/99	08/16/99	02/24/00	08/10/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	207.32	207.45	205.84	204.52	ft msl
pH	5.5	6	5.8	5.6	pH
Sp. Conductance	100	102	93	99	uS/cm
Water temperature	19.5	21.1	19	23.5	deg. C
Alkalinity as CaCO ₃	5	6	11	1	mg/L
Turbidity	1.4	1	1.1	1.2	NTU
Volumes purged	2.93	2.76	2.40	3.09	well volume
Sampling code					
Synchronous water level	207.2 (03/29/99)	207.4 (09/21/99)	205.7 (03/21/00)	204.5 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	53		104		66.3		< 2000	1	ug/L	EX
	Cyanide	<10	U	<10	U			<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<1.6	U V	<5.39	JU IV	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<60	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<5	U	<40	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	1,1-Dichloroethylene	6.77		6.63	J K	6.48		8.3		> 7	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016							<1	U	< EQL	1	ug/L	EX
	PCB 1221							<1	U	< EQL	1	ug/L	EX
	PCB 1232							<1	U	< EQL	1	ug/L	EX
	PCB 1242							<2	U	< EQL	1	ug/L	EX
	PCB 1248							<1	U	< EQL	1	ug/L	EX
	PCB 1254							<1	U	< EQL	1	ug/L	EX
	PCB 1260							<1	U	< EQL	1	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	77.8		68.9	J K	66.1		65		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	1.02		.98	J I	NDD	1	ug/L	EX
	Trichloroethylene	56.1	J L	56.2	J K	50.4		49	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	41.5		<200	U	<200	U	49.2	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	8720		5460		7740		8730		> 2400	5	ug/L	EX
+	Sodium, total recoverable	8080		7750		9200		9890		> 4600	1	ug/L	EX
	Sulfate	<5000	U	3290		3140						ug/L	
Radionuclides													
	Gross alpha	1.09	UI	1.71	J	.89	JU L	2.31	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.22	UI	1.88	J	2.46	J I	3.83		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	2.13	J	1.63		.6	J I	1.05	J IL	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 7C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100609.2 E 46709.1	33.324 Deg N 81.739 Deg W	200.1 - 195.4 ft msl	344.5 ft msl	4 " PVC	S	UL

SAMPLE DATE	02/17/99	08/16/99	02/18/00	08/10/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	222.8	222.45	221.4	220.1	ft msl
pH	4.9	5.4	5.3	5.2	pH
Sp. Conductance	200	200	179	168	uS/cm
Water temperature	19.5	20.8	19.7	22.3	deg. C
Alkalinity as CaCO ₃	1	1	2	1	mg/L
Turbidity	.9	.7	1.9	.6	NTU
Volumes purged	2.75	2.95	2.90	3.67	well volume
Sampling code					
Synchronous water level	222.7 (03/29/99)	222.4 (09/21/99)	221.3 (03/21/00)	219.7 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	30		28.1		27		< 2000	1	ug/L	EX
	Cyanide	<10	U	<10	U			<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<2.14	U V	<4.44	JU	<1.14	JU	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<7.4	JU I	<60	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<5	U	<40	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	1.68	J K	1.88		1.8	J I	NDD	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016							<.98	U	< EQL	.980	ug/L	EX
	PCB 1221							<.98	U	< EQL	.980	ug/L	EX
	PCB 1232							<.98	U	< EQL	.980	ug/L	EX
	PCB 1242							<2	U	< EQL	.980	ug/L	EX
	PCB 1248							<.98	U	< EQL	.980	ug/L	EX
	PCB 1254							<.98	U	< EQL	.980	ug/L	EX
	PCB 1260							<.98	U	< EQL	.980	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	56.2		56.9	J K	62.1		60		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	18.4	J L	20	J K	20.9		19	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	125		167	J	<200	U	135	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	26700		13600		20200		17000		> 2400	5	ug/L	EX
+	Sodium, total recoverable	31000		27500		29000		24900		> 4600	1	ug/L	EX
	Sulfate	<5000	U	364	J	<200	U					ug/L	
Radionuclides													
	Gross alpha	7.79	UI	7.8	J	3.07	J L	4.46		< 15	1	pCi/L	GP
	Nonvolatile beta	67.4		53.21	J	30.6		32.2		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	7.3	UIJ	3.42		1.8		2.21	J L	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 8A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100815.1 E 47293.2	33.326 Deg N 81.738 Deg W	242.4 - 212.4 ft msl	344.2000 ft msl	4 " PVC	S	M
SAMPLE DATE		02/17/99	08/30/99	02/18/00		
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	229.4	228.99	168.17	Not Available	ft msl	
pH	4.6	4.8	5		pH	
Sp. Conductance	41	39	33		uS/cm	
Water temperature	20.1	19.8	18.5		deg. C	
Alkalinity as CaCO ₃		0	0		mg/L	
Turbidity	.3	2	.8		NTU	
Volumes purged	3.81	3.26	-1.0		well volume	
Sampling code						
Synchronous water level	229.3 (03/29/99)	228.9 (09/21/99)	168 (03/21/00)	()	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	6.5	J I	6.18	J I					ug/L	
	Cyanide	<10	U	<10	U	<20	U					ug/L	
	Lead, total recoverable	<100	U	<10	U	<4.64	JU					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<60	U					ug/L	
	Selenium, total recoverable	<200	U	<3.8	JU I	<40	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U					ug/L	
	1,1-Dichloroethane	<5	U	<1	U	<1	U					ug/L	
	1,1-Dichloroethylene	<5	U	.59	J IK	<1	U					ug/L	
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U					ug/L	
	Tetrachloroethylene	60.9		53.9	J K	36.7						ug/L	
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U					ug/L	
	Trichloroethylene	19	J L	16.2	J K	5.96						ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	19.6	J	544		<200	U					ug/L	
	Nitrate-nitrite as nitrogen	2510		1290		2790						ug/L	
	Sodium, total recoverable	3080		2780		3500						ug/L	
	Sulfate	<5000	U	621		569						ug/L	
Radionuclides													
	Gross alpha	3.31		10.1		3.17						pCi/L	
	Nonvolatile beta	-1.9	UI	9.71		2.11	J I					pCi/L	
	Radium, total alpha-emitting	2.61	UI	1.7		2.4	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 8B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100805.8 E 47281.9	33.326 Deg N 81.738 Deg W	150.8 - 146.1 ft msl	343.9000 ft msl	4 " PVC	S	LL
SAMPLE DATE		02/17/99	08/16/99	02/18/00	08/09/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	208.42	209	207.21	205.85	ft msl	
pH	4.9	5.6	5.6	5.3	pH	
Sp. Conductance	27	28	29	27	uS/cm	
Water temperature	19.8	22.2	18.5	21.8	deg. C	
Alkalinity as CaCO ₃	1	4	3	1	mg/L	
Turbidity	.3	.9	1.2	.7	NTU	
Volumes purged	2.48	1.97	2.53	2.89	well volume	
Sampling code						
Synchronous water level	209 (03/29/99)	208.9 (09/21/99)	207.1 (03/21/00)	206 (09/23/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	17		26.4		16.2		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<1.92	U V	<20	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<7.8	JU I	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<5	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	4.74	J I	4.72	J K	5.38		6.83		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	45.6	J L	46.8	J K	47.5		45.1		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<7.76	U V	< EQL	1	ug/L	ML
	Nitrate-nitrite as nitrogen	1030		1070		1140		1650		< 2400	5	ug/L	EX
	Sodium, total recoverable	1920		2310		2600		2420		< 4600	1	ug/L	ML
	Sulfate	<5000	U	654	J	426						ug/L	
Radionuclides													
	Gross alpha	.29	UI	1.41		.521	JU L	.79	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.21	UI	3.17	J	1.01	U	1.23	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1.11		.34	U	0	U	.111	JU L	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 8C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100793.2 E 47264.6	33.326 Deg N 81.738 Deg W	195.9 - 191.2 ft msl	344 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/17/99 08/16/99 02/24/00 08/09/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	220.1	219.88	218.74	217.55	ft msl
pH	4.1	4.8	5.1	4.5	pH
Sp. Conductance	430	537	568	591	uS/cm
Water temperature	19.6	21.1	18.8	21.8	deg. C
Alkalinity as CaCO ₃		0	0	0	mg/L
Turbidity	.4	.6	.9	.5	NTU
Volumes purged	3.03	3.53	3.18	2.74	well volume
Sampling code					
Synchronous water level	220 (03/29/99)	219.8 (09/21/99)	218.7 (03/21/00)	219.4 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	130		137		136		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<100	U	<5.91	JU IV	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	JU	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	.49	J I	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	8.56		<5	U	7.96		5.77		< 7	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016			<1.9	U							ug/L	
	PCB 1221			<1.9	U							ug/L	
	PCB 1232			<.96	U							ug/L	
	PCB 1242			<.96	U							ug/L	
	PCB 1248			<.96	U							ug/L	
	PCB 1254			<.96	U							ug/L	
	PCB 1260			<.96	U							ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	76.1		69		68.1		64.5		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	1.7	J I	1.62		1.22		< 200	1	ug/L	ML
+	Trichloroethylene	48.5	J L	46		43.4		34.6		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	143		180	J	260		229		> 100	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	39800		45000		59000		63300		> 2400	20	ug/L	EX
+	Sodium, total recoverable	31300		34600		51000		75700		> 4600	1	ug/L	ML
	Sulfate	<5000	U	404	J	343	J I					ug/L	
Radionuclides													
	Gross alpha	4.59		20.82		6.61	J L	14		< 15	1	pCi/L	GP
+	Nonvolatile beta	44.9		120.46	J	84		75.4		> 50	1	pCi/L	GP
	Radium, total alpha-emitting	3.69		2.07		4.2		7.19	J L	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 13A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101725.7 E 47525.4	33.328 Deg N 81.739 Deg W	136.40 - 131.4 ft msl	346.7000 ft msl	4 " PVC	S	LL

SAMPLE DATE	02/19/99	08/17/99	03/15/00	08/18/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	207.32	209.75	211.17	205.5	ft msl
pH	4.6	5.2	5.2	5.2	pH
Sp. Conductance	24	32	30	35	uS/cm
Water temperature	20.2	22.5	20	24.1	deg. C
Alkalinity as CaCO ₃	1	0	2	0	mg/L
Turbidity	.6	.6	.9	.5	NTU
Volumes purged	2.44	2.44	3.01	2.95	well volume
Sampling code					
Synchronous water level	209.7 (03/29/99)	209.7 (09/21/99)	211 (03/21/00)	205.1 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.52	J I	7.9	J I	7.37	J I	7.92	J I	NDD	1	ug/L	ML
	Cyanide	<10	JU L	<10	U							ug/L	
	Lead, total recoverable	<100	U	<100	U	<20	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<200	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<25	U	<50	U	11.3		<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<25	U	<50	U	<5	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<25	U	<50	U	<5	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<50	U	<5	U	<5	U	< EQL	5	ug/L	ML
	PCB 1016			<1.9	U							ug/L	
	PCB 1221			<1.9	U							ug/L	
	PCB 1232			<.96	U							ug/L	
	PCB 1242			<.96	U							ug/L	
	PCB 1248			<.96	U							ug/L	
	PCB 1254			<.96	U							ug/L	
	PCB 1260			<.96	U							ug/L	
	1,1,2,2-Tetrachloroethane	<25	U	<50	U	<5	U	<5	U	< EQL	5	ug/L	ML
	Tetrachloroethylene	41.1		29	J I	15.8		45.1	J K	NDD	5	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<50	U	<5	U	<5	U	< EQL	5	ug/L	ML
	Trichloroethylene	904		1000		1210		1180	J K	NDD	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	33.1	J I	NDD	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	1840		1860		1830		2410		> 2400	1	ug/L	EX
	Sodium, total recoverable	2090		2400		2300		2270		< 4600	1	ug/L	ML
	Sulfate	<5000	U	587		551						ug/L	
Radionuclides													
	Gross alpha	-1.9	UI	2.09		.386	U	.725	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	-1.4	UI	2.92		1.2	U	1.79	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.26		.09	UI	.4	U	.538	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 13CC

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101728.8 E 47525.7	33.328 Deg N 81.739 Deg W	196.8 - 192.0 ft msl	346.9000 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/19/99 08/10/99 03/17/00 08/18/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	224.46	224.45	223.56	221.99	ft msl
pH	4.7	5.5	6.7	5.2	pH
Sp. Conductance	70	82	125	190	uS/cm
Water temperature	20.9	24.5	16.5	24.6	deg. C
Alkalinity as CaCO ₃	1	4	3	0	mg/L
Turbidity	1.3	.7	1	.4	NTU
Volumes purged	2.84	0	.097	2.30	well volume
Sampling code		NX	NX		
Synchronous water level	224.4 (03/29/99)	224.4 (09/21/99)	223.4 (03/21/00)	221.7 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	<10	U	<15	U	3.92	J I	NDD	1	ug/L	ML
	Cyanide	<10	JU L	<10	U							ug/L	
	Lead, total recoverable	<100	U	10		18.1	J I	<7.75	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	2.09		2.86		2.11		< 7	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	12		12.9		14.9		14.7		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	1.91		2.31		2.12		< 200	1	ug/L	ML
+	Trichloroethylene	11.6		10.8		9.88		13.5		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	114		181	J	98	J I	67.8		< 100	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	6910		4960		6100		19200		> 2400	5	ug/L	EX
+	Sodium, total recoverable	15800		15600		19000		34000		> 4600	1	ug/L	ML
	Sulfate	5420		4450		4130						ug/L	
Radionuclides													
	Gross alpha	-.79	UI	1.56		2.35		1.51	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	2.72		5		2.07	J I	6.53		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.48		.14	UI	0	U	.461	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 13D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101778.1 E 47517.5	33.328 Deg N 81.739 Deg W	231.5 - 211.5 ft msl	347.6000 ft msl	4 " PVC	S	M

SAMPLE DATE 02/24/99 08/31/99 02/29/00 09/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	228.04	227.76	226.73	225.1	ft msl
pH	5	6.4	6.7	6.2	pH
Sp. Conductance	240	319	346	294	uS/cm
Water temperature	11.5	24.1	19.4	24.2	deg. C
Alkalinity as CaCO ₃	34	60	14	18	mg/L
Turbidity	14.6	11.6	5.7	10.2	NTU
Volumes purged	.466	.095	0		well volume
Sampling code	X	NX	NX		
Synchronous water level	227.9 (03/29/99)	227.7 (09/21/99)	226.6 (03/21/00)	225.2 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.88	J I	15		18		28.6		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<20	U	5.3	J I	NDD	1	ug/L	ML
	Lead, total recoverable	<100	U	<10	U	8.77	J I	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	3.45	J I	4.03	J K	3.12	J K	2.18	J L	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U			<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	29.1		26.2	J K	22	J K	17.6	J L	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	4.77	J I	4.61	J K	3.57		2.4	J L	NDD	1	ug/L	ML
	Trichloroethylene	13.9		10.2	J K	8.61	J K	6.7	J L	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	763		77.9	J	165		<40	U	< EQL	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	30700		21400		23700		23400		> 2400	5	ug/L	EX
+	Sodium, total recoverable	66800		69400		61000		8750		> 4600	1	ug/L	ML
	Sulfate	5490		4280		4960						ug/L	
Radionuclides													
	Gross alpha	.93	UI	4.5		1.02	U	.898	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	12.1		13.04		3.48		8.54		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.14	J	.42	UI	.2	U	.507	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 39A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100837.6 E 48367.3	33.328 Deg N 81.735 Deg W	111.7 - 106.1 ft msl	341.6000 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/08/99 08/06/99 01/31/00 08/24/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	208.96	209.44	207.84	206.95	ft msl
pH	4.8	4.8	4.8	4.9	pH
Sp. Conductance	27	27	28	27	uS/cm
Water temperature	20	21.5	19.6	21.3	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	1.4	.4	.5	.3	NTU
Volumes purged	2.14	2.17	.015	2.22	well volume
Sampling code			NX		
Synchronous water level	208.9 (03/26/99)	208.8 (09/22/99)	207.8 (03/22/00)	206.6 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	6.6	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<100	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<200	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016			<2	U							ug/L	
	PCB 1221			<2	U							ug/L	
	PCB 1232			<1	U							ug/L	
	PCB 1242			<1	U							ug/L	
	PCB 1248			<1	U							ug/L	
	PCB 1254			<1	U							ug/L	
	PCB 1260			<1	U							ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	3.35	J I	3.1	J I	3.63	J L	1.8	J I	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	32.4		695		<200	U	52.8	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	163		735		74.8	J I					ug/L	
	Sodium, total recoverable	1720		4070		1600		1700		< 4600	1	ug/L	EX
	Sulfate	4850	J	3930		4350						ug/L	
Radionuclides													
	Gross alpha	.04	UI	2.93		1.81	J I	.833	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	-.27	UI	6.04		3.28		1.67	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	9.12	UIJ	1.04		2.8		.826	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 59D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102182.2 E 48314.8	33.331 Deg N 81.738 Deg W	229.3 - 209.9 ft msl	359.3000 ft msl	4 " PVC	S	M
SAMPLE DATE		03/05/99	09/27/99	03/23/00	09/14/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	229.47	229.11	227.97	226.9	ft msl	
pH	4.8	4.9	5.2	5.3	pH	
Sp. Conductance	32	57	32	39	uS/cm	
Water temperature	19.8	22.7	19.7	22.1	deg. C	
Alkalinity as CaCO ₃	2	0	1	0	mg/L	
Turbidity	6.8	2.5	14.5	2.8	NTU	
Volumes purged	2.52	.080	.427	4.54	well volume	
Sampling code		NX	NX			
Synchronous water level	229.5 (03/29/99)	229.1 (09/21/99)	228.1 (03/21/00)	226.7 (09/23/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	14		31.4		13.2	J I	10.7	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	JU Q	<35.1	JU LV	<20	U	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<10	U	10.4	J I	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<2500	U	3.93		<200	U	<400	JU L	< EQL	400	ug/L	ML
	1,1-Dichloroethane	<2500	U	<1	U	<200	U	<400	JU L	< EQL	400	ug/L	ML
	1,1-Dichloroethylene	<2500	U	3.43		<200	U	<400	JU L	< EQL	400	ug/L	ML
	trans-1,2-Dichloroethylene	<2500	U	<1	U	<200	U	<400	JU L	< EQL	400	ug/L	ML
	PCB 1016	<2	U	<2	U	<.99	U	<.948	JU L	< EQL	1	ug/L	ML
	PCB 1221	<2	U	<2	U	<.99	U	<.948	JU L	< EQL	1	ug/L	ML
	PCB 1232	<1	U	<.99	U	<.99	U	<.948	JU L	< EQL	1	ug/L	ML
	PCB 1242	<1	U	<.99	U	<.99	U	<.948	JU L	< EQL	1	ug/L	ML
	PCB 1248	<1	U	<.99	U	<.99	U	<.948	JU L	< EQL	1	ug/L	ML
	PCB 1254	<1	U	<.99	U	<.99	U	<.948	JU L	< EQL	1	ug/L	ML
	PCB 1260	<1	U	<.99	U	<.99	U	<.948	JU L	< EQL	1	ug/L	ML
	1,1,2,2-Tetrachloroethane	<2500	U	9.28		<200	U	<400	JU L	< EQL	400	ug/L	ML
	Tetrachloroethylene	66700		57300		127000	J K	170000	J L	NDD	400	ug/L	ML
	1,1,1-Trichloroethane	<2500	U	4.12		<200	U	<400	JU L	< EQL	400	ug/L	ML
	Trichloroethylene	7550		11000		18000	J K	14000	J L	NDD	400	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	265		162	J	130	J IK	97.3		< 100	1	ug/L	ML
	Nitrate-nitrite as nitrogen	2420		2030		4360		2320		< 2400	5	ug/L	EX
	Sodium, total recoverable	2740		2980		4010		4370		< 4600	1	ug/L	ML
	Sulfate	<5000	U	215	J	629						ug/L	
Radionuclides													
	Gross alpha	5.14		5.98		6.59		2.05		< 15	1	pCi/L	GP
	Nonvolatile beta	1.94	UI	5.62		2.98		.944	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	2.44	UIJ	1.67		1	J I	2.78		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 62B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101865.3 E 47906.8	33.329 Deg N 81.739 Deg W	141 - 136.3 ft msl	349.1000 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/08/99 09/13/99 03/14/00 08/23/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	208.05	207.98	212.89	206.85	ft msl
pH	5.9	6.3	6	5.8	pH
Sp. Conductance	43	37	32	29	uS/cm
Water temperature	19.3	19.4	19.5	21.4	deg. C
Alkalinity as CaCO3	15	10	16	6	mg/L
Turbidity	.9	.5	.8	.9	NTU
Volumes purged	2.19	2.50	2.61	2.71	well volume
Sampling code					
Synchronous water level	210.8 (03/29/99)	207.9 (09/21/99)	212.8 (03/21/00)	207.1 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	23.9		18.7		16		16.7		< 2000	1	ug/L	ML
	Cyanide	<15.2	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U	<20	U	<5.34	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<40	U	<13.6	U V	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<.35	U V	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	17.4		18.8		14.6	J K	21.8	J L	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	41.2		49.5		38.2	J K	39.1	J L	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	45.3		<200	U	<200	U	<91.6	JU L	< EQL	10	ug/L	ML
	Nitrate-nitrite as nitrogen	845		1550		570		789		< 2400	5	ug/L	EX
	Sodium, total recoverable	1970		2470		2400		2450	J I	NDD	10	ug/L	ML
	Sulfate	<5000	U	507		560						ug/L	
Radionuclides													
	Gross alpha	.2	UI	.9		27		.622	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.34	UI	1.97	J	6.33	J K	1.48	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	8.72	J	.65		.2	U	.164	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 62C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101857.2 E 47895	33.329 Deg N 81.739 Deg W	190 - 185.2 ft msl	349.1000 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/24/99 09/13/99 03/14/00 08/23/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	222.62	222.22	222.94	221.1	ft msl
pH	5	5.3	5.5	5.6	pH
Sp. Conductance	77	69	62	62	uS/cm
Water temperature	18.9	19	19.4	21.1	deg. C
Alkalinity as CaCO3	1	4	5	3	mg/L
Turbidity	.6	.4	.3	.8	NTU
Volumes purged	2.62	3.27	3.09	3.42	well volume
Sampling code					
Synchronous water level	223 (03/29/99)	222.1 (09/21/99)	222.8 (03/21/00)	220.5 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.79	J I	4.2	J I	3.74	J I	3.73	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U	<20	U	<6.26	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<10	U	<40	U	<9.01	U V	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<.42	U V	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	.93	J I	.81	J I	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	31.2		21.6		17.6		20.5	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	29.4		25.3		20.8		21.2	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	48.9		<200	U	<200	U	<40	JU L	< EQL	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	684		496	J	4400		4000		> 2400	5	ug/L	EX
+	Sodium, total recoverable	15200		14200		11700		10200		> 4600	1	ug/L	ML
	Sulfate	4220	J	5910		5000						ug/L	
Radionuclides													
	Gross alpha	.63	UI	.8		17.9		.461	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.62		.33	UIJ	4.33	J K	.634	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	5.44	J	.44	UI	-.3	U	.203	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 62D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101849 E 47882.9	33.329 Deg N 81.739 Deg W	231.9 - 212.4 ft msl	349.5 ft msl	4 " PVC	S	M
SAMPLE DATE		02/24/99	09/13/99	03/17/00	08/23/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	228.79	228.35	227.6	226.35	ft msl	
pH	11.4	11.1	10.7	9.9	pH	
Sp. Conductance	860	730	766	599	uS/cm	
Water temperature	16.9	19.9	15.9	22.5	deg. C	
Alkalinity as CaCO ₃	131	133	143	102	mg/L	
Turbidity	1	.9	2.7	5.8	NTU	
Volumes purged	.094	.097	.102	.222	well volume	
Sampling code	X	NX	NX	NX		
Synchronous water level	228.8 (03/29/99)	228.3 (09/21/99)	227.5 (03/21/00)	226 (09/23/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	47.7		46.3		37.5		42.8		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<8.6	JU LV	<20	U	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<10	U	<20	U	<5	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<7.69	JU	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<10	U	<40	U	<14.5	U V	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	1.97	J I	1.53		1.51		1.31	J K	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	44.9		35.9		32.7		34.2	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	2.43	J I	1.71		1.35		1.3	J K	NDD	1	ug/L	ML
	Trichloroethylene	13.4		10.9		8.51		14.9	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	1540		1510		1280		2220	J L	NDD	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	10500		12600		13000		14300		> 2400	5	ug/L	EX
+	Sodium, total recoverable	43100		53400		45400		32200		> 4600	1	ug/L	ML
	Sulfate	5790		5190		4600						ug/L	
Radionuclides													
	Gross alpha	2.84	UI	1.6		.646	U	.371	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	10.4		17.27	J	15.5	J K	.634	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	2.91	J	-12	UI	.1	U	.158	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 63B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101184.4 E 47861	33.328 Deg N 81.737 Deg W	140.9 - 136.2 ft msl	346.9000 ft msl	4 " PVC	S	LL

SAMPLE DATE	03/04/99	09/13/99	03/10/00	09/26/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	208.5	208.13	207.55	206.92	ft msl
pH	5	5.2	6.1	7	pH
Sp. Conductance	92	88	79	68	uS/cm
Water temperature	17.4	18.8	19.1	20.1	deg. C
Alkalinity as CaCO ₃	1	1	3	1	mg/L
Turbidity	.2	.2	.2	1.7	NTU
Volumes purged	2.56	2.47	3.39	1.99	well volume
Sampling code					
Synchronous water level	210.1 (03/29/99)	208.1 (09/21/99)	207.4 (03/21/00)	206.7 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	24.3		24.2								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	6.5		<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	2.61	J K	<5	U	1.5	J I	NDD	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<5	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	167		170	J K	125		100		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<5	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	426		545		684		540	L	> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	31.5	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	5170		6990		7800						ug/L	
+	Sodium, total recoverable	3870		5950		6660		4920		> 4600	1	ug/L	EX
	Sulfate	<5000	U	359	J	120	J I					ug/L	
Radionuclides													
	Gross alpha	1.16	UI	3.36		1.84						pCi/L	
	Nonvolatile beta	1.27	UI	7.29	J	3.91	J K					pCi/L	
	Radium, total alpha-emitting	1.46	UIJ	.93		.9	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 63C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101174.6 E 47849.2	33.328 Deg N 81.737 Deg W	195.8 - 191.1 ft msl	347 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/04/99 09/13/99 03/10/00 09/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	220.3	219.73	219.04	217.92	ft msl
pH	5.4	5.2	5.8	5.4	pH
Sp. Conductance	38	38	36	37	uS/cm
Water temperature	17.2	18.9	18.5	19.4	deg. C
Alkalinity as CaCO ₃	1	1	2	6	mg/L
Turbidity	.2	.7	.4	1	NTU
Volumes purged	3.23	3.08	3.49	4.15	well volume
Sampling code					
Synchronous water level	220.4 (03/29/99)	219.7 (09/21/99)	219 (03/21/00)	217.9 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.14	J I	7.13	J I	6.18	J I	6.6	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U			<10	JU Q	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<10	U	<20	U	3.34	J I	NDD	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<60	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<10	U	<10	U	<40	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<10	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<10	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<10	U	<1	U	.6	J IK	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<10	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016							<.95	U	< EQL	.950	ug/L	EX
	PCB 1221							<.95	U	< EQL	.950	ug/L	EX
	PCB 1232							<.95	U	< EQL	.950	ug/L	EX
	PCB 1242							<1.9	U	< EQL	.950	ug/L	EX
	PCB 1248							<.95	U	< EQL	.950	ug/L	EX
	PCB 1254							<.95	U	< EQL	.950	ug/L	EX
	PCB 1260							<.95	U	< EQL	.950	ug/L	EX
	1,1,2,2-Tetrachloroethane	<10	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	168		128		155	J K	160		> 5	5	ug/L	EX
	1,1,1-Trichloroethane	<10	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	30.3		22.4		22.6	J K	24	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	11.1	J	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2640		1900		2400		2280		< 2400	5	ug/L	EX
	Sodium, total recoverable	3060		3230		2950		3180		< 4600	1	ug/L	EX
	Sulfate	<5000	U	427		250						ug/L	
Radionuclides													
	Gross alpha	1.44		2.87		1.05	J I	2.09	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	-.65	UI	2.57	J	1.78	J IK	2.77	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1.92	UIJ	.5	UI	.5	U	1.16	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 63D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101165.2 E 47837.4	33.328 Deg N 81.737 Deg W	232.8 - 212.8 ft msl	346.8000 ft msl	4 " PVC	S	M
SAMPLE DATE		03/04/99	09/13/99	03/10/00	09/26/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	229.3	228.93	227.95	226.38	ft msl	
pH	8	8.4	9.1	9.6	pH	
Sp. Conductance	92	106	97	103	uS/cm	
Water temperature	15.6	20	23.3	24.2	deg. C	
Alkalinity as CaCO ₃	54	46	47	22	mg/L	
Turbidity	4	6.1	14.9	12.8	NTU	
Volumes purged	.187	.096	1.33	2.16	well volume	
Sampling code	X	NX	NX			
Synchronous water level	229.4 (03/29/99)	228.9 (09/21/99)	227.8 (03/21/00)	226.5 (09/23/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.3		8.1	J I	12	J I	6.92	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U	<8.6	JU ILV	<10	U	<EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<10	U	<7.48	JU IV	<10	U	<EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<60	U	<7.09	JU	<EQL	1	ug/L	EX
	Selenium, total recoverable	<10	U	<10	U	<40	U	<10	U	<EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<25	U	<1	U	<1	U	<12	U	<EQL	2.5	ug/L	EX
	1,1-Dichloroethane	<25	U	<1	U	<1	U	<12	U	<EQL	2.5	ug/L	EX
	1,1-Dichloroethylene	<25	U	<1	U	<1	U	<12	U	<EQL	2.5	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<1	U			<12	U	<EQL	2.5	ug/L	EX
	PCB 1016							<1	U	<EQL	1	ug/L	EX
	PCB 1221							<1	U	<EQL	1	ug/L	EX
	PCB 1232							<1	U	<EQL	1	ug/L	EX
	PCB 1242							<2	U	<EQL	1	ug/L	EX
	PCB 1248							<1	U	<EQL	1	ug/L	EX
	PCB 1254							<1	U	<EQL	1	ug/L	EX
	PCB 1260							<1	U	<EQL	1	ug/L	EX
	1,1,2,2-Tetrachloroethane	<25	U	<1	U	<1	U	<12	U	<EQL	2.5	ug/L	EX
	Tetrachloroethylene	283		250		220		130	J K	NDD	2.5	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<1	U	<1	U	<12	U	<EQL	2.5	ug/L	EX
	Trichloroethylene	40.8		25.9		20.2		11	J IK	NDD	2.5	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	1200		1020		688		410		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	4050		2770		2500		1850		< 2400	5	ug/L	EX
	Sodium, total recoverable	4690		4070		2950		2540		< 4600	1	ug/L	EX
	Sulfate	<5000	U	1440		730						ug/L	
Radionuclides													
	Gross alpha	.12	UI	2.72		.634	U	1.02	U	<EQL	1	pCi/L	GP
	Nonvolatile beta	.31	UI	12.99	J	1.4	J IK	1.06	U	<EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1.39	UIJ	.53		.2	U	.99	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 64C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101842.9 E 46589.2	33.327 Deg N 81.742 Deg W	181.2 - 176.5 ft msl	348.4000 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/09/99 03/15/00 08/22/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	222.55	<i>Not Available</i>	221.78	219.8	ft msl
pH	4		4.7	4.7	pH
Sp. Conductance	190		187	199	uS/cm
Water temperature	18.4		19.3	20.2	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	.2		.3	.7	NTU
Volumes purged	4.46		2.71	2.94	well volume
Sampling code					
Synchronous water level	222.5 (03/29/99)	222.4 (09/21/99)	192.3 (03/21/00)	219.8 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	30.1				29.6		31.7		< 2000	1	ug/L	ML
	Cyanide	<10	U									ug/L	
	Lead, total recoverable	<100	U			<8.29	JU IV	<5.55	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U			<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U			<40	U	<8.41	U V	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<50	U			<1	JU	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<50	U			.93	J I	.96	J IK	NDD	1	ug/L	ML
	1,1-Dichloroethylene	<50	U			26	J	22	J K	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U			<1	JU	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U			<1	JU	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	259				217	J	218	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<50	U			2.8	J	2.42	J K	NDD	1	ug/L	ML
	Trichloroethylene	34.9	J I			27.1	J	25.7	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	206		230				604	J L	NDD	3	ug/L	ML
+	Nitrate-nitrite as nitrogen	20800		16800				20000		> 2400	5	ug/L	EX
+	Sodium, total recoverable	13000		14400				14500		> 4600	3	ug/L	ML
	Sulfate	<5000	U	<400	U							ug/L	
Radionuclides													
	Gross alpha	5.47		11.05				4.5		< 15	1	pCi/L	GP
	Nonvolatile beta	8.53		15.86				11.6		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	5.98	J	1.96				2.79		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)**WELL MSB 64D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101854.8 E 46598.5	33.327 Deg N 81.742 Deg W	230.1 - 210.1 ft msl	348.6000 ft msl	4 " PVC	S	M

SAMPLE DATE	02/12/99	08/25/99	02/15/00	09/20/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	226.7	226.75	225.78	224.1	ft msl
pH	5	5.7	5.8	5.8	pH
Sp. Conductance	140	102	94	80	uS/cm
Water temperature	19.6	19.8	19.2	21.3	deg. C
Alkalinity as CaCO3	21	33	15	13	mg/L
Turbidity	1.5	1.1	.9	1.9	NTU
Volumes purged	4.09	4.36	3.64	1.22	well volume
Sampling code					
Synchronous water level	226.7 (03/29/99)	226.7 (09/21/99)	225.3 (03/21/00)	224.2 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	12		11.6	J I	10.5	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<3.8	JU I	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016			<1.8	U							ug/L	
	PCB 1221			<1.8	U							ug/L	
	PCB 1232			<.92	U							ug/L	
	PCB 1242			<.92	U							ug/L	
	PCB 1248			<.92	U							ug/L	
	PCB 1254			<.92	U							ug/L	
	PCB 1260			<.92	U							ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	17.2	J I	<40	U	< EQL	1	ug/L	ML
	Nitrate-nitrite as nitrogen	2550		1650		1890		1600		< 2400	5	ug/L	EX
+	Sodium, total recoverable	11000		15300		21000		12900		> 4600	1	ug/L	ML
	Sulfate	<5000	U	3380		7700						ug/L	
Radionuclides													
	Gross alpha	1.14	UI	.34	UI	.416	U	1.51	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	5.94		2.7	U	2	J I	3.28	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	2.7	J	.5		.4	J I	.352	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-3. Groundwater Monitoring Results for Background Wells, M-Area HWMF

WELL MSB 29B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107319.3 E 51217.5	33.347 Deg N 81.74 Deg W	151.7 - 145.1 ft msl	365 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/05/99 08/25/99 02/15/00 09/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	223.4	223.01	222.56	229.24	ft msl
pH	4.9	4.8	5.6	5.5	pH
Sp. Conductance	31	29	28	33	uS/cm
Water temperature	18.5	19.5	16.9	19.8	deg. C
Alkalinity as CaCO3		0	1	1	mg/L
Turbidity	.3	.2	1.1	1.8	NTU
Volumes purged	2.32	2.90	.020	2.23	well volume
Sampling code			NX		
Synchronous water level	223.6 (03/26/99)	222.9 (09/22/99)	222.4 (03/23/00)	220.9 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	7.5	J I	7.35	J I	7.98	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable			<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	6	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	88.8		<200	U	<200	U	59.5	J I	NDD	1	ug/L	EX
	Chloride	2820		2770		2540		2720		< 4200	1	ug/L	EX
	Chromium, total recoverable	6	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Cobalt, total recoverable	6	U	<20	U	<20	U					ug/L	
	Copper, total recoverable	6	U	<20	U	<20	U					ug/L	
	Fluoride	<100	U	<200	U	<200	U	<100	U	< EQL	1	ug/L	EX
	Manganese, total recoverable	2	J	1.77	J	<1.4	U V	1.66	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<.2	U	<.5	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1510		1360		1460		1420		< 2400	5	ug/L	EX
	Sodium, total recoverable	2490		2440		2600		2660		< 4600	1	ug/L	EX
	Sulfate	<5000	U	469		<400	U	1160		< 3000	1	ug/L	EX
	Total phosphates (as P)	<50	U	<2500	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
	Uranium, total recoverable												
	Zinc, total recoverable	9.8	J	<20	U	<20	U					ug/L	
Radionuclides													
	Gross alpha	5.3		2.02		.898	U					pCi/L	
	Nonvolatile beta	3.06		.33	UI	1.28	U					pCi/L	
	Radium, total alpha-emitting	1.4		.72		1.5	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-3. Groundwater Monitoring Results for Background Wells, M-Area HWMF (Cont.)
WELL MSB 29C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107315 E 51206.6	33.347 Deg N 81.74 Deg W	179.7 - 174.1 ft msl	365 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/05/99 08/12/99 02/15/00 08/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	229.5	229.54	228.47	227.41	ft msl
pH	5	4.7	5.5	4.9	pH
Sp. Conductance	31	29	28	29	uS/cm
Water temperature	18.5	19.8	18.9	20.7	deg. C
Alkalinity as CaCO3		0	2	0	mg/L
Turbidity	.2	.3	1.1	.9	NTU
Volumes purged	2.56	2.81	5.39	2.78	well volume
Sampling code					
Synchronous water level	229.8 (03/26/99)	229.5 (09/22/99)	228.4 (03/23/00)	NDD(216.9) (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	5.9	J I	6	J I	5.96	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<2.27	U V	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable			<2	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	18	J	<200	U	77	J I	53.7	J I	NDD	1	ug/L	EX
	Chloride	2450		2810		2600		2800		< 4200	1	ug/L	EX
	Chromium, total recoverable	1	J	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Cobalt, total recoverable	<5	U	<20	U	<20	U					ug/L	
	Copper, total recoverable	2.1	J	13.9	J	<20	U					ug/L	
	Fluoride	<100	U	<200	U	<200	U	<100	U	< EQL	1	ug/L	EX
	Manganese, total recoverable	2.2	J	1.77	J	1.9	J I	2.26	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<.2	U	<.5	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1850		1350		1440		1270		< 2400	5	ug/L	EX
	Sodium, total recoverable	2320		2470		2500		2650		< 4600	1	ug/L	EX
	Sulfate	<5000	U	366	J	535		1290		< 3000	1	ug/L	EX
	Total phosphates (as P)	8	J	<2500	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
	Uranium, total recoverable												
	Zinc, total recoverable	25.1		<20	U	8.8	J I					ug/L	
Radionuclides													
	Gross alpha	4.44	UI	3.73		1.28	J IK					pCi/L	
	Nonvolatile beta	5.57		3.85		2.58	J I					pCi/L	
	Radium, total alpha-emitting	1.96	J	.34	UI	.5	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-3. Groundwater Monitoring Results for Background Wells, M-Area HWMF (Cont.)
WELL MSB 29D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107323.3 E 51226.9	33.347 Deg N 81.74 Deg W	227.6 - 207.0 ft msl	364.9000 ft msl	4 " PVC	S	M

SAMPLE DATE 02/05/99 08/12/99 02/16/00 09/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.6	231.82	230.59	229.24	ft msl
pH	5.1	4.7	5.6	5.5	pH
Sp. Conductance	32	29	30	33	uS/cm
Water temperature	17.8	19.8	18.3	19.8	deg. C
Alkalinity as CaCO3		1	1	0	mg/L
Turbidity	.5	.3	1.2	1.8	NTU
Volumes purged	2.88	2.41	3.32	8.51	well volume
Sampling code					
Synchronous water level	231.9 (03/26/99)	231.8 (09/22/99)	230.4 (03/23/00)	229.2 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	9.1	J I	<8.64	U V	11.5		< 2000	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<4.14	U V	11.2		3.11	J I	NDD	1	ug/L	EX
	Nickel, total recoverable	<50	U	<9.5	JU I	<10.9	JU V	<5.27	JU	< EQL	1	ug/L	EX
	Selenium, total recoverable			<2	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	16.9	J	<200	U	<200	U	<50.1	U V	< EQL	1	ug/L	EX
	Chloride	3610		3450	J	3340		3010		< 4200	1	ug/L	EX
	Chromium, total recoverable	<3	U	6.18	J	<10	U	<3.08	JU	< EQL	1	ug/L	EX
	Cobalt, total recoverable	<5	U	<20	U	<20	U					ug/L	
	Copper, total recoverable	7.9		17.4	J	19	J I					ug/L	
	Fluoride	<100	U	188	J	<200	U	<100	U	< EQL	1	ug/L	EX
	Manganese, total recoverable	5.1		8.76	J	14		1.38	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	.33		<.5	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	1020		867		1400		3340		> 2400	5	ug/L	EX
	Sodium, total recoverable	2260		2700		3400		3830		< 4600	1	ug/L	EX
	Sulfate	562	J	356	J	647		862		< 3000	1	ug/L	EX
	Total phosphates (as P)	<50	U	2500	J	<2500	U	<2500	U	< EQL	5	ug/L	EX
	Uranium, total recoverable												
	Zinc, total recoverable	14.3		7.82	J	7.5	J I					ug/L	
Radionuclides													
	Gross alpha	5.06		28.5		12.4	J K					pCi/L	
	Nonvolatile beta	1.37	U	19.3	J	4.93						pCi/L	
	Radium, total alpha-emitting	6.88		3.33		3.7						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-3. Groundwater Monitoring Results for Background Wells, M-Area HWMF (Cont.)**WELL MSB 43A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107275.3 E 49293.7	33.343 Deg N 81.745 Deg W	140.5 - 134.9 ft msl	357.7000 ft msl	4 " PVC	S	LL

SAMPLE DATE	02/08/99	08/17/99	02/11/00	09/10/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	229.1	228.38	227.87	226.23	ft msl
pH	5.4	5.2	5.1	5.7	pH
Sp. Conductance	25	25	25	30	uS/cm
Water temperature	19.7	22.5	19.3	22.5	deg. C
Alkalinity as CaCO3	3	1	0	8	mg/L
Turbidity	.2	.3	.5	.4	NTU
Volumes purged	2.12	3.25	2.60	2.46	well volume
Sampling code					
Synchronous water level	229.1 (03/26/99)	228.3 (09/22/99)	227.6 (03/23/00)	226.1 (09/27/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.77	J I	9.8	J I	9.54	J I	13.8		< 2000	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<10	U	<1.93	JU	2.21	J I	NDD	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<50	U	<10.4	U V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<10	U	<10	U	8.21	J I	NDD	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Chloride	1360		1530		1620		1550		< 4200	1	ug/L	EX
	Chromium, total recoverable	.7	J	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Cobalt, total recoverable	<5	U	<20	U	<20	U					ug/L	
	Copper, total recoverable	<3	U	<20	U	<20	U					ug/L	
	Fluoride	<100	U	391		153	J I	<100	U	< EQL	1	ug/L	EX
	Manganese, total recoverable	2.9	J	2.51	J	2.3	J I	2.03	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<.2	U	<.5	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1700		1470		1620		1750		< 2400	5	ug/L	EX
	Sodium, total recoverable	1740		1700		2000		2100		< 4600	1	ug/L	EX
	Sulfate	<5000	U	284	J	252	J I	709		< 3000	1	ug/L	EX
	Total phosphates (as P)	<10	U	<2500	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
	Uranium, total recoverable												
	Zinc, total recoverable	15.6		4.38	J	6.3	J I					ug/L	
Radionuclides													
	Gross alpha	-.1	UI	.76	UI	.531	U					pCi/L	
	Nonvolatile beta	-.19	UI	2.16		4.32						pCi/L	
	Radium, total alpha-emitting	.15	UI	.72	U	.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-3. Groundwater Monitoring Results for Background Wells, M-Area HWMF (Cont.)
WELL MSB 43B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107274.6 E 49311.8	33.343 Deg N 81.745 Deg W	175.5 - 169.9 ft msl	357.8000 ft msl	4 " PVC	S	UL
SAMPLE DATE		02/08/99	08/17/99	02/11/00	09/10/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	229.2	228.6	228	226.4	ft msl	
pH	5.1	5.1	4.7	5.1	pH	
Sp. Conductance	25	24	24	24	uS/cm	
Water temperature	19.7	21.5	19.3	20.8	deg. C	
Alkalinity as CaCO3		0	0	0	mg/L	
Turbidity	.5	.2	.5	.6	NTU	
Volumes purged	2.19	4.59	2.50	2.49	well volume	
Sampling code						
Synchronous water level	229.1 (03/26/99)	228.5 (09/22/99)	227.8 (03/23/00)	226.2 (09/27/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.43	J I	3.1	J I	<3.22	U V	2.89	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<6.7	JU I	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	12.6	J	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Chloride	1860		1950		1900		1820		< 4200	1	ug/L	EX
	Chromium, total recoverable	1	J	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Cobalt, total recoverable	<5	U	<20	U	<20	U					ug/L	
	Copper, total recoverable	<3	U	<20	U	<4.6	JU I					ug/L	
	Fluoride	<100	U	373		159	J I	<100	U	< EQL	1	ug/L	EX
	Manganese, total recoverable	1.7	J	1.43	J	2.5	J I	.67	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<.2	U	<.5	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1880		1410		1480		1540		< 2400	5	ug/L	EX
	Sodium, total recoverable	2250		2330		2400		2220		< 4600	1	ug/L	EX
	Sulfate	<5000	U	356	J	374	J I	1030		< 3000	1	ug/L	EX
	Total phosphates (as P)	<10	U	<2500	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
	Uranium, total recoverable												
	Zinc, total recoverable	17		10.3	J	12	J I					ug/L	
Radionuclides													
	Gross alpha	3.84	UI	3.76		1.44	J I					pCi/L	
	Nonvolatile beta	3.32		4.24		1.48	U					pCi/L	
	Radium, total alpha-emitting	2.08	J	.99	U	.5	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-3. Groundwater Monitoring Results for Background Wells, M-Area HWMF (Cont.)
WELL MSB 43D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107274.2 E 49322	33.343 Deg N 81.745 Deg W	220.8 - 200.2 ft msl	358 ft msl	4 " PVC	S	M/GC

SAMPLE DATE 02/08/99 08/17/99 02/11/00 09/10/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.3	230.59	230.1	228.63	ft msl
pH	4.9	4.9	3.3	4.8	pH
Sp. Conductance	23	22	23	23	uS/cm
Water temperature	19.5	21.2	19.7	21.5	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.4	.2	.6	.3	NTU
Volumes purged	2.71	4.53	2.66	3.01	well volume
Sampling code					
Synchronous water level	231.2 (03/26/99)	230.6 (09/22/99)	229.9 (03/23/00)	228.4 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.37	J I	3.6	J I	<3.61	U V	2.98	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	7.5	J I	25.8		10.6		< 15	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<3.8	JU I	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	73.1		84.9	J	<200	U	77.7	J I	NDD	1	ug/L	EX
	Chloride	1840		1920		1710		1980		< 4200	1	ug/L	EX
	Chromium, total recoverable	5.8		4.2	J	<10	U	<10	U	< EQL	1	ug/L	EX
	Cobalt, total recoverable	<5	U	4.66	J	<20	U					ug/L	
	Copper, total recoverable	28.5		119		37						ug/L	
	Fluoride	<100	U	309		<200	U	<100	U	< EQL	1	ug/L	EX
	Manganese, total recoverable	5.3		4.83	J	4.8	J I	3.39	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<.2	U	<.5	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1150		953		1050		1060		< 2400	5	ug/L	EX
	Sodium, total recoverable	1370		1510		1500		1490		< 4600	1	ug/L	EX
	Sulfate	<5000	U	508		308	J I	1250		< 3000	1	ug/L	EX
	Total phosphates (as P)	<10	U	<2500	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
	Uranium, total recoverable												
	Zinc, total recoverable	29.3		18.4	J	13	J I					ug/L	
Radionuclides													
	Gross alpha	5.37	UI	1.31		.495	U					pCi/L	
	Nonvolatile beta	6.42		1.39	UI	2.12	J I					pCi/L	
	Radium, total alpha-emitting	.95	J	.45	U	.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF

WELL ABP 2A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97764.3 E 44118.8	33.314 Deg N 81.741 Deg W	211.1 - 181.1 ft msl	371.90 ft msl	4 " PVC	S	M

SAMPLE DATE 02/12/99 08/21/99 02/01/00 09/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	220.8	223.3	222.16	216	ft msl
pH	3.9	4.3	4.4	4.5	pH
Sp. Conductance	110	68	64	81	uS/cm
Water temperature	19.6	21.8	19.1	21.4	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.6	2	.8	.6	NTU
Volumes purged	4.23	2.90	2.46	4.07	well volume
Sampling code					
Synchronous water level	223 (06/24/99)	241 (12/14/99)	221 (06/26/00)	219 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	27.6		29								ug/L	
	Cyanide	2.39	J I	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	1.21	J I	<5	U	.99	J I	1.2	J I	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	744		114	J	120	J I	104	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	7600		5640		6220						ug/L	
	Sodium, total recoverable	2040		1820		2200		1960		< 4600	1	ug/L	EX
	Sulfate	<1000	U	190	J	276						ug/L	
Radionuclides													
	Gross alpha	5.47		9.7	J	6.22						pCi/L	
	Nonvolatile beta	.84	UIJ	5.04	UIJ	3.55						pCi/L	
	Radium, total alpha-emitting	11.6	J	3.24		3.5						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ABP 3C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97778.2 E 44506.3	33.315 Deg N 81.74 Deg W	165.3 - 160.3 ft msl	354.5 ft msl	4 " PVC	S	LL
SAMPLE DATE		02/09/99	08/20/99	02/01/00	09/07/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	198.18	197.5	196.39	194.22	ft msl	
pH	9.1	9.7	9.9	9.6	pH	
Sp. Conductance	130	124	153	112	uS/cm	
Water temperature	19.2	19.7	19.1	20.3	deg. C	
Alkalinity as CaCO3	25	39	40	57	mg/L	
Turbidity	.3	.8	.5	.4	NTU	
Volumes purged	2.84	2.48	2.47	2.72	well volume	
Sampling code						
Synchronous water level	197.8 (06/24/99)	197 (12/14/99)	195.1 (06/26/00)	193.9 (12/30/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	28.3		32								ug/L	
	Cyanide	<15.2	U	<10	U							ug/L	
	Lead, total recoverable	<47	U	<10	U							ug/L	
	Nickel, total recoverable	<26	U	<50	U							ug/L	
	Selenium, total recoverable	<66	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	JU Q	<5	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<5	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	1.02	J IKQ	<5	U	1.3	J	<5	JU L	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<5	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<5	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX
	Tetrachloroethylene	30.9	J KQ	31		29.9	J	19	J L	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<5	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX
	Trichloroethylene	32.4	J KQ	33		32.9	J	13	J L	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	372		359		290		263		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	3740		3790		3600						ug/L	
	Sodium, total recoverable	3880		4160		4200		3980		< 4600	1	ug/L	EX
	Sulfate	345	J	509		222						ug/L	
Radionuclides													
	Gross alpha	.83	U	4.54	J	.996	U					pCi/L	
	Nonvolatile beta	-.95	UIJ	3.32	UIJ	1.25	U					pCi/L	
	Radium, total alpha-emitting	2.48		1.18		.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ABP 8C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97855.6 E 43968.7	33.314 Deg N 81.741 Deg W	190.60 - 185.5 ft msl	372.10 ft msl	4 " PVC	S	UL
SAMPLE DATE		03/11/99	09/28/99	03/02/00	08/17/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	197.78	196.29	195.9	193.75	ft msl	
pH	11.1	5.1	11	11.3	pH	
Sp. Conductance	1700	143	3412	3639	uS/cm	
Water temperature	18.8	21	18.6	20.6	deg. C	
Alkalinity as CaCO3	304	240	761	642	mg/L	
Turbidity	14.7	0	11	5.5	NTU	
Volumes purged	.757	.720	0	0	well volume	
Sampling code	X	NX	NX	NX		
Synchronous water level	197.2 (06/24/99)	196.3 (12/14/99)	194.4 (06/26/00)	193.3 (12/30/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	316		302								ug/L	
	Cyanide	<15.2	U	<10	JU Q							ug/L	
+	Lead, total recoverable	142		<10	U			172		> 15	1	ug/L	EX
	Nickel, total recoverable	6.8	J I	<8.56	JU I							ug/L	
	Selenium, total recoverable	<66	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	10.2		10		5.02		6.3	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable			3740		3090		3490		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen			159		458	J I					ug/L	
+	Sodium, total recoverable			29000		18700		25600		> 4600	1	ug/L	EX
	Sulfate			4430	J	2960						ug/L	
Radionuclides													
	Gross alpha			10.86		3.09						pCi/L	
	Nonvolatile beta			37.95		13.6						pCi/L	
	Radium, total alpha-emitting			3.5		1.4	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)

WELL AC 3A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100989.1 E 42119.8	33.318 Deg N 81.752 Deg W	153.60 - 148.6 ft msl	302.30 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/03/99 08/17/99 02/01/00 09/07/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	210.7	210.46	209.57	207.46	ft msl
pH	5.4	6.4	5.8	5.8	pH
Sp. Conductance	43	45	46	44	uS/cm
Water temperature	19.5	20.3	18.8	19.3	deg. C
Alkalinity as CaCO3	12	12	3	15	mg/L
Turbidity	1.9	.8	1	.9	NTU
Volumes purged	2.64	3.14	2.33	3.12	well volume
Sampling code					
Synchronous water level	210.7 (06/24/99)	210 (12/14/99)	208.5 (06/29/00)	206.6 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	12.6		11.5								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	14	J	108	J	29	J I	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	203		215		213		299	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	2760		2770		2490		2860		< 4600	1	ug/L	EX
	Sulfate	1050		889		970						ug/L	
Radionuclides													
	Gross alpha	.41		2.74	J	.419	U					pCi/L	
	Nonvolatile beta	.83		2.36		1.89	J I					pCi/L	
	Radium, total alpha-emitting	3.92	J	.31	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)

WELL AMB 4A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104131.6 E 51469.8	33.34 Deg N 81.734 Deg W	126.3 - 121.3 ft msl	380.5 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 03/16/99 09/22/99 02/23/00 07/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	219.02	214.72	217.3	215.78	ft msl
pH	5.7	6.1	5.9	5.9	pH
Sp. Conductance	35	32	34	31	uS/cm
Water temperature	19.9	19.2	18.8	21.5	deg. C
Alkalinity as CaCO3	12	1	4	6	mg/L
Turbidity	2.3	1.5	1.6	1.1	NTU
Volumes purged	2.64	2.62	2.45	2.57	well volume
Sampling code					
Synchronous water level	218.3 (06/22/99)	217.4 (12/16/99)	216.2 (06/28/00)	214.1 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.9		5.4		<6.16	U V	4.87	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<6.24	JU V	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<25	U	<25	U	<25	U	<25	JU L	< EQL	5	ug/L	EX
	1,1-Dichloroethane	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	1,1-Dichloroethylene	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	Tetrachloroethylene	73.1		58.5		62		67	J K	NDD	5	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	Trichloroethylene	526		429		380		590	J K	NDD	5	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	55.7	J	17.8	J I	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1150		953		899		921	J K	NDD	5	ug/L	EX
	Sodium, total recoverable	2360		2320		2030		2240		< 4600	1	ug/L	EX
	Sulfate	<5000	U	784	J	616		1370		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	-61	UI	1.05		.0121	U					pCi/L	
	Nonvolatile beta	-75	UI	6.6	J	.357	U					pCi/L	
	Radium, total alpha-emitting	1.2	J	.13	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)

WELL AMB 4B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104145.6 E 51482.7	33.34 Deg N 81.734 Deg W	157.3 - 152.3 ft msl	380.40 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/11/99 08/31/99 02/14/00 09/26/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	224.3	222.57	222.8	220.61	ft msl
pH	4.7	5	4.3	4.9	pH
Sp. Conductance	30	28	26	27	uS/cm
Water temperature	18.6	19.7	19.4	19.7	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.5	.4	.4	.4	NTU
Volumes purged	2.29	2.37	2.73	2.78	well volume
Sampling code					
Synchronous water level	223.5 (06/22/99)	222.3 (12/16/99)	221.2 (06/28/00)	220 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.1		6.1		5.16	J I	11.6		< 2000	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<9.26	JU	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	2.82	J I	3.26	J I	4.5	J I	4.6	J IK	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	40.3		292		29	J I	<54.3	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	646		440	J	444		528		< 2400	5	ug/L	EX
	Sodium, total recoverable	2990		3210		2960		3180		< 4600	1	ug/L	EX
	Sulfate	<5000	U	1180		402		887		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	4.66	UI	1.85		.636	U					pCi/L	
	Nonvolatile beta	4.81	UI	8.38	UI	.463	U					pCi/L	
	Radium, total alpha-emitting	1.72	J	.74		.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)

WELL AMB 4D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104154.7 E 51489	33.34 Deg N 81.734 Deg W	233.4 - 213.4 ft msl	380.30 ft msl	4 " PVC	S	M

SAMPLE DATE 03/16/99 09/22/99 02/23/00 08/29/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.11	229.9	229.72	227.9	ft msl
pH	4.9	5.4	5.3	5.1	pH
Sp. Conductance	33	28	29	23	uS/cm
Water temperature	20.8	19.5	19.4	20.5	deg. C
Alkalinity as CaCO3	2	1	3	4	mg/L
Turbidity	1.5	1.2	.8	3.7	NTU
Volumes purged	2.24	4.25	2.71	3.36	well volume
Sampling code					
Synchronous water level	231.1 (06/22/99)	229.9 (12/16/99)	228.9 (06/28/00)	226.3 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.5		4.9		<4.42	U V	3.43	J I	NDD	1	ug/L	EX
	Cyanide	2.16	J I	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	PCB 1016					<.97	U					ug/L	
	PCB 1221					<.97	U					ug/L	
	PCB 1232					<.97	U					ug/L	
	PCB 1242					<1.9	U					ug/L	
	PCB 1248					<.97	U					ug/L	
	PCB 1254					<.97	U					ug/L	
	PCB 1260					<.97	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	24.9		7.37		7.6	J L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	332		84.4	J	38.2	J I	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	907		2380		1390		951	J I	NDD	10	ug/L	EX
	Sodium, total recoverable	6770		5620		4090		3140		< 4600	1	ug/L	EX
	Sulfate	3830	J	1170		2560		1510		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	6.83		17.2		1.99	J I					pCi/L	
	Nonvolatile beta	.74	UI	12.17	J	1.16	U					pCi/L	
	Radium, total alpha-emitting	4.65	UI	4.04		2.2						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL AMB 7**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103920 E 51624.9	33.34 Deg N 81.733 Deg W	242.1 - 222.1 ft msl	369.90 ft msl	4 " PVC	S	M

SAMPLE DATE	02/08/99	08/28/99	02/15/00	09/14/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.04	231.6	230.78	228.95	ft msl
pH	5.8	6.2	6.5	5.8	pH
Sp. Conductance	51	54	64	43	uS/cm
Water temperature	20.1	22.7	17.5	24.6	deg. C
Alkalinity as CaCO3	16	19	22	6	mg/L
Turbidity	13.2	8.7	11	5.9	NTU
Volumes purged	.626	.164	.539	5.96	well volume
Sampling code	NX	NX	NX		
Synchronous water level	231.9 (06/22/99)	230.8 (12/14/99)	229.5 (06/28/00)	229.7 (12/31/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.8		10.1		10.1		3.2	J I	NDD	1	ug/L	EX
	Cyanide	2.41	J I	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	9.4	J I	6	J I	7.2	J I	2.34	J I	NDD	1	ug/L	EX
	Nickel, total recoverable	3.8	J I	3.3	J I	<11.3	U V	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	331		334		342		62.7	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	184		285		575		508		< 2400	5	ug/L	EX
+	Sodium, total recoverable	12000		10800		8140		8440		> 4600	1	ug/L	EX
+	Sulfate	3040	J	3970		4010		5240		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.12	UI	1.75	J	.55	J IK					pCi/L	
	Nonvolatile beta	3.14		1.82	UIJ	.93	U					pCi/L	
	Radium, total alpha-emitting	1.4	UIJ	.43		.5	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 7A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103987.1 E 51591	33.34 Deg N 81.733 Deg W	125.6 - 115.6 ft msl	373.60 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 03/11/99 09/23/99 02/23/00 07/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	219.25	217.62	217.22	214.38	ft msl
pH	5.2	5.7	6	6.1	pH
Sp. Conductance	27	23	24	24	uS/cm
Water temperature	19.2	19.7	18.9	20	deg. C
Alkalinity as CaCO3	3	2	5	4	mg/L
Turbidity	.3	.6	.2	.7	NTU
Volumes purged	2.65	2.59	2.89	3.49	well volume
Sampling code					
Synchronous water level	218.3 (06/22/99)	217.6 (09/22/99)	216 (06/28/00)	214 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.6		4.5		<5.23	U V	4.39	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<1.88	JU	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<12.3	JU V	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	34.5		34.8		41		34	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	102		90.3		73		76	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	43.7	J	<146	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	966		837		935		827		< 2400	5	ug/L	EX
	Sodium, total recoverable	1760		2290		1620		1980		< 4600	1	ug/L	EX
	Sulfate	<5000	U	789		495		<1320	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	.49	UI	.85		.689	J I					pCi/L	
	Nonvolatile beta	.9	UI	1.41		.8	U					pCi/L	
	Radium, total alpha-emitting	1.15	J	.1	UI	.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 7B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103972 E 51590.3	33.34 Deg N 81.733 Deg W	162.9 - 152.9 ft msl	373 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/11/99 09/23/99 02/23/00 07/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	224.4	216.92	222.56	220.86	ft msl
pH	4.7	5.2	5.3	5.8	pH
Sp. Conductance	25	22	24	24	uS/cm
Water temperature	19.7	19.5	19	20	deg. C
Alkalinity as CaCO3		0	2	0	mg/L
Turbidity	.1	.4	.9	.8	NTU
Volumes purged	3.39	2.98	2.39	2.79	well volume
Sampling code					
Synchronous water level	223.6 (06/22/99)	222.9 (12/14/99)	221.2 (06/28/00)	220.2 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.5		2.8		<2.88	U V	1.96	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<26	U	<5.95	JU V	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6.25		5.26		5.9		7.1	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	9.3	J	23.3	J	<146	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	659		593		636		640		< 2400	5	ug/L	EX
	Sodium, total recoverable	3620		3300		3130		3950		< 4600	1	ug/L	EX
	Sulfate	1030		836		821		<1480	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	-.66	U	.7	UI	.611	U					pCi/L	
	Nonvolatile beta	-.87	UIJ	.4	UIJ	.778	U					pCi/L	
	Radium, total alpha-emitting	1.72	J	.09	UI	.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 9D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103585.2 E 51263	33.338 Deg N 81.733 Deg W	239.7 - 219.7 ft msl	367.90 ft msl	4 " PVC	S	M

SAMPLE DATE 02/05/99 08/31/99 02/14/00 09/14/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.32	230.85	230.43	228.65	ft msl
pH	5.8	4.9	5.3	5.6	pH
Sp. Conductance	42	42	43	45	uS/cm
Water temperature	17.9	18.4	18.7	22.4	deg. C
Alkalinity as CaCO3	29	0	8	5	mg/L
Turbidity	2.4	.8	.9	1	NTU
Volumes purged	16.7	4.04	3.76	5.57	well volume
Sampling code					
Synchronous water level	231.5 (06/22/99)	230.5 (12/14/99)	229.2 (06/28/00)	227.5 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.6		2.8		<2.77	U V	2.58	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016	<1.02	JU Q									ug/L	
	PCB 1221	<2.04	JU Q									ug/L	
	PCB 1232	<1.02	JU Q									ug/L	
	PCB 1242	<1.02	JU Q									ug/L	
	PCB 1248	<1.02	JU Q									ug/L	
	PCB 1254	<1.02	JU Q									ug/L	
	PCB 1260	<1.02	JU Q									ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	19.5	J	953		<146	U	61.7	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	174		173		117		217	J I	NDD	5	ug/L	EX
+	Sodium, total recoverable	8240		8830		7710		8920		> 4600	1	ug/L	EX
+	Sulfate	5040		4900		5380		5330		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	2.9		2.35	J	1.1	U V					pCi/L	
	Nonvolatile beta	.87	U	1.59	UIJ	.573	U					pCi/L	
	Radium, total alpha-emitting	2.88		1		.9	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 10A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103326.4 E 51410	33.338 Deg N 81.732 Deg W	111.4 - 106.4 ft msl	366.5 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/08/99 08/31/99 02/14/00 09/12/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	217.25	216.78	216.82	215.15	ft msl
pH	6.4	6.6	8.2	7	pH
Sp. Conductance	84	83	80	76	uS/cm
Water temperature	19	21	19	21.5	deg. C
Alkalinity as CaCO3	30	27	24	17	mg/L
Turbidity	3.3	4.1	2.6	.8	NTU
Volumes purged	.399	0	.014	2.27	well volume
Sampling code	NX	NX	NX		
Synchronous water level	217.4 (06/22/99)	216.8 (12/14/99)	215.3 (06/28/00)	214.5 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	12.9		10.9		12.1		10.2		< 2000	1	ug/L	EX
	Cyanide	1.54	J I	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<9.81	U V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	938		156		66	J I	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	283		263		270		294	J I	NDD	5	ug/L	EX
+	Sodium, total recoverable	10500		5540		4910		4840		> 4600	1	ug/L	EX
+	Sulfate	4330	J	3610		3700		3640		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.73	UI	.09	UIJ	.0302	U					pCi/L	
	Nonvolatile beta	3.62		1.81	UIJ	1.08	U					pCi/L	
	Radium, total alpha-emitting	2.66		-.11	UI	.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL AMB 10B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103337.3 E 51418.3	33.338 Deg N 81.732 Deg W	154.3 - 149.3 ft msl	366.40 ft msl	4 " PVC	S	LL

SAMPLE DATE	02/17/99	08/31/99	02/14/00	09/12/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	222.55	221.38	221.43	219.75	ft msl
pH	5.4	6.6	5.5	6	pH
Sp. Conductance	34	39	34	38	uS/cm
Water temperature	19.6	20.6	18.5	21	deg. C
Alkalinity as CaCO3	7	10	3	10	mg/L
Turbidity	.2	.5	.3	.8	NTU
Volumes purged	2.67	0	2.61	3.45	well volume
Sampling code					
Synchronous water level	222 (06/22/99)	221.4 (12/14/99)	220 (06/28/00)	218.8 (12/31/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.47		9.9		8.51	J I	13.4		< 2000	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<5.71	U V	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016	<1.02	U			<.96	U					ug/L	
	PCB 1221	<2.04	U			<.96	U					ug/L	
	PCB 1232	<1.02	U			<.96	U					ug/L	
	PCB 1242	<1.02	U			<1.9	U					ug/L	
	PCB 1248	<1.02	U			<.96	U					ug/L	
	PCB 1254	<1.02	U			<.96	U					ug/L	
	PCB 1260	<1.02	U			<.96	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<146	U	<146	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	192		206		239		310	J I	NDD	5	ug/L	EX
+	Sodium, total recoverable	4170		4260		4400		5340		> 4600	1	ug/L	EX
	Sulfate	<5000	U	865		1060		1600		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.47		.36	UIJ	.013	U					pCi/L	
	Nonvolatile beta	.74	UI	6.68	J	.542	U					pCi/L	
	Radium, total alpha-emitting	1.86	UIJ	.18	UI	.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL AMB 12D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103602.4 E 51901.6	33.34 Deg N 81.731 Deg W	239.40 - 219.4 ft msl	369.80 ft msl	4 " PVC	S	M

SAMPLE DATE	02/12/99	08/30/99	02/14/00	09/14/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.75	231.9	231.17	229.45	ft msl
pH	6	5.9	5.8	6	pH
Sp. Conductance	20	25	21	24	uS/cm
Water temperature	19	20.3	19.5	21.8	deg. C
Alkalinity as CaCO ₃	17	8	3	4	mg/L
Turbidity	2.2	1	.8	1.1	NTU
Volumes purged	5.84	3.25	3.06	3.28	well volume
Sampling code					
Synchronous water level	232.5 (06/22/99)	231.3 (12/14/99)	230 (06/28/00)	230.2 (12/31/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.7		7.3		7.61	J I	6.23	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	293		<146	U	<146	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	255		841		814		814		< 2400	5	ug/L	EX
	Sodium, total recoverable	1970		1530		1660		1160		< 4600	1	ug/L	EX
	Sulfate	<5000	U			601		1040		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.09	UI	2.51		1.08	J I					pCi/L	
	Nonvolatile beta	-.15	UI	8.37	J	1.42	J I					pCi/L	
	Radium, total alpha-emitting	1.56	UI	.35	UI	.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL AMB 13AR**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103082 E 51396	33.338 Deg N 81.732 Deg W	110.9 - 100.9 ft msl	365.10 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/17/99 08/31/99 02/15/00 09/13/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	218.57	217.45	217.22	215.75	ft msl
pH	7.6	7.2	6.7	6.8	pH
Sp. Conductance	72	68	75	66	uS/cm
Water temperature	20	21.3	19.6	22.7	deg. C
Alkalinity as CaCO3	22	24	19	17	mg/L
Turbidity	2.2	2	1.4	.7	NTU
Volumes purged	.013	0	2.26	2.36	well volume
Sampling code	X	NX			
Synchronous water level	218.1 (06/22/99)	217.5 (12/14/99)	225.1 (06/28/00)	215.1 (12/31/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	28		19.3		22.2		21.4		< 2000	1	ug/L	EX
	Cyanide	<15.2	U	5.21	J I	<10	U	<10	JU Q	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<5.09	U V	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<5.45	JU	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	100				226		49.6	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1080				978		964		< 2400	5	ug/L	EX
	Sodium, total recoverable	3350				3380		2650		< 4600	1	ug/L	EX
	Sulfate	<5000	U			1510		1720		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.92	UI			.384	U					pCi/L	
	Nonvolatile beta	2.12				2	J I					pCi/L	
	Radium, total alpha-emitting	3.91	UIJ			.5	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL AMB 15D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104500.6 E 51383.8	33.341 Deg N 81.735 Deg W	236.2 - 216.2 ft msl	383.40 ft msl	2 " PVC	V	M

SAMPLE DATE	03/16/99	09/17/99	02/16/00	09/27/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.24	231.2	230.62	229	ft msl
pH	4.7	5.3	5.3	5.7	pH
Sp. Conductance	28	24	26	26	uS/cm
Water temperature	27.1	22.3	21	18.4	deg. C
Alkalinity as CaCO3	2	2	1	7	mg/L
Turbidity	10.6	22.4	2.3	67.2	NTU
Volumes purged	7.75	7.47	10.8	.488	well volume
Sampling code	X			NX	
Synchronous water level	232.1 (06/22/99)	231 (12/14/99)	238.7 (06/28/00)	230.5 (12/31/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.3		8.8		<4.35	U V	27.4		< 2000	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	JU Q	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	2.96	J I	NDD	1	ug/L	EX
	Nickel, total recoverable	5.3	J I	3.4	J I	<8.41	JU V	14.2	J I	NDD	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	1.7	J IK	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	1730		890		637		5220		> 100	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	857		717		1160		2800		> 2400	5	ug/L	EX
	Sodium, total recoverable	5430		4000		2800		3110		< 4600	1	ug/L	EX
	Sulfate	3600	J	371	J	1620		2050		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	4.24	UI	11.07		1.03	J I					pCi/L	
	Nonvolatile beta	2.92	UI	6.66		.8	U					pCi/L	
	Radium, total alpha-emitting	1.57	J	1.09		.9	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL AMB 16D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104268.8 E 51557.5	33.34 Deg N 81.734 Deg W	233.4 - 213.4 ft msl	380.40 ft msl	2 " PVC	V	M

SAMPLE DATE 03/10/99 09/02/99 02/16/00 09/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.97	232.9	230.12	228.6	ft msl
pH	4.7	4.8	5.1	4.7	pH
Sp. Conductance	21	25	24	30	uS/cm
Water temperature	20.5	22.3	19.5	23	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.2	.4	.7	.4	NTU
Volumes purged	4.00	3.81	10.0	10.6	well volume
Sampling code					
Synchronous water level	231.6 (06/22/99)	230.5 (12/14/99)	218.1 (06/28/00)	228.2 (09/27/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.6		4		<4.35	U V	3.64	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	JU Q	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	27.8	J I	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<7.83	JU V	<11.2	JU	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016					<.94	U					ug/L	
	PCB 1221					<.94	U					ug/L	
	PCB 1232					<.94	U					ug/L	
	PCB 1242					<1.9	U					ug/L	
	PCB 1248					<.94	U					ug/L	
	PCB 1254					<.94	U					ug/L	
	PCB 1260					<.94	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	1.54	J I	2.13	J IQ	3.1	J I	1.6	J IK	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<146	U	59.8	J I	<32.5	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	7120		1030		1400		1280		< 2400	5	ug/L	EX
	Sodium, total recoverable	1500		1910		2920		2580		< 4600	1	ug/L	EX
	Sulfate	<5000	U	352		414		981		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	4.04		7.09		4.02						pCi/L	
	Nonvolatile beta	.25	UI	3.31	U	2.41						pCi/L	
	Radium, total alpha-emitting	4.27	J	1.26		1.8	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 17A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104056.7 E 51465.4	33.34 Deg N 81.733 Deg W	125 - 120 ft msl	379.10 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 03/16/99 09/22/99 02/23/00 09/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	218.8	217.39	217.03	214.05	ft msl
pH	5	5	4.8	5.3	pH
Sp. Conductance	20	18	20	20	uS/cm
Water temperature	19.2	19.3	18.8	19.6	deg. C
Alkalinity as CaCO3		0	1	7	mg/L
Turbidity	.5	1.1	.4	1.4	NTU
Volumes purged	2.33	2.72	2.34	2.90	well volume
Sampling code					
Synchronous water level	218.1 (06/22/99)	219.1 (12/16/99)	216.1 (06/28/00)	214 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.2		2.7		<3.28	U V	3.47	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	8.65	J I	NDD	1	ug/L	EX
Organics													
	Chlorobenzene	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016	<1.02	JU Q			<.98	U					ug/L	
	PCB 1221	<2.04	JU Q			<.98	U					ug/L	
	PCB 1232	<1.02	JU Q			<.98	U					ug/L	
	PCB 1242	<1.02	JU Q			<2	U					ug/L	
	PCB 1248	<1.02	JU Q			<.98	U					ug/L	
	PCB 1254	<1.02	JU Q			<.98	U					ug/L	
	PCB 1260	<1.02	JU Q			<.98	U					ug/L	
	1,1,2,2-Tetrachloroethane	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	26		26.3		25		29	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	208		176		170		51	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<146	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	1130		868		926		2570		> 2400	5	ug/L	EX
	Sodium, total recoverable	2010		2040		1680		1740		< 4600	1	ug/L	EX
	Sulfate	<5000	U	514		452		991		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.13	UI	1.21		.122	U					pCi/L	
	Nonvolatile beta	.124	UI	10.04		.497	U					pCi/L	
	Radium, total alpha-emitting	.81	UI	.32	UI	-.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 18A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103988.8 E 51418.8	33.34 Deg N 81.733 Deg W	136.4 - 131.4 ft msl	377.30 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 03/11/99 09/23/99 02/23/00 09/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	218.87	217.21	216.96	213.9	ft msl
pH	4.8	5.2	4.5	5.5	pH
Sp. Conductance	25	21	23	24	uS/cm
Water temperature	18.4	19.3	18.7	20	deg. C
Alkalinity as CaCO3	1	0	1	7	mg/L
Turbidity	.4	.7	.2	1	NTU
Volumes purged	2.63	2.59	2.64	2.83	well volume
Sampling code					
Synchronous water level	217.9 (06/22/99)	217.1 (12/14/99)	215.6 (06/28/00)	213.8 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.7		5.4		44.7		6.42	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<6.24	JU V	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016	<1.02	JU Q			<.96	U					ug/L	
	PCB 1221	<2.04	JU Q			<.96	U					ug/L	
	PCB 1232	<1.02	JU Q			<.96	U					ug/L	
	PCB 1242	<1.02	JU Q			<1.9	U					ug/L	
	PCB 1248	<1.02	JU Q			<.96	U					ug/L	
	PCB 1254	<1.02	JU Q			<.96	U					ug/L	
	PCB 1260	<1.02	JU Q			<.96	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	2.36	J I	4.6	J I	3.9	J IK	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	27.8		19.3		24		21	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	21.6		<55.5	U	<146	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1110		813		795		<2360	U	< EQL	5	ug/L	EX
	Sodium, total recoverable	2270		2180		1900		2130		< 4600	1	ug/L	EX
	Sulfate	<5000	U	471	J	432		<968	U	< EQL	1	ug/L	EX
Radionuclides													
	Gross alpha	.86	UI	.28	UIJ	.106	U					pCi/L	
	Nonvolatile beta	.211	UI	1.64	UI	.482	U					pCi/L	
	Radium, total alpha-emitting	.6		.35	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 18C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103983.4 E 51432.8	33.34 Deg N 81.733 Deg W	214.2 - 209.2 ft msl	376 ft msl	2 " PVC	V	UL

SAMPLE DATE 02/16/99 08/28/99 02/15/00 09/21/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.7	230.9	229.9	228.39	ft msl
pH	4.9	5.2	4.1	5.4	pH
Sp. Conductance	16	20	20	20	uS/cm
Water temperature	19.8	21.4	19.3	20.8	deg. C
Alkalinity as CaCO3	2	3	0	1	mg/L
Turbidity	2.7	3.8	4.3	2.5	NTU
Volumes purged	5.49	7.69	7.77	10.3	well volume
Sampling code					
Synchronous water level	231.4 (06/22/99)	230.7 (09/22/99)	229.1 (06/28/00)	228.1 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.7		<4.1	U V	4.25	J I	4.98	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
+	Lead, total recoverable	6.9	J I	<47	U	15.7		31.4		> 15	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<6.96	U V	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016	<1.01	U			<.97	U					ug/L	
	PCB 1221	<2.02	U			<.97	U					ug/L	
	PCB 1232	<1.01	U			<.97	U					ug/L	
	PCB 1242	<1.01	U			<1.9	U					ug/L	
	PCB 1248	<1.01	U			<.97	U					ug/L	
	PCB 1254	<1.01	U			<.97	U					ug/L	
	PCB 1260	<1.01	U			<.97	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	202		87.1	J	63.8	J I	<136	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1030		884		763		<777	U	< EQL	5	ug/L	EX
	Sodium, total recoverable	3700		1960		1960		2540		< 4600	1	ug/L	EX
	Sulfate	<5000	U	708		629		<1260	U	< EQL	1	ug/L	EX
Radionuclides													
	Gross alpha	.92		1.07		1.39	J IK					pCi/L	
	Nonvolatile beta	-.92	UI	.91	UI	.676	U					pCi/L	
	Radium, total alpha-emitting	2.31	UIJ	1.07		.3	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL AMB 19C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102941.1 E 51503.7	33.337 Deg N 81.731 Deg W	196.7 - 191.7 ft msl	363.70 ft msl	2 " PVC	V	UL

SAMPLE DATE	02/09/99	08/31/99	02/15/00	09/25/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	228.93	228.08	227.34	226	ft msl
pH	5.1	5.8	5	5.6	pH
Sp. Conductance	48	47	46	45	uS/cm
Water temperature	19.3	19.3	18.3	19.7	deg. C
Alkalinity as CaCO ₃	9	13	2	7	mg/L
Turbidity	.6	.6	.5	.8	NTU
Volumes purged	7.26	3.21	5.00	3.05	well volume
Sampling code					
Synchronous water level	228.8 (06/22/99)	227.8 (12/14/99)	226.4 (06/28/00)	225 (12/31/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<1.4	U V	2.2		<1.8	U V	.71	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	2.5	J I	<10	U	<10	JU Q	< EQL	1	ug/L	EX
+	Lead, total recoverable	<47	U	<47	U	98.8		28.6		> 15	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<10.8	JU	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	74.7		<146	U	<146	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	116		68		71		194	J I	NDD	5	ug/L	EX
+	Sodium, total recoverable	10000		9440		9160		9100		> 4600	1	ug/L	EX
+	Sulfate	7700		6540		6160		4790		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.12	UI	1.43		.425	U					pCi/L	
	Nonvolatile beta	.04	UI	1.07	UI	.756	U					pCi/L	
	Radium, total alpha-emitting	4.91	UIJ	.14	UI	-.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL AOB 1**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101910.7 E 50485.9	33.334 Deg N 81.732 Deg W	248.5 - 218.5 ft msl	341.10 ft msl	4 " PVC	S	M
SAMPLE DATE		02/05/99	08/27/99	02/01/00	09/19/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	234.56	233.5	232.12	<i>Not Available</i>	ft msl	
pH	5.4	5	5.1	5.3	pH	
Sp. Conductance	48	39	36	33	uS/cm	
Water temperature	18.1	20	19.1	23.9	deg. C	
Alkalinity as CaCO ₃	1	0	1	3	mg/L	
Turbidity	5	.7	1	5.5	NTU	
Volumes purged	9.36	3.89	2.48		well volume	
Sampling code				S		
Synchronous water level	234 (06/23/99)	232.5 (12/14/99)	()	NDD(279.6) (09/23/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.8		10.6								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	5.6	J I	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	.29	J I	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	17.9		45.1	J Q	49.4	J	18	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	15.8		39.8	J Q	45.4	J	14	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	8.5	J	<146	U	<146	U	<70.4	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1710		1240		1380						ug/L	
	Sodium, total recoverable	3380		3930		4210		4520		< 4600	1	ug/L	EX
	Sulfate	595	J	582		1640						ug/L	
Radionuclides													
	Gross alpha	.16	U	2.73	J	.392	U					pCi/L	
	Nonvolatile beta	-3.39	U	.89	UIJ	.345	U					pCi/L	
	Radium, total alpha-emitting	2.2		.77		.4	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AOB 2

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102009.8 E 50724.7	33.334 Deg N 81.731 Deg W	250.2 - 220.2 ft msl	345.40 ft msl	4 " PVC	S	M

SAMPLE DATE 02/05/99 08/27/99 02/01/00 09/19/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.5	233.1	230.6	<i>Not Available</i>	ft msl
pH	5.4	5.1	5.3	5.5	pH
Sp. Conductance	20	19	20	19	uS/cm
Water temperature	18.6	20.6	18.7	19.6	deg. C
Alkalinity as CaCO3	3	0	1	2	mg/L
Turbidity	10.1	2.3	.7	.9	NTU
Volumes purged	8.24	3.60	2.99		well volume
Sampling code				S	
Synchronous water level	233.5 (06/23/99)	233 (09/22/99)	345.6 (06/24/00)	230.1 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.6		<3.3	U V							ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	18.5	J I	5.4	J I							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	JU Q	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	JU Q	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable			<146	U	18.5	J I	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen			1220		922						ug/L	
	Sodium, total recoverable			1840		2410		2830		< 4600	1	ug/L	EX
	Sulfate			348		515						ug/L	
Radionuclides													
	Gross alpha			2.21	J	.554	U					pCi/L	
	Nonvolatile beta			1.87	J	.315	U					pCi/L	
	Radium, total alpha-emitting			.71		.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 1A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105535 E 52614	33.345 Deg N 81.733 Deg W	247.2 - 217.2 ft msl	349.10 ft msl	4 " PVC	S	M/GC

SAMPLE DATE 02/22/99 09/07/99 03/06/00 09/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	236.37	235.95	236.02	235.92	ft msl
pH	5.8	5.7	5.9	5.8	pH
Sp. Conductance	73	66	65	70	uS/cm
Water temperature	18.1	20.7	19.1	20.2	deg. C
Alkalinity as CaCO3	8	8	14	13	mg/L
Turbidity	1.8	.7	.9	6.5	NTU
Volumes purged	2.49	11.3	3.11	5.27	well volume
Sampling code					
Synchronous water level	237.9 (06/25/99)	251.3 (12/16/99)	235.9 (03/23/00)	235.6 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.6		4.7								ug/L	
	Cyanide	72.3		<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	1.53	J I	1.15	J	1.2	J I	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	1.13	J I	1.43	J	1.2	J I	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	28.4		<146	U	<146	U	41.4	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	645		962		1390						ug/L	
+	Sodium, total recoverable	12100		12000		12000		13800		> 4600	1	ug/L	EX
+	Sulfate	7490		4960		6800		6170		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	-55	UIJ	2.09		.643	U					pCi/L	
	Nonvolatile beta	-2.08	UIJ	4.3		1.15	J I					pCi/L	
	Radium, total alpha-emitting	1.01		1.03		.5	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 2AR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105550.5	33.345 Deg N	240.1 - 220.2 ft msl	355.60 ft msl	4 " PVC	S	M
E 52881.7	81.733 Deg W					
SAMPLE DATE		02/22/99	09/07/99	03/06/00	09/26/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	238.22	237.29	235.83	234.44	ft msl	
pH	6	5.9	5.8	5.9	pH	
Sp. Conductance	58	55	53	56	uS/cm	
Water temperature	18.4	20.8	18.7	20	deg. C	
Alkalinity as CaCO3	20	14	5	10	mg/L	
Turbidity	.2	.3	.7	1.2	NTU	
Volumes purged	3.08	3.97	5.04	6.19	well volume	
Sampling code						
Synchronous water level	237.8 (06/25/99)	236.3 (12/16/99)	235.3 (06/29/00)	234.2 (12/31/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	7		7								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	2.7	J I							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	1.68	J I	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	46.5		<146	U	<146	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	249		400		489						ug/L	
+	Sodium, total recoverable	11600		11300		10100		11500		> 4600	1	ug/L	EX
+	Sulfate	4980	J	3840		3280		3540		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.81	UI	3.9		2.59	J I					pCi/L	
	Nonvolatile beta	-.25	UI	127.85	J	1.36	J I					pCi/L	
	Radium, total alpha-emitting	1.49		.91		.7	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 2CR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105540.2 E 52862.7	33.345 Deg N 81.733 Deg W	183.1 - 173.1 ft msl	355.60 ft msl	4 " PVC	S	LL
SAMPLE DATE	02/12/99	09/07/99	03/06/00	07/26/00		
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	221.6	220.2	221.68	219.05	ft msl	
pH	5.8	5.7	5.7	5.6	pH	
Sp. Conductance	62	55	50	49	uS/cm	
Water temperature	19.1	20	19.8	20.1	deg. C	
Alkalinity as CaCO3	13	9	9	6	mg/L	
Turbidity	.7	.5	.2	1.5	NTU	
Volumes purged	2.11	3.09	3.18	2.93	well volume	
Sampling code						
Synchronous water level	221.9 (06/25/99)	220.5 (12/16/99)	221.5 (03/23/00)	219.2 (09/27/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	57.4		41.6								ug/L	
	Cyanide	1.72	J I	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<10	JU LQ	< EQL	2	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<10	JU LQ	< EQL	2	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<10	JU LQ	< EQL	2	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<10	JU LQ	< EQL	2	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<10	JU LQ	< EQL	2	ug/L	EX
	Tetrachloroethylene	5.46		5.47		4.98	J	5.7	J ILQ	NDD	2	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<10	JU LQ	< EQL	2	ug/L	EX
	Trichloroethylene	26.8		26.9		30.8	J	26	J KQ	NDD	2	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
	Inorganics												
	Aluminum, total recoverable			32.7	J	30.4	J I	46.3	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen			1160		1120						ug/L	
+	Sodium, total recoverable			5010		4850		5260		> 4600	1	ug/L	EX
	Sulfate			458		364		<638	U	< EQL	1	ug/L	EX
	Radionuclides												
	Gross alpha			1.88		.894	U V					pCi/L	
	Nonvolatile beta			4.04	J	1.46	J I					pCi/L	
	Radium, total alpha-emitting			.49		.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 3AR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105605.1 E 53115	33.346 Deg N 81.732 Deg W	243.1 - 223.1 ft msl	341.60 ft msl	4 " PVC	S	M

SAMPLE DATE 02/22/99 09/07/99 03/06/00 09/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	239.07	237.85	236.29	234.86	ft msl
pH	6.1	6	5.5	5.9	pH
Sp. Conductance	64	55	54	57	uS/cm
Water temperature	18	20.5	19.3	20.9	deg. C
Alkalinity as CaCO3	18	10	6	11	mg/L
Turbidity	.5	.3	1.2	.2	NTU
Volumes purged	3.07	4.68	3.14	4.18	well volume
Sampling code					
Synchronous water level	238.8 (03/26/99)	236.9 (12/16/99)	233.7 (06/29/00)	234.3 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.4		9.9								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	20.4		35.7	J	106	J I	1770		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	581		569		894						ug/L	
+	Sodium, total recoverable	10900		11400		10700		10600		> 4600	1	ug/L	EX
+	Sulfate	4870	J	4900		4290		4050		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.32	UI	1.45		1.24	U V					pCi/L	
	Nonvolatile beta	-1.13	UI	3.78	J	1.76	J I					pCi/L	
	Radium, total alpha-emitting	.9		.38	UI	.5	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 3CR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105614.5 E 53130.4	33.346 Deg N 81.732 Deg W	184 - 174 ft msl	341.5 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/11/99 09/07/99 03/06/00 07/26/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	221.05	219.5	221.42	218.41	ft msl
pH	5.2	5.1	5.3	5.3	pH
Sp. Conductance	42	44	43	41	uS/cm
Water temperature	19	19.9	19.8	20.7	deg. C
Alkalinity as CaCO3	1	2	3	0	mg/L
Turbidity	.2	.4	.2	1	NTU
Volumes purged	2.70	2.83	2.87	3.45	well volume
Sampling code					
Synchronous water level	221.2 (06/25/99)	219.9 (12/16/99)	221.3 (03/23/00)	218.5 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	472		419								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<10	JU LQ	< EQL	2	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<10	JU LQ	< EQL	2	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<10	JU LQ	< EQL	2	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<10	JU LQ	< EQL	2	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<10	JU LQ	< EQL	2	ug/L	EX
	Tetrachloroethylene	<5	U	3.99	J I	3.79	J	<10	JU LQ	< EQL	2	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<10	JU LQ	< EQL	2	ug/L	EX
	Trichloroethylene	17.4		20.7		15.5	J	9.9	J IKQ	NDD	2	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable			55.6	J	<146	U	54	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen			1060		1220						ug/L	
+	Sodium, total recoverable			4110		4500		5110		> 4600	1	ug/L	EX
	Sulfate			670		600		788		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha			1.9		.95	J I					pCi/L	
	Nonvolatile beta			3.41	J	1.79	J I					pCi/L	
	Radium, total alpha-emitting			.86		.4	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 4

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105935.7 E 53177.2	33.347 Deg N 81.733 Deg W	256.1 - 226.1 ft msl	335.60 ft msl	4 " PVC	S	M

SAMPLE DATE 02/22/99 08/31/99 02/01/00 09/26/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	238.55	237.4	236.27	234.4	ft msl
pH	6	5.7	5.6	5.7	pH
Sp. Conductance	50	45	48	50	uS/cm
Water temperature	19.9	20.6	19.2	21.4	deg. C
Alkalinity as CaCO3	17	8	4	7	mg/L
Turbidity	11.6	8.1	14.8	2.1	NTU
Volumes purged	2.76	2.63	2.63	4.95	well volume
Sampling code					
Synchronous water level	238 (06/23/99)	236.6 (12/16/99)	233.8 (06/29/00)	233.3 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.3		8.5								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	2.8	J I	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	JU Q	.73	J I	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	57.2				150		32.7	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	900				898						ug/L	
+	Sodium, total recoverable	11200				6950		10400		> 4600	1	ug/L	EX
+	Sulfate	5100				3230		3410		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.41	UI			1.06	U V					pCi/L	
	Nonvolatile beta	.3	UI			.657	U					pCi/L	
	Radium, total alpha-emitting	1.14				.7	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL ASB 5AR**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105900.5 E 52854.4	33.346 Deg N 81.733 Deg W	243.80 - 223.8 ft msl	347 ft msl	4 " PVC	S	M
SAMPLE DATE		02/11/99	09/09/99	03/23/00	07/27/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	236.53	235.63	233.51	230.15	ft msl	
pH	6	5.4	6	6.6	pH	
Sp. Conductance	60	61	64	61	uS/cm	
Water temperature	21.5	24.5	18.6	24.5	deg. C	
Alkalinity as CaCO ₃	12	14	11	2	mg/L	
Turbidity	13.5	4.2	6.7	5	NTU	
Volumes purged	.845	.910	.159	3.17	well volume	
Sampling code	X	NX	NX			
Synchronous water level	236.2 (06/25/99)	234.8 (12/16/99)	230.7 (06/29/00)	232.3 (12/31/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.1		2.5								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	4.7	J I			<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	2.8	J I	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U			<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	1.89	J K	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	79.9		39.4		17.8	J K	38	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	38.4		126	J	41.6	J I	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	458		530		626						ug/L	
+	Sodium, total recoverable	11200		10900		10400		13100		> 4600	1	ug/L	EX
+	Sulfate	8090		5900		7300		5870		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.4	UI	.85	UI	4.01						pCi/L	
	Nonvolatile beta	-1.2	UI	.7	UIJ	3.14	J I					pCi/L	
	Radium, total alpha-emitting	1.51	J	.25	UI	.6	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 5C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105884.8 E 52837.8	33.346 Deg N 81.733 Deg W	175.10 - 165.1 ft msl	347.30 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/11/99 09/22/99 03/23/00 07/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	221.22	220.63	220.28	218.57	ft msl
pH	6	6	6.1	6.6	pH
Sp. Conductance	44	42	45	44	uS/cm
Water temperature	19.2	19.9	18.9	21	deg. C
Alkalinity as CaCO3	16	14	11	9	mg/L
Turbidity	1.5	1	1	.9	NTU
Volumes purged	2.37	2.84	2.77	3.41	well volume
Sampling code					
Synchronous water level	221.5 (06/25/99)	220.1 (12/16/99)	219.3 (06/29/00)	218.2 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	10.1		10.1								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	Tetrachloroethylene	79.3		60		54.7	J K	57	J	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	Trichloroethylene	167		143		186	J K	170	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	7.2	J	<146	U	41.3	J I	41.3	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1470		1090		1060						ug/L	
	Sodium, total recoverable	2180		1920		2280		2780		< 4600	1	ug/L	EX
	Sulfate	<5000	U	392		339	J I	535		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.13	UI	.33	UI	.664	U					pCi/L	
	Nonvolatile beta	1	UI	.24	UIJ	.703	U					pCi/L	
	Radium, total alpha-emitting	2.87	UIJ	.34		0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 6A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105716 E 52675.9	33.346 Deg N 81.733 Deg W	248.2 - 218.2 ft msl	350.20 ft msl	4 " PVC	S	M
SAMPLE DATE		02/22/99	09/22/99	03/06/00	09/26/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	235.95	235.2	228.98	228.89	ft msl	
pH	5.5	5.6	5.6	5.4	pH	
Sp. Conductance	85	71	67	91	uS/cm	
Water temperature	18.6	19.4	19.3	22.6	deg. C	
Alkalinity as CaCO3	7	5	6	3	mg/L	
Turbidity	2.5	1.4	1.6	1.2	NTU	
Volumes purged	3.21	4.90	2.88	2.62	well volume	
Sampling code						
Synchronous water level	237.5 (06/25/99)	235.2 (12/16/99)	209.1 (06/29/00)	236.1 (12/31/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.7		2.9								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	3.5	J I	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	.913	J I	.68	J I	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	2.75	J I	3.48	J I	5.59	J	8		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	14.8	J	<146	U	17.1	J I	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	240		6020		4170						ug/L	
+	Sodium, total recoverable	11600		18400		12400		18300		> 4600	1	ug/L	EX
+	Sulfate	4990	J	5640		5120		6950		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.37	UI	6.84		25.6						pCi/L	
	Nonvolatile beta	-1.2	UI	2.04	UI	6						pCi/L	
	Radium, total alpha-emitting	1.4		2.53		.8	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL ASB 6AA**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105727 E 52643.9	33.345 Deg N 81.734 Deg W	82.8 - 78.10 ft msl	354.20 ft msl	4 " PVC	S	MCBC
SAMPLE DATE		02/11/99	09/07/99	03/06/00	07/27/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	217.6	215.91	216.8	214.43	ft msl	
pH	10.2	10.5	10.1	9.9	pH	
Sp. Conductance	130	183	110	92	uS/cm	
Water temperature	19.2	20.3	19.5	20.1	deg. C	
Alkalinity as CaCO3	41	52	47	19	mg/L	
Turbidity	.4	1	.6	1.5	NTU	
Volumes purged	2.54	2.48	2.74	2.39	well volume	
Sampling code						
Synchronous water level	217.1 (03/26/99)	216.5 (09/22/99)	216.7 (03/23/00)	214.6 (09/27/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.7		14.4								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<100	U	<125	U	<10	JU L	<250	JU Q	< EQL	50	ug/L	EX
	1,1-Dichloroethane	<100	U	<125	U	<10	JU L	<250	JU Q	< EQL	50	ug/L	EX
	1,1-Dichloroethylene	<100	U	<125	U	<10	JU L	<250	JU Q	< EQL	50	ug/L	EX
	trans-1,2-Dichloroethylene	<100	U	<125	U	<10	JU L	<250	JU Q	< EQL	50	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<100	U	<125	U	<10	JU L	<250	JU Q	< EQL	50	ug/L	EX
	Tetrachloroethylene	<100	U	<125	U	11.5	J L	<250	JU Q	< EQL	50	ug/L	EX
	1,1,1-Trichloroethane	<100	U	<125	U	<10	JU L	<250	JU Q	< EQL	50	ug/L	EX
	Trichloroethylene	2210		1860		2190	J L	1400	J KQ	NDD	50	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	258		239		194		225		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1730		1390		1420						ug/L	
	Sodium, total recoverable	3210		3200		3240		3210		< 4600	1	ug/L	EX
	Sulfate	<5000	U	541	J	580		652		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.4	UI	1.52		.611	U					pCi/L	
	Nonvolatile beta	1.18	UI	3.1		.423	U					pCi/L	
	Radium, total alpha-emitting	1.78	UIJ	.38		.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 6C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105736.8 E 52655.9	33.346 Deg N 81.734 Deg W	178.5 - 173.8 ft msl	353.60 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/11/99 09/22/99 03/06/00 07/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	222.98	221.89	221.85	219.78	ft msl
pH	5.2	5.3	5.4	5.8	pH
Sp. Conductance	31	29	31	32	uS/cm
Water temperature	19.5	19.9	19.9	21	deg. C
Alkalinity as CaCO3		0	1	0	mg/L
Turbidity	.5	.6	.7	.6	NTU
Volumes purged	2.58	3.14	3.43	2.76	well volume
Sampling code					
Synchronous water level	222.8 (06/25/99)	221.3 (12/16/99)	220.5 (06/29/00)	219.8 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.2		9.7								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	Tetrachloroethylene	37.8		33.7		30.9	J	29	J Q	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	Trichloroethylene	67.1		86.6		115	J	93	J KQ	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	23.2		<146	U	<25.1	U	66.2	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	739		708		757						ug/L	
	Sodium, total recoverable	2390		2070		2070		2780		< 4600	1	ug/L	EX
	Sulfate	<5000	U	333	J	282	J I	531		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.82	UI	2.36		.66	U					pCi/L	
	Nonvolatile beta	.88	UI	3.7	J	1.12	U					pCi/L	
	Radium, total alpha-emitting	4.66	UIJ	.87		.6	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 6TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105749.5 E 52671.3	33.346 Deg N 81.734 Deg W	40 - 34.5 ft msl	352.90 ft msl	4 " PVC	S	CBA

SAMPLE DATE 02/11/99 09/09/99 03/06/00 07/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	213.55	212.7	212.63	210.36	ft msl
pH	8	7.8	9.1	9.4	pH
Sp. Conductance	94	82	104	98	uS/cm
Water temperature	19	22.1	20.2	23.7	deg. C
Alkalinity as CaCO3	26	28	42	52	mg/L
Turbidity	.9	2.9	.6	1.2	NTU
Volumes purged	.017	.009	.009	.009	well volume
Sampling code	X	NX	NX	NX	
Synchronous water level	213 (03/26/99)	212.7 (12/16/99)	211.7 (06/29/00)	210.6 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	17.5		13.8								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	5.5	J I							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<25	U	<5	U	<5	U	<120	JU Q	< EQL	25	ug/L	EX
	1,1-Dichloroethane	<25	U	<5	U	<5	U	<120	JU Q	< EQL	25	ug/L	EX
	1,1-Dichloroethylene	<25	U	<5	U	<5	U	<120	JU Q	< EQL	25	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<5	U	<5	U	<120	JU Q	< EQL	25	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<5	U	<5	U	<120	JU Q	< EQL	25	ug/L	EX
	Tetrachloroethylene	<25	U	4.36	J I	15.2		<120	JU Q	< EQL	25	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<5	U	<5	U	<120	JU Q	< EQL	25	ug/L	EX
	Trichloroethylene	694		718	L	937		570	J KQ	NDD	25	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	87.5		78.3	J	68.2	J I	68	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1650		1250		1340						ug/L	
+	Sodium, total recoverable	6490		7250		3110		6480		> 4600	1	ug/L	EX
	Sulfate	2590	J	2340		1480		2790		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	-1.12	UI	1.63		.628	U					pCi/L	
	Nonvolatile beta	5.24		10.04	J	1.59	J I					pCi/L	
	Radium, total alpha-emitting	3.08	UIJ	.29		.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 8

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106381.6 E 53136.6	33.348 Deg N 81.734 Deg W	226.6 - 206.6 ft msl	349 ft msl	4 " PVC	S	M
SAMPLE DATE		03/10/99	08/28/99	02/01/00	09/26/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	234.31	233.13	232.13	<i>Not Available</i>	ft msl	
pH	5	5	4.2	5.2	pH	
Sp. Conductance	42	43	42	41	uS/cm	
Water temperature	20.2	19.8	18.6	19.6	deg. C	
Alkalinity as CaCO3	1	0	0	0	mg/L	
Turbidity	2.7	1.5	1.1	1.8	NTU	
Volumes purged	5.96	3.06	3.24		well volume	
Sampling code				S		
Synchronous water level	233.7 (06/22/99)	232.3 (12/16/99)	231.1 (06/29/00)	229.7 (12/31/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<1.5	U V	<2.1	U V							ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	1.7	J I	.99	J I	1.82	J	2	J I	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	27.8	J	<146	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1370		627		842						ug/L	
+	Sodium, total recoverable	1430		7240		6990		7690		> 4600	1	ug/L	EX
+	Sulfate	<5000	U	6730		5440		6060		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.83		.57	UI	.539	U					pCi/L	
	Nonvolatile beta	2.93	J	4.7	J	1.37	U					pCi/L	
	Radium, total alpha-emitting	3.19	UIJ	1.2		.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 8B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106362.3 E 53109.6	33.348 Deg N 81.734 Deg W	128.40 - 122.8 ft msl	349.80 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/11/99 08/26/99 02/29/00 07/26/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	212.1	211.45	210.98	209.61	ft msl
pH	5	5	5	4.9	pH
Sp. Conductance	24	20	20	19	uS/cm
Water temperature	18.2	19.7	18.3	19.5	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.4	.2	.6	.9	NTU
Volumes purged	2.24	2.74	2.25	3.03	well volume
Sampling code					
Synchronous water level	212.2 (06/22/99)	211.1 (12/16/99)	210 (06/29/00)	207.1 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.6		<4.3	U V							ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<100	U	<47	U							ug/L	
	Nickel, total recoverable	<50	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<25	U	<5	JU Q	<1	U	<100	JU LQ	< EQL	20	ug/L	EX
	1,1-Dichloroethane	<25	U	<5	JU Q	<1	U	<100	JU LQ	< EQL	20	ug/L	EX
	1,1-Dichloroethylene	<25	U	<5	JU Q	<1	U	<100	JU LQ	< EQL	20	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<5	JU Q			<100	JU LQ	< EQL	20	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<5	JU Q	<1	U	<100	JU LQ	< EQL	20	ug/L	EX
	Tetrachloroethylene	<25	U	<5	JU Q	1.76	J K	<100	JU LQ	< EQL	20	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<5	JU Q	<1	U	<100	JU LQ	< EQL	20	ug/L	EX
	Trichloroethylene	341		192	J Q	107	J K	92	J IKQ	NDD	20	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	22.6	J	<146	U	47.1	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2200		1280		775						ug/L	
	Sodium, total recoverable	2510		2110		1680		1840		< 4600	1	ug/L	EX
	Sulfate	<5000	U	287	J	384		659		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	2.32		3.79	J	.48	U					pCi/L	
	Nonvolatile beta	1.44	UI	8.25	J	1.41	J I					pCi/L	
	Radium, total alpha-emitting	2.36	UIJ	.47		.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 8C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106354.4 E 53101	33.348 Deg N 81.734 Deg W	188.30 - 182.7 ft msl	349.70 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/11/99 08/26/99 02/29/00 07/26/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	219.49	219.05	218.33	217.08	ft msl
pH	5.1	5.1	4.9	4.9	pH
Sp. Conductance	32	30	29	26	uS/cm
Water temperature	18.3	19.7	18.2	19.3	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.7	.6	.4	.6	NTU
Volumes purged	2.58	5.57	3.44	0	well volume
Sampling code					
Synchronous water level	219.6 (03/26/99)	218.5 (12/16/99)	218.5 (03/20/00)	216.2 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	46.3		9.1								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<250	U	<125	JU Q	<20	U	<250	JU Q	< EQL	50	ug/L	EX
	1,1-Dichloroethane	<250	U	<125	JU Q	<20	U	<250	JU Q	< EQL	50	ug/L	EX
	1,1-Dichloroethylene	<250	U	<125	JU Q	<20	U	<250	JU Q	< EQL	50	ug/L	EX
	trans-1,2-Dichloroethylene	<250	U	<125	JU Q			<250	JU Q	< EQL	50	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<250	U	<125	JU Q	<20	U	<250	JU Q	< EQL	50	ug/L	EX
	Tetrachloroethylene	<250	U	<125	JU Q	<20	U	<250	JU Q	< EQL	50	ug/L	EX
	1,1,1-Trichloroethane	<250	U	<125	JU Q	<20	U	<250	JU Q	< EQL	50	ug/L	EX
	Trichloroethylene	5880		3420	J Q	2080	J K	1300	J KQ	NDD	50	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	48.3	J	19.3	J	19.5	J I	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2140		1700		1740						ug/L	
	Sodium, total recoverable	3560		3110		2600		2380		< 4600	1	ug/L	EX
	Sulfate	<5000	U	286	J	275	J I	534		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	9.74		2.29	J	1.15	J IK					pCi/L	
	Nonvolatile beta	11.4		5.93	J	3.78						pCi/L	
	Radium, total alpha-emitting	1.3		.55		.7	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL ASB 8TA**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106375.8 E 53124.7	33.348 Deg N 81.734 Deg W	24.600 - 19.40 ft msl	349.60 ft msl	4 " CS	S	CBA
SAMPLE DATE		02/22/99	08/28/99	02/01/00	09/26/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	215.26	214.65	214.58	194.71	ft msl	
pH	4.8	5.2	4.9	4.9	pH	
Sp. Conductance	22	21	21	20	uS/cm	
Water temperature	18.6	19.7	18.5	19.2	deg. C	
Alkalinity as CaCO ₃		0	0	0	mg/L	
Turbidity	3.2	1.5	1.1	6.2	NTU	
Volumes purged	2.53	2.92	2.26	3.22	well volume	
Sampling code						
Synchronous water level	215.6 (06/22/99)	214.5 (12/16/99)	213.3 (06/29/00)	NDD(209.4) (12/31/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.3		8.8								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	14	J I	12.8	J I							ug/L	
	Nickel, total recoverable	<50	U	<26	U							ug/L	
	Selenium, total recoverable	<200	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<146	U	<146	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1300		1060		1100						ug/L	
	Sodium, total recoverable	1480		1390		1380		1440		< 4600	1	ug/L	EX
	Sulfate	<5000	U	288	J	231	J I	752		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.33		1.37		.336	U					pCi/L	
	Nonvolatile beta	.5	UI	2	J	1.57	J I					pCi/L	
	Radium, total alpha-emitting	2.24	UIJ	.27	UI	.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL ASB 9B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104564.7 E 54215.3	33.345 Deg N 81.727 Deg W	164.40 - 158.8 ft msl	309 ft msl	4 " PVC	S	LL
SAMPLE DATE		02/17/99	09/09/99	03/06/00	07/26/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	220.36	219.59	219.39	217.55	ft msl	
pH	6.8	6.8	6.4	6.9	pH	
Sp. Conductance	85	80	69	88	uS/cm	
Water temperature	19.1	19.5	19	20.4	deg. C	
Alkalinity as CaCO ₃	12	23	32	33	mg/L	
Turbidity	.2	1	.2	1.2	NTU	
Volumes purged	3.23	2.47	2.78	2.63	well volume	
Sampling code						
Synchronous water level	220.2 (06/23/99)	219.2 (12/16/99)	218.1 (06/29/00)	216.8 (12/30/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	62		59.3								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	Tetrachloroethylene	6.93		9.24		9.67	J	8.9	J Q	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	Trichloroethylene	7.27		9.57		10.6	J	9.6	J KQ	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	35.5		<146	U	18.5	J I	<53.6	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	832		467		628						ug/L	
	Sodium, total recoverable	2600		2130		2370		2960		< 4600	1	ug/L	EX
	Sulfate	<5000	U	311	J	264	J I	<546	U	< EQL	1	ug/L	EX
Radionuclides													
	Gross alpha	5.77		2.68		2.08	J I					pCi/L	
	Nonvolatile beta	3.89		1.14	UI	.48	U					pCi/L	
	Radium, total alpha-emitting	1.5		.83		1.8	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL ASB 9C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104568.1 E 54201.1	33.345 Deg N 81.727 Deg W	182.9 - 178.2 ft msl	309.90 ft msl	4 " PVC	S	UL

SAMPLE DATE	02/17/99	09/09/99	03/06/00	07/26/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	220.75	219.77	219.8	218	ft msl
pH	5.2	5.6	5.4	5.4	pH
Sp. Conductance	34	39	32	31	uS/cm
Water temperature	18.8	19.3	19.2	20.2	deg. C
Alkalinity as CaCO3	2	18	4	2	mg/L
Turbidity	1	2	.7	1	NTU
Volumes purged	3.64	2.77	2.99	2.51	well volume
Sampling code					
Synchronous water level	220.4 (03/26/99)	219.7 (09/22/99)	219.8 (03/22/00)	215.8 (12/31/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	19.4		18.3								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	7.1	J I							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	Tetrachloroethylene	11.8		10.9		11.6	J	5.8	J Q	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<5	JU Q	< EQL	1	ug/L	EX
	Trichloroethylene	11.8		9.98		11.4	J	6.4	J KQ	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	13.9	J	<146	U	22.7	J I	<35	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1010		729		773						ug/L	
	Sodium, total recoverable	2710		2610		2570		2810		< 4600	1	ug/L	EX
	Sulfate	<5000	U	323	J	272	J I	<494	U	< EQL	1	ug/L	EX
Radionuclides													
	Gross alpha	1.08		2.57		.799	J I					pCi/L	
	Nonvolatile beta	-.09	UI	1.25	UI	.964	U					pCi/L	
	Radium, total alpha-emitting	1.38	UIJ	.44	UI	.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 10CR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105655.4 E 52969.7	33.346 Deg N 81.733 Deg W	181.7 - 171.7 ft msl	349.20 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/11/99 09/07/99 03/06/00 07/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	221.52	219.89	221.52	218.59	ft msl
pH	5.4	4.3	5.3	5.8	pH
Sp. Conductance	42	43	41	41	uS/cm
Water temperature	19.3	19.8	19.5	20.7	deg. C
Alkalinity as CaCO3		0	1	0	mg/L
Turbidity	.2	.3	.3	.9	NTU
Volumes purged	2.40	2.54	3.50	3.04	well volume
Sampling code					
Synchronous water level	221.6 (06/25/99)	220.2 (12/16/99)	219.2 (06/29/00)	217.7 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.6		8.6								ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	JU	<5	JU LQ	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	JU	<5	JU LQ	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	JU	<5	JU LQ	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	JU	<5	JU LQ	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	JU	<5	JU LQ	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	3.86	J I	3.35	J	2.9	J ILQ	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	JU	<5	JU LQ	< EQL	1	ug/L	EX
	Trichloroethylene	192		179		179	J	120	J KQ	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable			16.8	J	<146	U	55.2	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen			1260		1260						ug/L	
+	Sodium, total recoverable			5080		4910		5960		> 4600	1	ug/L	EX
	Sulfate			400		399		630		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha			2.21		.827	J I					pCi/L	
	Nonvolatile beta			13.23	J	2.5						pCi/L	
	Radium, total alpha-emitting			.41		.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MCB 5C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97315.1 E 44862.8	33.314 Deg N 81.738 Deg W	161.2 - 156.2 ft msl	339.10 ft msl	4 " PVC	V	UL

SAMPLE DATE 03/05/99 09/24/99 03/02/00 08/16/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	195.8	194.82	194.18	192	ft msl
pH	9	9.2	8.5	6.3	pH
Sp. Conductance	140	126	126	81	uS/cm
Water temperature	19.5	20.7	19.5	23.2	deg. C
Alkalinity as CaCO3	48	49	46	16	mg/L
Turbidity	4.3	.7	.6	1	NTU
Volumes purged	2.51	2.70	2.18	2.27	well volume
Sampling code					
Synchronous water level	195.5 (06/24/99)	194.6 (12/13/99)	192.8 (06/25/00)	191.8 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	62.3		77.8								ug/L	
	Cyanide	<15.2	U	<10	U							ug/L	
+	Lead, total recoverable	<47	U	<10	U			211		> 15	1	ug/L	EX
	Nickel, total recoverable	<26	U	<50	U							ug/L	
	Selenium, total recoverable	<66	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	.97	J I	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	69.8		70		74.8		68	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	64		61		59		46	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	67				173	J I	<87.2	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	4320				3790						ug/L	
	Sodium, total recoverable	5140				5610		4400		< 4600	1	ug/L	EX
	Sulfate	<5000	U			960						ug/L	
Radionuclides													
	Gross alpha	3.53		3.04		1.64	J I					pCi/L	
	Nonvolatile beta	4.26		5.68	J	5.07						pCi/L	
	Radium, total alpha-emitting	2.22	UIJ	.5	UI	1.2	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MCB 6C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97413.1 E 45207.7	33.315 Deg N 81.737 Deg W	170 - 165 ft msl	332.10 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/09/99 08/23/99 02/15/00 09/07/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	196.7	195.8	194.74	192.69	ft msl
pH	5.9	7.5	6.3	7.3	pH
Sp. Conductance	74	74	54	77	uS/cm
Water temperature	18.8	20	18.7	19.3	deg. C
Alkalinity as CaCO3	17	23	14	29	mg/L
Turbidity	2.4	1	2	.7	NTU
Volumes purged	2.90	3.94	4.03	3.27	well volume
Sampling code					
Synchronous water level	196.2 (06/24/99)	195.3 (12/13/99)	193.5 (06/25/00)	192.5 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	35		40								ug/L	
	Cyanide	<15.2	U	<10	U							ug/L	
	Lead, total recoverable	<47	U	<10	U							ug/L	
	Nickel, total recoverable	<26	U	<50	U							ug/L	
	Selenium, total recoverable	<66	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	JU Q	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	<5	U	1.38		<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	4.23	J IQ	8.7		10.8		6.8		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	63.6		34.7	J	<200	U	56.2	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	962		770		915						ug/L	
	Sodium, total recoverable	3090		2350		2800		2700		< 4600	1	ug/L	EX
	Sulfate	2500		2210		2260						ug/L	
Radionuclides													
	Gross alpha	.05	U	.63		.0701	U					pCi/L	
	Nonvolatile beta	.22	UIJ	2.1		2.46	J I					pCi/L	
	Radium, total alpha-emitting	.54	UIJ	.06	UI	-.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MCB 7C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97139.9 E 44870.6	33.314 Deg N 81.737 Deg W	160.7 - 155.7 ft msl	337.70 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/09/99 09/24/99 03/02/00 08/16/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	195.25	196.4	193.37	191.13	ft msl
pH	11.4	10.9	10.9	10.3	pH
Sp. Conductance	1600	620	1435	607	uS/cm
Water temperature	18	20.2	18.6	22.9	deg. C
Alkalinity as CaCO3	352	114	432	117	mg/L
Turbidity	2.8	.7	2.9	.4	NTU
Volumes purged	.039	2.30	0	2.34	well volume
Sampling code	X		NX		
Synchronous water level	194.6 (06/24/99)	193.7 (12/13/99)	191.9 (06/25/00)	190.9 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	46.9		18.4								ug/L	
	Cyanide	<15.2	U	<10	U							ug/L	
+	Lead, total recoverable	<47	U	<10	U			50.2		> 15	1	ug/L	EX
	Nickel, total recoverable	<26	U	<50	U							ug/L	
	Selenium, total recoverable	<66	U	<3.45	JU I							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6.24		16		8.07		15	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	45.6		47		63.4		41	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	2740		4200		2470		2630		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2650		561		2190						ug/L	
	Sodium, total recoverable	4850		10900		4310		4500		< 4600	1	ug/L	EX
	Sulfate	1890		2280		1770						ug/L	
Radionuclides													
	Gross alpha	1.19	U	2.68	J	.00721	U					pCi/L	
	Nonvolatile beta	.39	UIJ	9.26	J	3.43						pCi/L	
	Radium, total alpha-emitting			.71		.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 9A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102236.7 E 48242.5	33.331 Deg N 81.738 Deg W	144.2 - 139.2 ft msl	359.10 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/19/99 08/10/99 02/18/00 08/18/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	209.41	210.5	208.79	210	ft msl
pH	5.1	6.8	5.8	6.2	pH
Sp. Conductance	27	33	30	38	uS/cm
Water temperature	18.2	20.5	18.4	20.8	deg. C
Alkalinity as CaCO3	7	10	8	10	mg/L
Turbidity	1.1	.6	1.1	1.2	NTU
Volumes purged	3.07	2.83	2.60	2.34	well volume
Sampling code					
Synchronous water level	209.4 (06/24/99)	210 (12/16/99)	207.9 (06/25/00)	208.6 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.09	J I	5	J I							ug/L	
	Cyanide	<10	JU L	<10	U							ug/L	
	Lead, total recoverable	<100	U	17								ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	1,1-Dichloroethane	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	1,1-Dichloroethylene	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	trans-1,2-Dichloroethylene	<50	U	6.36	J K	8.6		<50	U	< EQL	10	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	Tetrachloroethylene	992		732		1320		1400	J K	NDD	10	ug/L	EX
	1,1,1-Trichloroethane	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	Trichloroethylene	747		620		908		1100	J K	NDD	10	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<60.7	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	352		231	J	383	J I					ug/L	
	Sodium, total recoverable	1650		1600		1800		1900		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	506						ug/L	
Radionuclides													
	Gross alpha	.31	UI	.61	J	.444	U					pCi/L	
	Nonvolatile beta	-1.54	UI	.9	J	.576	U					pCi/L	
	Radium, total alpha-emitting	.45	UI	.37	UI	.6	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 9C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102245.6 E 48273	33.331 Deg N 81.738 Deg W	241.6 - 221.6 ft msl	359.60 ft msl	4 " PVC	S	M

SAMPLE DATE 02/18/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	224.9	<i>Not Available</i>	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO3					mg/L
Turbidity					NTU
Volumes purged			0		well volume
Sampling code					
Synchronous water level	()	()	()	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 10A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102451.8 E 47954.4	33.331 Deg N 81.74 Deg W	125.2 - 120.2 ft msl	357.20 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/19/99 08/19/99 02/24/00 08/18/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	210.1	211.44	209.15	209.6	ft msl
pH	5.9	5.3	5.2	5.3	pH
Sp. Conductance	22	19	20	20	uS/cm
Water temperature	19	21	18.9	22	deg. C
Alkalinity as CaCO3	2	3	1	2	mg/L
Turbidity	.3	.6	.2	.3	NTU
Volumes purged	2.38	2.63	2.32	3.13	well volume
Sampling code					
Synchronous water level	209.9 (06/23/99)	210.6 (12/16/99)	208.1 (06/25/00)	208.5 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	10.3		5.6	J I							ug/L	
	Cyanide	<10	JU L	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.92	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	8.43	J I	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	.77	J IK	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	75		10.7	J K	22.6		32	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	95.9		86.6	J K	90.7		250		> 5	5	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	364		275	J	308	J I					ug/L	
	Sodium, total recoverable	1530		1540		1700		1680		< 4600	1	ug/L	EX
	Sulfate	<5000	U	576		472						ug/L	
Radionuclides													
	Gross alpha	.91	UI	1.35		.441	U					pCi/L	
	Nonvolatile beta	1.56	UI	1.11	UI	.479	U					pCi/L	
	Radium, total alpha-emitting	1.54	J	.28	UI	.4	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 10B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102488.2 E 47943.1	33.331 Deg N 81.74 Deg W	157.40 - 152.4 ft msl	357.60 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/05/99 08/17/99 02/29/00 08/24/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	212.63	212.98	211.05	<i>Not Available</i>	ft msl
pH	5.1	5	5.2	5.1	pH
Sp. Conductance	29	37	37	35	uS/cm
Water temperature	19.2	19.8	18.6	20.1	deg. C
Alkalinity as CaCO3	1	1	0	0	mg/L
Turbidity	.6	.8	.8	1.9	NTU
Volumes purged	2.46	2.35	2.30		well volume
Sampling code				S	
Synchronous water level	212.5 (06/23/99)	212.9 (12/16/99)	210.7 (06/25/00)	210.9 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	12		14								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<9.3	JU I							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	2.75	J I	4.35	J K	15.6	J K	5.6		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	6.9		9.03	J K	19.4	J K	6.3		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	70		96	J	80.1	J I					ug/L	
	Sodium, total recoverable	2460		2290		2800		2720		< 4600	1	ug/L	EX
	Sulfate	8160		8090		7980						ug/L	
Radionuclides													
	Gross alpha	-.17	UI	1	UI	-.0344	U					pCi/L	
	Nonvolatile beta	-1.49	UI	1.57	UI	.687	U					pCi/L	
	Radium, total alpha-emitting	.92		.37		0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 11C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102658.6 E 48579.4	33.332 Deg N 81.738 Deg W	182.90 - 177.9 ft msl	365.5 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/22/99 08/10/99 03/08/00 08/09/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	218.75	218.88	217.85	216.74	ft msl
pH	4.4	4.8	4.7	5.4	pH
Sp. Conductance	120	170	153	150	uS/cm
Water temperature	18.5	21.6	19.4	21	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.4	.4	.4	.6	NTU
Volumes purged	3.00	4.22	3.76	3.23	well volume
Sampling code					
Synchronous water level	218.9 (06/23/99)	218.6 (12/16/99)	217 (06/24/00)	217.7 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	47.1		56		48.7		47.6		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U	<20	U	<5.52	U V	< EQL	1	ug/L	ML
	Nickel, total recoverable	<7.65	JU	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<2500	U	<1	U	112	J IK	<200	JU L	< EQL	200	ug/L	ML
	1,1-Dichloroethane	<2500	U	<1	U	<200	U	<200	JU L	< EQL	200	ug/L	ML
	1,1-Dichloroethylene	<2500	U	<1	U	<200	U	<200	JU L	< EQL	200	ug/L	ML
	trans-1,2-Dichloroethylene	<2500	U	<1	U	<200	U	<200	JU L	< EQL	200	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<2500	U	<1	U	<200	U	<200	JU L	< EQL	200	ug/L	ML
	Tetrachloroethylene	<2500	U	93.1	J K	<200	JU K	<200	JU L	< EQL	200	ug/L	ML
	1,1,1-Trichloroethane	<2500	U	<1	U	<200	U	<200	JU L	< EQL	200	ug/L	ML
	Trichloroethylene	42900		40300		40300	J K	33500	J L	NDD	200	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	101		122	J	160	J I	119		> 100	1	ug/L	ML
	Nitrate-nitrite as nitrogen	16700		15500		16900						ug/L	
	Sodium, total recoverable	7150		5870		5700		4580		< 4600	1	ug/L	ML
	Sulfate	<5000	U	252	J	165	J I					ug/L	
Radionuclides													
	Gross alpha	2.23		9.66		5.1						pCi/L	
	Nonvolatile beta	1.12	UI	9.48		4.23						pCi/L	
	Radium, total alpha-emitting	.23	UI	3.19		2.9						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 11F**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102629.3 E 48577	33.332 Deg N 81.738 Deg W	243.1 - 223.1 ft msl	365.60 ft msl	4 " PVC	S	M
SAMPLE DATE		02/22/99	08/10/99	03/14/00	08/09/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	231.6	230.45	228.4	227.4	ft msl	
pH	4.4	5.3	5.1	4.8	pH	
Sp. Conductance	18	28	31	35	uS/cm	
Water temperature	17.6	21.6	18.7	22.3	deg. C	
Alkalinity as CaCO ₃		0	0	0	mg/L	
Turbidity	.7	.6	4.1	2.1	NTU	
Volumes purged	3.31	3.62	7.77	2.60	well volume	
Sampling code						
Synchronous water level	()	228.7 (12/16/99)	227.6 (06/24/00)	226.3 (12/27/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	4.4	J I	4.5	J I	4.73	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U	<6.72	JU IV	<6.72	U V	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<500	U	.41	J IK	1.4	J IK	<10	JU L	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<500	U	<1	U	<5	U	<10	JU L	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<500	U	1.94	J K	<5	U	<10	JU L	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<500	U	<1	U	<5	U	<10	JU L	< EQL	10	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<500	U	<1	U	<5	U	<10	JU L	< EQL	10	ug/L	ML
	Tetrachloroethylene	1170		1230		1600	J K	1490	J L	NDD	10	ug/L	ML
	1,1,1-Trichloroethane	<500	U	3.81	J K	4.55	J IK	<10	JU L	< EQL	10	ug/L	ML
	Trichloroethylene	563		523		843	J K	478	J L	NDD	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable			191	J	160	J I	99.6		< 100	1	ug/L	ML
	Nitrate-nitrite as nitrogen	1210		755		824						ug/L	
	Sodium, total recoverable			2890		3800		3840		< 4600	1	ug/L	ML
	Sulfate	<5000	U	886		961						ug/L	
Radionuclides													
	Gross alpha	.26	UI	6.27		1.77						pCi/L	
	Nonvolatile beta	-.62	UI	1.8	U	1.13	U					pCi/L	
	Radium, total alpha-emitting	2.36		1.66		.8	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 12B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102272.76 E 47142.09	33.329 Deg N 81.741 Deg W	162.40 - 157.4 ft msl	350.30 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/22/99 08/10/99 02/29/00 08/23/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	217.63	218.4	216.68	215.45	ft msl
pH	4.1	4.9	5.1	4.9	pH
Sp. Conductance	50	102	88	91	uS/cm
Water temperature	17.8	21.5	18.4	20.4	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.8	.6	2.2	.9	NTU
Volumes purged	2.61	2.80	2.50	3.02	well volume
Sampling code					
Synchronous water level	217.7 (06/23/99)	217.6 (12/16/99)	215.6 (06/25/00)	210.5 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	23.6		25								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<1250	U	<1.39	JU KV	<50	U	<500	U	< EQL	100	ug/L	EX
	1,1-Dichloroethane	<1250	U	<1	U	<50	U	<500	U	< EQL	100	ug/L	EX
	1,1-Dichloroethylene	<1250	U	7.53	J K	<50	U	<500	U	< EQL	100	ug/L	EX
	trans-1,2-Dichloroethylene	<1250	U	<1	U			<500	U	< EQL	100	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<1250	U	3.35	J K	<50	U	<500	U	< EQL	100	ug/L	EX
+	Tetrachloroethylene	18300		13500		18200	J K	15000		> 5	100	ug/L	EX
	1,1,1-Trichloroethane	<1250	U	1.47	J K	<50	U	<500	U	< EQL	100	ug/L	EX
+	Trichloroethylene	15600		15400		20000	J K	13000		> 5	100	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	39.9		<200	U	160	J I	<161	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	12000		9950		9870						ug/L	
+	Sodium, total recoverable	10600		9450		12000		8680		> 4600	1	ug/L	EX
	Sulfate	<5000	U	325	J	306						ug/L	
Radionuclides													
	Gross alpha	5.51		8.89		4.39						pCi/L	
	Nonvolatile beta	9.53		10.89		6						pCi/L	
	Radium, total alpha-emitting	4.86	UIJ	2.61		1.4	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 12TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102287.86 E 47130.37	33.329 Deg N 81.741 Deg W	-102.6 - -113. ft msl	350 ft msl	4 " STEEL	S	CBA

SAMPLE DATE 02/08/99 08/17/99 02/03/00 08/23/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	192.55	191.43	191.55	189.97	ft msl
pH	5.9	5.9	5.7	7.1	pH
Sp. Conductance	32	35	33	33	uS/cm
Water temperature	19.8	19.7	18.9	22.4	deg. C
Alkalinity as CaCO3	8	12	6	16	mg/L
Turbidity	.4	.4	.9	.8	NTU
Volumes purged	8.86	8.55	8.53	9.08	well volume
Sampling code					
Synchronous water level	192.4 (06/23/99)	191.6 (12/16/99)	190.4 (06/25/00)	NDD(213.6) (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	12								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	74.4	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	35		<500	U	<500	U					ug/L	
	Sodium, total recoverable	1240		1280		1400		1250		< 4600	1	ug/L	EX
	Sulfate	<5000	U	827		579						ug/L	
Radionuclides													
	Gross alpha	.17	UI	2.29		1.16	J I					pCi/L	
	Nonvolatile beta	.54	UI	1.05	UI	1.11	U					pCi/L	
	Radium, total alpha-emitting	.94		.62		.4	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 15A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102983.5 E 48827	33.333 Deg N 81.738 Deg W	167.8 - 162.8 ft msl	367.70 ft msl	3.8 " PVC	S	UL

SAMPLE DATE 02/22/99 08/17/99 02/29/00 08/21/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	218.85	218.68	217.94	218.05	ft msl
pH	6.2	6.8	6.7	6.7	pH
Sp. Conductance	45	67	51	55	uS/cm
Water temperature	20.3	22.4	19.8	20.5	deg. C
Alkalinity as CaCO3	10	22	8	16	mg/L
Turbidity	5.9	3	1.4	1.2	NTU
Volumes purged	3.33	.905	2.47	2.40	well volume
Sampling code					
Synchronous water level	218.9 (06/23/99)	218.6 (12/16/99)	217.1 (06/24/00)	216.5 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	12		11								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	3.7	J I							ug/L	
	Nickel, total recoverable	<50	U	<9.5	JU I							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<500	U	.47	J IK	<50	U	<250	U	< EQL	50	ug/L	EX
	1,1-Dichloroethane	<500	U	<1	U	<50	U	<250	U	< EQL	50	ug/L	EX
	1,1-Dichloroethylene	<500	U	<1	U	<50	U	<250	U	< EQL	50	ug/L	EX
	trans-1,2-Dichloroethylene	<500	U	<1	U			<250	U	< EQL	50	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<500	U	<1	U	<50	U	<250	U	< EQL	50	ug/L	EX
+	Tetrachloroethylene	1660		1240		2020	J K	1600		> 5	50	ug/L	EX
	1,1,1-Trichloroethane	<500	U	<1	U	<50	U	<250	U	< EQL	50	ug/L	EX
+	Trichloroethylene	8740		7990		12100	J K	7800		> 5	50	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	779		550		590						ug/L	
	Sodium, total recoverable	2100		2210		2000		2410		< 4600	1	ug/L	EX
	Sulfate	<5000	U	361	J	307						ug/L	
Radionuclides													
	Gross alpha	.51	UI	1.56		.491	U					pCi/L	
	Nonvolatile beta	-1.07	UI	2.48		1.3	U					pCi/L	
	Radium, total alpha-emitting	1.2		.36	UI	.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 15AA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102953.2 E 48818.5	33.333 Deg N 81.738 Deg W	147.1 - 142.4 ft msl	369.20 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/22/99 08/17/99 02/29/00 08/21/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	212.35	229.8	211.61	211	ft msl
pH	5.3	6.2	6.2	6.2	pH
Sp. Conductance	33	33	44	34	uS/cm
Water temperature	18.5	23	18.8	19.6	deg. C
Alkalinity as CaCO3	9	10	10	10	mg/L
Turbidity	.4	.7	.5	.9	NTU
Volumes purged	5.16	2.34	2.39	3.10	well volume
Sampling code					
Synchronous water level	212.4 (06/23/99)	212.4 (12/16/99)	211.5 (03/21/00)	210.4 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	15.7		13		16.9		15.1		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<9.6	JU I	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<4.1	JU I	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<25	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<25	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<25	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<1	U			<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	14.1	J I	11	J K	13.6	J K	13.4	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	298		275	J K	263	J K	230	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<40	U	< EQL	1	ug/L	ML
	Nitrate-nitrite as nitrogen	120		<500	U	153	J I					ug/L	
	Sodium, total recoverable	1580		1530		1700		1800		< 4600	1	ug/L	ML
	Sulfate	<5000	U	<200	U	381						ug/L	
Radionuclides													
	Gross alpha	2.35	UI	.24	UI	-.0638	U					pCi/L	
	Nonvolatile beta	3.81		-.6	UI	.473	U					pCi/L	
	Radium, total alpha-emitting	-.25	UI	.12	U	.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 15D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102971.2 E 48827.5	33.333 Deg N 81.738 Deg W	241.4 - 221.9 ft msl	368.5 ft msl	4 " PVC	S	M

SAMPLE DATE 02/23/99 08/18/99 02/29/00 08/21/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	230.52	237.6	<i>Not Available</i>	237.5	ft msl
pH	4.8	7	5.6	5.6	pH
Sp. Conductance	20	26	25	25	uS/cm
Water temperature	16.2	21.1	19.2	19.3	deg. C
Alkalinity as CaCO3	1	1	2	2	mg/L
Turbidity	4.9	5.5	11.8	7.8	NTU
Volumes purged	.550	.198		.299	well volume
Sampling code	X	NX	NX	NX	
Synchronous water level	237.5 (06/23/99)	237.5 (09/21/99)	237.5 (06/24/00)	227.3 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.63	J I	2.9	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	5.75								ug/L	
	Nickel, total recoverable	<50	U	<13	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<250	U	<1	U	<2	U	<120	U	< EQL	25	ug/L	EX
	1,1-Dichloroethane	<250	U	<1	U	<2	U	<120	U	< EQL	25	ug/L	EX
	1,1-Dichloroethylene	<250	U	<1	U	<2	U	<120	U	< EQL	25	ug/L	EX
	trans-1,2-Dichloroethylene	<250	U	<1	U			<120	U	< EQL	25	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<250	U	<1	U	<2	U	<120	U	< EQL	25	ug/L	EX
	Tetrachloroethylene	326		176	J K	95.4	J K	73	J I	NDD	25	ug/L	EX
	1,1,1-Trichloroethane	<250	U	.75	J IK	<2	U	<120	U	< EQL	25	ug/L	EX
+	Trichloroethylene	2670		1580		595	J K	540		> 5	25	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable					<200	U	30.6	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen					1280						ug/L	
	Sodium, total recoverable					3500		3530		< 4600	1	ug/L	EX
	Sulfate					345						ug/L	
Radionuclides													
	Gross alpha					.88	J I					pCi/L	
	Nonvolatile beta					.858	U					pCi/L	
	Radium, total alpha-emitting					.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 16A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103693.9 E 48965.1	33.33498 Deg N 81.73933 Deg W	166.80 - 161.8 ft msl	367.5 ft msl	3.8 " PVC	V	UL

SAMPLE DATE 03/01/99 08/18/99 03/14/00 09/22/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	218.1	217.67	222.82	215.95	ft msl
pH	5.4	6	5.7	5.1	pH
Sp. Conductance	34	43	34	32	uS/cm
Water temperature	19.5	23.5	20.2	19.8	deg. C
Alkalinity as CaCO3	4	7		0	mg/L
Turbidity	2	5.4	1.3	2.9	NTU
Volumes purged	2.66	0	0	6.91	well volume
Sampling code					
Synchronous water level	217.8 (06/23/99)	217.4 (12/14/99)	215.9 (06/24/00)	215.4 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.74	J I	6.2	J I	10.7	J I	3.56	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	14.8		14.8	J IV	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	23	J I	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<5	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<1250	U	<1	U	23	J I	<50	JU L	< EQL	50	ug/L	ML
	1,1-Dichloroethane	<1250	U	<1	U	<50	U	<50	JU L	< EQL	50	ug/L	ML
	1,1-Dichloroethylene	<1250	U	3.31	J K	<50	U	<50	JU L	< EQL	50	ug/L	ML
	trans-1,2-Dichloroethylene	<1250	U	<1	U	<50	U	<50	JU L	< EQL	50	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<1250	U	<1	U	<50	U	<50	JU L	< EQL	50	ug/L	ML
	Tetrachloroethylene	1400		1600		1480		1720	J L	NDD	50	ug/L	ML
	1,1,1-Trichloroethane	<1250	U	.6	J IK	<50	U	<50	JU L	< EQL	50	ug/L	ML
	Trichloroethylene	9130		10600		12700		8190	J L	NDD	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<40	U	< EQL	1	ug/L	ML
	Nitrate-nitrite as nitrogen	1420		1490		1800						ug/L	
	Sodium, total recoverable	2370		2340		2800		2500		< 4600	1	ug/L	ML
	Sulfate	<5000	U	<200	U	111	J I					ug/L	
Radionuclides													
	Gross alpha	1.12	UI	1.32		.754	J I					pCi/L	
	Nonvolatile beta	-.14	UI	.76	UI	1.82	J I					pCi/L	
	Radium, total alpha-emitting	.6	J	.93		2.2	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 16C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103714.1 E 48970.5	33.335 Deg N 81.739 Deg W	244.8 - 224.8 ft msl	367.60 ft msl	3.8 " PVC	B	M

SAMPLE DATE

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO ₃					mg/L
Turbidity					NTU
Volumes purged					well volume
Sampling code					
Synchronous water level	229.8 (06/23/99)	229.5 (09/21/99)	228.5 (03/21/00)	226.8 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 17B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101994.6 E 46237.7	33.327 Deg N 81.743 Deg W	190.80 - 185.8 ft msl	359.20 ft msl	3.8 " PVC	S	GC

SAMPLE DATE 03/01/99 08/12/99 03/02/00 08/24/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	226.05	225.7	224.69	223.15	ft msl
pH	5.2	5.4	5.2	4.6	pH
Sp. Conductance	94	95	89	92	uS/cm
Water temperature	18.3	20.8	18.3	20	deg. C
Alkalinity as CaCO3	2	2	0	3	mg/L
Turbidity	.4	.6	.4	.8	NTU
Volumes purged	2.91	2.85	2.88	2.90	well volume
Sampling code					
Synchronous water level	225.6 (06/24/99)	225.5 (09/21/99)	223.6 (06/25/00)	222.2 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	40		44				42		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	5.7				<9.25	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	8.9	J I			<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<5	U			<12	U V	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<1250	U	.4	J IK	<50	JU L	<50	JU L	< EQL	50	ug/L	ML
	1,1-Dichloroethane	<1250	U	<1	U	<50	JU L	<50	JU L	< EQL	50	ug/L	ML
	1,1-Dichloroethylene	<1250	U	12.6	J K	<50	JU L	<50	JU L	< EQL	50	ug/L	ML
	trans-1,2-Dichloroethylene	<1250	U	<1	U			<50	JU L	< EQL	50	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<1250	U	<1	U	<50	JU L	<50	JU L	< EQL	50	ug/L	ML
	Tetrachloroethylene	1680		1720		1980	J L	1330	J L	NDD	50	ug/L	ML
	1,1,1-Trichloroethane	<1250	U	2	J K	<50	JU L	<50	JU L	< EQL	50	ug/L	ML
	Trichloroethylene	12100		11200		11300	J L	7740	J L	NDD	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	71.6		91.6	J	97	J I	201	J IL	NDD	10	ug/L	ML
+	Nitrate-nitrite as nitrogen	9150		8340		8800		8750		> 2400	5	ug/L	EX
+	Sodium, total recoverable	10100		11200		10000		10100		> 4600	10	ug/L	ML
	Sulfate	<5000	U	<400	U	<400	U					ug/L	
Radionuclides													
	Gross alpha	4.83		13.93		6.9	J K	9.64		< 15	1	pCi/L	GP
	Nonvolatile beta	3.9	UI	11.84		5.51		7.42		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	4.75	J	4.1	J	3.7		4.81		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 17BB

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102009.5 E 46220.8	33.327 Deg N 81.743 Deg W	137.3 - 132.6 ft msl	359 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/03/99 08/12/99 03/02/00 08/21/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	212.37	212.97	211.3	210.05	ft msl
pH	5.5	5.5	5.3	5.5	pH
Sp. Conductance	100	114	106	105	uS/cm
Water temperature	18.2	21.1	18.4	20.7	deg. C
Alkalinity as CaCO3	4	4	0	3	mg/L
Turbidity	3.2	2.3	1	4.1	NTU
Volumes purged	2.21	2.40	2.41	2.05	well volume
Sampling code					
Synchronous water level	212.3 (06/24/99)	212.3 (12/16/99)	211 (03/21/00)	209.6 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	35		35				33.1		< 2000	1	ug/L	ML
	Cyanide	<15.2	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<1.8	U V			<5.04	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<8.1	JU I			<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<5	U			<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<125	U	<1	U	<10	JU L	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<125	U	<1	U	<10	JU L	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<125	U	.89	J IK	<10	JU L	<10	U	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<125	U	1.62	J K			<10	U	< EQL	10	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U	<1	U	<10	JU L	<10	U	< EQL	10	ug/L	ML
	Tetrachloroethylene	626		487		619	J L	420	J K	NDD	10	ug/L	ML
	1,1,1-Trichloroethane	<125	U	<1	U	<10	JU L	<10	U	< EQL	10	ug/L	ML
	Trichloroethylene	2620		1950		2430	J L	1710	J K	NDD	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	38.1		73.1	J	86	J I	55.2	J L	NDD	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	8550		10500		10700		10200		> 2400	5	ug/L	EX
+	Sodium, total recoverable	5670		6780		7600		6570		> 4600	1	ug/L	ML
	Sulfate	<5000	U	<200	U	405						ug/L	
Radionuclides													
	Gross alpha	6.79	UI	3.27		1.22	J IK	1.88	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	6.5		5.8	UJ	3.64		7.45	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.74	J	.82		.3	U	.723	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 18A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100416.1 E 46110.4	33.323 Deg N 81.74 Deg W	163.9 - 158.9 ft msl	341.90 ft msl	3.8 " PVC	S	UL
SAMPLE DATE		02/24/99	08/18/99	03/02/00	08/23/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	212.43	212.8	211.39	209.95	ft msl	
pH	4.2	5.1	4.6	5.2	pH	
Sp. Conductance	50	53	52	53	uS/cm	
Water temperature	17.8	23.8	18.2	21.5	deg. C	
Alkalinity as CaCO3		0	0	0	mg/L	
Turbidity	1.2	2.1	1.2	20.2	NTU	
Volumes purged	3.90	3.52	2.79	4.06	well volume	
Sampling code						
Synchronous water level	212.7 (06/24/99)	212.1 (12/16/99)	210.2 (06/25/00)	209 (12/27/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	20.4		17				18.7		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	4.12	J I			<5.23	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<12.6	JU	20	J I			<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<5	U			<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	1.09	J K	1.06		1.03	J K	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U			<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	12		10.8	J K	13.3		13.6	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	30.3		30.4	J K	35.2		31.2	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	56.6	J L	NDD	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	4460		3540		3840		4470		> 2400	5	ug/L	EX
	Sodium, total recoverable	3030		3360		3500		3430		< 4600	1	ug/L	ML
	Sulfate	<5000	U	491		307						ug/L	
Radionuclides													
	Gross alpha	3.21	UI	.39	UI	.359	U	.843	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	3.7		4.21		2.69		3.38	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.73	J	.64	UI	.2	U	.113	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 18B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100424.1 E 46115.7	33.323 Deg N 81.74 Deg W	198.5 - 193.5 ft msl	342.10 ft msl	3.8 " PVC	S	M

SAMPLE DATE 02/24/99 08/18/99 03/02/00 09/22/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	222.02	222.08	220.77	218.65	ft msl
pH	8.2	6.3	5.5	5.3	pH
Sp. Conductance	200	130	115	97	uS/cm
Water temperature	15.8	21.8	18	18.8	deg. C
Alkalinity as CaCO3	71	23	2	0	mg/L
Turbidity	6.6	1.4	1.3	3.5	NTU
Volumes purged	3.67	5.32	3.33	8.27	well volume
Sampling code					
Synchronous water level	222 (06/24/99)	221.1 (12/16/99)	220.5 (03/21/00)	218.2 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	64.9		80				29.3		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	2.08	J I			<5.37	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<8.15	JU	<9.2	JU I			<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<5	U			<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	2.2	J I	2.8	J K	2.85		1.6	J I	NDD	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	29.3		31	J K	46.3		28		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	.47	J I	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	10.3		11.3	J K	15.7		9.2		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	423		<200	U	<40	U	< EQL	1	ug/L	ML
+	Nitrate-nitrite as nitrogen	6940		8450		8290		6910		> 2400	5	ug/L	EX
+	Sodium, total recoverable	8370		9410		8500		8800		> 4600	1	ug/L	ML
	Sulfate	<5000	U	935		195	J I					ug/L	
Radionuclides													
	Gross alpha	4.44	UI	4.98		3.83		3.15		< 15	1	pCi/L	GP
	Nonvolatile beta	8.44		81.71	J	10.5		7.05		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.41	J	1.49		1.7	U V	1.52		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 19B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100999.3 E 50934.8	33.332 Deg N 81.729 Deg W	147.70 - 142.7 ft msl	300.40 ft msl	3.8 " PVC	S	LL

SAMPLE DATE 09/16/99 02/03/00 08/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	163.6	215.27	214.6	ft msl
pH		4.8	4.2	5.1	pH
Sp. Conductance		19	20	20	uS/cm
Water temperature		18.8	18.6	20	deg. C
Alkalinity as CaCO ₃		0	0	0	mg/L
Turbidity		.4	.4	1	NTU
Volumes purged		6.03	2.54	2.95	well volume
Sampling code					
Synchronous water level	()	215.7 (12/14/99)	214.2 (06/24/00)	213.7 (12/29/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable			3.72	J I							ug/L	
	Cyanide			<10	U							ug/L	
	Lead, total recoverable			<10	U							ug/L	
	Nickel, total recoverable			<50	U							ug/L	
	Selenium, total recoverable			<10	U							ug/L	
Organics													
	Chlorobenzene			<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane			<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene			<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene			<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane			<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene			<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane			<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene			<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	980		501		2760						ug/L	
	Sodium, total recoverable	1490		1600		1550		1790		< 4600	1	ug/L	EX
	Sulfate	<5000	U	2260	J	285						ug/L	
Radionuclides													
	Gross alpha	.23	UI	3.25		.844	J I					pCi/L	
	Nonvolatile beta	-.79	UI	4.12	J	.58	U					pCi/L	
	Radium, total alpha-emitting	.003	UI	.28	U	.5	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 19C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100992.1 E 50942.4	33.332 Deg N 81.729 Deg W	218.7 - 198.7 ft msl	300.80 ft msl	3.8 " PVC	S	M

SAMPLE DATE 09/27/99 03/02/00 08/24/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	234.59	233.5	232.2	ft msl
pH		5.3	5.3	8.7	pH
Sp. Conductance		90	87	97	uS/cm
Water temperature		19.7	19.3	20.8	deg. C
Alkalinity as CaCO3		1	0	4	mg/L
Turbidity		1.7	1	1.9	NTU
Volumes purged		4.08	2.81	5.68	well volume
Sampling code					
Synchronous water level	()	234.6 (09/22/99)	233.3 (03/23/00)	231.7 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable			4.99	J I							ug/L	
	Cyanide			<10	JU Q							ug/L	
	Lead, total recoverable			4.15	J I							ug/L	
	Nickel, total recoverable			<50	U							ug/L	
	Selenium, total recoverable			<10	U							ug/L	
Organics													
	Chlorobenzene			<.48	U V	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane			<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene			<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene			<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane			<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene			3.81	J K	3.77		3.5	J IK	NDD	1	ug/L	EX
	1,1,1-Trichloroethane			<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene			26.4	J K	20.3		21	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U			<200	U	<73	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	9830				4400						ug/L	
+	Sodium, total recoverable	16100				16000		19900		> 4600	1	ug/L	EX
	Sulfate	4580	J			13400						ug/L	
Radionuclides													
	Gross alpha	1.39	UI			.767	U					pCi/L	
	Nonvolatile beta	1.53	UI			1.34	J I					pCi/L	
	Radium, total alpha-emitting	3.54	UI			.4	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 20A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103545.1 E 46060.5	33.33 Deg N 81.747 Deg W	162.60 - 157.6 ft msl	355.30 ft msl	3.8 " PVC	S	UL

SAMPLE DATE 03/01/99 08/19/99 03/27/00 09/07/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	218.5	218.69	217.07	215.65	ft msl
pH	5.5	5.8	5.7	5.6	pH
Sp. Conductance	22	22	21	21	uS/cm
Water temperature	18.4	21	19.3	19.9	deg. C
Alkalinity as CaCO3	3	4	2	4	mg/L
Turbidity	1.7	4.1	4.1	5.4	NTU
Volumes purged	2.63	2.73	2.96	2.43	well volume
Sampling code					
Synchronous water level	218.4 (06/23/99)	218.1 (12/14/99)	216.2 (06/25/00)	215.1 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.83	J I	6.7	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<6.71	U V							ug/L	
	Nickel, total recoverable	<7.96	JU	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	1,1-Dichloroethane	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	1,1-Dichloroethylene	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	trans-1,2-Dichloroethylene	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	Tetrachloroethylene	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	1,1,1-Trichloroethane	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
+	Trichloroethylene	1160		1090	J K	986		950		> 5	10	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	52.3	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1690		1030		1080		1070		< 2400	5	ug/L	EX
	Sodium, total recoverable	1560		1100		1700		1710		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	186	J I					ug/L	
Radionuclides													
	Gross alpha	.92	UI	1.02		.166	U					pCi/L	
	Nonvolatile beta	-.97	UI	.54	UI	.738	U					pCi/L	
	Radium, total alpha-emitting	1.27	UI	.6		.5	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 20C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103556.3 E 46088.8	33.33 Deg N 81.747 Deg W	232.7 - 212.7 ft msl	354.70 ft msl	3.8 " PVC	S	M

SAMPLE DATE 08/19/99 03/31/00 09/20/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	226.8	225.56	222.2	ft msl
pH		10	9.6	9.8	pH
Sp. Conductance		155	159	169	uS/cm
Water temperature		21.6	19.4	22	deg. C
Alkalinity as CaCO3		48	47	34	mg/L
Turbidity		14	25.3	139	NTU
Volumes purged		.250	.548		well volume
Sampling code		NX	NX	NX	
Synchronous water level	226.8 (06/23/99)	226.2 (12/14/99)	225.1 (06/25/00)	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.51	J I	4	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<8.73	U V							ug/L	
	Nickel, total recoverable	<9.99	JU	<17	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	3.51	J I	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	597		502		390		2320		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2390		1720		2190		2090		< 2400	5	ug/L	EX
+	Sodium, total recoverable	4470		3240		7900		4640		> 4600	1	ug/L	EX
	Sulfate	7760		12200		9970						ug/L	
Radionuclides													
	Gross alpha	7.66	UI	5.92		1.97	J I					pCi/L	
	Nonvolatile beta	8.73		9.83	UJ	1.78	J I					pCi/L	
	Radium, total alpha-emitting	1.05	J	2.41		-2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 21B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104000.1 E 47271.8	33.333 Deg N 81.744 Deg W	147.2 - 142.5 ft msl	355 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/23/99 08/19/99 03/03/00 09/07/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	219.45	219.89	218.54	216.95	ft msl
pH	5.1	6	5.9	5.9	pH
Sp. Conductance	25	28	23	29	uS/cm
Water temperature	17.9	19.7	19.1	19.3	deg. C
Alkalinity as CaCO3	2	5	5	4	mg/L
Turbidity	.3	.6	.3	1.3	NTU
Volumes purged	2.52	2.63	2.85	2.67	well volume
Sampling code					
Synchronous water level	219.5 (06/23/99)	219.4 (12/14/99)	217.6 (06/25/00)	216.4 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	17.9		18								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.45	U	V						ug/L	
	Nickel, total recoverable	<50	U	<8.2	JU	I						ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<25	U	<1	U	<1	U	<50	U	< EQL	10	ug/L	EX
	1,1-Dichloroethane	<25	U	<1	U	<1	U	<50	U	< EQL	10	ug/L	EX
	1,1-Dichloroethylene	<25	U	<1	U	<1	U	<50	U	< EQL	10	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<1	U			<50	U	< EQL	10	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<1	U	<1	U	<50	U	< EQL	10	ug/L	EX
	Tetrachloroethylene	<25	U	<1	U	<1	U	<50	U	< EQL	10	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<1	U	<1	U	<50	U	< EQL	10	ug/L	EX
+	Trichloroethylene	357		324	J	K	293	280		> 5	10	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLPEPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	58.8	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	812		613		688						ug/L	
	Sodium, total recoverable	1720		1760		2000		1830		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	293						ug/L	
Radionuclides													
	Gross alpha	.71	UI	1.7		.442	U					pCi/L	
	Nonvolatile beta	-1.19	UI	3.17		.917	U					pCi/L	
	Radium, total alpha-emitting	1.56	UI	.51		.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 21C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103973 E 47234.6	33.333 Deg N 81.744 Deg W	233.20 - 213.2 ft msl	354.80 ft msl	3.8 " PVC	S	M

SAMPLE DATE 02/08/99 08/13/99 02/04/00 09/11/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	228.77	228.95	228.2	226.5	ft msl
pH	4.8	5.4	5.3	5.2	pH
Sp. Conductance	22	22	21	22	uS/cm
Water temperature	18.8	19.9	17.6	21.2	deg. C
Alkalinity as CaCO3	1	4	1	0	mg/L
Turbidity	1.5	4	2.6	2.3	NTU
Volumes purged	3.98	5.28	9.20	9.61	well volume
Sampling code					
Synchronous water level	229 (06/23/99)	228.8 (09/21/99)	227.1 (06/25/00)	226.5 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	7.9	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	8.99								ug/L	
	Nickel, total recoverable	<50	U	<11	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<50	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1280		824		996		986		< 2400	5	ug/L	EX
	Sodium, total recoverable	1580		1940		2200		2140		< 4600	1	ug/L	EX
	Sulfate	<5000	U	2170	J	472						ug/L	
Radionuclides													
	Gross alpha	2.61		8.12		2.98	J K					pCi/L	
	Nonvolatile beta	1.94		7.26	J	2.35						pCi/L	
	Radium, total alpha-emitting	2.39		3.13		1.2						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 23B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104336.6 E 49286.4	33.337 Deg N 81.74 Deg W	176.1 - 171.1 ft msl	371.60 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/01/99 08/24/99 03/08/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	221.75	220.99	220.50	Not Available	ft msl
pH	4.9	4.8	4.7		pH
Sp. Conductance	300	329	273		uS/cm
Water temperature	19.6	24.4	21.4		deg. C
Alkalinity as CaCO3		0	0		mg/L
Turbidity	.4	.3	.6		NTU
Volumes purged	2.80	3.39	3.33		well volume
Sampling code					
Synchronous water level	221.2 (06/23/99)	220.7 (12/14/99)	220.4 (03/21/00)	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	129		120		116						ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.93	U V	<6.58	JU					ug/L	
	Nickel, total recoverable	<11.6	JU	<8.9	JU I	<60	U					ug/L	
	Selenium, total recoverable	<200	U	<5	U	<40	U					ug/L	
Organics													
	Chlorobenzene	<1250	U	1.7	J K	150	J IK					ug/L	
	1,1-Dichloroethane	<1250	U	<1	U	<200	U					ug/L	
	1,1-Dichloroethylene	<1250	U	89.6	J K	<200	U					ug/L	
	trans-1,2-Dichloroethylene	<1250	U	<1	U	<200	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<1250	U	<1	U	<200	U					ug/L	
	Tetrachloroethylene	34500		30800		33100	J K					ug/L	
	1,1,1-Trichloroethane	<1250	U	13.9	J K	<200	U					ug/L	
	Trichloroethylene	29800		23600		26800	J K					ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	711		761		730						ug/L	
	Nitrate-nitrite as nitrogen	47200		39300		38400						ug/L	
	Sodium, total recoverable	13100		11600		10000						ug/L	
	Sulfate	<5000	U	<200	U	347	J I					ug/L	
Radionuclides													
	Gross alpha	31.2		54.07		32.7						pCi/L	
	Nonvolatile beta	16.2		40.87	J	17.1						pCi/L	
	Radium, total alpha-emitting	19.4		12.94		11.6						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 23TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104298.8 E 49225.8	33.337 Deg N 81.74 Deg W	65.4 - 60.4 ft msl	372.90 ft msl	4 " STEEL	S	CBA

SAMPLE DATE 02/23/99 08/19/99 02/10/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	199.75	198.99	199.93	<i>Not Available</i>	ft msl
pH	5.3	5.1	5.2		pH
Sp. Conductance	32	31	28		uS/cm
Water temperature	18.8	20.6	19.5		deg. C
Alkalinity as CaCO3	3	4	4		mg/L
Turbidity	.5	.7	1.5		NTU
Volumes purged	2.28	2.44	2.90		well volume
Sampling code					
Synchronous water level	200.4 (06/23/99)	199.9 (12/14/99)	198.8 (06/29/00)	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.72	J I	9	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.54	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	δ	U	<1	U	<1	U					ug/L	
	1,1-Dichloroethane	δ	U	<1	U	<1	U					ug/L	
	1,1-Dichloroethylene	δ	U	<1	U	<1	U					ug/L	
	trans-1,2-Dichloroethylene	δ	U	<1	U							ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	δ	U	<1	U	<1	U					ug/L	
	Tetrachloroethylene	δ	U	<1	U	<1	U					ug/L	
	1,1,1-Trichloroethane	δ	U	<1	U	<1	U					ug/L	
	Trichloroethylene	δ	U	<1	U	<1	U					ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	16.5	J	<200	U	<200	U					ug/L	
	Nitrate-nitrite as nitrogen	5	J	<100	U	<500	U					ug/L	
	Sodium, total recoverable	1920		2250		2300						ug/L	
	Sulfate	4400	J	4400		4300						ug/L	
Radionuclides													
	Gross alpha	-.19	UI	2.65	J	.564	U					pCi/L	
	Nonvolatile beta	-.75	UI			1.94	J I					pCi/L	
	Radium, total alpha-emitting	.79	UI	.53		.5	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 24

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104614.4 E 49842.9	33.338 Deg N 81.739 Deg W	243.9 - 223.9 ft msl	380.20 ft msl	4 " PVC	S	M

SAMPLE DATE 09/02/99 03/10/00 08/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	234.04	233.97	233.29	ft msl
pH		6.4	6.7	7.1	pH
Sp. Conductance		99	88	98	uS/cm
Water temperature		25.9	23.8	31.6	deg. C
Alkalinity as CaCO3		37	37	24	mg/L
Turbidity		2.1	3.4	3.3	NTU
Volumes purged		.155	.156	.168	well volume
Sampling code		NX	NX	NX	
Synchronous water level	234.9 (06/23/99)	234 (12/14/99)	233.5 (06/24/00)	233.4 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	12.2		7.6	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<250	U	<1	U	<10	JU	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethane	<250	U	<1	U	<10	JU	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethylene	<250	U	2.63	J K	<10	JU	<100	U	< EQL	20	ug/L	EX
	trans-1,2-Dichloroethylene	<250	U	<1	U			<100	U	< EQL	20	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<250	U	<1	U	<10	JU	<100	U	< EQL	20	ug/L	EX
+	Tetrachloroethylene	1780		957		618	J	630		> 5	20	ug/L	EX
	1,1,1-Trichloroethane	<250	U	<1	U	<10	JU	<100	U	< EQL	20	ug/L	EX
+	Trichloroethylene	5020		2880		2240	J	1400		> 5	20	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	135		207		160	J I	289		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2590		2000		2150						ug/L	
	Sodium, total recoverable	3860		4320		4000		4280		< 4600	1	ug/L	EX
	Sulfate	3420	J	2320		1960						ug/L	
Radionuclides													
	Gross alpha	.69	UI	2.29		1.45	U V					pCi/L	
	Nonvolatile beta	-.58	UI	16.13		.971	U					pCi/L	
	Radium, total alpha-emitting	2.06	UI	.38	UI	.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 25A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103504.8 E 49657.9	33.336 Deg N 81.737 Deg W	169.7 - 159.7 ft msl	366.40 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/01/99 08/23/99 03/03/00 08/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	215.05	214.23	213.86	212.45	ft msl
pH	5	5.4	5.7	5.2	pH
Sp. Conductance	29	28	28	29	uS/cm
Water temperature	20.1	22.7	20.6	21.5	deg. C
Alkalinity as CaCO3		0	2	3	mg/L
Turbidity	.1	.2	.3	1	NTU
Volumes purged	2.85	2.36	2.71	2.96	well volume
Sampling code					
Synchronous water level	214.6 (06/23/99)	214.2 (12/14/99)	212.4 (06/24/00)	211.6 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.42	J I	7.1	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<50	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethane	<50	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethylene	<50	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	EX
	trans-1,2-Dichloroethylene	<50	U	<1	U			<100	U	< EQL	20	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	EX
+	Tetrachloroethylene	163		254	J K	276		160		> 5	20	ug/L	EX
	1,1,1-Trichloroethane	<50	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	EX
+	Trichloroethylene	986		1290		1290		740		> 5	20	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	346		1430		1590						ug/L	
	Sodium, total recoverable	2460		2390		2800		2780		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	623						ug/L	
Radionuclides													
	Gross alpha	.56	UI	.79	UI	.9	U					pCi/L	
	Nonvolatile beta	.24	UI	.26	UI	1.59	J I					pCi/L	
	Radium, total alpha-emitting	2.7	UI	.34		.4	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 26

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104612.8 E 48941.7	33.337 Deg N 81.741 Deg W	240.7 - 220.7 ft msl	361.70 ft msl	4 " PVC	S	M

SAMPLE DATE 03/10/99 08/23/99 03/11/00 08/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	237.86	229.54	218.95	ft msl
pH	4.7	5.5	6	5.5	pH
Sp. Conductance	21	22	35	23	uS/cm
Water temperature	13	23	21.2	20.9	deg. C
Alkalinity as CaCO3	1	0	21	3	mg/L
Turbidity	1	1.4	65.2	12.8	NTU
Volumes purged		3.35	1.43	-8.2	well volume
Sampling code	X		NX		
Synchronous water level	()	229.7 (12/14/99)	228.6 (06/25/00)	227.8 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.42	J I	3.4	J I							ug/L	
	Cyanide	<10	JU L	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<9.89	JU	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<25	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<25	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<25	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	45.3		69.9	J K	45.4	J K	14		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	226		300	J K	186	J K	39		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	336		235	J	262	J I					ug/L	
	Sodium, total recoverable	2610		2440		2800		3050		< 4600	1	ug/L	EX
	Sulfate	<5000	U	1660		923						ug/L	
Radionuclides													
	Gross alpha	.58	UI	4.54		.558	U					pCi/L	
	Nonvolatile beta	.15	UI	13.14	J	.861	U					pCi/L	
	Radium, total alpha-emitting	1.98	UI	.23	UI	.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 26B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104646.7 E 48944.6	33.337 Deg N 81.741 Deg W	136.90 - 132.1 ft msl	362.80 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/01/99 08/23/99 03/03/00 08/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	218	217.4	216.94	215.5	ft msl
pH	5.4	5.7	5.8	5.4	pH
Sp. Conductance	24	24	25	24	uS/cm
Water temperature	19.1	22	19.1	20.2	deg. C
Alkalinity as CaCO3	4	2	5	4	mg/L
Turbidity	.2	.3	.4	1	NTU
Volumes purged	2.39	3.29	2.68	3.13	well volume
Sampling code					
Synchronous water level	217.6 (06/23/99)	217.4 (09/21/99)	215.6 (06/25/00)	214.6 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.3		7.8	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<25	U	<1	U	<10	JU L	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethane	<25	U	<1	U	<10	JU L	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethylene	<25	U	<1	U	<10	JU L	<100	U	< EQL	20	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<1	U			<100	U	< EQL	20	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<1	U	<10	JU L	<100	U	< EQL	20	ug/L	EX
	Tetrachloroethylene	112		24.1	J K	55.4	J L	<100	U	< EQL	20	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<1	U	<10	JU L	<100	U	< EQL	20	ug/L	EX
+	Trichloroethylene	749		1480		2180	J L	1500		> 5	20	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	668		598		631						ug/L	
	Sodium, total recoverable	2010		1870		2200		2140		< 4600	1	ug/L	EX
	Sulfate	<5000	U	309		426						ug/L	
Radionuclides													
	Gross alpha	1.11	UI	.34	UI	.462	U					pCi/L	
	Nonvolatile beta	.63	UI	.45	UIJ	.663	U					pCi/L	
	Radium, total alpha-emitting	1.81	UIJ	.23	UI	-.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 27

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104972.8 E 49487.7	33.339 Deg N 81.74 Deg W	244 - 234 ft msl	375.5 ft msl	4 " PVC	S	M

SAMPLE DATE 02/08/99 08/13/99 02/02/00 08/24/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	237.55	235.85	Not Available	Not Available	ft msl
pH	4.7	4.6	4.6	4.7	pH
Sp. Conductance	62	57	60	59	uS/cm
Water temperature	20	21.7	19.7	21.7	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	2.4	1.1	2	1.5	NTU
Volumes purged	11.8	20.3			well volume
Sampling code					
Synchronous water level	236.4 (06/23/99)	235.8 (09/21/99)	226.5 (06/24/00)	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	16		16.6		15.4		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.2	U V	<20	U	<5.78	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<5	U	<40	U	<13.1	U V	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU L	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	JU L	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<1.05	U V	.57	J IL	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<1.21	U V	<1	JU L	8.21	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	240		142	J	120	J I	119	J L	NDD	1	ug/L	ML
	Nitrate-nitrite as nitrogen	4890		3760		3270						ug/L	
+	Sodium, total recoverable	4810		5920		4900		5050		> 4600	1	ug/L	ML
	Sulfate	<5000	U	<400	U	291						ug/L	
Radionuclides													
	Gross alpha	.31	UI	4.21		2.06	J K					pCi/L	
	Nonvolatile beta	.39	UI	3.4		1.19	J I					pCi/L	
	Radium, total alpha-emitting	2.79	UIJ	.78		.7	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 27B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104940.3 E 49486.4	33.339 Deg N 81.74 Deg W	169.90 - 164.4 ft msl	376.80 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/01/99 08/24/99 03/11/00 09/07/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	224.59	224.91	224.81	221.55	ft msl
pH	5.2	5.5	5.3	5.4	pH
Sp. Conductance	28	27	26	25	uS/cm
Water temperature	18.6	21.3	19.2	19.7	deg. C
Alkalinity as CaCO3		0	1	3	mg/L
Turbidity	.2	.2	.3	1.8	NTU
Volumes purged	2.52	3.54	3.29	2.65	well volume
Sampling code					
Synchronous water level	224.1 (06/23/99)	223.4 (12/14/99)	222.1 (06/24/00)	221.2 (12/29/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.67	J I	3	J I	<15	U	3.05	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<1.97	U V	<20	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<60	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<5	U	<40	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<50	U	<1	U	4.4	J I	<5	JU L	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<50	U	<1	U	<5	U	<5	JU L	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<50	U	<1	U	<5	U	<5	JU L	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<1	U			<5	JU L	< EQL	5	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<1	U	<5	U	<5	JU L	< EQL	5	ug/L	ML
	Tetrachloroethylene	18	J I	33	J K	45.5		41.6	J L	NDD	5	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<1	U	<5	U	<5	JU L	< EQL	5	ug/L	ML
	Trichloroethylene	200		347	J K	644		462	J L	NDD	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<40	U	< EQL	1	ug/L	ML
	Nitrate-nitrite as nitrogen	1820		1330		1490						ug/L	
	Sodium, total recoverable	3220		2990		3500		2980		< 4600	1	ug/L	ML
	Sulfate	<5000	U	<400	U	586						ug/L	
Radionuclides													
	Gross alpha	.25	UI	.62	UI	.172	U					pCi/L	
	Nonvolatile beta	-2.11	UI	-.26	UI	.136	U					pCi/L	
	Radium, total alpha-emitting	2.13	UIJ	.15	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 27TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104951.4 E 49486.5	33.339 Deg N 81.74 Deg W	55.900 - 50.60 ft msl	376.60 ft msl	4 " CS	S	CBA

SAMPLE DATE 03/22/99 08/13/99 02/02/00 08/24/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	199.51	199.2	199.68	198.02	ft msl
pH	5.1	4.7	4.9	5.1	pH
Sp. Conductance	24	24	24	24	uS/cm
Water temperature	18.8	19.9	18.7	20.6	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.5	.4	.6	.8	NTU
Volumes purged	2.27	2.30	2.26	2.43	well volume
Sampling code					
Synchronous water level	200.5 (06/23/99)	199.9 (12/14/99)	199.5 (03/21/00)	197.7 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.58	J I	6.4	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<3.41	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	31.3		<200	U	<200	U	<61.7	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	<19	U	<200	U	<500	U					ug/L	
	Sodium, total recoverable	1530		<1660	U	1600		1790		< 4600	1	ug/L	EX
	Sulfate	3720	J	3170		3520						ug/L	
Radionuclides													
	Gross alpha	.32	UI	.79		.826	J IK					pCi/L	
	Nonvolatile beta	-.61	UI	.57	UI	.99	U					pCi/L	
	Radium, total alpha-emitting	2.24	UIJ	.37	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 28

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104941.8 E 48517.3	33.337 Deg N 81.743 Deg W	230.6 - 210.6 ft msl	354.80 ft msl	4 " PVC	S	M

SAMPLE DATE 02/09/99 08/19/99 02/14/00 08/24/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	229.89	229.57	229	227.55	ft msl
pH	6.6	7.1	6.9	7	pH
Sp. Conductance	72	89	77	70	uS/cm
Water temperature	19.5	19.5	18.5	20.8	deg. C
Alkalinity as CaCO3	26	35	25	25	mg/L
Turbidity	1.8	.7	1.4	1.8	NTU
Volumes purged	3.99	4.79	3.69	3.91	well volume
Sampling code					
Synchronous water level	229.8 (06/23/99)	229 (12/14/99)	227.7 (06/25/00)	226.8 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.49	J I	5.3	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.4	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	31.6		<200	U	<200	U	<96.6	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	190		204		198	J I					ug/L	
	Sodium, total recoverable	1510		<1630	U	1700		1590		< 4600	1	ug/L	EX
	Sulfate	1150		838		2340						ug/L	
Radionuclides													
	Gross alpha	-.3	U	1.43		.732	U					pCi/L	
	Nonvolatile beta	-.49	UIJ	.63	UI	.393	U					pCi/L	
	Radium, total alpha-emitting	-.62	UI	.03	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 28A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104947.7 E 48521.9	33.337 Deg N 81.743 Deg W	157.8 - 152.8 ft msl	355 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/01/99 09/28/99 03/11/00 09/07/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	223.2	222.56	222.22	220.45	ft msl
pH	5	5	5.2	5.1	pH
Sp. Conductance	20	19	20	21	uS/cm
Water temperature	18.2	19.2	19	18.9	deg. C
Alkalinity as CaCO3		0	1	0	mg/L
Turbidity	.3	.9	.3	1.8	NTU
Volumes purged	2.52	2.52	2.62	2.58	well volume
Sampling code					
Synchronous water level	222.9 (06/23/99)	222.6 (09/21/99)	221 (06/25/00)	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.37	J I	4.36	J I							ug/L	
	Cyanide	<10	U	<10	JU Q							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<25	U	<1	U	<5	JU	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethane	<25	U	<1	U	<5	JU	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethylene	<25	U	<1	U	<5	JU	<100	U	< EQL	20	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	.64	J I			<100	U	< EQL	20	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<1	U	<5	JU	<100	U	< EQL	20	ug/L	EX
	Tetrachloroethylene	<25	U	.92	J I	<5	JU	<100	U	< EQL	20	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<1	U	<5	JU	<100	U	< EQL	20	ug/L	EX
	Trichloroethylene	613		1210		2060	J	3000	J K	NDD	20	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	16.1	J	<200	U	<200	U	59.3	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	587		437	J	467	J I					ug/L	
	Sodium, total recoverable	1980		2370		2240		2280		< 4600	1	ug/L	EX
	Sulfate	<5000	U	443		313	J I					ug/L	
Radionuclides													
	Gross alpha	1.45		1.12		.92	J I					pCi/L	
	Nonvolatile beta	-.01	UI	1.82		.406	U					pCi/L	
	Radium, total alpha-emitting	2.78	UIJ	.38	UI	.5	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 29A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107326.8	33.347 Deg N	122.9 - 117.3 ft msl	365.20 ft msl	4 " PVC	S	MCBC
E 51236.4	81.74 Deg W					
SAMPLE DATE	02/05/99	08/25/99	02/02/00	09/02/00		
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	218.8	218.4	218.12	217.05	ft msl	
pH	5.9	5.8	5.5	6.4	pH	
Sp. Conductance	43	37	36	38	uS/cm	
Water temperature	19.1	20	19.1	20.7	deg. C	
Alkalinity as CaCO3	7	4	3	4	mg/L	
Turbidity	.4	.5	.5	2.9	NTU	
Volumes purged	2.33	2.43	2.19	2.11	well volume	
Sampling code						
Synchronous water level	219.1 (06/22/99)	218.1 (12/16/99)	217.1 (06/28/00)	217.7 (12/31/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	19.2		21								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	11.7	J	<200	U	<200	U	49.8	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	833		830		694						ug/L	
	Sodium, total recoverable	1760		1980		1900		1800		< 4600	1	ug/L	EX
	Sulfate	5230		4800		5080						ug/L	
Radionuclides													
	Gross alpha	.14	U	2.98	J	1.69	J I					pCi/L	
	Nonvolatile beta	-.21	U	2.65		2.09	J I					pCi/L	
	Radium, total alpha-emitting	2.58		.94		.9	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 29TA**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107330.4 E 51245.7	33.347 Deg N 81.74 Deg W	63.9 - 58.60 ft msl	365 ft msl	4 " CS	S	CBA
SAMPLE DATE		02/05/99	08/25/99	02/02/00	09/09/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	211.86	211.04	211.03	209.02	ft msl	
pH	5	4.8	4.6	5.4	pH	
Sp. Conductance	22	19	20	20	uS/cm	
Water temperature	18.2	19.3	18.5	20	deg. C	
Alkalinity as CaCO ₃		0	0	0	mg/L	
Turbidity	.7	.7	.7	1.2	NTU	
Volumes purged	2.41	2.55	2.27	2.64	well volume	
Sampling code						
Synchronous water level	212 (06/22/99)	211 (12/16/99)	209.9 (06/28/00)	209.3 (12/31/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.2		3.4	J I							ug/L	
	Cyanide	<15.2	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	4.9	J I							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<66	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	JU L	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	JU L	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	JU L	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<.61	U V	<1	U	<5	JU L	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	JU L	< EQL	1	ug/L	EX
	Trichloroethylene	4.15	J I	7.2	J K	9.06	J K	5.6	J L	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	37.1	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	742		618		680						ug/L	
	Sodium, total recoverable	1660		1930		1500		1830		< 4600	1	ug/L	EX
	Sulfate	892	J	931		785						ug/L	
Radionuclides													
	Gross alpha	-.26	U	.01	UIJ	.428	U					pCi/L	
	Nonvolatile beta	-3	U	-.36	UI	.273	U					pCi/L	
	Radium, total alpha-emitting	1.59		.44		.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 30AA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105715.7 E 47970.5	33.338 Deg N 81.746 Deg W	96.4 - 90.80 ft msl	353 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/08/99 08/13/99 02/02/00 08/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	223.6	223.3	222.67	221.11	ft msl
pH	11	11.2	11.2	8.8	pH
Sp. Conductance	520	1017	796	125	uS/cm
Water temperature	19.1	22.9	17.5	22.1	deg. C
Alkalinity as CaCO3	128	221	181	64	mg/L
Turbidity	12.2	4	3.4	13.1	NTU
Volumes purged	.011	0	0	0	well volume
Sampling code	X	NX	NX	NX	
Synchronous water level	223.4 (06/23/99)	222.9 (12/14/99)	221.6 (06/25/00)	220 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	180								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	9.58								ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	δ	U	<.61	U V	.75	J IK	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	75.8		<200	U	84	J I	39.8	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	<50	U	<500	U	<500	U					ug/L	
	Sodium, total recoverable	4240		4440		5300		2190		< 4600	1	ug/L	EX
	Sulfate	13300		12600	J	12700						ug/L	
Radionuclides													
	Gross alpha	1.22	U	4.27		5.51	J K					pCi/L	
	Nonvolatile beta	3.15	UIJ	7.38	J	4.42						pCi/L	
	Radium, total alpha-emitting	.9		1		1.6						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 30B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105719.9 E 47981.8	33.338 Deg N 81.746 Deg W	128.7 - 123.1 ft msl	353.5 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/08/99 08/13/99 02/02/00 08/24/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	225.05	224.55	223.61	222.35	ft msl
pH	4.4	4.4	4.6	4.6	pH
Sp. Conductance	34	32	32	31	uS/cm
Water temperature	18.7	19.6	18.3	20	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.3	.5	.5	.6	NTU
Volumes purged	2.99	2.56	2.98	3.46	well volume
Sampling code					
Synchronous water level	224.7 (06/23/99)	224.6 (09/21/99)	222.6 (06/25/00)	222.2 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	8.2	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.95	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	74.5		<200	U	<200	U	<105	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	86		<100	U	<500	U					ug/L	
	Sodium, total recoverable	1530		1770		1600		1820		< 4600	1	ug/L	EX
	Sulfate	4910	J	5280		5710						ug/L	
Radionuclides													
	Gross alpha	.26	UI	.38	UIJ	.198	U					pCi/L	
	Nonvolatile beta	-.09	UI			.609	U					pCi/L	
	Radium, total alpha-emitting	.86	UI	.46		1.1	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 30CC

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105724.2 E 47993.3	33.338 Deg N 81.746 Deg W	164 - 158.4 ft msl	354 ft msl	4 " PVC	S	UL
SAMPLE DATE		02/08/99	09/02/99	02/02/00	08/24/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	224.88	223.6	223.55	222.34	ft msl	
pH	5.6	5	5.3	5.4	pH	
Sp. Conductance	26	26	27	23	uS/cm	
Water temperature	18.9	19.4	18.2	20	deg. C	
Alkalinity as CaCO3		2	3	0	mg/L	
Turbidity	.7	.5	.9	.8	NTU	
Volumes purged	2.99	3.38	2.75	3.35	well volume	
Sampling code						
Synchronous water level	224.6 (06/23/99)	224.1 (12/14/99)	222.5 (06/25/00)	221.5 (12/27/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	<10	U	15								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<1.47	U V							ug/L	
	Nickel, total recoverable	<50	U	<11	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1290		1050		1030						ug/L	
	Sodium, total recoverable	1830		1910		1900		1790		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	949						ug/L	
Radionuclides													
	Gross alpha	-.03	UIJ	.93	UIJ	.763	U					pCi/L	
	Nonvolatile beta	-2.41	UIJ			.186	U					pCi/L	
	Radium, total alpha-emitting	.6	UI	.27	UI	.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 31B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101981.3 E 50078.7	33.333 Deg N 81.733 Deg W	157.3 - 152.3 ft msl	348.30 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/02/99 08/23/99 03/16/00 09/12/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	212.1	211.62	212.49	213.35	ft msl
pH	5.1	5.2	3.9	5	pH
Sp. Conductance	32	31	30	29	uS/cm
Water temperature	19	21.5	19.4	21.2	deg. C
Alkalinity as CaCO3		1	0	0	mg/L
Turbidity	.5	.4	.4	1.1	NTU
Volumes purged	2.66	2.84	2.95	3.09	well volume
Sampling code					
Synchronous water level	211.9 (06/22/99)	211.9 (12/14/99)	210 (06/24/00)	212.1 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.3	J I	8.2	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	11								ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<87.8	JU	<10	U							ug/L	
Organics													
	Chlorobenzene	<250	U	<1	U	.74	J I	<10	U	< EQL	2	ug/L	EX
	1,1-Dichloroethane	<250	U	<1	U	<2	U	<10	U	< EQL	2	ug/L	EX
	1,1-Dichloroethylene	<250	U	<1	U	<2	U	<10	U	< EQL	2	ug/L	EX
	trans-1,2-Dichloroethylene	<250	U	<1	U	<2	U	<10	U	< EQL	2	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<250	U	<1	U	<2	U	<10	U	< EQL	2	ug/L	EX
+	Tetrachloroethylene	367		344	J K	340		320		> 5	2	ug/L	EX
	1,1,1-Trichloroethane	<250	U	<1	U	<2	U	<10	U	< EQL	2	ug/L	EX
+	Trichloroethylene	537		458		625		580		> 5	10	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	273		1540		2160						ug/L	
	Sodium, total recoverable	1970		2260		2800		2410		< 4600	1	ug/L	EX
	Sulfate	<5000	U	307	J	184	J I					ug/L	
Radionuclides													
	Gross alpha	.94	UI	3.64	UI	1.22	J I					pCi/L	
	Nonvolatile beta	.1	UI	42.55	J	3.09						pCi/L	
	Radium, total alpha-emitting	3.19	UI	.67		1.1	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 31C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101979.6 E 50089.9	33.333 Deg N 81.733 Deg W	236.1 - 216.1 ft msl	348.10 ft msl	4 " PVC	S	M

SAMPLE DATE	03/02/99	08/23/99	03/16/00	09/12/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	233.25	232.53	231.17	230.05	ft msl
pH	5.8	6	5.1	5.7	pH
Sp. Conductance	98	105	93	95	uS/cm
Water temperature	19	22.5	18.9	21.1	deg. C
Alkalinity as CaCO3	15	5	7	4	mg/L
Turbidity	1	.9	3.5	2.4	NTU
Volumes purged	2.61	3.48	5.54	9.98	well volume
Sampling code					
Synchronous water level	232.9 (06/22/99)	232 (09/22/99)	231.1 (03/23/00)	229.9 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	16.1										ug/L	
	Cyanide	<15.2	U									ug/L	
	Lead, total recoverable	<100	U									ug/L	
	Nickel, total recoverable	<50	U									ug/L	
	Selenium, total recoverable	<200	U									ug/L	
Organics													
	Chlorobenzene	<1250	U	<1	U	<200	U	<250	U	< EQL	50	ug/L	EX
	1,1-Dichloroethane	<1250	U	<1	U	<200	U	<250	U	< EQL	50	ug/L	EX
	1,1-Dichloroethylene	<1250	U	<1	U	<200	U	<250	U	< EQL	50	ug/L	EX
	trans-1,2-Dichloroethylene	<1250	U	<1	U	<200	U	<250	U	< EQL	50	ug/L	EX
	PCB 1016	<2	U			<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1221	<2.04	U			<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1232	<1.02	U			<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1242	<1.02	U			<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1248	<1.02	U			<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1254	<1.02	U			<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1260	<1.02	U			<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,2,2-Tetrachloroethane	<1250	U	<1	U	<200	U	<250	U	< EQL	50	ug/L	EX
+	Tetrachloroethylene	22600		34600		22500		2900		> 5	50	ug/L	EX
	1,1,1-Trichloroethane	<1250	U	.76	J IK	<200	U	<250	U	< EQL	50	ug/L	EX
	Trichloroethylene	3670		2590		1210		140	J I	NDD	50	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	9.7	J	<200	U			<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	8	J	5500								ug/L	
+	Sodium, total recoverable	9120		12600				11900		> 4600	1	ug/L	EX
	Sulfate	7260		9270								ug/L	
Radionuclides													
	Gross alpha	4.09		7.36		3.79						pCi/L	
	Nonvolatile beta	4.27		9.5		3.54						pCi/L	
	Radium, total alpha-emitting	6.46		3.11	J	2.1						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 31CC

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101983.1 E 50067.9	33.333 Deg N 81.733 Deg W	181.4 - 176.7 ft msl	348.60 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/02/99 08/23/99 03/16/00 09/12/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	212.2	211.6	212.55	214.2	ft msl
pH	5.7	6.2	4.9	5.8	pH
Sp. Conductance	44	45	37	34	uS/cm
Water temperature	19.1	22.8	19.6	21.6	deg. C
Alkalinity as CaCO3	10	9	6	3	mg/L
Turbidity	.2	.7	1.8	2.1	NTU
Volumes purged	2.43	2.42	2.79	4.34	well volume
Sampling code					
Synchronous water level	212 (06/22/99)	212.2 (12/14/99)	210.3 (06/24/00)	212.3 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	18.6		20								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<500	U	<1	U	<20	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<500	U	<1	U	<20	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<500	U	<1	U	<20	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<500	U	<1	U	<20	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<500	U	<1	U	<20	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	5310		3190		3730		2600		> 5	50	ug/L	EX
	1,1,1-Trichloroethane	<500	U	<1	U	<20	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	7010		3880		5570		3400		> 5	50	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	260		2450		1990						ug/L	
	Sodium, total recoverable	2400		1870		2100		2220		< 4600	1	ug/L	EX
	Sulfate	<5000	U	1080		1090						ug/L	
Radionuclides													
	Gross alpha	1.01	UI	.9		.727	J I					pCi/L	
	Nonvolatile beta	1.49	UI	.74	UIJ	.753	U					pCi/L	
	Radium, total alpha-emitting	2.32	UI	-.09	UI	-.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 32

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99655.6	33.332 Deg N	218.1 - 198.1 ft msl	255.10 ft msl	4 " PVC	S	M
E 52733.9	81.722 Deg W					
SAMPLE DATE	02/05/99	08/13/99	02/02/00	08/27/00		
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	223.95	222.44	223.11	221.5	ft msl	
pH	5.2	5.1	5	5.2	pH	
Sp. Conductance	25	24	22	23	uS/cm	
Water temperature	18.5	19.7	18.2	19.9	deg. C	
Alkalinity as CaCO3		1	3	0	mg/L	
Turbidity	.8	1	3.1	2.5	NTU	
Volumes purged	2.20	4.23	3.38	2.43	well volume	
Sampling code						
Synchronous water level	223.1 (06/22/99)	222.8 (12/14/99)	221.9 (06/24/00)	221.9 (12/29/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	<10	U	<10	U							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<1.48	U	V						ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<5	U							ug/L	
Organics													
	Chlorobenzene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	31		<200	U	<200	U	61.5	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	903		776		856						ug/L	
	Sodium, total recoverable	2760		2760		3700		4070		< 4600	1	ug/L	EX
	Sulfate	<5000	U	696		1180						ug/L	
Radionuclides													
	Gross alpha	0	UIJ	.9		.32	U					pCi/L	
	Nonvolatile beta	-1.15	UI	.71	UI	1.15	U					pCi/L	
	Radium, total alpha-emitting	2.44	J	.06	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 32B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99676 E 52742.5	33.332 Deg N 81.722 Deg W	132.5 - 127.5 ft msl	255.40 ft msl	2 " PVC	V	LL

SAMPLE DATE 02/05/99 08/13/99 02/02/00 08/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	212.05	210.8	210.79	209.85	ft msl
pH	5.1	5	5.1	4.9	pH
Sp. Conductance	21	20	20	19	uS/cm
Water temperature	18.4	20.5	18.2	19.4	deg. C
Alkalinity as CaCO3		0	3	0	mg/L
Turbidity	.2	.4	.3	.3	NTU
Volumes purged	2.32	2.58	3.17	2.46	well volume
Sampling code					
Synchronous water level	211.5 (06/22/99)	211 (12/14/99)	210 (06/24/00)	209.3 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.74	J I	3.5	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<1.55	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<5	U							ug/L	
Organics													
	Chlorobenzene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	23.6		<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1130		<500	U	896						ug/L	
	Sodium, total recoverable	1450		1360		1600		1480		< 4600	1	ug/L	EX
	Sulfate	<5000	U	424		308						ug/L	
Radionuclides													
	Gross alpha	.04	UI	.78	UI	-.049	JU L					pCi/L	
	Nonvolatile beta	-.05	UI	1.48	UI	1.48	J I					pCi/L	
	Radium, total alpha-emitting	1.54	UIJ	.31	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 32C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99684.9	33.332 Deg N	188.6 - 183.7 ft msl	255.70 ft msl	2 " PVC	V	UL
E 52746.9	81.722 Deg W					
SAMPLE DATE		02/05/99	08/13/99	02/02/00	08/27/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	216.8	215.59	215.7	214.52	ft msl	
pH	5.5	5.4	5.5	5.3	pH	
Sp. Conductance	25	24	22	23	uS/cm	
Water temperature	18.4	19.6	17.5	19.5	deg. C	
Alkalinity as CaCO3	3	3	3	3	mg/L	
Turbidity	.1	.3	.4	.4	NTU	
Volumes purged	3.73	2.71	3.09	2.81	well volume	
Sampling code						
Synchronous water level	216.6 (03/26/99)	215.8 (12/14/99)	215.5 (03/23/00)	214.3 (12/29/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	12.5		14								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.32	U	V						ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<5	U							ug/L	
Organics													
	Chlorobenzene	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	24		<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	849		911		863						ug/L	
	Sodium, total recoverable	1940		2270		2200		2500		< 4600	1	ug/L	EX
	Sulfate	<5000	U	355	J	200	J I					ug/L	
Radionuclides													
	Gross alpha	.14	UI	.27	UI	.0626	JU L					pCi/L	
	Nonvolatile beta	-1.07	UI	.64	UI	.546	U					pCi/L	
	Radium, total alpha-emitting	.76	UIJ	.39	UI	1.1	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 33

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 98031 E 51736.3	33.327 Deg N 81.721 Deg W	228.7 - 208.7 ft msl	255.90 ft msl	4 " PVC	S	M

SAMPLE DATE 02/08/99 08/16/99 02/02/00 08/24/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	217.77	216.5	216.22	215.85	ft msl
pH	5.1	5.2	5.1	5.3	pH
Sp. Conductance	85	79	81	66	uS/cm
Water temperature	18.4	19.8	18.4	20.1	deg. C
Alkalinity as CaCO3		1	1	1	mg/L
Turbidity	1.1	.7	.6	.6	NTU
Volumes purged	4.47	8.83	3.33	4.39	well volume
Sampling code					
Synchronous water level	216.9 (06/22/99)	216.2 (12/14/99)	216 (06/24/00)	216.1 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	2.1	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	10.6								ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	1.79	J I	<1.59	U V	1.93	J K	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	4.39	J I	4.01	J K	5.76	J K	2.5	J IK	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	6200		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	10900		6970		5210						ug/L	
+	Sodium, total recoverable	16200		16500		14000		15700		> 4600	1	ug/L	EX
	Sulfate	<5000	U	1750		5070						ug/L	
Radionuclides													
	Gross alpha	1.39	UI	2.54		.986	J IL					pCi/L	
	Nonvolatile beta	.82	UI	2.05		2.94						pCi/L	
	Radium, total alpha-emitting	1.52	UIJ	.96		.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 33A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 98006.7 E 51738	33.327 Deg N 81.721 Deg W	88.4 - 82.80 ft msl	255.40 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	03/03/99	08/23/99	03/20/00	08/28/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	205.54	204.59	204.28	203.4	ft msl
pH	5.2	5.1	5.3	4.9	pH
Sp. Conductance	22	22	21	20	uS/cm
Water temperature	18	19.3	19.1	19.1	deg. C
Alkalinity as CaCO ₃	1	0	1	0	mg/L
Turbidity	.2	.2	1.2	1.7	NTU
Volumes purged	2.24	3.48	2.49	.936	well volume
Sampling code					
Synchronous water level	205 (06/22/99)	204.4 (12/14/99)	204.1 (03/22/00)	203.2 (12/28/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.41	J I	4.7	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	9.82		7.61	J K	7.47		6.3	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1260		1250	J	912						ug/L	
	Sodium, total recoverable	1760		1750		2100		1850		< 4600	1	ug/L	EX
	Sulfate	<5000	U	327	J	1040						ug/L	
Radionuclides													
	Gross alpha	.93	UI	1.49		.855	J I					pCi/L	
	Nonvolatile beta	2.99		1.22	UI	2.62	J I					pCi/L	
	Radium, total alpha-emitting	3.71	UIJ	.38		1	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 33B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97995.9 E 51741.9	33.327 Deg N 81.721 Deg W	126.3 - 120.7 ft msl	255 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/03/99 08/23/99 03/20/00 08/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	208.2	207.25	206.96	206.1	ft msl
pH	5.4	5.4	5.3	5.5	pH
Sp. Conductance	32	32	31	30	uS/cm
Water temperature	17.7	19.2	18.6	19.4	deg. C
Alkalinity as CaCO3	2	2	2	4	mg/L
Turbidity	1.1	.3	1	1.1	NTU
Volumes purged	2.51	3.58	3.45	.358	well volume
Sampling code					
Synchronous water level	208 (03/26/99)	207.1 (09/22/99)	206.3 (06/24/00)	206 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	3	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	3.78	J I	<3.48	U V	3.03		2.6	J I	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	12.5		11.4	J K	10.4		8.5		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1170		1370		1360						ug/L	
+	Sodium, total recoverable	4480		5000		5800		5640		> 4600	1	ug/L	EX
	Sulfate	<5000	U	2040		1550						ug/L	
Radionuclides													
	Gross alpha	.95	UI	.89		.0764	U					pCi/L	
	Nonvolatile beta	-.03	UI	5.57	J	.645	U					pCi/L	
	Radium, total alpha-emitting	2.38	UIJ	.18	UI	.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 33C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97984.8 E 51746.7	33.327 Deg N 81.721 Deg W	171 - 165.4 ft msl	255.30 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/08/99 08/16/99 02/02/00 08/24/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	211.35	210.2	210.36	209.4	ft msl
pH	5	5	5.1	5.3	pH
Sp. Conductance	62	62	67	66	uS/cm
Water temperature	18.4	18.8	18.2	20.1	deg. C
Alkalinity as CaCO3		0	0	1	mg/L
Turbidity	.3	.2	.5	.6	NTU
Volumes purged	2.43	3.73	2.35	6.33	well volume
Sampling code					
Synchronous water level	210.6 (06/22/99)	210.3 (12/14/99)	210.2 (03/22/00)	209.4 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	5.5	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.52	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	1.44	J I	<1.25	U V	1.03	J K	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	3.14	J I	2.45	J K	2.8	J K	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	4400		4490		4780						ug/L	
+	Sodium, total recoverable	8370		10200		11000		12400		> 4600	1	ug/L	EX
	Sulfate	<5000	U	629		475						ug/L	
Radionuclides													
	Gross alpha	1.83		1.54		.251	U					pCi/L	
	Nonvolatile beta	3.21		1.13	UIJ	1.29	J I					pCi/L	
	Radium, total alpha-emitting	2.03	UIJ	.6		.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 34A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104954.9 E 50534.9	33.34 Deg N 81.738 Deg W	118.6 - 113.6 ft msl	384 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/02/99 08/24/99 03/11/00 08/31/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	218.15	216.99	217.28	214.45	ft msl
pH	5.1	5.3	5.4	5.1	pH
Sp. Conductance	22	23	21	23	uS/cm
Water temperature	20.3	21.4	19.9	20.8	deg. C
Alkalinity as CaCO3		1	2	0	mg/L
Turbidity	.2	.4	.2	1	NTU
Volumes purged	2.37	2.39	2.78	2.24	well volume
Sampling code					
Synchronous water level	217.6 (06/22/99)	216.7 (12/13/99)	215.3 (06/24/00)	214.4 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.18	J I	5.6	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<.86	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<125	U	<1	U	<10	JU L	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethane	<125	U	<1	U	<10	JU L	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethylene	<125	U	<1	U	<10	JU L	<100	U	< EQL	20	ug/L	EX
	trans-1,2-Dichloroethylene	<125	U	<1	U			<100	U	< EQL	20	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U	<1	U	<10	JU L	<100	U	< EQL	20	ug/L	EX
	Tetrachloroethylene	99.3	J I	25.3	J K	29.6	J L	<100	U	< EQL	20	ug/L	EX
	1,1,1-Trichloroethane	<125	U	<1	U	<10	JU L	<100	U	< EQL	20	ug/L	EX
	Trichloroethylene	2930		2650		1120	J L	1500	J K	NDD	20	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	43.2	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1470		982		1030						ug/L	
	Sodium, total recoverable	2170		2210		2100		2090		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	270	J I					ug/L	
Radionuclides													
	Gross alpha	1.06	UI	1.39		.169	U					pCi/L	
	Nonvolatile beta	.84	UI	2.32		.874	U					pCi/L	
	Radium, total alpha-emitting	1.48	UIJ	.26	UI	.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 34B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104944.7 E 50534.9	33.34 Deg N 81.738 Deg W	187 - 182 ft msl	384 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/02/99 08/24/99 03/13/00 08/31/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	227.4	225.44	226.62	223.1	ft msl
pH	5.1	5.2	5.6	5	pH
Sp. Conductance	20	31	30	30	uS/cm
Water temperature	20.6	21.3	19.3	21	deg. C
Alkalinity as CaCO3		0	2	0	mg/L
Turbidity	.3	.4	.3	1.1	NTU
Volumes purged	2.67	3.64	3.27	1.00	well volume
Sampling code					
Synchronous water level	227.7 (03/26/99)	225.1 (12/13/99)	226.5 (03/23/00)	223.6 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.57	J I	6.4	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.88	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	3.28	J L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	19.4		21.3	J K	19.6	J L	28	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	21.6		25.9	J K	50.7	J L	80	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	24.4		<200	U	<200	U	46	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1070		1130		881						ug/L	
	Sodium, total recoverable	2300		2700		3000		3390		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	577						ug/L	
Radionuclides													
	Gross alpha	3.86		3.88		1.8						pCi/L	
	Nonvolatile beta	3.03		4.79		1.93	J I					pCi/L	
	Radium, total alpha-emitting	6.28	J	.91		1.3	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 34C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104934.1 E 50535.5	33.34 Deg N 81.738 Deg W	240.9 - 220.9 ft msl	383.90 ft msl	4 " PVC	S	M

SAMPLE DATE	03/02/99	08/24/99	03/13/00	08/31/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	229.1	229.5	228.58	226.25	ft msl
pH	5.2	5.1	5.7	5.1	pH
Sp. Conductance	20	21	20	20	uS/cm
Water temperature	20.7	21.4	20.5	21.3	deg. C
Alkalinity as CaCO3		0	2	3	mg/L
Turbidity	.7	1.3	.3	1.4	NTU
Volumes purged	2.29	2.72	7.13	8.29	well volume
Sampling code					
Synchronous water level	229 (06/22/99)	229 (12/13/99)	228.4 (03/23/00)	224.7 (12/28/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.2	J I	3.7	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	15.2								ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	4.66	J L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	4.27	J I	<3.18	U V	6.5	J L	6.8	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	7.58		5.65	J K	11.3	J L	4.5	J IK	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	38.8		72.6	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1250		1350		1250						ug/L	
	Sodium, total recoverable	1610		2120		2100		1870		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	755						ug/L	
Radionuclides													
	Gross alpha	3.08		4.77		2.32						pCi/L	
	Nonvolatile beta	2.41		5.33		3						pCi/L	
	Radium, total alpha-emitting	3.08	J	1.72		1.4	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 34TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104905.8 E 50536.6	33.34 Deg N 81.738 Deg W	-91.90 - -102. ft msl	383.40 ft msl	4 " STEEL	S	CBA

SAMPLE DATE 02/09/99 08/24/99 03/13/00 08/31/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	201.33	200.65	201.02	197.5	ft msl
pH	5.7	6.2	6	5.4	pH
Sp. Conductance	23	27	26	25	uS/cm
Water temperature	19.9	22.1	19	19.8	deg. C
Alkalinity as CaCO3	4	6	14	4	mg/L
Turbidity	6.7	4.3	2.4	5.5	NTU
Volumes purged	7.44	8.65	7.21	6.84	well volume
Sampling code					
Synchronous water level	201.7 (06/22/99)	200.9 (12/13/99)	199.7 (06/24/00)	198.9 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.27	J I	2.5	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<.91	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<1.26	U V							ug/L	
Organics													
	Chlorobenzene	<5	JU Q	<1	U	1.75	J L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	12.8	J Q	13.1	J K	12.1	J L	6.6	J	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	17.3	J	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	694		718		699						ug/L	
	Sodium, total recoverable	1780		<1670	U	1900		1850		< 4600	1	ug/L	EX
	Sulfate	<5000	U	971		369	J I					ug/L	
Radionuclides													
	Gross alpha	2.69	UI	.87		.603	U					pCi/L	
	Nonvolatile beta	2.23	UI	1.34	UI	1.4	J I					pCi/L	
	Radium, total alpha-emitting	.92	J	.62		.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 35A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102098 E 50945.2	33.335 Deg N 81.731 Deg W	128.8 - 123.2 ft msl	350.90 ft msl	4 " PVC	S	MCBC

SAMPLE DATE

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO ₃					mg/L
Turbidity					NTU
Volumes purged					well volume
Sampling code					
Synchronous water level	216.1 (06/23/99)	215.5 (12/14/99)	214.1 (06/24/00)	213.9 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 35B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102110.8 E 50947.9	33.335 Deg N 81.731 Deg W	169.3 - 163.7 ft msl	351.60 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/08/99 08/16/99 01/31/00 08/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	213.88	217.95	217.78	217.25	ft msl
pH	5.9	5.6	4.7	5.5	pH
Sp. Conductance	38	34	32	32	uS/cm
Water temperature	18.6	20	17.9	21	deg. C
Alkalinity as CaCO3	6	7	8	5	mg/L
Turbidity	2.6	.8	.9	1	NTU
Volumes purged	4.60	2.65	2.43	3.28	well volume
Sampling code					
Synchronous water level	218.6 (06/23/99)	218.2 (12/14/99)	217.6 (03/23/00)	216.4 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	3.8	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.56	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	205		216	J	215	J I					ug/L	
	Sodium, total recoverable	4470		4650		4400		4470		< 4600	1	ug/L	EX
	Sulfate	<5000	U	1410		1370						ug/L	
Radionuclides													
	Gross alpha	.58	UI	.83	UIJ	.0953	U					pCi/L	
	Nonvolatile beta	-1.08	UI	-.1	UI	1.21	U					pCi/L	
	Radium, total alpha-emitting	2.06	UIJ	.02	UI	-.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 35TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102101.6	33.335 Deg N	38.2 - 32.90 ft msl	350.30 ft msl	4 " CS	S	CBA
E 50919.6	81.731 Deg W					
SAMPLE DATE	02/08/99	08/16/99	01/31/00	08/27/00		
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	199.42	198.35	198.85	204.3	ft msl	
pH	6	5	4.9	5	pH	
Sp. Conductance	16	17	16	16	uS/cm	
Water temperature	18.9	20.7	18.2	20.1	deg. C	
Alkalinity as CaCO3	1	0	1	0	mg/L	
Turbidity	1.8	1.1	8.1	3	NTU	
Volumes purged	2.70	2.31	3.06	5.46	well volume	
Sampling code						
Synchronous water level	199.5 (06/23/99)	198.8 (12/14/99)	197.5 (06/24/00)	197.4 (09/23/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLP EPA	Filt.	DF	Unit	Lab
	Inorganics												
	Barium, total recoverable	<10	U	2.6	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	5.96								ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
	Organics												
	Chlorobenzene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	368		9630		349	J I					ug/L	
	Sodium, total recoverable	1480		1510		1500		1650		< 4600	1	ug/L	EX
	Sulfate	<5000	U	673		693						ug/L	
Radionuclides													
	Gross alpha	.46	UI	.661		.306	U					pCi/L	
	Nonvolatile beta	-1.94	UI	.533	UI	.729	U					pCi/L	
	Radium, total alpha-emitting	.96	UIJ	.67		-.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 36A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100511.3 E 49514.9	33.329 Deg N 81.732 Deg W	100.5 - 94.90 ft msl	340.60 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/24/99 08/31/99 03/17/00 08/30/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	209.67	210	209.48	207.75	ft msl
pH	4.1	4.5	4.5	4.3	pH
Sp. Conductance	45	41	39	42	uS/cm
Water temperature	19.6	20.5	20	21	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.1	.3	.4	.8	NTU
Volumes purged	2.21	2.20	2.20	1.66	well volume
Sampling code					
Synchronous water level	209.8 (06/22/99)	210.1 (12/14/99)	207.9 (06/24/00)	208 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	12.2		12								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	5	J I							ug/L	
	Nickel, total recoverable	<8.92	JU	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<125	U	<1	U	<2	JU	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethane	<125	U	<1	U	<2	JU	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethylene	<125	U	<1	U	<2	JU	<100	U	< EQL	20	ug/L	EX
	trans-1,2-Dichloroethylene	<125	U	<1	U	<2	JU	<100	U	< EQL	20	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U	<1	U	<2	JU	<100	U	< EQL	20	ug/L	EX
	Tetrachloroethylene	76.2	J I	24.6	J K	15.4	J	<100	U	< EQL	20	ug/L	EX
	1,1,1-Trichloroethane	<125	U	<1	U	<2	JU	<100	U	< EQL	20	ug/L	EX
	Trichloroethylene	1410		546		542	J	220	J K	NDD	20	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	46.6				73	J I	71.9	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	516				392	J I					ug/L	
	Sodium, total recoverable	1820				1900		1970		< 4600	1	ug/L	EX
	Sulfate	6650				6610						ug/L	
Radionuclides													
	Gross alpha	2.03				1.64	U V					pCi/L	
	Nonvolatile beta	1.24	UI			2.08	J I					pCi/L	
	Radium, total alpha-emitting	4.49	UIJ			.4	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 36B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100514.9 E 49526.3	33.329 Deg N 81.732 Deg W	163.7 - 158.1 ft msl	340.80 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/09/99 08/31/99 03/17/00 08/30/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	214.08	213.25	213.4	211.95	ft msl
pH	4.5	5	5.5	5.8	pH
Sp. Conductance	75	72	71	70	uS/cm
Water temperature	18.6	19.4	19.1	19.5	deg. C
Alkalinity as CaCO3	1	0	3	2	mg/L
Turbidity	11.1	5.7	.8	1.6	NTU
Volumes purged	3.03	3.35	2.79	2.78	well volume
Sampling code					
Synchronous water level	213.7 (06/22/99)	213.6 (12/14/99)	212 (06/24/00)	211.6 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	23.1		21								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<125	U	<1	U	<5	U	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethane	<125	U	<1	U	<5	U	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethylene	<125	U	<1	U	<5	U	<100	U	< EQL	20	ug/L	EX
	trans-1,2-Dichloroethylene	<125	U	<1	U	<5	U	<100	U	< EQL	20	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U	<1	U	<5	U	<100	U	< EQL	20	ug/L	EX
	Tetrachloroethylene	<125	U	1.8	J K	2.3	J I	<100	U	< EQL	20	ug/L	EX
	1,1,1-Trichloroethane	<125	U	<1	U	<5	U	<100	U	< EQL	20	ug/L	EX
	Trichloroethylene	1930		1330		1180		710	J K	NDD	20	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	3610		235		190	J I	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	11300		7520		6690						ug/L	
+	Sodium, total recoverable	4410		4620		4400		4900		> 4600	1	ug/L	EX
	Sulfate	<5000	U	400		397	J I					ug/L	
Radionuclides													
	Gross alpha	20.9		6.28		2.55	U V					pCi/L	
	Nonvolatile beta	8.4		5.04		2.02	J I					pCi/L	
	Radium, total alpha-emitting	5	UIJ	3.95		.8	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 36C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100518.3 E 49537.2	33.329 Deg N 81.732 Deg W	194.2 - 188.6 ft msl	340.90 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/24/99 08/31/99 03/17/00 08/30/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	213.8	213.34	213.48	212.09	ft msl
pH	4.6	5.1	5.3	6.6	pH
Sp. Conductance	40	38	38	41	uS/cm
Water temperature	18.5	19	18.8	19.3	deg. C
Alkalinity as CaCO3		0	1	0	mg/L
Turbidity	.3	1.2	.3	1.7	NTU
Volumes purged	4.13	3.77	3.20	4.17	well volume
Sampling code					
Synchronous water level	214.1 (03/26/99)	213.3 (09/21/99)	213.3 (03/22/00)	211.7 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.1		9.6	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	1.22	J I	.95	J IK	.77	J I	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	13.2		10.1	J K	8.48		6.3	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	38.2		131	J	<200	U	57.3	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	3050		<500	U	2430						ug/L	
	Sodium, total recoverable	4060		5310		3500		4310		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	<400	U					ug/L	
Radionuclides													
	Gross alpha	3.87		5.73		1.67	U V					pCi/L	
	Nonvolatile beta	3.12		3.16	J	.9	U					pCi/L	
	Radium, total alpha-emitting	7.4	J	1.22		.4	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 36D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100521.7 E 49548.3	33.329 Deg N 81.732 Deg W	249.5 - 228.8 ft msl	341.60 ft msl	4 " PVC	S	M

SAMPLE DATE 03/05/99 09/01/99 03/17/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	235.3	235.12	232.59	<i>Not Available</i>	ft msl
pH	5.5	5.6	6.5		pH
Sp. Conductance	30	24	52		uS/cm
Water temperature	18.5	21	24.1		deg. C
Alkalinity as CaCO3	9	5	20		mg/L
Turbidity	39.7	31.7	49.5		NTU
Volumes purged	.238	1.96	2.48		well volume
Sampling code	TX	NX	NX		
Synchronous water level	234.8 (06/22/99)	233.3 (12/14/99)	231.8 (06/24/00)	231 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.38	J I	7	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	67								ug/L	
	Nickel, total recoverable	<50	U	<14	JU I							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	U					ug/L	
	1,1-Dichloroethane	6	U	<1	U	<1	U					ug/L	
	1,1-Dichloroethylene	6	U	<1	U	<1	U					ug/L	
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	U					ug/L	
	Tetrachloroethylene	6	U	.63	J IK	<1	U					ug/L	
	1,1,1-Trichloroethane	6	U	<1	U	<1	U					ug/L	
	Trichloroethylene	6	U	<1	U	<1	U					ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable			<200	U	<200	U					ug/L	
	Nitrate-nitrite as nitrogen	1110		2690		736						ug/L	
	Sodium, total recoverable			3170		2500						ug/L	
	Sulfate	<5000	U	606		<400	U					ug/L	
Radionuclides													
	Gross alpha	-.93	UI	.99	UI	.992	U V					pCi/L	
	Nonvolatile beta	-3.09	UI	-.41	UIJ	1.39	J I					pCi/L	
	Radium, total alpha-emitting	2.33	UIJ	.39	UI	.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 36TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100507.7 E 49503	33.329 Deg N 81.732 Deg W	53.4 - 48.4 ft msl	340.60 ft msl	4 " CS	S	CBA

SAMPLE DATE 02/08/99 08/18/99 02/02/00 08/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	195.04	193.84	194.1	192.51	ft msl
pH	5.4	5.1	5.3	5.2	pH
Sp. Conductance	22	21	23	21	uS/cm
Water temperature	19.3	20.8	18.9	20.7	deg. C
Alkalinity as CaCO3	9	0	2	0	mg/L
Turbidity	3.1	.4	.9	.7	NTU
Volumes purged	2.57	2.49	2.26	2.33	well volume
Sampling code					
Synchronous water level	195 (06/22/99)	194.2 (12/14/99)	193 (06/24/00)	192.8 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	5	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	7.09								ug/L	
	Nickel, total recoverable	<50	U	<12	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	79.4		<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	<59	U	721		<500	U					ug/L	
	Sodium, total recoverable	1520		1490		1700		1690		< 4600	1	ug/L	EX
	Sulfate	<5000	U	2050		2350						ug/L	
Radionuclides													
	Gross alpha	.73	UI	1.42	J	.306	U					pCi/L	
	Nonvolatile beta	3.43		3.37	J	.121	U					pCi/L	
	Radium, total alpha-emitting	1.27		.14	UI	-.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 37A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105295 E 51439.8	33.343 Deg N 81.736 Deg W	73.7 - 68.10 ft msl	383 ft msl	4 " PVC	S	CBA

SAMPLE DATE

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO3					mg/L
Turbidity					NTU
Volumes purged					well volume
Sampling code					
Synchronous water level	206.7 (06/22/99)	204.8 (09/21/99)	204.7 (06/24/00)	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 37B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105289.5 E 51450	33.343 Deg N 81.736 Deg W	142.3 - 136.7 ft msl	382.70 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 03/10/99 08/31/99 03/13/00 08/29/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	219.65	217.43	218.01	215.35	ft msl
pH	5.2	5.9	5.7	5.7	pH
Sp. Conductance	26	25	24	24	uS/cm
Water temperature	19.8	19.7	19.3	20.7	deg. C
Alkalinity as CaCO3	3	7	4	3	mg/L
Turbidity	.1	.3	.8	1	NTU
Volumes purged	2.63	2.57	2.59	3.32	well volume
Sampling code					
Synchronous water level	218.3 (06/22/99)	217.5 (12/13/99)	217.9 (03/23/00)	215 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.6		7.7	J I							ug/L	
	Cyanide	<15.2	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	1.44		<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	68		69.1	J K	54.1		8.8	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	40.4		32.1	J K	73.1		1.8	J IK	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	855		814		850						ug/L	
	Sodium, total recoverable	2980		1890		1800		<1980	U	< EQL	1	ug/L	EX
	Sulfate	<5000	U	<400	U	444		816		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.35		.74	UI	.636	U					pCi/L	
	Nonvolatile beta	2.46		14.53		.662	U					pCi/L	
	Radium, total alpha-emitting	4.57	UIJ	.22	UI	-.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 37C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105283.2 E 51439.8	33.343 Deg N 81.736 Deg W	180.8 - 175.2 ft msl	383 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/02/99 08/31/99 03/13/00 08/29/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	227.35	226.42	226.3	224.45	ft msl
pH	5	5.2	5.3	5	pH
Sp. Conductance	32	31	31	34	uS/cm
Water temperature	20.1	20.2	19.6	20.5	deg. C
Alkalinity as CaCO3	2	0	2	0	mg/L
Turbidity	.2	.3	.3	.7	NTU
Volumes purged	2.38	2.66	2.85	3.57	well volume
Sampling code					
Synchronous water level	227.4 (06/22/99)	226.4 (12/13/99)	224.9 (06/24/00)	223.9 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.54	J I	4.1	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	1.23		<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	9.05		6.68	J K	6.6		8.9	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	5.25		1.92	J K	2.34		<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	11.7	J	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	569		543		475	J I					ug/L	
	Sodium, total recoverable	2250		2710		2700		4030		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	416		931		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.46	UI	2.22		.417	U					pCi/L	
	Nonvolatile beta	1.73	UI	5.84		2.8	J I					pCi/L	
	Radium, total alpha-emitting	2.2	UIJ	.53		.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 38C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102373.1 E 49762	33.333 Deg N 81.735 Deg W	169.00 - 164.3 ft msl	358.80 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/02/99 09/27/99 03/14/00 09/07/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	217.1	216.29	220.17	216.02	ft msl
pH	6.2	7.1	7	6.5	pH
Sp. Conductance	42	54	38	52	uS/cm
Water temperature	20.4	20.6	19.6	20.7	deg. C
Alkalinity as CaCO3	15	16	8	3	mg/L
Turbidity	.7	1.2	1	1.8	NTU
Volumes purged	2.26	0	3.64	2.13	well volume
Sampling code					
Synchronous water level	216.9 (06/23/99)	217.1 (12/16/99)	215.5 (06/24/00)	215 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	38.1		36.9								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<500	U	<.52	U V	<50	U	<250	U	< EQL	50	ug/L	EX
	1,1-Dichloroethane	<500	U	<1	U	<50	U	<250	U	< EQL	50	ug/L	EX
	1,1-Dichloroethylene	<500	U	<1	U	<50	U	<250	U	< EQL	50	ug/L	EX
	trans-1,2-Dichloroethylene	<500	U	<1	U	<50	U	<250	U	< EQL	50	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<500	U	<1	U	<50	U	<250	U	< EQL	50	ug/L	EX
	Tetrachloroethylene	18600		8120		7100	J K	8600	J K	NDD	50	ug/L	EX
	1,1,1-Trichloroethane	<500	U	<1	U	<50	U	<250	U	< EQL	50	ug/L	EX
	Trichloroethylene	18700		9500		8760	J K	6500	J K	NDD	50	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	43.7		<200	U	<200	U	60.4	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2190		1460		1440						ug/L	
	Sodium, total recoverable	1970		2170		2270		2910		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	178	J I					ug/L	
Radionuclides													
	Gross alpha	.02	UI	1.23		1.2	J I					pCi/L	
	Nonvolatile beta	.3	UI	2.38		.472	U					pCi/L	
	Radium, total alpha-emitting	.89	UIJ	.22	UI	.6	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 39B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100844.6 E 48376.9	33.328 Deg N 81.735 Deg W	149.6 - 144.0 ft msl	341.80 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/02/99 08/12/99 03/15/00 08/21/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	211.62	211.9	212.52	209.85	ft msl
pH	4.7	4.9	5	4.9	pH
Sp. Conductance	180	150	126	118	uS/cm
Water temperature	18.4	20	18.1	19.4	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.2	.7	.3	.7	NTU
Volumes purged	2.94	2.39	3.19	2.48	well volume
Sampling code					
Synchronous water level	211.4 (06/23/99)	211.8 (12/14/99)	209.5 (06/24/00)	209.5 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab	
Inorganics														
	Barium, total recoverable	28.4		24								ug/L		
	Cyanide	<10	U	<10	U							ug/L		
	Lead, total recoverable	<100	U	<1.96	U	V						ug/L		
	Nickel, total recoverable	<50	U	<7.6	JU	I						ug/L		
	Selenium, total recoverable	<200	U	<5	U							ug/L		
Organics														
	Chlorobenzene	<5	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX	
	1,1-Dichloroethane	<5	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX	
	1,1-Dichloroethylene	5.96		4.91	J	K	4.91	3.7	J	I	NDD	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX	
	PCB 1016													
	PCB 1221													
	PCB 1232													
	PCB 1242													
	PCB 1248													
	PCB 1254													
	PCB 1260													
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX	
+	Tetrachloroethylene	103		122	J	K	177	260	L	> 5	1	ug/L	EX	
	1,1,1-Trichloroethane	<5	U	.85	J	IK	.66	<5	U	< EQL	1	ug/L	EX	
+	Trichloroethylene	150		176	J	K	401	430	L	> 5	5	ug/L	EX	

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLPEPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	97.1		90.8	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	23200		17100		14600						ug/L	
+	Sodium, total recoverable	30200		23100		21000		18300		> 4600	1	ug/L	EX
	Sulfate	<5000	U	437		266						ug/L	
Radionuclides													
	Gross alpha	2.67		4.72		1.37	J IK	3.64		< 15	1	pCi/L	GP
	Nonvolatile beta	10.1		19.51		6.52		4.66		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	2.2		2.64		.8	J I	.84	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 39C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100852.1 E 48386.7	33.328 Deg N 81.735 Deg W	199.60 - 194.0 ft msl	341.5 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/02/99 08/12/99 03/10/00 08/21/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	215.23	215.04	213.78	213.25	ft msl
pH	4.7	4.8	4.9	4.8	pH
Sp. Conductance	42	41	38	39	uS/cm
Water temperature	18.1	20.3	19.2	20.9	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.3	.3	.2	.7	NTU
Volumes purged	2.54	3.15	3.97	4.64	well volume
Sampling code					
Synchronous water level	214.9 (06/23/99)	215 (12/14/99)	213.1 (06/24/00)	212.7 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.13	J I	6.9	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.34	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	2.44	J I	<3.04	U V	2.19	J	1.6	J I	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	28.5		25.3	J K	24.5	J	18		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	80.7		79.9	J	<200	U	63.9	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	3040		2040		2080						ug/L	
	Sodium, total recoverable	3110		3230		3300		3530		< 4600	1	ug/L	EX
	Sulfate	<5000	U	453		417						ug/L	
Radionuclides													
	Gross alpha	.25	UI	.56	UI	1.12	J IK	2.08	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	-1.47	UI	4.91		1.5	J I	2.24	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	7.72	UIJ	.98		.5	J I	.25	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 39D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100858.7 E 48396	33.328 Deg N 81.735 Deg W	239.7 - 219.0 ft msl	341.80 ft msl	4 " PVC	S	M
SAMPLE DATE		02/08/99	09/13/99	01/31/00	09/19/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	232.1	231.35	230.49	228.78	ft msl	
pH	5.2	5.1	5.3	5.5	pH	
Sp. Conductance	24	25	25	28	uS/cm	
Water temperature	18.9	19.6	18.5	22.2	deg. C	
Alkalinity as CaCO3	2	1	1	3	mg/L	
Turbidity	6.9	1.8	.8	3.5	NTU	
Volumes purged	12.1	4.60	12.6	2.05	well volume	
Sampling code						
Synchronous water level	231.7 (06/23/99)	230.7 (12/14/99)	230.3 (03/22/00)	228.8 (09/23/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	<10	U	4.81	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	3.64	J I							ug/L	
	Nickel, total recoverable	<50	U	26.6	J I							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	Δ	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	1.49	J I	.67	J I	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLP EPA	Filt.	DF	Unit	Lab	
Inorganics														
	Aluminum, total recoverable	53.3		<200	U	<200	U	<86	U	V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	851		99	J	860							ug/L	
	Sodium, total recoverable	2450		2900		1980		2230			< 4600	1	ug/L	EX
	Sulfate	<5000	U	405		490							ug/L	
Radionuclides														
	Gross alpha	1.68		4		2.15		3.45			< 15	1	pCi/L	GP
	Nonvolatile beta	.32	UI	2.74	U	1.35	J IK	2.35	J I		NDD	1	pCi/L	GP
	Radium, total alpha-emitting	9.14	J	.73	U	1.2	J I	2.32			< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 39TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100830.6 E 48357.7	33.328 Deg N 81.735 Deg W	49.7 - 44.40 ft msl	341.80 ft msl	4 " CS	S	CBA

SAMPLE DATE 02/08/99 08/06/99 01/31/00 08/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	192.88	192.17	192	190.45	ft msl
pH	5.2	5.3	5.3	5.2	pH
Sp. Conductance	18	16	17	17	uS/cm
Water temperature	18.9	20.4	18.2	21	deg. C
Alkalinity as CaCO3	3	1	2	0	mg/L
Turbidity	13.2	4.9	5.3	4.1	NTU
Volumes purged	2.98	4.39	2.98	5.69	well volume
Sampling code					
Synchronous water level	192.8 (06/23/99)	192 (12/14/99)	190.8 (06/24/00)	190.6 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	2.6	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	24.8		<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	<10	U	4	J	<500	U					ug/L	
	Sodium, total recoverable	1410		1510		1400		1340		< 4600	1	ug/L	EX
	Sulfate	<5000	U	*****		1430						ug/L	
Radionuclides													
	Gross alpha	-67	UI	.509		1.13	J I	.442	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	-1.12	UI	3.15	U	3.47		.676	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	9.94	J	.5		1.3	J I	.317	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 40A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97672.8 E 48279.4	33.321 Deg N 81.729 Deg W	116.2 - 110.6 ft msl	321.20 ft msl	4 " PVC	S	MCBC
SAMPLE DATE		02/08/99	08/13/99	02/03/00	08/27/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	203.92	203.1	202.2	201.01	ft msl	
pH	4.4	4.8	4.7	4.5	pH	
Sp. Conductance	44	52	50	50	uS/cm	
Water temperature	19.9	21	18.2	21.4	deg. C	
Alkalinity as CaCO ₃		0	0	0	mg/L	
Turbidity	.2	.5	.7	.5	NTU	
Volumes purged	2.49	2.79	2.52	2.42	well volume	
Sampling code						
Synchronous water level	203.2 (06/23/99)	202.6 (12/14/99)	201.2 (06/24/00)	200.6 (12/28/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	18								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<3.73	U	V						ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	60.3		96.1	J	<200	U	894		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	<10	U	403	J	<500	U					ug/L	
	Sodium, total recoverable	2050		2080		2500		2110		< 4600	1	ug/L	EX
	Sulfate	11800		11800		13300						ug/L	
Radionuclides													
	Gross alpha	1.31		1.71	J	.608	JU L					pCi/L	
	Nonvolatile beta	1.76	UI	4.64	J	1.96	J I					pCi/L	
	Radium, total alpha-emitting	3.99	UI	.4	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 40B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97685 E 48281.6	33.321 Deg N 81.729 Deg W	154.7 - 149.1 ft msl	321.70 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/02/99 09/02/99 03/11/00 08/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	205.3	204.28	203.5	202.35	ft msl
pH	4.6	4.7	4.8	4.8	pH
Sp. Conductance	56	67	79	78	uS/cm
Water temperature	20	19.1	19.6	20.9	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.2	.9	.3	1.9	NTU
Volumes purged	2.31	3.27	2.81	3.41	well volume
Sampling code					
Synchronous water level	204.8 (06/23/99)	203.9 (12/14/99)	203.5 (03/22/00)	202.3 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	14.3		18								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<125	U	<1	U	<10	U	<50	U	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<125	U	<1	U	<10	U	<50	U	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<125	U	<1	U	<10	U	<50	U	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<125	U	<1	U			<50	U	< EQL	10	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U	<1	U	<10	U	<50	U	< EQL	10	ug/L	ML
	Tetrachloroethylene	<125	U	.89	J IK	<10	U	<50	U	< EQL	10	ug/L	ML
	1,1,1-Trichloroethane	<125	U	<1	U	<10	U	<50	U	< EQL	10	ug/L	ML
+	Trichloroethylene	2430		1720		1810	J K	1720	J K	> 5	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	30.5		184	J	<200	U	58.4	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	3930		3760		5720						ug/L	
+	Sodium, total recoverable	3590		4070		4300		4660		> 4600	1	ug/L	EX
	Sulfate	<5000	U	1240		1140		1700		< 3000	1	ug/L	MS
Radionuclides													
	Gross alpha	1.74		2.8		2.07	U V					pCi/L	
	Nonvolatile beta	1.53	UI	4.35		4.72						pCi/L	
	Radium, total alpha-emitting	4.41	UIJ	1.66		1.5	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 40C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97697.8 E 48283.5	33.321 Deg N 81.729 Deg W	192.4 - 186.8 ft msl	322 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/08/99 08/26/99 03/11/00 08/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	205.56	204.51	203.57	203.45	ft msl
pH	5.4	5.5	5.7	5.8	pH
Sp. Conductance	54	55	51	48	uS/cm
Water temperature	20.2	21	20.6	22.7	deg. C
Alkalinity as CaCO3	4	4	6	3	mg/L
Turbidity	.4	1	.3	1.9	NTU
Volumes purged	2.71	2.70	2.67	2.13	well volume
Sampling code					
Synchronous water level	205.3 (03/26/99)	204.1 (12/14/99)	203.5 (06/24/00)	203.5 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	9.8	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.66	U V							ug/L	
	Nickel, total recoverable	<50	U	<7.2	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	ML
+	Trichloroethylene	5.4		5.08	J K	5.99	J K	8.5	J K	> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	120		121	J	120	J I	127	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	323		<500	U	325	J I					ug/L	
	Sodium, total recoverable	2160		2280		2400		2260		< 4600	1	ug/L	EX
+	Sulfate	9670		10700		8390		12000		> 3000	1	ug/L	MS
Radionuclides													
	Gross alpha	.17	UI	.15	UI	.165	U					pCi/L	
	Nonvolatile beta	2.59		.91	UI	.511	U					pCi/L	
	Radium, total alpha-emitting	3.61	UIJ	.08	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 41B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102194.5 E 53417.8	33.339 Deg N 81.725 Deg W	114.2 - 108.6 ft msl	324 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 03/10/99 09/02/99 03/10/00 09/01/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	217.97	216.65	216.28	214.9	ft msl
pH	5.4	5.4	5.9	5.7	pH
Sp. Conductance	25	22	23	22	uS/cm
Water temperature	19.1	18.7	19.5	22.3	deg. C
Alkalinity as CaCO3	3	2	3	3	mg/L
Turbidity	.4	.9	.7	1.9	NTU
Volumes purged	2.40	2.36	2.58	2.16	well volume
Sampling code					
Synchronous water level	217.3 (06/23/99)	216.7 (12/14/99)	215.3 (06/24/00)	214.4 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.5		11								ug/L	
	Cyanide	<10	JU L	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	7.22		7.53	J K	6.17	J K	5.1		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	3.09	J I	3.2	J K	2.94	J K	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	41.6	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	720		1070		1050						ug/L	
	Sodium, total recoverable	1410		1430		1400		1440		< 4600	1	ug/L	EX
	Sulfate	<5000	U	423		193	J I					ug/L	
Radionuclides													
	Gross alpha	1.01	UI	3.16		1.93	U V					pCi/L	
	Nonvolatile beta	1.03	UI	2.75	J	2.61	J I					pCi/L	
	Radium, total alpha-emitting	2.97	UIJ	.64		.8	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 41TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102176.5 E 53429.7	33.339 Deg N 81.725 Deg W	26.7 - 21.40 ft msl	323.70 ft msl	4 " CS	S	CBA

SAMPLE DATE 02/09/99 08/18/99 02/04/00 08/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	206.64	205.63	206.11	204.27	ft msl
pH	5.5	4.8	4.8	4.9	pH
Sp. Conductance	22	22	22	22	uS/cm
Water temperature	19	20.7	18.7	20	deg. C
Alkalinity as CaCO3	1	0	2	0	mg/L
Turbidity	1.9	.5	.7	.7	NTU
Volumes purged	2.45	2.49	2.37	2.29	well volume
Sampling code					
Synchronous water level	206.7 (06/23/99)	205.9 (12/14/99)	206 (03/23/00)	204.1 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.06	J I	6.2	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	7.16								ug/L	
	Nickel, total recoverable	<50	U	<8.8	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	.51	J IK	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	JU Q	1.39	J K	<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	14.1	J	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	961		769		862						ug/L	
	Sodium, total recoverable	2930		2100		2000		1810		< 4600	1	ug/L	EX
	Sulfate	1100	J	1290		873						ug/L	
Radionuclides													
	Gross alpha	.71	UI	.97	UIJ	.749	J I					pCi/L	
	Nonvolatile beta	1.25	UI	.52	UI	.264	U					pCi/L	
	Radium, total alpha-emitting	1.17		.15	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 42B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104569.8 E 51582.8	33.341 Deg N 81.734 Deg W	166.3 - 160.7 ft msl	376.40 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/02/99 09/13/99 03/22/00 08/29/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	225.07	223.9	223.26	221.92	ft msl
pH	4.8	4.9	4.9		pH
Sp. Conductance	24	23	23		uS/cm
Water temperature	20.2	20.3	19.9		deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.2	.1	.3		NTU
Volumes purged	1.92	2.71	2.69	4.20	well volume
Sampling code					
Synchronous water level	224.8 (06/22/99)	223.9 (12/14/99)	224 (06/29/00)	221.1 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	42.9		3.65	J I							ug/L	
	Cyanide	1.52	J I	<10	U							ug/L	
	Lead, total recoverable	57.3		<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	.95	J I	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	14.6		9.53		5.8	J K	3.8	J IK	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	30.5	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1180		1100		950						ug/L	
	Sodium, total recoverable	2040		2290		2160		2640		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	480						ug/L	
Radionuclides													
	Gross alpha	.97	UI	1.84		.728	J I					pCi/L	
	Nonvolatile beta	.16	UI	3.88		1.01	J IK					pCi/L	
	Radium, total alpha-emitting	3.42	UIJ	.42	U	.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 42C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104581.9 E 51582.8	33.341 Deg N 81.734 Deg W	204.3 - 198.7 ft msl	376.40 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/09/99 09/13/99 03/22/00 08/29/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	229.78	229.45	228.54	228.2	ft msl
pH	5.2	5.1	5.1	5.2	pH
Sp. Conductance	24	25	24	23	uS/cm
Water temperature	19.1	20.5	20	21.2	deg. C
Alkalinity as CaCO3	1	0	1	0	mg/L
Turbidity	1.1	.1	.3	.7	NTU
Volumes purged	5.22	3.03	4.00	.674	well volume
Sampling code				S	
Synchronous water level	230.1 (06/22/99)	229.1 (12/14/99)	229.5 (06/29/00)	376.5 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.58	J I	5.18	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	.63	J I	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	7.32	J Q	2.63		3.78	J K	3.1	J IK	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	29.9		<200	U	109	J I	29.8	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	31	J	1040		960						ug/L	
	Sodium, total recoverable	2410		2750		2660		2780		< 4600	1	ug/L	EX
	Sulfate	<5000	U	401		500						ug/L	
Radionuclides													
	Gross alpha	1.78	UI	1.25	J	21.8						pCi/L	
	Nonvolatile beta	1.71	UI	2.76		5.82	J K					pCi/L	
	Radium, total alpha-emitting	1.87		.52		1.3	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 42D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104595.2 E 51582.5	33.341 Deg N 81.734 Deg W	247.2 - 226.6 ft msl	376.40 ft msl	4 " PVC	B	M

SAMPLE DATE 03/02/99 09/13/99 02/16/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.27	230.69	229.93	<i>Not Available</i>	ft msl
pH	5.2	5.1			pH
Sp. Conductance	19	20			uS/cm
Water temperature	19.8	20.6			deg. C
Alkalinity as CaCO3		0			mg/L
Turbidity	3.2	3.7			NTU
Volumes purged	3.00	8.79			well volume
Sampling code					
Synchronous water level	231.3 (03/26/99)	230.6 (09/23/99)	229.7 (03/22/00)	227.7 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.5	J I	5.42	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	U					ug/L	
	1,1-Dichloroethane	6	U	<1	U	<1	U					ug/L	
	1,1-Dichloroethylene	6	U	<1	U	<1	U					ug/L	
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	U					ug/L	
	Tetrachloroethylene	6	U	<1	U	<1	U					ug/L	
	1,1,1-Trichloroethane	6	U	<1	U	<1	U					ug/L	
	Trichloroethylene	3.95	J I	3.55		4.2						ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U					ug/L	
	Nitrate-nitrite as nitrogen	1030		780		660						ug/L	
	Sodium, total recoverable	1630		<1760	U	1640						ug/L	
	Sulfate	<5000	U	<400	U	770						ug/L	
Radionuclides													
	Gross alpha	10.5		8.19		2.19						pCi/L	
	Nonvolatile beta	12.6		18.68		1.53	J K					pCi/L	
	Radium, total alpha-emitting	3.46	UIJ	2.02		1.5	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 42TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104545.6 E 51581.7	33.341 Deg N 81.734 Deg W	45.800 - 40.50 ft msl	376.60 ft msl	4 " CS	S	CBA

SAMPLE DATE 03/02/99 09/13/99 03/21/00 08/29/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	202.5	203.65	203.71	202	ft msl
pH	5.2	5.5	5.5	5.4	pH
Sp. Conductance	19	19	18	18	uS/cm
Water temperature	19.7	20.9	19.9	22.4	deg. C
Alkalinity as CaCO3	4	2	2	4	mg/L
Turbidity	6.3	7.4	4.5	5	NTU
Volumes purged	2.26	2.17	2.26	1.63	well volume
Sampling code					
Synchronous water level	205 (06/22/99)	204.4 (12/14/99)	205 (06/29/00)	200.7 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.29	J I	3.41	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	13								ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	41.6		40.1		34.7		35	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	87.3		88.7		73.5		49	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	13.3	J	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	816		640		620						ug/L	
	Sodium, total recoverable	1450		<1720	U	1590		1700		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	360						ug/L	
Radionuclides													
	Gross alpha	.23	UI	1.39		19.6						pCi/L	
	Nonvolatile beta	.65	UI	7.24		4.39	J K					pCi/L	
	Radium, total alpha-emitting	7.81	UIJ	.37	U	6.7						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 43TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107275.8 E 49281.8	33.343 Deg N 81.745 Deg W	40.3 - 35.00 ft msl	357.5 ft msl	4 " CS	S	CBA

SAMPLE DATE 08/16/99 02/04/00 09/10/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	201.87	202.21	200.09	ft msl
pH		5.1	4.9	5.1	pH
Sp. Conductance		16	16	16	uS/cm
Water temperature		21.1	19.2	21.7	deg. C
Alkalinity as CaCO3		0	3	0	mg/L
Turbidity		4.7	5.7	1.8	NTU
Volumes purged		3.87	3.17	2.69	well volume
Sampling code					
Synchronous water level	202.9 (06/22/99)	202 (12/16/99)	200.9 (06/28/00)	199.7 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	<10	U							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<3.68	U V							ug/L	
	Nickel, total recoverable	<50	U	<8.4	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	δ	U	<1	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethane	δ	U	<1	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	δ	U	<1	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	δ	U	<1	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	δ	U	<1	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX
	Tetrachloroethylene	δ	U	<1	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	δ	U	<1	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX
	Trichloroethylene	δ	U	<1	U	<1	JU	<5	JU L	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	14.2	J	<200	U	<200	U	74.2	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	97		106	J	103	J I					ug/L	
	Sodium, total recoverable	1400		1610		1500		1590		< 4600	1	ug/L	EX
	Sulfate	<5000	U	758		839						ug/L	
Radionuclides													
	Gross alpha	.06	UI	.24	UIJ	.366	U					pCi/L	
	Nonvolatile beta	-.14	UI	-.32	UI	.671	U					pCi/L	
	Radium, total alpha-emitting	.57	UIJ	.02	UI	-.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 45A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103998.1 E 50554.7	33.338 Deg N 81.736 Deg W	139.20 - 129.2 ft msl	380.80 ft msl	4 " PVC	S	LL
SAMPLE DATE		03/10/99	09/01/99	03/13/00	08/31/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	216	214.38	216.33	211.89	ft msl	
pH	5.2	5.6	7.4	5.7	pH	
Sp. Conductance	33	31	47	32	uS/cm	
Water temperature	19.9	19.7	18.2	20	deg. C	
Alkalinity as CaCO3	3	5	13	3	mg/L	
Turbidity	.1	.2	1.1	1.2	NTU	
Volumes purged	3.10	3.09	2.30	2.11	well volume	
Sampling code						
Synchronous water level	215 (06/22/99)	214.3 (12/13/99)	212.8 (06/24/00)	211.8 (12/28/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	24.5		17								ug/L	
	Cyanide	<10	JU L	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<50	U	<1	U	<5	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<50	U	<1	U	<5	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<50	U	<1	U	<5	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<50	U	<1	U	<5	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<1	U	<5	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	116		120	J K	100	J	100	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<50	U	<1	U	<5	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	706		725		776	J	530	J K	NDD	5	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable			<200	U	<200	U	46.4	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen			993		962						ug/L	
	Sodium, total recoverable			2580		2600		2710		< 4600	1	ug/L	EX
	Sulfate			582		372	J I					ug/L	
Radionuclides													
	Gross alpha			2.58		.96	U V					pCi/L	
	Nonvolatile beta			3.86	J	1.47	J I					pCi/L	
	Radium, total alpha-emitting			.55		.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 45B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103987.9 E 50555.3	33.338 Deg N 81.736 Deg W	190.00 - 180.0 ft msl	380.90 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/09/99 08/18/99 02/04/00 09/07/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	224.58	223.95	224.48	221.39	ft msl
pH	5.6	5.3	5.5	5.6	pH
Sp. Conductance	38	40	40	40	uS/cm
Water temperature	19.2	21.3	18.2	21.2	deg. C
Alkalinity as CaCO3	15	4	4	3	mg/L
Turbidity	.7	.2	.6	.5	NTU
Volumes purged	4.60	4.29	2.82	2.48	well volume
Sampling code					
Synchronous water level	224.9 (06/22/99)	224.1 (12/13/99)	223 (03/23/00)	220.9 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	<10	U							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	1.89	J I							ug/L	
	Nickel, total recoverable	<50	U	<11	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	JU Q	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	Trichloroethylene	<5	JU Q	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	20.8		<200	U	<200	U	54.1	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1200		595		255	J I					ug/L	
+	Sodium, total recoverable	7310		7480		8100		8980		> 4600	1	ug/L	EX
	Sulfate	6470		4720		5640						ug/L	
Radionuclides													
	Gross alpha	.88	UI	.43	UIJ	.635	U					pCi/L	
	Nonvolatile beta	2.02		.21	UIJ	.774	U					pCi/L	
	Radium, total alpha-emitting	1.4	J	.22	UI	.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 46A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103098.6 E 50548.3	33.336 Deg N 81.734 Deg W	130 - 120 ft msl	372.60 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/09/99 08/19/99 02/04/00 08/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	214.7	214.24	214.15	212.39	ft msl
pH	6.4	6.5	8.1	8.2	pH
Sp. Conductance	150	156	150	165	uS/cm
Water temperature	18.8	27.4	11.2	24.9	deg. C
Alkalinity as CaCO3	46	60	53	66	mg/L
Turbidity	.7	.7	1.1	1.2	NTU
Volumes purged	.016	.016	.016	.017	well volume
Sampling code	X	NX	NX	NX	
Synchronous water level	214.7 (06/22/99)	214 (12/13/99)	212.7 (06/24/00)	211.5 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	20.2		22								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<4.02	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	JU Q	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	38.4		<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	25		365	J	<100	U					ug/L	
	Sodium, total recoverable	5160		4520		5000		4590		< 4600	1	ug/L	EX
	Sulfate	11200		8040		10900						ug/L	
Radionuclides													
	Gross alpha	.34	UI	-.36	UIJ	.555	U					pCi/L	
	Nonvolatile beta	4.63		4.24	J	5.56						pCi/L	
	Radium, total alpha-emitting	3.78	UIJ	.14	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 46C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103098.5 E 50548.7	33.336 Deg N 81.734 Deg W	247 - 237 ft msl	372.60 ft msl	2 " PVC	B	M

SAMPLE DATE

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO3					mg/L
Turbidity					NTU
Volumes purged					well volume
Sampling code					
Synchronous water level	239 (06/22/99)	()	()	362.7 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable												
	Cyanide												
	Lead, total recoverable												
	Nickel, total recoverable												
	Selenium, total recoverable												
Organics													
	Chlorobenzene												
	1,1-Dichloroethane												
	1,1-Dichloroethylene												
	trans-1,2-Dichloroethylene												
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane												
	Tetrachloroethylene												
	1,1,1-Trichloroethane												
	Trichloroethylene												

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable			936								ug/L	
	Nitrate-nitrite as nitrogen			2790								ug/L	
	Sodium, total recoverable			2140								ug/L	
	Sulfate			576								ug/L	
Radionuclides													
	Gross alpha			12.1								pCi/L	
	Nonvolatile beta			20.57								pCi/L	
	Radium, total alpha-emitting			1.82								pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 47B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106978.5 E 52207.2	33.348 Deg N 81.737 Deg W	171.50 - 165.9 ft msl	368.70 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/10/99 08/25/99 02/25/00 09/18/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	224.2	227.61	223.1	221.52	ft msl
pH	5.5	6.5	6.2	5.5	pH
Sp. Conductance	72	71	64	65	uS/cm
Water temperature	18.9	20.9	19	19.1	deg. C
Alkalinity as CaCO3	13	8	4	4	mg/L
Turbidity	.3	.5	.1	.6	NTU
Volumes purged	2.26	2.65	2.51	2.56	well volume
Sampling code					
Synchronous water level	226.5 (06/22/99)	223.4 (12/13/99)	222 (06/29/00)	220.9 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	27		34								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<125	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	1,1-Dichloroethane	<125	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	1,1-Dichloroethylene	<125	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	trans-1,2-Dichloroethylene	<125	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	Tetrachloroethylene	<125	U	<1.56	U V	<5	U	<50	U	< EQL	10	ug/L	EX
	1,1,1-Trichloroethane	<125	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	Trichloroethylene	1150		1400		1180		820	J K	NDD	10	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	60.7		<200	U	<200	U	<80.7	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	3830		3580		3510						ug/L	
+	Sodium, total recoverable	6160		6370		6800		6820		> 4600	1	ug/L	EX
	Sulfate	<5000	U	356	J	183	J I	796		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	3.33		7.98		4.07						pCi/L	
	Nonvolatile beta	6.04		10.24		5.62						pCi/L	
	Radium, total alpha-emitting	10.2	J	1.57		2.2						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 47C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106969.2 E 52195.5	33.347 Deg N 81.737 Deg W	202.60 - 197.0 ft msl	369 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/10/99 08/25/99 02/25/00 09/18/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.72	233.7	230.66	229.12	ft msl
pH	7.3	7.6	6.9	6.7	pH
Sp. Conductance	64	89	75	69	uS/cm
Water temperature	19	20.9	18.7	19.4	deg. C
Alkalinity as CaCO3	20	37	7	35	mg/L
Turbidity	.3	.4	.7	.6	NTU
Volumes purged	3.48	3.29	2.77	2.19	well volume
Sampling code					
Synchronous water level	232.1 (06/22/99)	231.1 (12/13/99)	229.7 (06/29/00)	228.4 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	41.1		40								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethane	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethylene	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	EX
	trans-1,2-Dichloroethylene	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	EX
	Tetrachloroethylene	30.7	J I	14.9	J K	15		<100	U	< EQL	20	ug/L	EX
	1,1,1-Trichloroethane	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	EX
	Trichloroethylene	2920		2710		2730		2300	J K	NDD	20	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	42.4		<200	U	98	J I	540		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1950		1500		1440						ug/L	
+	Sodium, total recoverable	3960		4430		5100		9930		> 4600	1	ug/L	EX
	Sulfate	<5000	U	510		323	J I	1260		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.37	UI	1.3		1.13	J I					pCi/L	
	Nonvolatile beta	-6	UI	1.67		.739	U					pCi/L	
	Radium, total alpha-emitting	8.8	J	.6	U	.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 47D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106960.1 E 52184	33.347 Deg N 81.737 Deg W	246.1 - 226.5 ft msl	368.80 ft msl	4 " PVC	S	M

SAMPLE DATE 02/09/99 03/08/00 09/10/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.88	<i>Not Available</i>	231.78	230.34	ft msl
pH	4.8		6	5.2	pH
Sp. Conductance	48		84	55	uS/cm
Water temperature	18.7		20.5	20.8	deg. C
Alkalinity as CaCO3	1		12	0	mg/L
Turbidity	1.5		8.5	1.6	NTU
Volumes purged	31.8		12.6	14.7	well volume
Sampling code					
Synchronous water level	232.3 (06/22/99)	232.4 (12/13/99)	230.9 (06/29/00)	229.4 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	29										ug/L	
	Cyanide	<10	U									ug/L	
	Lead, total recoverable	<100	U									ug/L	
	Nickel, total recoverable	<50	U									ug/L	
	Selenium, total recoverable	<200	U									ug/L	
Organics													
	Chlorobenzene	<5	U			<.61	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	1.73	J I			.85	J IK	3.3	J I	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	29.4		<200	U			464		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	4320		3070								ug/L	
+	Sodium, total recoverable	8950		5830				6530		> 4600	1	ug/L	EX
	Sulfate	<5000	U	346	J			847		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	4.4	UI	18.46								pCi/L	
	Nonvolatile beta	3.1	UI	12.25								pCi/L	
	Radium, total alpha-emitting	3.87	J	8.38								pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 47TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106987.7 E 52219	33.348 Deg N 81.737 Deg W	55.100 - 50.10 ft msl	368.70 ft msl	4 " CS	S	CBA

SAMPLE DATE 08/26/99 02/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	216.45	214.98	<i>Not Available</i>	ft msl
pH		5.9	6.2		pH
Sp. Conductance		26	28		uS/cm
Water temperature		22.1	20.1		deg. C
Alkalinity as CaCO3		5	6		mg/L
Turbidity		133	240		NTU
Volumes purged		3.31	2.67		well volume
Sampling code					
Synchronous water level	216 (06/22/99)	215.1 (12/13/99)	213.8 (06/29/00)	212.7 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	12								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<1.13	U V							ug/L	
	Nickel, total recoverable	<50	JU	<7.4	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<25	U	<1	U	<2	U	<25	U	< EQL	5	ug/L	EX
	1,1-Dichloroethane	<25	U	<1	U	<2	U	<25	U	< EQL	5	ug/L	EX
	1,1-Dichloroethylene	<25	U	<1	U	<2	U	<25	U	< EQL	5	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<1	U	<2	U	<25	U	< EQL	5	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<1	U	<2	U	<25	U	< EQL	5	ug/L	EX
	Tetrachloroethylene	<25	U	1.77	J K	1.42	J I	<25	U	< EQL	5	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<1	U	<2	U	<25	U	< EQL	5	ug/L	EX
	Trichloroethylene	884		751		589		520	J K	NDD	5	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	17.9	J			<200	U	<35.8	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1320				1170						ug/L	
	Sodium, total recoverable	2440				2100		2380		< 4600	1	ug/L	EX
	Sulfate	<5000	U			1050		801		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	2.49				1.89	J IK					pCi/L	
	Nonvolatile beta	1.12	UI			1.5	U					pCi/L	
	Radium, total alpha-emitting	1.47	UI			.7	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 48A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107936.6 E 54099.8	33.353 Deg N 81.734 Deg W	129.4 - 124.7 ft msl	361.60 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/09/99 08/12/99 01/31/00 09/11/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	222.15	221.63	221.19	219.4	ft msl
pH	5.8	5.2	5.4	5.7	pH
Sp. Conductance	22	24	22	24	uS/cm
Water temperature	18.8	20.1	18	19.1	deg. C
Alkalinity as CaCO3	3	1	2	4	mg/L
Turbidity	6	2.1	3.7	1.9	NTU
Volumes purged	3.81	2.35	2.63	2.40	well volume
Sampling code					
Synchronous water level	222.3 (06/22/99)	221.4 (12/13/99)	220.1 (06/29/00)	219.5 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.4		12								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<4.6	JU I							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	JU	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<.6	U V	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<.67	U	<1	JU L	<5	JU	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	28.9		243		<200	U	33.7	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1850		1480		1470						ug/L	
	Sodium, total recoverable	1480		1690		1600		1990		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	8110		742		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.94		1.4	J	.352	U					pCi/L	
	Nonvolatile beta	-1.06	UI			1.57	J I					pCi/L	
	Radium, total alpha-emitting	3.52	UIJ	.54		3.2						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 48B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107945 E 54112.2	33.353 Deg N 81.734 Deg W	158.3 - 153.6 ft msl	361.40 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/18/99 08/30/99 02/17/00 09/18/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	224	223.14	222.48	220.8	ft msl
pH	5.5	5.8	5.6	5.3	pH
Sp. Conductance	39	39	33	36	uS/cm
Water temperature	19.2	19.5	18.3	18.8	deg. C
Alkalinity as CaCO3	2	6	1	6	mg/L
Turbidity	.7	.8	.6	.5	NTU
Volumes purged	2.48	2.48	2.57	3.41	well volume
Sampling code					
Synchronous water level	223.8 (06/22/99)	223 (12/13/99)	222.5 (03/20/00)	220 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	14								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	18.4		15.5	J K	10.8	J	5.5	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	52.5		<200	U	<200	U	<35.8	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1130		339	J	2180						ug/L	
	Sodium, total recoverable	1720		2000		2000		2130		< 4600	1	ug/L	EX
	Sulfate	<5000	U	331	J	<400	U	748		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.28	UI	2.57		1.67	J I					pCi/L	
	Nonvolatile beta	1.73	UI	4.11	J	2.08	J I					pCi/L	
	Radium, total alpha-emitting	1.18	UIJ	.7		.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 48C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107917.5 E 54077	33.353 Deg N 81.734 Deg W	180.2 - 175.4 ft msl	362.30 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/09/99 08/16/99 01/31/00 09/11/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	224.15	223.64	223.2	221.45	ft msl
pH	5.4	6	5.4	6	pH
Sp. Conductance	35	34	31	32	uS/cm
Water temperature	20	19.9	18.1	19.6	deg. C
Alkalinity as CaCO3	3	7	5	5	mg/L
Turbidity	2.8	.7	.5	1.7	NTU
Volumes purged	3.20	3.74	2.88	2.73	well volume
Sampling code					
Synchronous water level	224.4 (06/22/99)	223.4 (12/13/99)	222.1 (06/29/00)	220.7 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.28	J I	8.9	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<1.03	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	76.8		74	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1730		1370		1510						ug/L	
	Sodium, total recoverable	2500		2310		2200		2400		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	423		912		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.6	UI	1.35	UIJ	.576	U					pCi/L	
	Nonvolatile beta	2.6				2.35	J I					pCi/L	
	Radium, total alpha-emitting	1.14	UIJ	.58		.6	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 48D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107914.4 E 54056.3	33.353 Deg N 81.734 Deg W	243.5 - 222 ft msl	362.60 ft msl	4 " PVC	S	M

SAMPLE DATE

02/17/00

09/26/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	231.3	229.75	ft msl
pH			10.3	11	pH
Sp. Conductance			336	502	uS/cm
Water temperature			17.4	21.9	deg. C
Alkalinity as CaCO ₃			188	129	mg/L
Turbidity			609	217	NTU
Volumes purged			2.01	2.02	well volume
Sampling code					
Synchronous water level	232.8 (06/22/99)	232 (12/13/99)	231.4 (03/20/00)	228.9 (12/29/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable												
	Cyanide												
	Lead, total recoverable												
	Nickel, total recoverable												
	Selenium, total recoverable												
Organics													
	Chlorobenzene					<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane					<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene					<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene					<1	JU L	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane					<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene					<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane					<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene					<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable							3640		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen												
	Sodium, total recoverable							3010		< 4600	1	ug/L	EX
+	Sulfate							5110		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha												
	Nonvolatile beta												
	Radium, total alpha-emitting												

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 48TA**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107925.8 E 54089.2	33.353 Deg N 81.734 Deg W	107.8 - 102.5 ft msl	361.90 ft msl	4 " CS	S	CBA

SAMPLE DATE	02/09/99	08/12/99	01/31/00	09/13/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	222.1	221.49	221.21	219.37	ft msl
pH	5.4	5.9	6	6	pH
Sp. Conductance	30	29	27	28	uS/cm
Water temperature	19.7	20.7	18.2	19.7	deg. C
Alkalinity as CaCO3	5	4	6	1	mg/L
Turbidity	3.2	3.7	2.9	9.1	NTU
Volumes purged	2.66	2.61	2.44	3.06	well volume
Sampling code					
Synchronous water level	222.2 (06/22/99)	221.3 (12/13/99)	220 (06/29/00)	218.7 (12/29/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.68	J I	6.4	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<.43	U V	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	130	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1530		1160		1230						ug/L	
	Sodium, total recoverable	1670		1680		1700		1570		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	331		863		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	5.16	UI	.87	UIJ	.427	U					pCi/L	
	Nonvolatile beta	4.52				1.37	U					pCi/L	
	Radium, total alpha-emitting	1.59	J	.78		.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 49A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99759	33.321 Deg N	76.7 - 72.00 ft msl	334.70 ft msl	4 " PVC	S	MCBC
E 45864.6	81.74 Deg W					
SAMPLE DATE		02/09/99	09/01/99	03/18/00	08/23/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	197.7	197.09	196.33	194.85	ft msl	
pH	5.3	6.1	7.2	6.1	pH	
Sp. Conductance	50	45	79	43	uS/cm	
Water temperature	19.4	19.5	17.6	20.8	deg. C	
Alkalinity as CaCO3	11	12	26	9	mg/L	
Turbidity	1.5	.3	1.2	2.5	NTU	
Volumes purged	2.48	2.54	2.38	2.39	well volume	
Sampling code						
Synchronous water level	197.5 (06/24/99)	197.1 (12/14/99)	195.4 (06/25/00)	194.5 (12/30/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	32.6		32								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	Δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	Δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	Δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	Δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	Δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	Δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	Δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	8.96	J Q	9.44	J K	10.8		12		> 5	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	71.4		40.3	J	<200	U	<45.1	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	604		882		544						ug/L	
	Sodium, total recoverable	1710		1880		1800		1900		< 4600	1	ug/L	EX
	Sulfate	3550	J	3310		3040						ug/L	
Radionuclides													
	Gross alpha	1.35		2.55		1.74	U V					pCi/L	
	Nonvolatile beta	1.08	UI	107		1.41	J I					pCi/L	
	Radium, total alpha-emitting	6.72	UIJ	.9		.8	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 49B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99737.8 E 45868.2	33.321 Deg N 81.74 Deg W	116.3 - 110.7 ft msl	334.10 ft msl	4 " PVC	S	LL
SAMPLE DATE		03/03/99	09/01/99	03/18/00	08/23/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	203.91	203.39	202.32	200.8	ft msl	
pH	5.8	5.8	6.4	7	pH	
Sp. Conductance	68	68	72	86	uS/cm	
Water temperature	18.1	19	17.6	21.3	deg. C	
Alkalinity as CaCO3	5	9	9	13	mg/L	
Turbidity	.4	.4	.3	2	NTU	
Volumes purged	2.32	2.45	3.08	4.28	well volume	
Sampling code						
Synchronous water level	203.6 (06/24/99)	203.4 (12/14/99)	201.3 (06/25/00)	200.7 (12/30/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	24.3		26								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	60.5		68.2	J K	70		38		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	168		167	J K	146		100		> 5	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	22.6		<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	7090		4480		4460		5370		> 2400	5	ug/L	EX
+	Sodium, total recoverable	3990		4690		4800		5070		> 4600	1	ug/L	EX
	Sulfate	<5000	U	554		571						ug/L	
Radionuclides													
	Gross alpha	1.14	UI	3.98		2.79						pCi/L	
	Nonvolatile beta	3.47		5.85		4.1						pCi/L	
	Radium, total alpha-emitting	4.58	UIJ	1.34		.8	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 49D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99724.9 E 45856.4	33.321 Deg N 81.74 Deg W	236.40 - 216.7 ft msl	334.30 ft msl	4 " PVC	S	M
SAMPLE DATE		02/09/99	08/16/99	02/14/00	09/12/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	230.53	229.1	227.94	225.78	ft msl	
pH	5.7	5.1	4.8	5.3	pH	
Sp. Conductance	26	22	21	20	uS/cm	
Water temperature	18.4	21.7	19.1	22.9	deg. C	
Alkalinity as CaCO ₃	1	1	0	3	mg/L	
Turbidity	2.8	1.4	1.2	1.5	NTU	
Volumes purged	2.44	2.23	.137	.170	well volume	
Sampling code			NX	NX		
Synchronous water level	229.7 (06/24/99)	228.3 (12/14/99)	228.1 (03/21/00)	224.8 (12/30/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.4		11								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<5.02	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	41.2		<200	U	<200	U	44.9	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	862		716		838		764		< 2400	1	ug/L	EX
	Sodium, total recoverable	1290		2340		1700		<1600	U V	< EQL	1	ug/L	EX
	Sulfate	<5000	U	354	J	192	J I					ug/L	
Radionuclides													
	Gross alpha	1.79		8.06		3.55						pCi/L	
	Nonvolatile beta	.78	UI	5.88		2.54						pCi/L	
	Radium, total alpha-emitting	4.56	UIJ	1.18		1.6						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 51B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 96992.7 E 52818	33.326 Deg N 81.716 Deg W	160.00 - 154.4 ft msl	263.20 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/09/99 08/16/99 02/14/00 09/21/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	205.65	204.37	204.55	203.53	ft msl
pH	5.3	5.9	5.7	6.3	pH
Sp. Conductance	23	29	25	37	uS/cm
Water temperature	17.6	19.2	18	19.3	deg. C
Alkalinity as CaCO3	7	8	5	14	mg/L
Turbidity	.3	.2	.4	.7	NTU
Volumes purged	2.77	3.97	2.89	2.36	well volume
Sampling code					
Synchronous water level	205 (06/23/99)	204.3 (12/14/99)	203.7 (06/29/00)	203.3 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	18.8		17								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.52	U	V						ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	26.3		<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	353		<200	U	270	J I					ug/L	
	Sodium, total recoverable	1380		1100		1500		1730		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	334						ug/L	
Radionuclides													
	Gross alpha	-.08	UI	1.45		.742	U					pCi/L	
	Nonvolatile beta	-.01	UI	6.94	J	2.71						pCi/L	
	Radium, total alpha-emitting	7.17	J	.51		.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 52B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103077.7 E 53418.4	33.341 Deg N 81.726 Deg W	171.40 - 165.8 ft msl	321.70 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/09/99 08/16/99 02/14/00 09/12/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	219.3	218.3	218.4	216.75	ft msl
pH	5.3	6	5.6	5.7	pH
Sp. Conductance	32	36	34	34	uS/cm
Water temperature	19.2	19.9	18.7	20.3	deg. C
Alkalinity as CaCO3	6	8	4	4	mg/L
Turbidity	.3	.8	.8	.9	NTU
Volumes purged	2.26	2.48	2.68	3.75	well volume
Sampling code					
Synchronous water level	219.1 (06/23/99)	218.5 (12/14/99)	217 (06/24/00)	219.7 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.84	J I	7.3	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<1.18	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	2.67	J K	2.57	J K	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	1.51	J IQ	1.82	J K	1.77	J K	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	113		<200	U	<200	U	96.8	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	896		610		574						ug/L	
	Sodium, total recoverable	2230		2240		2500		2890		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	217						ug/L	
Radionuclides													
	Gross alpha	1.74		1.48		.716	J I					pCi/L	
	Nonvolatile beta	7.8		2.16	UJ	3.68						pCi/L	
	Radium, total alpha-emitting	1.97	UIJ	.37		.4	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 53B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106443.6 E 54574.3	33.35 Deg N 81.73 Deg W	152.3 - 147.6 ft msl	344.30 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/09/99 08/19/99 02/15/00 09/12/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	221.95	221.34	220.61	209.39	ft msl
pH	4.8	5.2	5.3	5.5	pH
Sp. Conductance	13	15	16	16	uS/cm
Water temperature	18.8	18.7	17.2	19.2	deg. C
Alkalinity as CaCO3	1	1	1	15	mg/L
Turbidity	.2	.5	.7	1.3	NTU
Volumes purged	2.51	2.97	2.79	3.32	well volume
Sampling code					
Synchronous water level	221.9 (06/23/99)	221 (12/14/99)	219.8 (06/29/00)	218.3 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.11	J I	4.3	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.45	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	13.4	J	<200	U	<200	U	2760		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	153		<200	U	202	J I					ug/L	
	Sodium, total recoverable	1550		1100		1700		1490		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	1350						ug/L	
Radionuclides													
	Gross alpha	.43	UI	1.47		.883	J I					pCi/L	
	Nonvolatile beta	4.42		1.31	UIJ	.737	U					pCi/L	
	Radium, total alpha-emitting	1.28	UIJ	.51		.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 53C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106456.2 E 54540.5	33.35 Deg N 81.73 Deg W	192.60 - 187.8 ft msl	345.20 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/09/99 08/19/99 02/15/00 09/12/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	222.6	222.07	221.27	219.96	ft msl
pH	4.9	5.1	5.3	5.4	pH
Sp. Conductance	21	24	24	23	uS/cm
Water temperature	18.8	18.7	17.7	19.7	deg. C
Alkalinity as CaCO3	1	1	3	1	mg/L
Turbidity	.3	.7	.7	1.2	NTU
Volumes purged	3.78	3.03	3.24	3.28	well volume
Sampling code					
Synchronous water level	222.7 (06/23/99)	221.8 (12/14/99)	231.4 (06/29/00)	219 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.19	J I	6.6	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<3.71	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	δ	JU Q	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	26.7		<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1610		1120		1170						ug/L	
	Sodium, total recoverable	2440		2310		2700		2370		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	224						ug/L	
Radionuclides													
	Gross alpha	.26	UI	2.87		1.35	J I					pCi/L	
	Nonvolatile beta	.28	UI	2.88	J	1.39	U					pCi/L	
	Radium, total alpha-emitting	1.44	UIJ	.49		.5	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 54B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108446.8 E 52970.5	33.352 Deg N 81.738 Deg W	136.40 - 130.8 ft msl	373.40 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/23/99 08/12/99 01/31/00 08/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	221.78	221.32	220.97	219.39	ft msl
pH	5.7	5.5	4.8	5.8	pH
Sp. Conductance	22	21	20	20	uS/cm
Water temperature	19	20.1	18.4	22.8	deg. C
Alkalinity as CaCO3	3	1	0	1	mg/L
Turbidity	1	.5	.8	1.5	NTU
Volumes purged	2.48	4.06	2.13	2.52	well volume
Sampling code					
Synchronous water level	222 (06/22/99)	221.2 (12/13/99)	219.8 (06/29/00)	218.9 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.3		4.8	J I							ug/L	
	Cyanide	19.8		<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	2.7	J I	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<.7	U V	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<.97	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	8.3	J	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1070		904		906						ug/L	
	Sodium, total recoverable	1550		<1670	U	1800		1620		< 4600	1	ug/L	EX
	Sulfate	<5000	U	276	J	340		1130		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	-.09	UI	2.46		.62	J IK					pCi/L	
	Nonvolatile beta	.28	UI	2.38		1.99	J I					pCi/L	
	Radium, total alpha-emitting	2.15	UIJ	.21	UI	.4	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 54C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108447.4 E 52955.7	33.352 Deg N 81.738 Deg W	175.60 - 170.0 ft msl	373.40 ft msl	4 " PVC	S	LL
SAMPLE DATE		02/11/99	08/12/99	01/31/00	08/27/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	226.3	225.89	225.3	223.74	ft msl	
pH	10.1	9.4	9.7	9.8	pH	
Sp. Conductance	140	79	117	94	uS/cm	
Water temperature	20.3	21.1	18.5	23	deg. C	
Alkalinity as CaCO3	56	33	38	21	mg/L	
Turbidity	.1	2.7	1	1	NTU	
Volumes purged	2.55	2.95	2.49	3.61	well volume	
Sampling code						
Synchronous water level	226.6 (06/22/99)	225.6 (12/13/99)	224.2 (06/29/00)	223 (12/28/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	<10	U	34								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable			<10	U							ug/L	
Organics													
	Chlorobenzene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	Δ	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	Δ	U	<.69	U V	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	Δ	U	<.77	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	208		<200	U	140	J I	112	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1280		1110		1210						ug/L	
	Sodium, total recoverable	2100		2130		2000		2060		< 4600	1	ug/L	EX
	Sulfate	<5000	U	425		319		859		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	2.73		2.55	J	.857	J IK					pCi/L	
	Nonvolatile beta	.85	UI	2.93		1.64	J I					pCi/L	
	Radium, total alpha-emitting	3.45	UIJ	.83		.9	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 54D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108461.5 E 52984.5	33.352 Deg N 81.738 Deg W	244.80 - 223.8 ft msl	373.60 ft msl	4 " PVC	S	M/GC

SAMPLE DATE 02/11/99 08/12/99 01/31/00 09/09/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.82	232.81	231.98	229.27	ft msl
pH	4.1	5.1	7.7	5.4	pH
Sp. Conductance	20	19	21	20	uS/cm
Water temperature	19.3	19.5	18.4	21.1	deg. C
Alkalinity as CaCO3		0	4	1	mg/L
Turbidity	1.3	1.4	.8	3.9	NTU
Volumes purged	6.39	11.2	6.88	16.8	well volume
Sampling code					
Synchronous water level	233.1 (06/22/99)	232.4 (12/13/99)	230.9 (06/29/00)	230.2 (09/24/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	4.1	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	4.8	J I							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable			<3.7	JU I							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<.62	U V	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	12.4	J	<200	U	<200	U	105	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1820		1250		1470						ug/L	
	Sodium, total recoverable	1740		2190		1900		1790		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	594		1050		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.39	UI	6.97		1.35	J IK					pCi/L	
	Nonvolatile beta	.26	UI	10	J	1.37	J I					pCi/L	
	Radium, total alpha-emitting	7.97	UIJ	1.87		.7	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 54TA**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108446.3 E 52985.8	33.352 Deg N 81.738 Deg W	80.900 - 75.30 ft msl	373.5 ft msl	4 " CS	S	CBA

SAMPLE DATE 02/11/99 08/12/99 01/31/00 08/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	219.34	218.73	218.5	216.96	ft msl
pH	8	6.1	8.4	6.4	pH
Sp. Conductance	22	26	28	26	uS/cm
Water temperature	19.9	20.6	18.8	22.3	deg. C
Alkalinity as CaCO ₃	6	5	12	10	mg/L
Turbidity	.2	.9	.8	1.1	NTU
Volumes purged	2.84	2.68	2.41	2.41	well volume
Sampling code					
Synchronous water level	219.3 (03/26/99)	218.7 (12/13/99)	218.4 (03/20/00)	216.6 (12/28/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	8.5	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<8.8	JU I							ug/L	
	Selenium, total recoverable			<10	U							ug/L	
Organics													
	Chlorobenzene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	Δ	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	Δ	U	<.83	U V	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	Δ	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	Δ	U	<1.18	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	20.5		<200	U	120	J I	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1000		885		894						ug/L	
	Sodium, total recoverable	1520		<1320	U	1600		1340		< 4600	1	ug/L	EX
	Sulfate	<5000	U	237	J	234		815		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.98	UI	1.67		1.01	J IK					pCi/L	
	Nonvolatile beta	.67	UI	.71	UI	1.11	J I					pCi/L	
	Radium, total alpha-emitting	6.03	UIJ	.27	UI	.6	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 55B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108342.4 E 52006.2	33.35 Deg N 81.74 Deg W	152.7 - 148.0 ft msl	368.70 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/10/99 08/25/99 02/04/00 09/01/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	221.58	221.03	220.75	218.95	ft msl
pH	3.2	4	4.3	4	pH
Sp. Conductance	65	64	65	63	uS/cm
Water temperature	19	19.9	18.1	20.9	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.2	.9	1.2	2	NTU
Volumes purged	2.72	2.57	3.61	2.89	well volume
Sampling code					
Synchronous water level	221.7 (06/22/99)	220.8 (12/13/99)	219.5 (06/29/00)	218.1 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.31	J I	9.3	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	375		443		510		448		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	13		<500	U	<500	U					ug/L	
	Sodium, total recoverable	1730		<2030	U	2100		1940		< 4600	1	ug/L	EX
+	Sulfate	11100		13100		10800		13700		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	8.34		3.65		1.75	J I					pCi/L	
	Nonvolatile beta	13.2		4.12	J	3.62						pCi/L	
	Radium, total alpha-emitting	8.32	UIJ	1.05		.6	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 55C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108324.6 E 52029.7	33.35 Deg N 81.74 Deg W	189.3 - 184.6 ft msl	369.40 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/10/99 08/13/99 02/04/00 09/01/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	228.96	228.69	228.15	226.33	ft msl
pH	4.1	5.2	5.6	5.5	pH
Sp. Conductance	27	25	24	25	uS/cm
Water temperature	18.8	20.6	17	21	deg. C
Alkalinity as CaCO3		2	3	1	mg/L
Turbidity	.2	1.6	1.2	1	NTU
Volumes purged	3.45	3.16	4.22	2.57	well volume
Sampling code					
Synchronous water level	229.3 (06/22/99)	228.2 (12/13/99)	226.9 (06/29/00)	225.6 (12/31/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.86	J I	4.8	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.65	U V							ug/L	
	Nickel, total recoverable	<50	U	<10	JU I							ug/L	
	Selenium, total recoverable	<10	U	<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	16.2	J	<200	U	<200	U	31.7	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1480		1110		1290						ug/L	
	Sodium, total recoverable	2490		2640		2700		2870		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	462		1100		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.28		1.73		.869	JU L					pCi/L	
	Nonvolatile beta	2.32		1.35	UIJ	1.01	U					pCi/L	
	Radium, total alpha-emitting	7.64	UIJ	.47		.4	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 55D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108391.4 E 52032.5	33.35 Deg N 81.74 Deg W	245.9 - 224.7 ft msl	367.70 ft msl	4 " PVC	S	M/GC
SAMPLE DATE		02/10/99	08/13/99	02/04/00	09/21/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	232.93	232.98	232.99	232.87	ft msl	
pH	4	4.8	5.2	5	pH	
Sp. Conductance	33	26	24	23	uS/cm	
Water temperature	19.1	20.4	17.9	21.1	deg. C	
Alkalinity as CaCO ₃		0	3	0	mg/L	
Turbidity	.7	2.2	2.1	3.3	NTU	
Volumes purged	4.94	4.91	9.80	3.25	well volume	
Sampling code						
Synchronous water level	233 (06/22/99)	232.9 (12/13/99)	233 (03/20/00)	232.9 (12/31/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.4	J I	8.4	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	16.4								ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	6.9	J	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1920		1640		1840						ug/L	
	Sodium, total recoverable	1680		2800		1900		1810		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	192	J I	856		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	3.45		7.87		3.34	J L					pCi/L	
	Nonvolatile beta	1.8	UI	2.77	J	1.79	J I					pCi/L	
	Radium, total alpha-emitting	9.53	J	2.57		2.5						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 55HC**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108338.7 E 52020.1	33.35 Deg N 81.74 Deg W	218.8 - 214.1 ft msl	368.70 ft msl	4 " PVC	S	UL

SAMPLE DATE	02/11/99	08/26/99	02/16/00	09/01/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.4	232.5	235.74	229.92	ft msl
pH	10.3	8.5	8.6	9.5	pH
Sp. Conductance	390	75	71	76	uS/cm
Water temperature	17.6	24.9	22.2	26.4	deg. C
Alkalinity as CaCO3	53	28	30	27	mg/L
Turbidity	12	52.9	44	24.9	NTU
Volumes purged	.084	0		1.07	well volume
Sampling code	X	NX	NX		
Synchronous water level	232.7 (06/22/99)	231.9 (12/13/99)	230.6 (06/29/00)	229.3 (12/31/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	160								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.08	U	V						ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable			<5	U							ug/L	
Organics													
	Chlorobenzene	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable					660		490		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2130		1690		1500						ug/L	
+	Sodium, total recoverable					5400		5410		> 4600	1	ug/L	EX
	Sulfate	<5000	U	887		461		971		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	14.2		15.13		2.43	J K					pCi/L	
	Nonvolatile beta	8.34		7.83		1.65	U					pCi/L	
	Radium, total alpha-emitting	3.76	J	1.67		.8	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 55TA**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108322.8 E 52014.7	33.35 Deg N 81.74 Deg W	91.6 - 86.20 ft msl	368.70 ft msl	4 " CS	S	CBA
SAMPLE DATE		02/10/99	08/25/99	02/04/00	09/13/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	214.12	213.4	213.35	211.27	ft msl	
pH	4.4	5.2	5.5	5.7	pH	
Sp. Conductance	21	21	21	21	uS/cm	
Water temperature	19.2	20.1	18.6	20.6	deg. C	
Alkalinity as CaCO3	2	1	5	2	mg/L	
Turbidity	.5	1	1.7	2.4	NTU	
Volumes purged	2.33	2.56	2.19	1.95	well volume	
Sampling code						
Synchronous water level	214.2 (06/22/99)	213.4 (12/13/99)	213 (03/20/00)	210.6 (12/31/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.98	J I	3.6	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	21.7				<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	506				459	J I					ug/L	
	Sodium, total recoverable	1410				1500		1490		< 4600	1	ug/L	EX
	Sulfate	<5000	U			1580		2290		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.17	UI			.582	U					pCi/L	
	Nonvolatile beta	-.69	UI			.807	U					pCi/L	
	Radium, total alpha-emitting	1.04	UIJ			.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 64B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101831 E 46579.7	33.327 Deg N 81.742 Deg W	124.3 - 119.6 ft msl	348.30 ft msl	4 " PVC	S	LL

SAMPLE DATE**FIELD DATA**

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO ₃					mg/L
Turbidity					NTU
Volumes purged					well volume
Sampling code					
Synchronous water level	207.5 (06/23/99)	208.3 (12/16/99)	205.6 (06/25/00)	205.2 (09/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable												
	Cyanide												
	Lead, total recoverable												
	Nickel, total recoverable												
	Selenium, total recoverable												
Organics													
	Chlorobenzene												
	1,1-Dichloroethane												
	1,1-Dichloroethylene												
	trans-1,2-Dichloroethylene												
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane												
	Tetrachloroethylene												
	1,1,1-Trichloroethane												
	Trichloroethylene												

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	43.1		<200	U							ug/L	
	Nitrate-nitrite as nitrogen	4410										ug/L	
	Sodium, total recoverable	4060		4070								ug/L	
	Sulfate	<5000	U									ug/L	
Radionuclides													
	Gross alpha	.51	UI									pCi/L	
	Nonvolatile beta	.82	UI									pCi/L	
	Radium, total alpha-emitting	3.69	J									pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 65D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101915.5 E 49413.7	33.332 Deg N 81.735 Deg W	243.90 - 224.4 ft msl	349.20 ft msl	4 " PVC	S	M

SAMPLE DATE	03/10/99	03/10/00	08/30/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.92	<i>Not Available</i>	230.29	227.8	ft msl
pH	4.5		5.2	4.6	pH
Sp. Conductance	29		23	24	uS/cm
Water temperature	19.2		19.9	30.7	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	.2		.4	1	NTU
Volumes purged	7.05		6.54	13.8	well volume
Sampling code					
Synchronous water level	232.4 (06/24/99)	231.1 (12/16/99)	230.1 (03/21/00)	228.5 (12/29/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.37	J I									ug/L	
	Cyanide	<10	JU L									ug/L	
	Lead, total recoverable	<100	U									ug/L	
	Nickel, total recoverable	<7.01	JU									ug/L	
	Selenium, total recoverable	<200	U									ug/L	
Organics													
	Chlorobenzene	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U					<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	6.99				16.9	J K	23		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	4.53	J I			9.32	J K	7		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	40.8		108	J			42.5	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1300		1090								ug/L	
	Sodium, total recoverable	1920		1860				1940		< 4600	1	ug/L	EX
	Sulfate	<5000	U	726								ug/L	
Radionuclides													
	Gross alpha	1.77		4.64								pCi/L	
	Nonvolatile beta	1.74	UI	2.18	J							pCi/L	
	Radium, total alpha-emitting	1.81	UI	1.17								pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 66B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105842 E 51064.6	33.343 Deg N 81.738 Deg W	143.9 - 139.2 ft msl	383.40 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 03/16/99 08/30/99 03/01/00 09/19/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	219.08	217.75	217.68	215.4	ft msl
pH	8	8.3	7.2	8.9	pH
Sp. Conductance	58	67	58	78	uS/cm
Water temperature	21.6	20.5	20.2	21.3	deg. C
Alkalinity as CaCO3	24	28	19	18	mg/L
Turbidity	.2	.7	1.7	1.7	NTU
Volumes purged	2.95	2.61	2.44	2.65	well volume
Sampling code					
Synchronous water level	218.5 (06/22/99)	217.6 (12/13/99)	216.2 (06/29/00)	215.2 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	21.6		23								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<25	U	<1	U	<2	U	<25	U	< EQL	5	ug/L	EX
	1,1-Dichloroethane	<25	U	<1	U	<2	U	<25	U	< EQL	5	ug/L	EX
	1,1-Dichloroethylene	<25	U	<1	U	<2	U	<25	U	< EQL	5	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<1	U			<25	U	< EQL	5	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<1	U	<2	U	<25	U	< EQL	5	ug/L	EX
	Tetrachloroethylene	<25	U	9.33	J K	11.8		8.5	J IK	NDD	5	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<1	U	<2	U	<25	U	< EQL	5	ug/L	EX
+	Trichloroethylene	287		383	J K	559		590		> 5	5	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	61		<200	U	<200	U	<90	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1870		1440		1570						ug/L	
	Sodium, total recoverable	2000		2130		2630		2770		< 4600	1	ug/L	EX
	Sulfate	<5000	U	225	J	<400	U	807		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.84	UI	1.88	J	.35	U					pCi/L	
	Nonvolatile beta	1.15	UI	5.69		1.17	U					pCi/L	
	Radium, total alpha-emitting	5.15	J	.89		.4	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 66C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105842.1 E 51053.5	33.343 Deg N 81.738 Deg W	170.9 - 166.2 ft msl	383.40 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/16/99 08/30/99 03/01/00 09/19/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	227.86	227.24	226.89	224.8	ft msl
pH	4.9	5	5.5	6.5	pH
Sp. Conductance	34	35	0	35	uS/cm
Water temperature	22.2	21	20.4	21.4	deg. C
Alkalinity as CaCO3		0	1	0	mg/L
Turbidity	.2	.1	.8	1.4	NTU
Volumes purged	2.83	3.51	2.40	2.30	well volume
Sampling code					
Synchronous water level	227.9 (06/22/99)	227 (12/13/99)	226.8 (03/20/00)	224.6 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.05	J I	8.5	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<25	U	<1	U	<1	U	<12	U	< EQL	2.5	ug/L	EX
	1,1-Dichloroethane	<25	U	<1	U	<1	U	<12	U	< EQL	2.5	ug/L	EX
	1,1-Dichloroethylene	<25	U	<1	U	<1	U	<12	U	< EQL	2.5	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<1	U			<12	U	< EQL	2.5	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<1	U	<1	U	<12	U	< EQL	2.5	ug/L	EX
	Tetrachloroethylene	20.8	J I	22.6	J K	15.5		14	J K	NDD	2.5	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<1	U	<1	U	<12	U	< EQL	2.5	ug/L	EX
	Trichloroethylene	343		345	J K	325		280	J K	NDD	2.5	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable			<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen			2220		2470						ug/L	
	Sodium, total recoverable			2810		3240		3460		< 4600	1	ug/L	EX
	Sulfate			251	J	259	J I	900		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha			6.78	J	2.18	J I					pCi/L	
	Nonvolatile beta			7.81		2.93	J I					pCi/L	
	Radium, total alpha-emitting			.41		1.8	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 66D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105841.8 E 51044	33.343 Deg N 81.738 Deg W	239.5 - 220 ft msl	383.20 ft msl	4 " PVC		M

SAMPLE DATE

09/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	228.27	ft msl
pH				6.3	pH
Sp. Conductance				53	uS/cm
Water temperature				21.2	deg. C
Alkalinity as CaCO3					mg/L
Turbidity					NTU
Volumes purged					well volume
Sampling code					
Synchronous water level	267 (06/22/99)	230.5 (09/22/99)	267.1 (06/29/00)	228.4 (09/24/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable												
	Cyanide												
	Lead, total recoverable												
	Nickel, total recoverable												
	Selenium, total recoverable												
Organics													
	Chlorobenzene							<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane							<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene							<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene							<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane							<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene							3.7	J I	NDD	1	ug/L	EX
	1,1,1-Trichloroethane							<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene							110		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable							26300		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen												
+	Sodium, total recoverable							6330		> 4600	1	ug/L	EX
+	Sulfate							3610		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha												
	Nonvolatile beta												
	Radium, total alpha-emitting												

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 66TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105842.6 E 51096.7	33.343 Deg N 81.738 Deg W	35.5 - 30.80 ft msl	382.70 ft msl	4 " PVC	S	CBA

SAMPLE DATE 03/16/99 08/30/99 03/01/00 09/19/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	204.55	204.51	205.29	202.05	ft msl
pH	4.9	4.8	5.6	6.9	pH
Sp. Conductance	21	21	21	20	uS/cm
Water temperature	19.9	20	19.7	20.9	deg. C
Alkalinity as CaCO3		0	2	0	mg/L
Turbidity	.2	.4	.3	1.1	NTU
Volumes purged	2.29	2.32	2.28	2.11	well volume
Sampling code					
Synchronous water level	206.2 (06/22/99)	210.4 (12/13/99)	204.2 (06/29/00)	202.4 (09/24/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.38	J I	2.5	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6.2		6.8	J K	6.74	J K	6	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	5.01		5.26	J K	5.56	J K	4.7	J IK	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	57.7		<200	U	<200	U	<35.2	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	782		682		695						ug/L	
	Sodium, total recoverable	1450		1510		1560		1580		< 4600	1	ug/L	EX
	Sulfate	<5000	U	1300		1380		2110		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.02	UI	1.15	J	.189	U					pCi/L	
	Nonvolatile beta	-.38	UI	.67	UI	.576	U					pCi/L	
	Radium, total alpha-emitting	6.54	J	1.08		.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 67D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106830.7 E 51971.5	33.347 Deg N 81.738 Deg W	241.00 - 221.5 ft msl	365 ft msl	4 " PVC	S	M

SAMPLE DATE 03/16/99

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.55	Not Available	Not Available	Not Available	ft msl
pH	5.6				pH
Sp. Conductance	57				uS/cm
Water temperature	20.6				deg. C
Alkalinity as CaCO3	8				mg/L
Turbidity	.1				NTU
Volumes purged	3.21				well volume
Sampling code					
Synchronous water level	233.4 (06/24/99)	233 (09/20/99)	()	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	35.3										ug/L	
	Cyanide	<10	U									ug/L	
	Lead, total recoverable	<100	U									ug/L	
	Nickel, total recoverable	<50	U									ug/L	
	Selenium, total recoverable	<200	U									ug/L	
Organics													
	Chlorobenzene	<125	U									ug/L	
	1,1-Dichloroethane	<125	U									ug/L	
	1,1-Dichloroethylene	<125	U									ug/L	
	trans-1,2-Dichloroethylene	<125	U									ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U									ug/L	
	Tetrachloroethylene	<125	U									ug/L	
	1,1,1-Trichloroethane	<125	U									ug/L	
	Trichloroethylene	3030										ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	26.6		<200	U							ug/L	
	Nitrate-nitrite as nitrogen	1950		2960								ug/L	
	Sodium, total recoverable	3400		3710								ug/L	
	Sulfate	<5000	U	269	J							ug/L	
Radionuclides													
	Gross alpha	1.05	UI	5.83	J							pCi/L	
	Nonvolatile beta	-.35	UI	8.27								pCi/L	
	Radium, total alpha-emitting	5.91	UIJ	1.08	UI							pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 68B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106744.9 E 52308.5	33.347 Deg N 81.736 Deg W	133 - 128.3 ft msl	356.90 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	03/16/99	03/29/00	09/05/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	218.38	<i>Not Available</i>	216.82	215.78	ft msl
pH	4.9		5.7	5.6	pH
Sp. Conductance	25		25	28	uS/cm
Water temperature	18.8		18.6	20.5	deg. C
Alkalinity as CaCO ₃			2	2	mg/L
Turbidity	.2		1.1	.7	NTU
Volumes purged	2.55		3.51	2.68	well volume
Sampling code					
Synchronous water level	233.3 (06/24/99)	217.5 (12/13/99)	216.2 (06/29/00)	215.9 (12/31/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.07	J I									ug/L	
	Cyanide	<10	U									ug/L	
	Lead, total recoverable	<100	U									ug/L	
	Nickel, total recoverable	<50	U									ug/L	
	Selenium, total recoverable	<200	U									ug/L	
Organics													
	Chlorobenzene	<25	U			<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<25	U			<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<25	U			<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U			<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U			<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	18.1	J I			13.3		4.5	J I	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<25	U			<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	205				211		100		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	32.4		<200	U			<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1600		1310								ug/L	
	Sodium, total recoverable	2020		2040				1890		< 4600	1	ug/L	EX
	Sulfate	<5000	U	334	J			842		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.27		2.14	J							pCi/L	
	Nonvolatile beta	-.26	UI	4.23								pCi/L	
	Radium, total alpha-emitting	3.13	UIJ	.21	UI							pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 68C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106730.5 E 52304.9	33.347 Deg N 81.736 Deg W	171.7 - 167.0 ft msl	356.70 ft msl	4 " PVC	S	LL
SAMPLE DATE		03/16/99	08/30/99	02/22/00	09/05/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	223.88	223.55	222.68	221.5	ft msl	
pH	4.9	4.7	4.4	5	pH	
Sp. Conductance	29	28	29	28	uS/cm	
Water temperature	19	19.8	18.9	21.1	deg. C	
Alkalinity as CaCO3		0	0	0	mg/L	
Turbidity	.2	.7	.2	.4	NTU	
Volumes purged	3.22	5.71	3.15	4.23	well volume	
Sampling code						
Synchronous water level	226.3 (06/24/99)	223.1 (12/13/99)	221.8 (06/29/00)	211.5 (09/26/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.4	J I	5.4	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	1,1-Dichloroethane	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	1,1-Dichloroethylene	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	trans-1,2-Dichloroethylene	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	Tetrachloroethylene	<50	U	6.13	J K	8.6		<50	U	< EQL	10	ug/L	EX
	1,1,1-Trichloroethane	<50	U	<1	U	<5	U	<50	U	< EQL	10	ug/L	EX
	Trichloroethylene	724		835		1070		630	J K	NDD	10	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	30.7		<200	U	<200	U	35.8	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1090		1780		1660						ug/L	
	Sodium, total recoverable	2240		2390		2820		2710		< 4600	1	ug/L	EX
	Sulfate	<5000	U	2480		263	J I	966		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.51		4.71	J	1.49	J I					pCi/L	
	Nonvolatile beta	1.1	UI	15.4		3.22						pCi/L	
	Radium, total alpha-emitting	2.82	UIJ	1.07		.8	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 69B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107776.1 E 52432.9	33.35 Deg N 81.738 Deg W	144.5 - 139.8 ft msl	381.5 ft msl	4 " PVC	S	MCBC

<u>SAMPLE DATE</u>	02/10/99	08/18/99	01/31/00	09/05/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	220.21	219.78	219.34	217.75	ft msl
pH	5.1	6.2	5.4	7	pH
Sp. Conductance	26	37	36	61	uS/cm
Water temperature	19.3	19.8	18.2	21.6	deg. C
Alkalinity as CaCO3	3	12	7	12	mg/L
Turbidity	.2	.5	.5	1.7	NTU
Volumes purged	2.55	2.35	2.57	6.33	well volume
Sampling code					
Synchronous water level	220.3 (06/22/99)	219.5 (12/13/99)	218.2 (06/29/00)	217.4 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.04	J I	7.6	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	.59	J I							ug/L	
	Nickel, total recoverable	<50	U	<9.3	JU I							ug/L	
	Selenium, total recoverable	<10	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	22		39.5	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	768		563		550						ug/L	
	Sodium, total recoverable	1530		1980		2000		2260		< 4600	1	ug/L	EX
	Sulfate	<5000	U	1500		1290		1910		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.25	UI	1.44		1.14	J I					pCi/L	
	Nonvolatile beta	-1.07	UI	1.71		2.07	J I					pCi/L	
	Radium, total alpha-emitting	3.18	UIJ	.7		.4	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 69C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107780.1 E 52447.5	33.35 Deg N 81.738 Deg W	175.7 - 171.0 ft msl	381.60 ft msl	4 " PVC	S	LL
SAMPLE DATE		02/10/99	08/25/99	03/03/00	09/01/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	226.8	226.6	225.78	224.25	ft msl	
pH	5.5	5.5	5.4	5	pH	
Sp. Conductance	40	37	35	35	uS/cm	
Water temperature	18.9	20.7	18.8	20	deg. C	
Alkalinity as CaCO ₃	3	2	2	6	mg/L	
Turbidity	.5	.2	.3	1.8	NTU	
Volumes purged	2.01	2.87	2.71	3.45	well volume	
Sampling code						
Synchronous water level	227.7 (06/22/99)	226.2 (12/13/99)	225.9 (03/20/00)	223.6 (12/28/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.29	J I	9.9	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<3.6	JU I							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<.58	U V	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	49.4		45.1	J K	39		20	J	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	21.8		<200	U	<200	U	44.2	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2940		2050		2380						ug/L	
	Sodium, total recoverable	3220		3640		4000		4200		< 4600	1	ug/L	EX
	Sulfate	<5000	U	309	J	<400	U	779		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	-23	UI	3.54		.228	U					pCi/L	
	Nonvolatile beta	-1.79	UI	4.2		1.45	J I					pCi/L	
	Radium, total alpha-emitting	3.77	UIJ	1.01	U	.8	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 69D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107784.3 E 52462	33.35 Deg N 81.738 Deg W	239.8 - 220.3 ft msl	382 ft msl	4 " PVC	S	M
SAMPLE DATE		02/10/99	08/18/99	01/31/00	09/05/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	232.83	232.96	231.98	230.3	ft msl	
pH	4.1	4.7	4.5	4.8	pH	
Sp. Conductance	26	27	26	26	uS/cm	
Water temperature	19.6	20.9	18.2	21.9	deg. C	
Alkalinity as CaCO3		0	0	0	mg/L	
Turbidity	1	2.6	2.1	3.3	NTU	
Volumes purged	3.71	2.81	2.39	5.76	well volume	
Sampling code						
Synchronous water level	233.1 (06/22/99)	232.4 (12/13/99)	231 (06/29/00)	229.8 (12/28/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.08	J I	7.4	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	1.3	J I							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	70.7		<200	U	<200	U	113	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2490		1990		1820						ug/L	
	Sodium, total recoverable	1130		<1320	U	1200		1070		< 4600	1	ug/L	EX
	Sulfate	<5000	UJ	<400	U	273		1270		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	2.2		23.25		8.2						pCi/L	
	Nonvolatile beta	-.57	UI	14.24		4						pCi/L	
	Radium, total alpha-emitting	.37	UIJ	4.44		4.2	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 69TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107772.5 E 52418.4	33.35 Deg N 81.738 Deg W	80.3 - 74.60 ft msl	381.40 ft msl	4 " PVC	S	CBA

SAMPLE DATE 02/10/99 08/18/99 01/31/00 09/05/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	215.05	214.68	214.3	212.75	ft msl
pH	5.1	6	5.8	5.9	pH
Sp. Conductance	27	28	28	26	uS/cm
Water temperature	19.7	19.6	18.1	20.4	deg. C
Alkalinity as CaCO3	5	6	9	3	mg/L
Turbidity	1.9	4	2.6	1.1	NTU
Volumes purged	2.39	2.22	2.20	4.59	well volume
Sampling code					
Synchronous water level	215.1 (06/22/99)	214.4 (12/13/99)	213.2 (06/29/00)	212.2 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.38	J I	10								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<9.9	JU I							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	26.6		<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1150		975		1040						ug/L	
	Sodium, total recoverable	2110		1970		2200		1890		< 4600	1	ug/L	EX
	Sulfate	<5000	U	399	J	375		935		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.69	UI	1.04		.0449	U					pCi/L	
	Nonvolatile beta	1.99		.93	UI	-.043	U					pCi/L	
	Radium, total alpha-emitting	3.55	J	.3	UI	.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 70C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101785.2 E 45012	33.324 Deg N 81.746 Deg W	178.8 - 174.1 ft msl	361.80 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/03/99 09/28/99 03/15/00 08/22/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	217.85	217.64	216.69	215.1	ft msl
pH	5.6	5.7	5.8	7	pH
Sp. Conductance	160	149	148	150	uS/cm
Water temperature	18.2	19.6	19.3	19.4	deg. C
Alkalinity as CaCO3	5	6	7	4	mg/L
Turbidity	.4	.9	.5	.8	NTU
Volumes purged	2.49	3.03	3.75	3.15	well volume
Sampling code					
Synchronous water level	217.9 (06/24/99)	217.1 (12/16/99)	218.8 (06/25/00)	214.2 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	39.6		43.1								ug/L	
	Cyanide	<10	U	<10	JU Q							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<500	JU Q	<1	U	20.5	J IK	<250	U	< EQL	50	ug/L	EX
	1,1-Dichloroethane	<500	JU Q	<1	U	<50	U	<250	U	< EQL	50	ug/L	EX
	1,1-Dichloroethylene	<500	JU Q	32.6		35	J IK	<250	U	< EQL	50	ug/L	EX
	trans-1,2-Dichloroethylene	<500	JU Q	<1	U	<50	U	<250	U	< EQL	50	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<500	JU Q	<1	U	<50	U	<250	U	< EQL	50	ug/L	EX
+	Tetrachloroethylene	1360	J Q	1170		1140	J K	1100		> 5	50	ug/L	EX
	1,1,1-Trichloroethane	<500	JU Q	4.32		<50	U	<250	U	< EQL	50	ug/L	EX
+	Trichloroethylene	5660	J Q	5990		6490	J K	5300		> 5	50	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	12.6	J	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	19200		16400		14400		14400		> 2400	5	ug/L	EX
+	Sodium, total recoverable	21000		22100		21800		21600		> 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	263	J I					ug/L	
Radionuclides													
	Gross alpha	3.32		4.8		2.99						pCi/L	
	Nonvolatile beta	2.98		5.28		3.47	U V					pCi/L	
	Radium, total alpha-emitting	11.6	J	5.21		2.2	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 70D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101781.8 E 44997.3	33.324 Deg N 81.746 Deg W	228.3 - 208.2 ft msl	362.20 ft msl	4 " PVC	S	M

SAMPLE DATE 03/03/99 03/15/00 08/22/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	221.22	<i>Not Available</i>	220.15	218.7	ft msl
pH	5.2		5.5	5.2	pH
Sp. Conductance	32		31	32	uS/cm
Water temperature	17.5		19.8	20.8	deg. C
Alkalinity as CaCO3	2		1	2	mg/L
Turbidity	44.8		2.3	2.2	NTU
Volumes purged	.238		8.82	7.84	well volume
Sampling code	X				
Synchronous water level	221 (03/29/99)	221.2 (09/21/99)	215.9 (06/25/00)	218.5 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	87										ug/L	
	Cyanide	<10	U									ug/L	
	Lead, total recoverable	<100	U									ug/L	
	Nickel, total recoverable	<50	U									ug/L	
	Selenium, total recoverable	<200	U									ug/L	
Organics													
	Chlorobenzene	<5	JU Q			<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q			<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q			.84	J I	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q			<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	JU Q			<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	3.32	J IQ			4.43		4.4	J I	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q			<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	JU Q			<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	163		181	J			<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2810		1770				1830		< 2400	1	ug/L	EX
	Sodium, total recoverable	2750		3220				3140		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U							ug/L	
Radionuclides													
	Gross alpha	69.9		20.87				3.27		< 15	1	pCi/L	GP
	Nonvolatile beta	37.7		13.47								pCi/L	
	Radium, total alpha-emitting	47.7	J	2.98								pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 71B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103801.6 E 44054.7	33.327 Deg N 81.752 Deg W	135.9 - 131.1 ft msl	344.70 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/12/99 02/16/00 09/20/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	217.32	<i>Not Available</i>	215.8	213.75	ft msl
pH	6.3			7.8	pH
Sp. Conductance	42			87	uS/cm
Water temperature	19.2			19.8	deg. C
Alkalinity as CaCO3	18			28	mg/L
Turbidity	94.1			14.4	NTU
Volumes purged	2.85			2.27	well volume
Sampling code					
Synchronous water level	217.3 (06/23/99)	216.4 (12/14/99)	215 (06/29/00)	213.5 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	16								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	859		2000		140	J I	675		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	166		158	J	87.7	J I					ug/L	
+	Sodium, total recoverable	25700		7490		4000		5050		> 4600	1	ug/L	EX
	Sulfate	<5000	U	1110		791						ug/L	
Radionuclides													
	Gross alpha	.06	UI	2.28		.922	U					pCi/L	
	Nonvolatile beta	3.29	UI	3.43		2.24	J I					pCi/L	
	Radium, total alpha-emitting	3.14	J	.51		-.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 72B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 96387.6 E 48350.3	33.318 Deg N 81.727 Deg W	156.7 - 152.0 ft msl	328.20 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/12/99 08/17/99 02/16/00 09/19/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	201.09	200.1	199.29	198.03	ft msl
pH	6.4	6.5		6.4	pH
Sp. Conductance	32	46		39	uS/cm
Water temperature	18.7	19.9		19.4	deg. C
Alkalinity as CaCO3	9	16		5	mg/L
Turbidity	.9	.8		.9	NTU
Volumes purged	9.50	3.28		3.50	well volume
Sampling code					
Synchronous water level	200.5 (06/23/99)	199.5 (12/14/99)	198.5 (06/29/00)	197.6 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	19								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<7.2	JU I							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	48.7		75.3	J	<200	U	<35.2	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	445		385		442	J I					ug/L	
	Sodium, total recoverable	1610		2340		1700		1790		< 4600	1	ug/L	EX
	Sulfate	<5000	U	836		652						ug/L	
Radionuclides													
	Gross alpha	8.87		1.75		.264	U					pCi/L	
	Nonvolatile beta	13.2		.53	UI	.983	U					pCi/L	
	Radium, total alpha-emitting	11.9	J	.28	UI	.4	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 73B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99270.3 E 45694	33.32 Deg N 81.739 Deg W	135.5 - 130.8 ft msl	339.60 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/03/99 08/30/99 03/17/00 08/24/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	202.3	201.74	200.91	198.89	ft msl
pH	4.6	4.7	4.8	7.5	pH
Sp. Conductance	42	39	42	42	uS/cm
Water temperature	18.8	20	19	20.8	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.4	.7	.6	.5	NTU
Volumes purged	2.57	2.41	2.62	2.13	well volume
Sampling code					
Synchronous water level	201.9 (06/24/99)	201.4 (12/14/99)	194.8 (06/25/00)	198.4 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	13.3		10								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	15.2		17.6	J K	19.4		22		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	56.9		53	J K	61		48		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	72.4		<200	U	<200	U	<80	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2030		1650		1830						ug/L	
	Sodium, total recoverable	2310		2570		2760		2900		< 4600	1	ug/L	EX
	Sulfate	3520	J	3190		3130						ug/L	
Radionuclides													
	Gross alpha	.26	UI	1.45		.324	U					pCi/L	
	Nonvolatile beta	1.49	UI	2.54		1.99	J I					pCi/L	
	Radium, total alpha-emitting	1	J	.41	UI	.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 74B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99197.4 E 50443.2	33.327 Deg N 81.727 Deg W	147.5 - 142.8 ft msl	314.5 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/04/99 03/15/00 09/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	210.9	<i>Not Available</i>	210.3	208.84	ft msl
pH	5.7		6.4	6.2	pH
Sp. Conductance	32		33	30	uS/cm
Water temperature	18.4		18.7	20.1	deg. C
Alkalinity as CaCO3	10		9	7	mg/L
Turbidity	.3		.6	.2	NTU
Volumes purged	2.79		2.52	3.34	well volume
Sampling code					
Synchronous water level	210.7 (06/23/99)	210.4 (12/14/99)	209.3 (06/24/00)	208.6 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	25.8										ug/L	
	Cyanide	<10	U									ug/L	
	Lead, total recoverable	<100	U									ug/L	
	Nickel, total recoverable	<50	U									ug/L	
	Selenium, total recoverable	<10	U									ug/L	
Organics													
	Chlorobenzene	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U			1.2		<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U			<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	134				130		75	J K	> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	21.7		<200	U			<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1030		728								ug/L	
	Sodium, total recoverable	1700		1750				1570		< 4600	1	ug/L	EX
	Sulfate	<5000	U	1090								ug/L	
Radionuclides													
	Gross alpha	-27	UI	1.97								pCi/L	
	Nonvolatile beta	-1.71	UI	.93	UI							pCi/L	
	Radium, total alpha-emitting	5.24	J	8.39	J			.454	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 74C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99191.1 E 50457.1	33.327 Deg N 81.727 Deg W	177.8 - 173.1 ft msl	315 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/04/99 03/15/00 08/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	211	<i>Not Available</i>	210.12	209.2	ft msl
pH	8.4		6.8	7.7	pH
Sp. Conductance	120		86	105	uS/cm
Water temperature	14.8		17.7	26.2	deg. C
Alkalinity as CaCO3	42		22	23	mg/L
Turbidity	2.5		3.8	3.6	NTU
Volumes purged	.081		.041	.042	well volume
Sampling code	X		NX	NX	
Synchronous water level	210.6 (06/23/99)	210.2 (09/22/99)	209 (06/24/00)	209.2 (09/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	63.2										ug/L	
	Cyanide	<10	U									ug/L	
	Lead, total recoverable	<100	U									ug/L	
	Nickel, total recoverable	<50	U									ug/L	
	Selenium, total recoverable	<10	U									ug/L	
Organics													
	Chlorobenzene	<5	U			<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U			<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U			<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U			<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U			<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U			<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U			<1	JU	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	43.3				166	J	47		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	56		<200	U			44.9	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	73	J	8840								ug/L	
	Sodium, total recoverable	4630		4100				4340		< 4600	1	ug/L	EX
	Sulfate	13300		13400								ug/L	
Radionuclides													
	Gross alpha	.08	UI	1.83								pCi/L	
	Nonvolatile beta	-.15	UI	2.43								pCi/L	
	Radium, total alpha-emitting	5.24	J	6.67	J			.714	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 74D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99185.3 E 50469.7	33.327 Deg N 81.727 Deg W	237.1 - 217.1 ft msl	315.10 ft msl	4 " PVC	S	M

SAMPLE DATE 03/04/99 09/14/99 03/16/00 08/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.65	231.35	230.14	229.07	ft msl
pH	6.8	5	5.3	5.2	pH
Sp. Conductance	30	32	32	28	uS/cm
Water temperature	16.6	19.3	19.1	22.1	deg. C
Alkalinity as CaCO3	9	2	2	0	mg/L
Turbidity	5.5	9.4	1.1	2.6	NTU
Volumes purged	.099	.108	4.27	2.33	well volume
Sampling code	X	NX			
Synchronous water level	232.6 (03/26/99)	()	230 (03/22/00)	228.6 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.36	J I	9.68	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	19.8								ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	.35	J I	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	6	U	6.81	J K	7.23		6.9		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	6	U	9.63	J K	9.32		8		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	1320		117	J	<200	U	45.5	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2140		2280		1750						ug/L	
	Sodium, total recoverable	4800		4680		4180		3680		< 4600	1	ug/L	EX
	Sulfate	<5000	U	276		331						ug/L	
Radionuclides													
	Gross alpha	1.98	UI	1.9		.894	U					pCi/L	
	Nonvolatile beta	1.47	UI	4.03		1.12	U					pCi/L	
	Radium, total alpha-emitting	.59	UIJ	.14	UIJ	.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 75B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 98937.4	33.324 Deg N	161.7 - 156.9 ft msl	326.70 ft msl	4 " PVC	S	LL
E 48875.5	81.73 Deg W					
SAMPLE DATE		02/24/99	09/14/99	03/20/00	08/30/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	209.9	209.15	208.95	207.8	ft msl	
pH	5.3	5.2	5.1	9.3	pH	
Sp. Conductance	57	52	74	153	uS/cm	
Water temperature	18.7	18.9	18.9	21.4	deg. C	
Alkalinity as CaCO3	3	3	2	29	mg/L	
Turbidity	8	13.9	6.5	7.1	NTU	
Volumes purged	3.64	3.31	4.59	.902	well volume	
Sampling code						
Synchronous water level	209.7 (06/23/99)	209.4 (12/14/99)	207.8 (06/24/00)	207.4 (12/28/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	25		24.9								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	ML
	1,1-Dichloroethane	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	ML
	1,1-Dichloroethylene	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	ML
	trans-1,2-Dichloroethylene	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	ML
	Tetrachloroethylene	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	ML
	1,1,1-Trichloroethane	<125	U	<1	U	<10	U	<100	U	< EQL	20	ug/L	ML
+	Trichloroethylene	4080		2820		2650		2740	J K	> 5	20	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
+	Aluminum, total recoverable	122		94	J	<200	U	464		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	5540		3000		4710						ug/L	
+	Sodium, total recoverable	2960		3360		3720		6450		> 4600	1	ug/L	EX
	Sulfate	<5000	U	1460		1140		1200		< 3000	1	ug/L	MS
Radionuclides													
	Gross alpha	1.55		2.86		2.37						pCi/L	
	Nonvolatile beta	1.83	UI	4.67		2.55	J IK					pCi/L	
	Radium, total alpha-emitting	1.43	J	1.38		.9	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 75C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 98942.3 E 48859.7	33.324 Deg N 81.73 Deg W	193.5 - 188.8 ft msl	327.5 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/12/99 08/18/99 02/15/00 09/19/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	210.12	209.35	208.62	207.86	ft msl
pH	5.8	5.3	5.2	6.5	pH
Sp. Conductance	46	57	53	99	uS/cm
Water temperature	17.6	22	16.9	22.4	deg. C
Alkalinity as CaCO ₃	5	4	6	22	mg/L
Turbidity	6	5.4	3.9	8.9	NTU
Volumes purged	.219	0	.078	0	well volume
Sampling code	NX	NX	NX		
Synchronous water level	209.7 (06/23/99)	209.3 (12/14/99)	208.6 (03/22/00)	208.1 (12/28/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	20								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	12.4								ug/L	
	Nickel, total recoverable	<50	U	<7.6	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	ML
+	Trichloroethylene	<5	U	<1	U	<1	U	27.8	J IK	> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	78.4		<200	U	<200	U	<112	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	316		<200	U	<500	U					ug/L	
+	Sodium, total recoverable	5340		6270		5300		10000		> 4600	1	ug/L	EX
+	Sulfate	13400		12700		14500		17000		> 3000	1	ug/L	MS
Radionuclides													
	Gross alpha	1.88	UI	1.78		.257	U					pCi/L	
	Nonvolatile beta	2.76	UI	3.3		2.5	J I					pCi/L	
	Radium, total alpha-emitting	1.21	J	.46		1.3						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 76C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103061.6 E 45344	33.328 Deg N 81.748 Deg W	186 - 181.3 ft msl	352.40 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/03/99 09/28/99 03/18/00 09/14/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	220.78	<i>Not Available</i>	219.21	217.93	ft msl
pH	6.8	6.8	7.3	7	pH
Sp. Conductance	60	57	63	64	uS/cm
Water temperature	18.7	19.9	18	20.5	deg. C
Alkalinity as CaCO3	18	22	28	25	mg/L
Turbidity	1.8	2.1	.9	1.6	NTU
Volumes purged	2.72		2.75	3.10	well volume
Sampling code					
Synchronous water level	220.8 (06/23/99)	220.3 (12/14/99)	218.7 (06/25/00)	217.3 (12/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	20.3		28.9								ug/L	
	Cyanide	<10	U	<10	JU Q							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<500	U	<1	U	<20	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<500	U	<1	U	<20	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<500	U	<1	U	<20	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<500	U	<1	U	<20	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<500	U	<1	U	<20	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	<500	U	47.6		43		30		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<500	U	<1	U	<20	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	6750		5680		4620		3800		> 5	100	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	46.2		<200	U	<200	U	204		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1890		1490		1430		1680		< 2400	5	ug/L	EX
+	Sodium, total recoverable	4210		4580		5700		5230		> 4600	1	ug/L	EX
	Sulfate	<5000	U	516		982						ug/L	
Radionuclides													
	Gross alpha	.59	UI	1.02		.726	U					pCi/L	
	Nonvolatile beta	.01	UI	1.14	UI	.794	U					pCi/L	
	Radium, total alpha-emitting	3.66	UIJ	2.55	UJ	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 77B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107065.8 E 54217.4	33.351 Deg N 81.732 Deg W	145.1 - 140.4 ft msl	357.20 ft msl	4 " PVC	S	LL
SAMPLE DATE		02/11/99	08/25/99	02/15/00	09/12/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	221.4	220.62	220.04	218.75	ft msl	
pH	5.8	6.6	5.6	6.7	pH	
Sp. Conductance	40	42	44	42	uS/cm	
Water temperature	19	18.9	17.7	19.4	deg. C	
Alkalinity as CaCO3	12	10	12	118	mg/L	
Turbidity	.3	.6	.8	1.1	NTU	
Volumes purged	2.47	2.46	2.48	2.83	well volume	
Sampling code						
Synchronous water level	221.4 (06/23/99)	220.5 (12/14/99)	219 (06/24/00)	217.7 (12/30/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	<10	U	34								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable			<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	125		104	J	<200	U	47.5	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	129		848		873						ug/L	
	Sodium, total recoverable	1730		1910		2000		1720		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	<400	U	761		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.72	UI	2.35	J	1.58	J I					pCi/L	
	Nonvolatile beta	1.78	UI	7.08	J	1.19	U					pCi/L	
	Radium, total alpha-emitting	4.54	J	.35	UI	.3	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 77C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone</u>	<u>Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107078.3	33.351 Deg N	173.2 - 168.5	ft msl	357.20 ft msl	4 " PVC	S	UL
E 54225.9	81.732 Deg W						
SAMPLE DATE		02/12/99	08/30/99	03/11/00	09/14/00		
FIELD DATA							
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>		
Water Elevation	223.5	222.86	222.26	220.6	ft msl		
pH	6.4	5.8	6.2	6.1	pH		
Sp. Conductance	35	30	27	27	uS/cm		
Water temperature	18.5	19	18.9	19.8	deg. C		
Alkalinity as CaCO3	9	7	13	6	mg/L		
Turbidity	2	.7	.8	1.3	NTU		
Volumes purged	2.72	2.56	2.95	2.32	well volume		
Sampling code							
Synchronous water level	223.6 (06/23/99)	222.7 (09/22/99)	221.3 (06/24/00)	220 (12/30/00)	ft msl		

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	<10	U	12								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	Δ	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	15.9		17.5	J K	16.2	J K	13		> 5	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	85.7		145	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1470		790		654						ug/L	
	Sodium, total recoverable	2330		2350		2190		1910		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<400	U	242	J I					ug/L	
Radionuclides													
	Gross alpha	2.36	UI	2.42		.554	U					pCi/L	
	Nonvolatile beta	3.71	UI	3.84		1.8	J I					pCi/L	
	Radium, total alpha-emitting	1.24	J	.85		.5	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 78DR**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103652 E 45470.6	33.32918 Deg N 81.74845 Deg W	226.90 - 206.8 ft msl	363.70 ft msl	2 " PVC		M/GC
SAMPLE DATE		03/03/99	09/14/99	03/18/00	09/27/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	223.25	223.10	221.64	<i>Not Available</i>	ft msl	
pH	5.3	5.4	9.6	5.8	pH	
Sp. Conductance	24	23	36	27	uS/cm	
Water temperature	20.7	20.9	15.2	20	deg. C	
Alkalinity as CaCO ₃	2	3	12	8	mg/L	
Turbidity	5.5	4.3	12.8	19.9	NTU	
Volumes purged	9.65	4.87	.411		well volume	
Sampling code			NX	NSX		
Synchronous water level	223.7 (06/23/99)	222.6 (12/14/99)	221.2 (06/25/00)	220.2 (12/27/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.3	J I	3.8	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	46								ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	.71	J IK	4.7		1.3	J I	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	10.6		9.04	J K	25.3		11		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	50.7		167	J	<200	U	86.7	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1410		1020		1120		1150		< 2400	5	ug/L	EX
	Sodium, total recoverable	1970		2160		1970		1720		< 4600	1	ug/L	EX
	Sulfate	<5000	U	322	J	191	J I					ug/L	
Radionuclides													
	Gross alpha	-79	UI	7.62		1.36	J I					pCi/L	
	Nonvolatile beta	-1.54	UI	6.23	J	.201	U					pCi/L	
	Radium, total alpha-emitting	3.18	J	1.5		.9	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 79B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99296.9 E 47300.2	33.323 Deg N 81.735 Deg W	140.8 - 136.1 ft msl	347.90 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/05/99 09/14/99 03/18/00 09/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	207.37	206.91	206.43	204.7	ft msl
pH	11.8	11.7	11.5	10.5	pH
Sp. Conductance	3600	3340	3060	469	uS/cm
Water temperature	17.7	22.9	14.5	22.3	deg. C
Alkalinity as CaCO3	787	714	671	48	mg/L
Turbidity	4.6	4.8	3.9	12.4	NTU
Volumes purged	.021	.022	.022	10.2	well volume
Sampling code	X	NX	NX		
Synchronous water level	207.4 (06/23/99)	207.3 (12/14/99)	205.3 (06/24/00)	204.9 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	934		790								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	4.97	J I	5.9		5.92	J L	8.5		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	26.9		31.8		28.5	J L	60		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	2190		2190		1720		1490		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1150		880		783						ug/L	
+	Sodium, total recoverable	26400		25100		19300		8630		> 4600	1	ug/L	EX
	Sulfate	3480	J	3640		3690						ug/L	
Radionuclides													
	Gross alpha	16.2	UI	22.05		6.51						pCi/L	
	Nonvolatile beta	7.44	UI	16.4		17.6	J K					pCi/L	
	Radium, total alpha-emitting	12.7	J	4.47		2.9						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 79C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99290.2 E 47286.8	33.323 Deg N 81.735 Deg W	199.6 - 194.9 ft msl	347.80 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/05/99 09/14/99 03/18/00 09/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	209.65	209.3	208.67	207.05	ft msl
pH	6	6.2	6.5	6.3	pH
Sp. Conductance	78	75	74	73	uS/cm
Water temperature	18.1	19.8	17.2	19.1	deg. C
Alkalinity as CaCO3	14	14	11	3	mg/L
Turbidity	.7	.8	.8	1.1	NTU
Volumes purged	3.46	6.01	5.62	9.31	well volume
Sampling code					
Synchronous water level	209.8 (06/23/99)	209.5 (12/14/99)	207.7 (06/24/00)	207.2 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	28		25.6								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	1.63	J K	1.52		1.3	J I	NDD	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	38		39.9	J K	38.7		35		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	51.3		61.6	J K	46.4		42		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	170		126	J	217		127	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	5380		4340		4760						ug/L	
+	Sodium, total recoverable	4720		6450		5920		5030		> 4600	1	ug/L	EX
	Sulfate	<5000	U	1330		1000						ug/L	
Radionuclides													
	Gross alpha	4.25	UI	3.25		41.5						pCi/L	
	Nonvolatile beta	7.69	UI	8.72		15.1	J K					pCi/L	
	Radium, total alpha-emitting	1.29	J	1.69		1	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 81B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103762.7 E 55230.4	33.345 Deg N 81.723 Deg W	146.1 - 141.4 ft msl	267 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/10/99 09/27/99 02/15/00 09/20/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	221.11	219.31	219.12	217.5	ft msl
pH	5	5.3	5.1	6.7	pH
Sp. Conductance	27	26	24	26	uS/cm
Water temperature	19	19.4	18.5	19.7	deg. C
Alkalinity as CaCO3	2	5	2	7	mg/L
Turbidity	.1	.8	.5	2.8	NTU
Volumes purged	2.72	2.57	2.73	1.77	well volume
Sampling code					
Synchronous water level	220.3 (06/23/99)	219.5 (12/14/99)	218.2 (06/24/00)	216.9 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	33.7		36.9								ug/L	
	Cyanide	<10	JU L	<10	JU Q							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<6.54	JU	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<.59	U V	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	14.4	J	79.5	J	98.2	J I	<34.1	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	266		207		330	J I					ug/L	
	Sodium, total recoverable	1780		2000		2100		2590		< 4600	1	ug/L	EX
	Sulfate	<5000	U	357		<400	U					ug/L	
Radionuclides													
	Gross alpha	.97	UI	2.06	U	.964	J I					pCi/L	
	Nonvolatile beta	1.33	UI	1.1	UI	1.15	J I					pCi/L	
	Radium, total alpha-emitting	5.06	UIJ	1.81		.4	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 82A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107529.5 E 51978.4	33.348 Deg N 81.739 Deg W	126.1 - 121.4 ft msl	374.30 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/10/99 08/25/99 02/17/00 09/19/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	220.6	219.35	219.72	220.15	ft msl
pH	11.3	11.1	10.9	10.9	pH
Sp. Conductance	860	952	922	945	uS/cm
Water temperature	19	25.2	18.2	20.6	deg. C
Alkalinity as CaCO3	185	170	190	190	mg/L
Turbidity	.3	.4	.6	1.7	NTU
Volumes purged	.031	.016	0	2.12	well volume
Sampling code	X	NX	NX		
Synchronous water level	220.9 (06/22/99)	219.8 (12/13/99)	218.4 (06/28/00)	218.6 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	139		170								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<4.4	JU I							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	89.7		77.8	J K	65.8		45	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	1100		793		850		915		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1020		104	J	87.5	J I					ug/L	
+	Sodium, total recoverable	20300		23500		20000		16900		> 4600	1	ug/L	EX
+	Sulfate	23300		24000		22400		20900		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	5.61	UI	3.7		.89	U					pCi/L	
	Nonvolatile beta	9.36	UI	8.27		6.49						pCi/L	
	Radium, total alpha-emitting	1.31	J	.25	UI	.7	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 82B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107533.4 E 51993.3	33.348 Deg N 81.739 Deg W	148.2 - 143.5 ft msl	374.20 ft msl	4 " PVC	S	CBC
SAMPLE DATE						
	02/11/99	08/18/99	01/31/00	09/01/00		
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	219.45	218.9	218.5	216.85	ft msl	
pH	3.7	4.4	4.4	4.4	pH	
Sp. Conductance	34	39	39	40	uS/cm	
Water temperature	19.6	20.5	18.5	20.8	deg. C	
Alkalinity as CaCO3		0	0	0	mg/L	
Turbidity	.7	.5	.5	1	NTU	
Volumes purged	3.28	2.57	2.55	2.69	well volume	
Sampling code						
Synchronous water level	219.6 (06/22/99)	218.7 (12/13/99)	217.3 (06/28/00)	216.3 (12/28/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	<10	U	11								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	JU	<16	JU I							ug/L	
	Selenium, total recoverable			<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	124		101	J	76	J I	155	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	89		<100	U	101	J I					ug/L	
	Sodium, total recoverable	1730		1820		2000		1850		< 4600	1	ug/L	EX
+	Sulfate	7370		7910		7590		8800		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.32		2.67	J	1.95	J I					pCi/L	
	Nonvolatile beta	2.79		6.45	J	4.79						pCi/L	
	Radium, total alpha-emitting	7.42	J	1.32		.8	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 82C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107521.9 E 51949.4	33.348 Deg N 81.739 Deg W	177.7 - 173.0 ft msl	373.90 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/11/99 08/18/99 01/31/00 09/01/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	227.39	227.18	226.5	224.81	ft msl
pH	5.8	5.9	5.6	6	pH
Sp. Conductance	32	31	30	33	uS/cm
Water temperature	19.5	20.3	18.3	20.7	deg. C
Alkalinity as CaCO3	3	6	4	1	mg/L
Turbidity	.3	.5	.5	1.5	NTU
Volumes purged	3.15	2.65	2.40	3.01	well volume
Sampling code					
Synchronous water level	214.5 (06/22/99)	226.7 (12/13/99)	225.2 (06/28/00)	224.2 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	20								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	.57	J I							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable			<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<50	U	78.2	J	<200	U	32.9	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1640		1520		1640						ug/L	
	Sodium, total recoverable	2880		3000		3300		2920		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	182	J I	756		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.31		2.31	J	1.09	J I					pCi/L	
	Nonvolatile beta	3.69	UI	1.61	UIJ	2.26	J I					pCi/L	
	Radium, total alpha-emitting	.9		.46		.4	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 82D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107518.1 E 51934.6	33.348 Deg N 81.739 Deg W	236.9 - 216.8 ft msl	373.60 ft msl	4 " PVC	S	M

SAMPLE DATE 02/11/99 08/18/99 01/31/00 09/01/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.48	232.68	231.76	230.02	ft msl
pH	5	5.6	5.3	5.2	pH
Sp. Conductance	35	34	30	26	uS/cm
Water temperature	19.6	20.2	18.8	20.7	deg. C
Alkalinity as CaCO3	1	1	4	1	mg/L
Turbidity	.5	2.8	.7	1.3	NTU
Volumes purged	3.94	2.92	2.58	6.56	well volume
Sampling code					
Synchronous water level	232.8 (06/22/99)	232 (12/13/99)	230.6 (06/28/00)	229.8 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	3.7	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	2.73	J I							ug/L	
	Nickel, total recoverable	<50	JU	<50	U							ug/L	
	Selenium, total recoverable			<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	JU L	<5	JU L	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	81		2320		1870						ug/L	
	Sodium, total recoverable	4730		5090		4000		3430		< 4600	1	ug/L	EX
	Sulfate	<5000	U	1200		753		1230		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	5.4	UI	6.6	J	2.48						pCi/L	
	Nonvolatile beta	5.9	UI	3.78	J	1.65	J I					pCi/L	
	Radium, total alpha-emitting	1.44	J	.84		1.4	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 82TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107525.7 E 51964.2	33.348 Deg N 81.739 Deg W	93.8 - 88.40 ft msl	373.70 ft msl	4 " CS	S	CBA

SAMPLE DATE 02/10/99 08/25/99 02/17/00 09/19/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	214.4	213.4	213.26	211.15	ft msl
pH	5.5	5.5	5.4	8.2	pH
Sp. Conductance	25	26	24	24	uS/cm
Water temperature	19.7	20.3	19.8	19.2	deg. C
Alkalinity as CaCO3	3	3	1	5	mg/L
Turbidity	8.6	5.1	8.2	8.9	NTU
Volumes purged	2.27	2.71	2.52	2.60	well volume
Sampling code					
Synchronous water level	213.8 (03/26/99)	213.4 (12/13/99)	212.1 (06/28/00)	210.3 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.8	J I	4.3	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	81.6		96.8	J K	123	J L	110	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	13.3	J	<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1580		543		531						ug/L	
	Sodium, total recoverable	1500		1700		2000		1920		< 4600	1	ug/L	EX
	Sulfate	<5000	U	2060		1970		2460		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.82	UI	1.6		.0863	U					pCi/L	
	Nonvolatile beta	-.42	UI	13.64		1.39	J I					pCi/L	
	Radium, total alpha-emitting	2.24	UIJ	1.32		.3	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 83B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108426.7 E 52421.4	33.351 Deg N 81.739 Deg W	146.3 - 141.6 ft msl	371.80 ft msl	4 " PVC	S	MCBC
SAMPLE DATE		02/10/99	08/18/99	02/10/00	09/09/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	221.52	221.05	220.78	218.85	ft msl	
pH	5.8	5.1	5.3	5.6	pH	
Sp. Conductance	19	20	20	23	uS/cm	
Water temperature	19.7	19.4	18.6	19.7	deg. C	
Alkalinity as CaCO ₃	1	0	2	2	mg/L	
Turbidity	.3	.7	.7	1	NTU	
Volumes purged	2.47	2.39	2.53	2.51	well volume	
Sampling code						
Synchronous water level	221.7 (06/22/99)	220.8 (12/13/99)	219.6 (06/28/00)	218.6 (12/28/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.81	J I	6.5	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<5	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	20.2		<200	U	<200	U	253		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	576		427		497	J I					ug/L	
	Sodium, total recoverable	1640		1860		1800		1910		< 4600	1	ug/L	EX
	Sulfate	<5000	U	1370		1360		1880		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	-.35	UI	2.39	J	1.71	J I					pCi/L	
	Nonvolatile beta	.04	UI	3.44	J	3.18						pCi/L	
	Radium, total alpha-emitting	2.16	UIJ	1.33		.4	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 83C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108405.3 E 52384.7	33.351 Deg N 81.739 Deg W	182.8 - 178.0 ft msl	372 ft msl	4 " PVC	S	LL
SAMPLE DATE		02/10/99	08/18/99	02/10/00	09/09/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	228.03	227.75	225.01	225.38	ft msl	
pH	8.3	8.9	8.4	8.3	pH	
Sp. Conductance	59	61	65	60	uS/cm	
Water temperature	19.7	19.4	18.3	21.1	deg. C	
Alkalinity as CaCO3	12	51	17	18	mg/L	
Turbidity	.2	.2	.4	.9	NTU	
Volumes purged	2.94	3.20	2.81	3.10	well volume	
Sampling code						
Synchronous water level	228.3 (06/22/99)	227.3 (12/13/99)	225.8 (06/28/00)	()	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	16.4		16								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<5	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<5	U							ug/L	
Organics													
	Chlorobenzene	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	Δ	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	Δ	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	162		197	J	<200	U	<134	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1900		1360		1410						ug/L	
	Sodium, total recoverable	2400		2430		2300		2920		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	174	J I	791		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	0	UI	1.06	UIJ	.479	U					pCi/L	
	Nonvolatile beta	-2.2	UI	1.5	UIJ	1.36	J I					pCi/L	
	Radium, total alpha-emitting	5.14	UIJ	.43		.3	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 83TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108416.3 E 52410.9	33.351 Deg N 81.739 Deg W	75.7 - 70.2 ft msl	371.70 ft msl	4 " PVC	S	CBA

SAMPLE DATE 02/22/99 08/19/99 02/10/00 09/09/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	215.42	214.95	214.78	212.84	ft msl
pH	6	4.5	5	5.2	pH
Sp. Conductance	20	18	16	18	uS/cm
Water temperature	18.3	19.9	18.7	19.5	deg. C
Alkalinity as CaCO3	4	0	1	0	mg/L
Turbidity	.1	.1	.5	1.1	NTU
Volumes purged	2.39	2.51	2.32	4.38	well volume
Sampling code					
Synchronous water level	215.7 (06/22/99)	214.8 (12/13/99)	213.5 (06/28/00)	212.8 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.3		3.6	J I							ug/L	
	Cyanide	<15.2	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.88	U V							ug/L	
	Nickel, total recoverable	<26	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	2	J I	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	11.6	J	<200	U	<200	U	<62.1	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	757		730		757						ug/L	
	Sodium, total recoverable	1320		1270		1600		1660		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	546		1100		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.29	UI	1.03	J	.665	U					pCi/L	
	Nonvolatile beta	-1.32	UI	-.51	UIJ	.829	U					pCi/L	
	Radium, total alpha-emitting	3.37	UIJ	.61		.3	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 84A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone</u>	<u>Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108982.1	33.352 Deg N	129.4 - 124.5	ft msl	361.5 ft msl	4 " PVC	S	MCBC
E 51971.2	81.742 Deg W						
SAMPLE DATE		02/11/99	08/26/99	01/31/00	09/10/00		
FIELD DATA							
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>		
Water Elevation	182.69	212.49	208.92	217.55	ft msl		
pH	8.7	8.8	8.9	7	pH		
Sp. Conductance	300	232	231	195	uS/cm		
Water temperature	18	21	17.1	27	deg. C		
Alkalinity as CaCO3	79	67	16	14	mg/L		
Turbidity	1.7	2	1.4	2.1	NTU		
Volumes purged	.026	0	0	0	well volume		
Sampling code	X	NX	NX	NX			
Synchronous water level	203.3 (06/22/99)	200.1 (12/13/99)	217.9 (06/29/00)	184.6 (12/28/00)	ft msl		

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	<10	U	44								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<5	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable			<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	3Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	112		115	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	<10	U	<500	U	<500	U					ug/L	
+	Sodium, total recoverable	51600		40700		30000		28800		> 4600	1	ug/L	EX
	Sulfate	37300		12800		25800						ug/L	
Radionuclides													
	Gross alpha	.64	UI	3.04		.538	U					pCi/L	
	Nonvolatile beta	28.7		25.88	J	13.4						pCi/L	
	Radium, total alpha-emitting	2.55	J	.39		.4	J					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 84C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108967.9 E 51973.7	33.352 Deg N 81.742 Deg W	194.9 - 190.2 ft msl	361.90 ft msl	4 " PVC	S	LL
SAMPLE DATE		02/11/99	08/19/99	01/31/00	09/10/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	229.76	229.54	228.76	227.05	ft msl	
pH	4.2	5.6	5.4	6	pH	
Sp. Conductance	28	28	27	27	uS/cm	
Water temperature	18.9	20.1	18.4	20.2	deg. C	
Alkalinity as CaCO ₃	1	3	5	2	mg/L	
Turbidity	.2	.2	.4	.8	NTU	
Volumes purged	2.88	2.66	2.80	3.55	well volume	
Sampling code						
Synchronous water level	229.9 (06/22/99)	229 (12/13/99)	227.6 (06/29/00)	226.5 (12/28/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	7.1	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<3.24	U V							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable			<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	42.4		<200	U	<200	U	47.7	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2040		1250		1330						ug/L	
	Sodium, total recoverable	2490		2350		2300		2320		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	234						ug/L	
Radionuclides													
	Gross alpha	1.11	UI	2.92		.553	U					pCi/L	
	Nonvolatile beta	2.21	UI	1.41	UIJ	.799	U					pCi/L	
	Radium, total alpha-emitting	3.26	UIJ	.53		.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 85B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107827 E 53122.7	33.351 Deg N 81.736 Deg W	137.3 - 132.6 ft msl	380.30 ft msl	4 " PVC	S	MCBC
SAMPLE DATE		02/12/99	08/18/99	02/10/00	09/09/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	221	220.5	220.19	218.28	ft msl	
pH	4.8	5.5	4.9	5.5	pH	
Sp. Conductance	25	26	24	26	uS/cm	
Water temperature	19.4	20.3	18.8	19.8	deg. C	
Alkalinity as CaCO3	2	2	1	1	mg/L	
Turbidity	.3	.9	.8	.8	NTU	
Volumes purged	2.49	2.40	2.56	3.69	well volume	
Sampling code						
Synchronous water level	221.1 (06/22/99)	220.2 (12/13/99)	218.9 (06/28/00)	217.3 (12/29/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	11								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<5	U							ug/L	
	Nickel, total recoverable	<50	U	<8.8	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	.61	J IK	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	17.3	J	<200	U	<200	U	55.8	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1710		1340		1460						ug/L	
	Sodium, total recoverable	2210		2780		2300		2500		< 4600	1	ug/L	EX
	Sulfate	<5000	U	261	J	198	J I	755		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	-.76	UI	.94	UIJ	.523	U					pCi/L	
	Nonvolatile beta	-1.2	UI	.18	UI	1.4	U					pCi/L	
	Radium, total alpha-emitting	3.61		.1	UI	.2	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 85C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107835.2 E 53151.4	33.351 Deg N 81.736 Deg W	173.6 - 168.8 ft msl	380.90 ft msl	4 " PVC	S	LL
SAMPLE DATE		02/10/99	08/25/99	02/17/00	09/01/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	224.25	223.75	222.95	221.45	ft msl	
pH	6.2	6.2	5.6	5.9	pH	
Sp. Conductance	46	47	42	48	uS/cm	
Water temperature	18.8	20.8	18.9	21.2	deg. C	
Alkalinity as CaCO ₃	7	4	1	5	mg/L	
Turbidity	.4	.3	.6	1.7	NTU	
Volumes purged	2.35	2.81	2.46	2.15	well volume	
Sampling code						
Synchronous water level	224.4 (06/22/99)	223.4 (12/13/99)	222.1 (06/28/00)	220.5 (12/29/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	16.6		16								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	JU L	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	40.3		41.5	J K	53.1	J L	43		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	18.7	J	<200	U	<200	U	85.4	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	3330		2170		2290						ug/L	
	Sodium, total recoverable	4090		3970		4600		4590		< 4600	1	ug/L	EX
	Sulfate	<5000	U	447		178	J I	787		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.35	UI	1.47		1.15	J I					pCi/L	
	Nonvolatile beta	-.26	UI	8.74		1.18	U					pCi/L	
	Radium, total alpha-emitting	3.64		.43	U	.7	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 85D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107822.8 E 53108.8	33.351 Deg N 81.736 Deg W	236.3 - 216.2 ft msl	380.80 ft msl	4 " PVC	S	M

SAMPLE DATE 02/12/99 08/18/99 02/02/00 09/09/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.75	232.8	231.44	229.95	ft msl
pH	4.8	5.9	4.4	5.1	pH
Sp. Conductance	45	44	42	45	uS/cm
Water temperature	19.8	20.7	18.7	21.1	deg. C
Alkalinity as CaCO3	2	5	0	0	mg/L
Turbidity	6.5	10.8	11.1	1.3	NTU
Volumes purged	4.29	2.97	4.36	5.63	well volume
Sampling code					
Synchronous water level	232.8 (06/22/99)	232.1 (12/13/99)	230.5 (06/28/00)	229.1 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	20								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	1.13	J I							ug/L	
	Nickel, total recoverable	<50	U	<11	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	6	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6	U	<1	U	.83	J IK	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	240		96.9	J	<200	U	90.8	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	4230		3260		2830						ug/L	
	Sodium, total recoverable	2600		4000		4700		2070		< 4600	1	ug/L	EX
	Sulfate	<5000	U	313	J	308		719		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	5.35		16.55	J	3.85						pCi/L	
	Nonvolatile beta	3.32		11.65		3.95						pCi/L	
	Radium, total alpha-emitting	4.62		3.15		2.4						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 85TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107831.2 E 53137.2	33.351 Deg N 81.736 Deg W	88.200 - 82.80 ft msl	380.40 ft msl	4 " STEEL	S	CBA

SAMPLE DATE 02/12/99 08/18/99 02/02/00 09/10/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	220.51	220.08	219.44	<i>Not Available</i>	ft msl
pH	6.7	8.2	5.9	7.5	pH
Sp. Conductance	52	53	47	45	uS/cm
Water temperature	18.3	21.5	18.4	21.4	deg. C
Alkalinity as CaCO3	20	22	15	15	mg/L
Turbidity	9.6	14.8	12	7.5	NTU
Volumes purged	.011	0	.089		well volume
Sampling code	X	NX	NX	NSX	
Synchronous water level	220.6 (06/22/99)	219.8 (12/13/99)	218.3 (06/28/00)	217.1 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	18								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<5	U							ug/L	
	Nickel, total recoverable	<50	U	<12	JU I							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	4.12	J I	1.69	J K	1.56		1.5	J I	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	344		<200	U	<200	U	167	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2520		<500	U	82.1	J I					ug/L	
	Sodium, total recoverable	3250		5190		4400		3700		< 4600	1	ug/L	EX
	Sulfate	<5000	U	217	J	<200	U	684		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.93	UI	.13	UIJ	-.0774	U					pCi/L	
	Nonvolatile beta	-.55	UI	2.23		.998	U					pCi/L	
	Radium, total alpha-emitting	2.29	UIJ	.31	UI	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 86C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108500.4 E 54560.5	33.355 Deg N 81.734 Deg W	164.8 - 160.1 ft msl	357 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/22/99 08/19/99 02/28/00 09/10/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	224.95	224.78	223.85	222.5	ft msl
pH	6.6	6.6	7.9	6.6	pH
Sp. Conductance	50	43	38	38	uS/cm
Water temperature	18.7	19.6	18.2	21.1	deg. C
Alkalinity as CaCO3	18	13	31	9	mg/L
Turbidity	1.8	4.2	6	2.2	NTU
Volumes purged	2.26	2.62	2.57	2.97	well volume
Sampling code					
Synchronous water level	225.2 (06/22/99)	224.3 (12/13/99)	223.2 (06/29/00)	221.3 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	17.3		17								ug/L	
	Cyanide	<15.2	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<2.18	U	V						ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	1.03	J I	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	170		361		<200	U	194	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1170		1100		1140						ug/L	
	Sodium, total recoverable	2590		3120		2300		2280		< 4600	1	ug/L	EX
	Sulfate	<5000	U	<200	U	213						ug/L	
Radionuclides													
	Gross alpha	-.51	UI	3.13	J	.889	J I					pCi/L	
	Nonvolatile beta	-.8	UI	6.07	J	1.2	U					pCi/L	
	Radium, total alpha-emitting	16.1	J	.19	UI	.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 87B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101276 E 51607	33.334 Deg N 81.728 Deg W	174.10 - 169.1 ft msl	336 ft msl	2 " PVC	V	UL

SAMPLE DATE 02/12/99 08/19/99 02/02/00 09/11/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	218.13	217.32	216.92	216.05	ft msl
pH	5.1	5.8	5.7	5.9	pH
Sp. Conductance	26	26	27	24	uS/cm
Water temperature	19	19.3	18.2	18.6	deg. C
Alkalinity as CaCO ₃	4	3	8	4	mg/L
Turbidity	.4	.3	.6	1.2	NTU
Volumes purged	2.89	2.56	3.87	8.40	well volume
Sampling code					
Synchronous water level	217.8 (06/22/99)	217.4 (12/14/99)	210.4 (06/24/00)	215.5 (12/29/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	82								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<4.24	U	V						ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<5	U							ug/L	
Organics													
	Chlorobenzene	δ	U	<1	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	1,1-Dichloroethane	δ	U	<1	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	δ	U	<1	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	δ	U	<1	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	δ	U	<1	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	Tetrachloroethylene	δ	U	<1	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	δ	U	<1	U	<1	U	<5	JU	< EQL	1	ug/L	EX
	Trichloroethylene	δ	U	<1	U	<1	U	<5	JU	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	23.4		<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	785		569		598						ug/L	
	Sodium, total recoverable	1460		1570		1700		<1600	U	V	< EQL	1	ug/L
	Sulfate	<5000	U	1270		1280						ug/L	
Radionuclides													
	Gross alpha	0	UI	.01	UIJ	.498	U					pCi/L	
	Nonvolatile beta	-1.62	UI	1.16	UIJ	.505	U					pCi/L	
	Radium, total alpha-emitting	4.04	J	.05	UI	-.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 87C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101277 E 51596.3	33.334 Deg N 81.728 Deg W	246.6 - 241.6 ft msl	336.60 ft msl	2 " PVC	V	M

SAMPLE DATE 08/19/99

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	239.28	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO3					mg/L
Turbidity					NTU
Volumes purged		0			well volume
Sampling code					
Synchronous water level	240.5 (03/26/99)	237.9 (12/14/99)	()	236.8 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 88B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97013 E 50774.2	33.323 Deg N 81.722 Deg W	75.8 - 70.8 ft msl	238.10 ft msl	2 " PVC	V	MCBC

SAMPLE DATE 03/05/99 09/14/99 03/18/00 09/06/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	201.85	200.96	200.54	199.75	ft msl
pH	4.8	4.8	5.3	5	pH
Sp. Conductance	24	23	24	23	uS/cm
Water temperature	18.1	19	17.9	18.9	deg. C
Alkalinity as CaCO3		0	1	0	mg/L
Turbidity	.2	.3	.7	1.6	NTU
Volumes purged	2.01	2.73	2.69	2.28	well volume
Sampling code					
Synchronous water level	201.5 (06/23/99)	200.8 (12/14/99)	200.1 (06/29/00)	199.6 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.98	J I	5.04	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	25.5		31.3	J K	27.3		22	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	79.7		<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	<100	U	710		800						ug/L	
	Sodium, total recoverable	1670		1740		1750		1670		< 4600	1	ug/L	EX
	Sulfate	<5000	U	1740		1940						ug/L	
Radionuclides													
	Gross alpha	.71	UI	1.24		.148	U					pCi/L	
	Nonvolatile beta	-.13	UI	1.31	UI	1.49	U					pCi/L	
	Radium, total alpha-emitting	1.39	UIJ	.17	UIJ	0	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 88C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97012.7 E 50784	33.323 Deg N 81.722 Deg W	127.2 - 122.2 ft msl	237.20 ft msl	2 " PVC	V	LL

SAMPLE DATE 03/05/99 03/15/00 09/06/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	204.26	<i>Not Available</i>	203.03	202.4	ft msl
pH	5.2		5.3	4.7	pH
Sp. Conductance	41		41	39	uS/cm
Water temperature	17.3		18.1	18.3	deg. C
Alkalinity as CaCO3	2		1	1	mg/L
Turbidity	1		.4	1.7	NTU
Volumes purged	2.46		2.96	1.99	well volume
Sampling code					
Synchronous water level	203.8 (06/23/99)	203.2 (12/14/99)	202.6 (06/29/00)	202.2 (12/28/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.38	J I									ug/L	
	Cyanide	<10	U									ug/L	
	Lead, total recoverable	<100	U									ug/L	
	Nickel, total recoverable	<50	U									ug/L	
	Selenium, total recoverable	<200	U									ug/L	
Organics													
	Chlorobenzene	<10	U			<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<10	U			<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<10	U			<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<10	U			<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<10	U			<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	75.8				39.1	J K	32	J	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<10	U			<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	231				150	J K	93	J	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	40.9		<200	U			36.4	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2910		2250								ug/L	
+	Sodium, total recoverable	6480		6980				6720		> 4600	1	ug/L	EX
	Sulfate	<5000	U	844								ug/L	
Radionuclides													
	Gross alpha	.39	UI	.53	UI							pCi/L	
	Nonvolatile beta	1.4	UI	5.76								pCi/L	
	Radium, total alpha-emitting	6.58	J	.17	UI			.207	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 89B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 98374.1 E 47889.9	33.321 Deg N 81.732 Deg W	162.00 - 157.0 ft msl	339.40 ft msl	2 " PVC	V	LL

SAMPLE DATE 03/03/99 09/14/99 03/20/00 09/13/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	207.85	206.69	206.34	144.6	ft msl
pH	5.3	5.2	5.4	5.5	pH
Sp. Conductance	32	29	31	32	uS/cm
Water temperature	18.4	20	19	20.3	deg. C
Alkalinity as CaCO3	1	1	1	2	mg/L
Turbidity	.1	.2	.8	.6	NTU
Volumes purged	3.14	3.83	4.61	-15.	well volume
Sampling code					
Synchronous water level	207.2 (06/23/99)	206.7 (12/14/99)	205.5 (06/24/00)	204.4 (12/29/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	13.1		13.7								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<10	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	3.21	J I	4.27	J K	5.08		6.1		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<1	U	<1	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	112		130	J K	122		90		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	82.4		<200	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1260		1960		2180						ug/L	
	Sodium, total recoverable	2280		2880		2390		2550		< 4600	1	ug/L	EX
	Sulfate	<5000	U	345	J	301						ug/L	
Radionuclides													
	Gross alpha	3.95	UI	1.77		1.05	J I					pCi/L	
	Nonvolatile beta	3.61	UI	1.26	UI	1.93	J I					pCi/L	
	Radium, total alpha-emitting	1.38	J	.69	UI	.7	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 90C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108016.25 E 50581.120	33.34718 Deg N 81.74349 Deg W	183.45 - 178.4 ft msl	345.41 ft msl	4 " PVC	??	LL

SAMPLE DATE

03/24/00

07/21/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	230.139	229.299	ft msl
pH			4.5	4.9	pH
Sp. Conductance			29	29	uS/cm
Water temperature			18.5	20.6	deg. C
Alkalinity as CaCO ₃			0	4	mg/L
Turbidity			2.9	.8	NTU
Volumes purged			2.38		well volume
Sampling code					
Synchronous water level	()	230.6 (12/16/99)	229.5 (06/29/00)	228.6 (12/28/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable												
	Cyanide												
	Lead, total recoverable												
	Nickel, total recoverable												
	Selenium, total recoverable												
Organics													
	Chlorobenzene					<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane					<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene					<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene					<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane					<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene					<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane					<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene					<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable							54.3	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen												
+	Sodium, total recoverable							7490		> 4600	1	ug/L	EX
	Sulfate							2760		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha												
	Nonvolatile beta												
	Radium, total alpha-emitting												

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 90TB

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108007.41 E 50583.680	33.34716 Deg N 81.74346 Deg W	-20.54 - -25.5 ft msl	344.96 ft msl	4 " CS	??	LL

SAMPLE DATE 03/29/00 07/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	206.176	204.936	ft msl
pH			6.1	6.6	pH
Sp. Conductance			26	18	uS/cm
Water temperature			20.9	21.6	deg. C
Alkalinity as CaCO3			14	3	mg/L
Turbidity			39.4	8.9	NTU
Volumes purged			1.66	3.73	well volume
Sampling code					
Synchronous water level	()	206.7 (12/16/99)	206.4 (03/20/00)	204.6 (09/24/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable												
	Cyanide												
	Lead, total recoverable												
	Nickel, total recoverable												
	Selenium, total recoverable												
Organics													
	Chlorobenzene					<1	U	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethane					<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene					<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene					<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane					<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene					<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane					<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene					<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable							57.4	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen												
	Sodium, total recoverable							2700		< 4600	1	ug/L	EX
	Sulfate							712	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha												
	Nonvolatile beta												
	Radium, total alpha-emitting												

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 91C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 109581.95 E 50406.732	33.35035 Deg N 81.74699 Deg W	155.26 - 150.3 ft msl	334.76 ft msl	4 " PVC	??	LL

SAMPLE DATE 03/24/00 07/20/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	228.58	227.66	ft msl
pH			5.3	5.5	pH
Sp. Conductance			35	32	uS/cm
Water temperature			18	19.3	deg. C
Alkalinity as CaCO3			6	10	mg/L
Turbidity			13.7	2.5	NTU
Volumes purged			3.52	2.05	well volume
Sampling code					
Synchronous water level	()	()	227.9 (06/29/00)	226.6 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable												
	Cyanide												
	Lead, total recoverable												
	Nickel, total recoverable												
	Selenium, total recoverable												
Organics													
	Chlorobenzene					<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane					<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene					<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene					<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane					<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene					<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane					<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene					<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable							66.8	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen												
	Sodium, total recoverable							3870		< 4600	1	ug/L	EX
	Sulfate							892		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha												
	Nonvolatile beta												
	Radium, total alpha-emitting												

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 91TB2

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 109579.79 E 50395.502	33.35033 Deg N 81.74702 Deg W	6.032 - .7320 ft msl	333.53 ft msl	4 " CS/SS	??	LL

SAMPLE DATE 03/25/99

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	Not Available	Not Available	Not Available	Not Available	ft msl
pH	8.7				pH
Sp. Conductance	200				uS/cm
Water temperature	26.4				deg. C
Alkalinity as CaCO3	43				mg/L
Turbidity	143				NTU
Volumes purged					well volume
Sampling code					
Synchronous water level	()	()	()	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable												
	Cyanide												
	Lead, total recoverable												
	Nickel, total recoverable												
	Selenium, total recoverable												
Organics													
	Chlorobenzene	<1	U					<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<1	U					<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<1	U					<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene							<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<1	U					<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<1	U					<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<1	U					<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<1	U					<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable												
	Nitrate-nitrite as nitrogen												
	Sodium, total recoverable												
	Sulfate												
Radionuclides													
	Gross alpha												
	Nonvolatile beta												
	Radium, total alpha-emitting												

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 91TB5

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 109579.79 E 50395.502	33.35033 Deg N 81.74702 Deg W	-11.57 - -16.9 ft msl	333.53 ft msl	4 " STEEL	??	LL

SAMPLE DATE 03/25/99

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH	7.1				pH
Sp. Conductance	81				uS/cm
Water temperature	30.8				deg. C
Alkalinity as CaCO3	24				mg/L
Turbidity	13.4				NTU
Volumes purged					well volume
Sampling code					
Synchronous water level	()	()	()	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable												
	Cyanide												
	Lead, total recoverable												
	Nickel, total recoverable												
	Selenium, total recoverable												
Organics													
	Chlorobenzene	<1	U					<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<1	U					<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<1	U					<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene							<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<1	U					<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<1	U					<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<1	U					<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<1	U					<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable												
	Nitrate-nitrite as nitrogen												
	Sodium, total recoverable												
	Sulfate												
Radionuclides													
	Gross alpha												
	Nonvolatile beta												
	Radium, total alpha-emitting												

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)**WELL MSB 92C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108615.04 E 48921.877	33.34579 Deg N 81.74902 Deg W	141.02 - 136.2 ft msl	339.82 ft msl	4 " PVC	??	LL

SAMPLE DATE

03/24/00

07/20/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	227.88	227.11	ft msl
pH			5.5	5	pH
Sp. Conductance			26	22	uS/cm
Water temperature			18.7	20.9	deg. C
Alkalinity as CaCO ₃			8	0	mg/L
Turbidity			3.9	1.4	NTU
Volumes purged			2.43	2.45	well volume
Sampling code					
Synchronous water level	()	228.4 (12/16/99)	227.3 (06/29/00)	226.1 (12/31/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable												
	Cyanide												
	Lead, total recoverable												
	Nickel, total recoverable												
	Selenium, total recoverable												
Organics													
	Chlorobenzene					<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane					<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene					<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene					<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane					<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene					<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane					<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene					<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable							30.8	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen												
	Sodium, total recoverable							3360		< 4600	1	ug/L	EX
	Sulfate							1400		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha												
	Nonvolatile beta												
	Radium, total alpha-emitting												

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL SRW 2A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103720.8 E 41634.6	33.323 Deg N 81.759 Deg W	98.400 - 88.60 ft msl	320.60 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/10/99 08/27/99 02/16/00 09/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	207.68	206.04	204.84	203	ft msl
pH	4.3	5		5	pH
Sp. Conductance	17	20		19	uS/cm
Water temperature	20.1	19.5		20.6	deg. C
Alkalinity as CaCO3		0		0	mg/L
Turbidity	.1	.5		.3	NTU
Volumes purged	2.45	2.46		2.61	well volume
Sampling code					
Synchronous water level	206.5 (06/23/99)	205.3 (12/14/99)	203.6 (06/25/00)	202.1 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4		<5.6	U V							ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	7.1	J I							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	51.8		34.4	J	20.6	J I	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	99		416		411						ug/L	
	Sodium, total recoverable	1490		1440		1490		1600		< 4600	1	ug/L	EX
	Sulfate	<5000	U	1400		1200						ug/L	
Radionuclides													
	Gross alpha	1.68	UI	1.74		.556	J IK					pCi/L	
	Nonvolatile beta	.29	UI	2.65		.429	U					pCi/L	
	Radium, total alpha-emitting	2.02	J	.37	UI	-.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL SRW 2B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103729.7 E 41631.7	33.323 Deg N 81.759 Deg W	162.60 - 152.8 ft msl	320.60 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/10/99 08/27/99 02/01/00 09/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	208.28	207.2	205.99	203.96	ft msl
pH	4.4	4.9	4.9	5.1	pH
Sp. Conductance	17	18	17	18	uS/cm
Water temperature	19.5	19.3	18.9	20	deg. C
Alkalinity as CaCO3		0	1	0	mg/L
Turbidity	.4	.4	.5	.9	NTU
Volumes purged	2.86	2.89	2.87	3.08	well volume
Sampling code					
Synchronous water level	207.6 (06/23/99)	206.4 (12/14/99)	320.7 (06/26/00)	203 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.1		<6.1	U V							ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	6.6	J I	9.2	J I							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	18.7	J	28.2	J	1420		40.6	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	154		650		674						ug/L	
	Sodium, total recoverable	1400		1440		1460		1540		< 4600	1	ug/L	EX
	Sulfate	<5000	U	411		429						ug/L	
Radionuclides													
	Gross alpha	1.24	UI	3.52		1.42	J IK					pCi/L	
	Nonvolatile beta	1.29	UI	12.55		.709	U					pCi/L	
	Radium, total alpha-emitting	9.71	J	.77		1.1	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL SRW 14A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102831.3 E 41538.6	33.321 Deg N 81.757 Deg W	123.70 - 113.9 ft msl	327 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/09/99 08/27/99 02/01/00 09/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	203.99	202.79	201.8	199.84	ft msl
pH	4.5	5.2	4.2		pH
Sp. Conductance	24	23	22		uS/cm
Water temperature	19.5	20.1	18.6		deg. C
Alkalinity as CaCO3	1	0	0	0	mg/L
Turbidity	.3	.4	.8		NTU
Volumes purged	2.61	2.64	2.80	2.63	well volume
Sampling code					
Synchronous water level	203.3 (06/23/99)	202.1 (12/14/99)	200.2 (06/26/00)	NDD(198.9) (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.4		<5.4	U V							ug/L	
	Cyanide	<15.2	U	<15.2	U							ug/L	
	Lead, total recoverable	17	J I	<47	U							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	37.5		39.6	J Q	38.9	J	35		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	6.1	J	30.1	J	463		<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1670		1420		1480						ug/L	
	Sodium, total recoverable	1570		1600		1700		1750		< 4600	1	ug/L	EX
	Sulfate	<5000	U	488		493						ug/L	
Radionuclides													
	Gross alpha	.71	UI	1.15		.407	U					pCi/L	
	Nonvolatile beta	.01	UI	6.88		1.6	J I					pCi/L	
	Radium, total alpha-emitting	6.82	UIJ	.2	UI	.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL SRW 14B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102836.1 E 41548.1	33.321 Deg N 81.757 Deg W	162.9 - 153.1 ft msl	326.90 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/09/99 08/27/99 02/01/00 09/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	205.79	204.77	203.69	201.7	ft msl
pH	4.5	5.3	5.1	5.1	pH
Sp. Conductance	23	21	21	21	uS/cm
Water temperature	19.3	19.5	18.5	20.1	deg. C
Alkalinity as CaCO3	1	2	3	1	mg/L
Turbidity	.2	.3	.4	.2	NTU
Volumes purged	2.49	3.04	2.66	5.44	well volume
Sampling code					
Synchronous water level	205.7 (03/29/99)	204 (12/14/99)	202.3 (06/26/00)	200.9 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5		<5.9	U V							ug/L	
	Cyanide	2.2	J I	<15.2	U							ug/L	
	Lead, total recoverable	17.7	J I	15.4	J I							ug/L	
	Nickel, total recoverable	<26	U	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	14.3		12.2	J Q	15.5	J	11		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	11.7	J	<146	U	<146	U	44.5	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1180		988		1040						ug/L	
	Sodium, total recoverable	1400		1450		1470		1650		< 4600	1	ug/L	EX
	Sulfate	<5000	U	408		415						ug/L	
Radionuclides													
	Gross alpha	2.08	UI	1.25		.935	J IK					pCi/L	
	Nonvolatile beta	1.98	UI	.92	UI	.604	U					pCi/L	
	Radium, total alpha-emitting	5.42	J	.16	UI	.7	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL SRW 16A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103763.4 E 42830.9	33.325 Deg N 81.756 Deg W	144.10 - 119.4 ft msl	346.80 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/09/99 08/27/99 02/02/00 09/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	214.05	213.67	212.57	210.4	ft msl
pH	10.1	10.3	5.1	5.7	pH
Sp. Conductance	250	170	35	26	uS/cm
Water temperature	18.6	21	18.7	19.3	deg. C
Alkalinity as CaCO3	79	60	4	10	mg/L
Turbidity	3.5	13.5	57.6	31.2	NTU
Volumes purged	.016	0	.246	5.22	well volume
Sampling code	X	NX	NX		
Synchronous water level	213.9 (06/23/99)	213 (12/14/99)	211.2 (06/25/00)	209.6 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	44.3		38								ug/L	
	Cyanide	1.54	J I	<15.2	U							ug/L	
	Lead, total recoverable	<47	U	<47	U							ug/L	
	Nickel, total recoverable	<26	U	3.7	J I							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	JU Q	1.22		1.4	J I	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	803		1050		608		1090		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	359		220		473						ug/L	
	Sodium, total recoverable	5120		6080		3540		2240		< 4600	1	ug/L	EX
	Sulfate	<5000	U	867	J	633						ug/L	
Radionuclides													
	Gross alpha	2.98	UI	9.03	J	1.96	J IK					pCi/L	
	Nonvolatile beta	1.16	UI	9.33	J	2.9						pCi/L	
	Radium, total alpha-emitting	3.15	J	1.3		1	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL SRW 16B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103772 E 42825.8	33.325 Deg N 81.756 Deg W	169.9 - 160.1 ft msl	346.80 ft msl	4 " PVC	S	M

SAMPLE DATE 02/09/99 08/27/99 02/01/00 09/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	214.79	214.4	213.2	211.07	ft msl
pH	4.7	5.1	4.3	5.2	pH
Sp. Conductance	23	18	17	18	uS/cm
Water temperature	19	19.7	18.1	19.1	deg. C
Alkalinity as CaCO3	2	0	0	0	mg/L
Turbidity	.3	.8	.3	.5	NTU
Volumes purged	2.62	2.33	3.97	3.15	well volume
Sampling code					
Synchronous water level	214.9 (03/29/99)	214.3 (09/20/99)	212 (06/25/00)	210.2 (12/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6		6.8								ug/L	
	Cyanide	1.87	J I	<15.2	U							ug/L	
	Lead, total recoverable	8	J I	28.9	J I							ug/L	
	Nickel, total recoverable	3.6	J I	<26	U							ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	JU Q	<1	JU	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	53.3		<146	U	<146	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	620		731		730						ug/L	
	Sodium, total recoverable	1490		1330		1340		1210		< 4600	1	ug/L	EX
	Sulfate	<5000	U	414		409						ug/L	
Radionuclides													
	Gross alpha	3.36	UI	7.35		1.72	J I					pCi/L	
	Nonvolatile beta	2.16		7.18		1.54	U					pCi/L	
	Radium, total alpha-emitting	2.1		.98		.5	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards and Monitoring Constituents Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents (Third Quarter 2000) listed in Appendix A.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000

WELL RWM 1

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102599.1 E 48575.1	33.332 Deg N 81.738 Deg W	232.3 - 172.3 ft msl	364.7000 ft msl	8 " CS	S	UNK
SAMPLE DATE		01/19/00	02/16/00	03/22/00	04/25/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	185.53	365.8	ft msl	
pH	4.7	4.7	4.9	4.6	pH	
Sp. Conductance	55	60	60	61	uS/cm	
Water temperature	14.1	16.1	20.6	18.5	deg. C	
Alkalinity as CaCO3	0	0	0	0	mg/L	
Turbidity	.5	1.2	.4	.5	NTU	
Volumes purged			.031	0	well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	U	<100	U	<100	JU	<100	U	100	ug/L	ML
	1,1-Dichloroethane	<50	U	<100	U	<100	JU	<100	U	100	ug/L	ML
	1,1-Dichloroethylene	<50	U	<100	U	<100	JU	<100	U	100	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<100	U	<100	JU	<100	U	100	ug/L	ML
	PCB 1016	1.08	R L								ug/L	
	PCB 1221	1.08	R L								ug/L	
	PCB 1232	1.08	R L								ug/L	
	PCB 1242	1.08	R L								ug/L	
	PCB 1248	1.08	R L								ug/L	
	PCB 1254	1.08	R L								ug/L	
	PCB 1260	1.08	R L								ug/L	
	1,1,2,2-Tetrachloroethane	<50	U	<100	U	<100	JU	<100	U	100	ug/L	ML
+	Tetrachloroethylene	4490		19900		17800	J	22900		100	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<100	U	<100	JU	<100	U	100	ug/L	ML
+	Trichloroethylene	10500		23200		32900	J	29000		100	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 2

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104434.1 E 49205.5	33.337 Deg N 81.74 Deg W	148.3 - 138.3 ft msl	371.3000 ft msl	8 " CS	S	UNK
SAMPLE DATE		01/18/00	02/16/00	03/22/00	04/25/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	371.300	ft msl	
pH	4.7	4.6	4.7	4.3	pH	
Sp. Conductance	90	89	86	87	uS/cm	
Water temperature	15.5	15.9	21.3	19	deg. C	
Alkalinity as CaCO ₃	0	0	0	1	mg/L	
Turbidity	.5	3.3	.4	.6	NTU	
Volumes purged				0	well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	U	<50	U	<50	JU	<100	U	100	ug/L	ML
	1,1-Dichloroethane	<50	U	<50	U	<50	JU	<100	U	100	ug/L	ML
	1,1-Dichloroethylene	<50	U	<50	U	<50	JU	<100	U	100	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<50	U	<50	JU	<100	U	100	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	U	<50	U	<50	JU	<100	U	100	ug/L	ML
+	Tetrachloroethylene	12800		13400		11500	J	14200		100	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<50	U	<50	JU	<100	U	100	ug/L	ML
+	Trichloroethylene	12200		12100		14200	J	15400		100	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 3

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104730.2 E 49680	33.33844 Deg N 81.73947 Deg W	154 - 144 ft msl	377 ft msl	8 " CS	S	UNK
SAMPLE DATE		01/18/00	02/16/00	03/21/00	04/25/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	378.1	ft msl	
pH	4.8	4.1	4.9	4.6	pH	
Sp. Conductance	49	50	48	48	uS/cm	
Water temperature	13.3	18.9	21.2	18.9	deg. C	
Alkalinity as CaCO3	0	0	0	1	mg/L	
Turbidity	.4	.5	.8	.6	NTU	
Volumes purged				0	well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<20	U	<20	U	<20	U	<10	U	10	ug/L	ML
	1,1-Dichloroethane	<20	U	<20	U	<20	U	<10	U	10	ug/L	ML
	1,1-Dichloroethylene	<20	U	<20	U	<20	U	<10	U	10	ug/L	ML
	trans-1,2-Dichloroethylene	<20	U	<20	U	<20	U	<10	U	10	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<20	U	<20	U	<20	U	<10	U	10	ug/L	ML
	Tetrachloroethylene	1010		1040		820		811	J K	10	ug/L	ML
	1,1,1-Trichloroethane	<20	U	<20	U	<20	U	<10	U	10	ug/L	ML
	Trichloroethylene	3580		3360		4020		2920	J K	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 4

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103719.3 E 48948.2	33.33501 Deg N 81.73943 Deg W	139.90 - 129.5 ft msl	366.5 ft msl	8 " CS	S	M/GC/UL/LL
SAMPLE DATE		01/18/00	02/16/00	03/21/00	04/25/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	207.25	205.6	207.14	205.4	ft msl	
pH	5.4	5	5.1	4.9	pH	
Sp. Conductance	24	23	23	23	uS/cm	
Water temperature	15.9	16.4	20.8	18.4	deg. C	
Alkalinity as CaCO ₃	1	0	2	1	mg/L	
Turbidity	.4	.6	.6	.4	NTU	
Volumes purged	.084		.086	0	well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	U	<20	U	<50	JU	<20	U	20	ug/L	ML
	1,1-Dichloroethane	<50	U	<20	U	<50	JU	<20	U	20	ug/L	ML
	1,1-Dichloroethylene	<50	U	<20	U	<50	JU	<20	U	20	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<20	U	<50	JU	<20	U	20	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	U	<20	U	<50	JU	<20	U	20	ug/L	ML
+	Tetrachloroethylene	1590		1100		1510	J	1070		20	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<20	U	<50	JU	<20	U	20	ug/L	ML
+	Trichloroethylene	7380		6450		8700	J	6090		20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 5

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103502.2 E 49628	33.33564 Deg N 81.73721 Deg W	144.30 - 133.9 ft msl	366.9000 ft msl	8 " CS	S	M/GC/UL/LL

<u>SAMPLE DATE</u>	01/18/00	02/16/00	03/21/00	04/25/00
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FIELD DATA

<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>
Water Elevation	211.14	209.9	209.76	209.45	ft msl
pH	5.1	4.6	5.2	4.6	pH
Sp. Conductance	28	29	28	33	uS/cm
Water temperature	16.4	17.8	20.8	19	deg. C
Alkalinity as CaCO3	1	0	0	0	mg/L
Turbidity	.4	.5	.5	.6	NTU
Volumes purged	.108		.176	0	well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<10	U	<10	U	<5	U	<10	U	10	ug/L	ML
	1,1-Dichloroethane	<10	U	<10	U	<5	U	<10	U	10	ug/L	ML
	1,1-Dichloroethylene	<10	U	<10	U	<5	U	<10	U	10	ug/L	ML
	trans-1,2-Dichloroethylene	<10	U	<10	U	<5	U	<10	U	10	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<10	U	<10	U	<5	U	<10	U	10	ug/L	ML
+	Tetrachloroethylene	569		647		524		523		10	ug/L	ML
	1,1,1-Trichloroethane	<10	U	<10	U	<5	U	<10	U	10	ug/L	ML
+	Trichloroethylene	1360		1640		1680		1530		10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 6

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102001.5 E 50107.4	33.33311 Deg N 81.73303 Deg W	151.50 - 141.1 ft msl	349.1000 ft msl	8 " CS	S	M/GC/UL/LL

SAMPLE DATE 01/19/00 02/16/00 03/21/00 04/25/00

FIELD DATA

<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>
Water Elevation	202.2	222.2	185.31	168.84	ft msl
pH	5.1	4.7	5.2	4.4	pH
Sp. Conductance	31	31	31	30	uS/cm
Water temperature	16.9	18.9	20.8	19.3	deg. C
Alkalinity as CaCO3	1	0	1	1	mg/L
Turbidity	.4	.5	.5	.9	NTU
Volumes purged	-.05		-.02	0	well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<20	U	<20	U	<10	U	<10	U	10	ug/L	ML
	1,1-Dichloroethane	<20	U	<20	U	<10	U	<10	U	10	ug/L	ML
	1,1-Dichloroethylene	<20	U	<20	U	<10	U	<10	U	10	ug/L	ML
	trans-1,2-Dichloroethylene	<20	U	<20	U	<10	U	<10	U	10	ug/L	ML
	PCB 1016	1.04	R L								ug/L	
	PCB 1221	1.04	R L								ug/L	
	PCB 1232	1.04	R L								ug/L	
	PCB 1242	1.04	R L								ug/L	
	PCB 1248	1.04	R L								ug/L	
	PCB 1254	1.04	R L								ug/L	
	PCB 1260	1.04	R L								ug/L	
	1,1,2,2-Tetrachloroethane	<20	U	<20	U	<10	U	<10	U	10	ug/L	ML
+	Tetrachloroethylene	134		2950		3110		2960		10	ug/L	ML
	1,1,1-Trichloroethane	<20	U	<20	U	<10	U	<10	U	10	ug/L	ML
+	Trichloroethylene	2470		2100		2730		2480		10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 7

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101904.6 E 49449.5	33.33182 Deg N 81.73458 Deg W	154.20 - 144.0 ft msl	349 ft msl	8 " CS	S	M/GC/UL/LL
SAMPLE DATE		01/19/00	02/16/00	03/22/00	04/25/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	199.3	196.9	196.42	195.29	ft msl	
pH	4.9	4.1	4.9	4	pH	
Sp. Conductance	65	64	62	63	uS/cm	
Water temperature	16.8	19.1	20.8	18.8	deg. C	
Alkalinity as CaCO ₃	0	0	0	0	mg/L	
Turbidity	.5	.7	.5	.6	NTU	
Volumes purged	-.05		-.04	0	well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	U	<50	U	<50	U	<50	U	50	ug/L	ML
	1,1-Dichloroethane	<50	U	<50	U	<50	U	<50	U	50	ug/L	ML
	1,1-Dichloroethylene	<50	U	<50	U	<50	U	<50	U	50	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<50	U	<50	U	<50	U	50	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	U	<50	U	<50	U	<50	U	50	ug/L	ML
+	Tetrachloroethylene	164		9220		9740	J K	9770		50	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<50	U	<50	U	<50	U	50	ug/L	ML
+	Trichloroethylene	8000		6730		8500	J K	8150		50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 8

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101948.2 E 47353.3	33.32849 Deg N 81.74018 Deg W	119.70 - 109.3 ft msl	348.3000 ft msl	8 " CS	S	GC/UL/LL
SAMPLE DATE		01/18/00	02/16/00	03/21/00	04/25/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	213.38	202.85	203.59	202.87	ft msl	
pH		5.1	5.2	4.8	pH	
Sp. Conductance		173	184	115	uS/cm	
Water temperature		17.4	21.6	18.4	deg. C	
Alkalinity as CaCO ₃		0	2	1	mg/L	
Turbidity		.9	.4	.4	NTU	
Volumes purged	0		.025	0	well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<5	U	<5	U	<5	U	5	ug/L	ML
	1,1-Dichloroethane			<5	U	<5	U	<5	U	5	ug/L	ML
	1,1-Dichloroethylene			3.95	J I	4.85	J I	6.85		5	ug/L	ML
	trans-1,2-Dichloroethylene			<5	U	<5	U	<5	U	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<5	U	<5	U	<5	U	5	ug/L	ML
+	Tetrachloroethylene			961		734		1020		5	ug/L	ML
	1,1,1-Trichloroethane			<5	U	<5	U	2.35	J I	5	ug/L	ML
+	Trichloroethylene			1220		1280		1660		5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 9

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104099.8 E 50400	33.33822 Deg N 81.73634 Deg W	143.00 - 132.6 ft msl	380.6000 ft msl	8 " CS	S	M
SAMPLE DATE		01/19/00	02/16/00	03/21/00	04/25/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	222.05	220.74	219.45	ft msl	
pH		5.3	5.5	4.7	pH	
Sp. Conductance		49	46	46	uS/cm	
Water temperature		18.2	20.9	18.6	deg. C	
Alkalinity as CaCO ₃		2	3	2	mg/L	
Turbidity		.6	.5	.5	NTU	
Volumes purged			.041	0	well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<1	U	<1	U	<1	U	1	ug/L	ML
	1,1-Dichloroethane			<1	U	<1	U	<1	U	1	ug/L	ML
	1,1-Dichloroethylene			<1	U	<1	U	<1	U	1	ug/L	ML
	trans-1,2-Dichloroethylene			<1	U	<1	U	<1	U	1	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<1	U	<1	U	<1	U	1	ug/L	ML
+	Tetrachloroethylene			9.69		7.47		6		1	ug/L	ML
	1,1,1-Trichloroethane			<1	U	<1	U	<1	U	1	ug/L	ML
+	Trichloroethylene			166		172		120		1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 10

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102000.9 E 48244.1	33.33006 Deg N 81.73794 Deg W	137.90 - 127.5 ft msl	355.5 ft msl	8 " CS	S	M
SAMPLE DATE		01/18/00	02/16/00	03/23/00	04/25/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	195.9	216.5	195.48	196.84	ft msl	
pH	5.1		5.1	4.6	pH	
Sp. Conductance	124		85	106	uS/cm	
Water temperature	16.6		17.7	18.3	deg. C	
Alkalinity as CaCO ₃	2		0	2	mg/L	
Turbidity	.5		1	.7	NTU	
Volumes purged	-.04		-.03	0	well volume	
Sampling code	C	CP	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	U			<20	U	<100	U	100	ug/L	ML
	1,1-Dichloroethane	<50	U			<20	U	<100	U	100	ug/L	ML
	1,1-Dichloroethylene	<50	U			<20	U	<100	U	100	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U			<20	U	<100	U	100	ug/L	ML
	PCB 1016	<1	U								ug/L	
	PCB 1221	<1	U								ug/L	
	PCB 1232	<1	U								ug/L	
	PCB 1242	<1	U								ug/L	
	PCB 1248	<1	U								ug/L	
	PCB 1254	<1	U								ug/L	
	PCB 1260	<1	U								ug/L	
	1,1,2,2-Tetrachloroethane	<50	U			<20	U	<100	U	100	ug/L	ML
+	Tetrachloroethylene	16800				9030	J K	15500		100	ug/L	ML
	1,1,1-Trichloroethane	<50	U			<20	U	<100	U	100	ug/L	ML
+	Trichloroethylene	4180				5220	J K	7530		100	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 11

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104875 E 50400.2	33.33994 Deg N 81.73785 Deg W	152.20 - 141.9 ft msl	383.3000 ft msl	8 " CS	S	UNK
SAMPLE DATE		01/19/00	02/16/00	03/23/00	04/25/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	211.57	225.02	210.71	210.45	ft msl	
pH	4.9		4.8	4.5	pH	
Sp. Conductance	28		28	28	uS/cm	
Water temperature	18.3		18.6	19.4	deg. C	
Alkalinity as CaCO ₃	0		0	0	mg/L	
Turbidity	.5		.5	.4	NTU	
Volumes purged	.061		.070	0	well volume	
Sampling code	C	CP	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<5	U			<5	U	<5	U	5	ug/L	ML
	1,1-Dichloroethane	<5	U			<5	U	<5	U	5	ug/L	ML
	1,1-Dichloroethylene	<5	U			<5	U	<5	U	5	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U			<5	U	<5	U	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<5	U			<5	U	<5	U	5	ug/L	ML
+	Tetrachloroethylene	8.37				24.6	J K	51.1		5	ug/L	ML
	1,1,1-Trichloroethane	<5	U			<5	U	<5	U	5	ug/L	ML
+	Trichloroethylene	890				177	J K	749		5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 12

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106879.2 E 52500.1	33.348 Deg N 81.736 Deg W	179.70 - 159.2 ft msl	359.4000 ft msl	6 " CS/SS	S	UL/LL
SAMPLE DATE		01/19/00	02/17/00	03/22/00	04/26/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	211.49	211.280	210.890	<i>Not Available</i>	ft msl	
pH	4.8	4.7	4.9	4	pH	
Sp. Conductance	41	42	39	41	uS/cm	
Water temperature	15.5	18	20.9	17.2	deg. C	
Alkalinity as CaCO ₃	0	0	0	0	mg/L	
Turbidity	.9	.5	.4	1.4	NTU	
Volumes purged	.031		.032		well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<20	U	<10	U	<5	JU	<10	U	10	ug/L	ML
	1,1-Dichloroethane	<20	U	<10	U	<5	JU	<10	U	10	ug/L	ML
	1,1-Dichloroethylene	<20	U	<10	U	<5	JU	<10	U	10	ug/L	ML
	trans-1,2-Dichloroethylene	<20	U	<10	U	<5	JU	<10	U	10	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<20	U	<10	U	<5	JU	<10	U	10	ug/L	ML
	Tetrachloroethylene	<20	U	7.8	J I	9.35	J	38.8	J K	10	ug/L	ML
	1,1,1-Trichloroethane	<20	U	<10	U	<5	JU	<10	U	10	ug/L	ML
	Trichloroethylene	2000		2280		2100	J	1760	J K	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 13B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105803.3 E 53516.3	33.347 Deg N 81.731 Deg W	138.2 - 113.0 ft msl	336.2000 ft msl	6 " CS		LL
SAMPLE DATE		01/19/00	02/16/00	03/23/00	04/25/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	201.36	201.300	200.420	200.050	ft msl	
pH	5.2	5	5.1	5	pH	
Sp. Conductance	20	21	22	20	uS/cm	
Water temperature	17.2	19.1	17.5	18.6	deg. C	
Alkalinity as CaCO ₃	1	0	1	1	mg/L	
Turbidity	.5	.9	.4	.6	NTU	
Volumes purged	.008		.008	0	well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<5	U	<5	U	<2	U	<5	U	5	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<2	U	<5	U	5	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<2	U	<5	U	5	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<2	U	<5	U	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<2	U	<5	U	5	ug/L	ML
+	Tetrachloroethylene	<5	U	12.2		6.4	J K	8.35		5	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<2	U	<5	U	5	ug/L	ML
+	Trichloroethylene	613		671		579	J K	622		5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 13C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105809.7 E 53502.2	33.347 Deg N 81.732 Deg W	173.4 - 153.3 ft msl	336.4000 ft msl	6 " CS		UL
SAMPLE DATE		01/19/00	02/16/00	03/23/00	04/25/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	207.13	206.91	206.60	206.55	ft msl	
pH	5.1	4.9	5.4	4.9	pH	
Sp. Conductance	30	31	29	30	uS/cm	
Water temperature	17.9	18.9	17.3	18.9	deg. C	
Alkalinity as CaCO ₃	1	0	1	1	mg/L	
Turbidity	.5	.8	.3	.8	NTU	
Volumes purged	.013		.013	0	well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	5	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	5	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	5	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	5	ug/L	ML
+	Tetrachloroethylene	2.77	J I	23.3		12.7	J K	19.7		5	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	5	ug/L	ML
+	Trichloroethylene	950		993		739	J K	873		5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 14B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106362.1 E 53044.7	33.348 Deg N 81.734 Deg W	148.5 - 123.2 ft msl	351.2000 ft msl	6 " CS		LL
SAMPLE DATE		01/19/00	02/17/00	03/22/00	04/26/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	209.73	209.57	209.20	155.24	ft msl	
pH	4.5	4.5	5.1	3.8	pH	
Sp. Conductance	24	25	23	23	uS/cm	
Water temperature	15.8	17.8	19.8	17	deg. C	
Alkalinity as CaCO ₃	0	0	1	0	mg/L	
Turbidity	.4	.4	.3	1.2	NTU	
Volumes purged	.008		.008	0	well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<5	U	<5	U	<5	JU	<5	U	5	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	JU	<5	U	5	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU	<5	U	5	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU	<5	U	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU	<5	U	5	ug/L	ML
	Tetrachloroethylene	<5	U	5.95		6.05	J	20.8	J K	5	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU	<5	U	5	ug/L	ML
	Trichloroethylene	737		783		711	J	660	J K	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 14C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106380.8 E 53051.5	33.348 Deg N 81.734 Deg W	193.5 - 173.4 ft msl	351.4000 ft msl	6 " CS		UL
SAMPLE DATE		01/19/00	02/17/00	03/22/00	04/26/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	202.64	202.35	202.20	201.70	ft msl	
pH	4.9	4.8	5.1	4	pH	
Sp. Conductance	37	38	35	35	uS/cm	
Water temperature	16.9	17.8	19.4	17.4	deg. C	
Alkalinity as CaCO ₃	0	0	1	1	mg/L	
Turbidity	.4	.4	.5	.6	NTU	
Volumes purged	.023		.024	0	well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<20	U	<20	JU L	<20	JU	<20	U	20	ug/L	ML
	1,1-Dichloroethane	<20	U	<20	JU L	<20	JU	<20	U	20	ug/L	ML
	1,1-Dichloroethylene	<20	U	<20	JU L	<20	JU	<20	U	20	ug/L	ML
	trans-1,2-Dichloroethylene	<20	U	<20	JU L	<20	JU	<20	U	20	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<20	U	<20	JU L	<20	JU	<20	U	20	ug/L	ML
+	Tetrachloroethylene	<20	U	22.2	J L	31	J	81		20	ug/L	ML
	1,1,1-Trichloroethane	<20	U	<20	JU L	<20	JU	13.4	J I	20	ug/L	ML
+	Trichloroethylene	4150		4070	J L	5640	J	3640		20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January - April 2000 (Cont.)
WELL RWM 15B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107444.7 E 53849	33.35125 Deg N 81.73377 Deg W	150.9 - 125.8 ft msl	368.4000 ft msl	6 " CS		LL
SAMPLE DATE		01/19/00	02/16/00	03/23/00	04/25/00	
FIELD DATA						
<u>Parameter</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>Unit</u>	
Water Elevation	207.40	207.15	206.90	206.75	ft msl	
pH	5.2	5	5.2	5.1	pH	
Sp. Conductance	21	22	21	21	uS/cm	
Water temperature	17.1	18.5	16.6	18.6	deg. C	
Alkalinity as CaCO3	1	0	1	1	mg/L	
Turbidity	.4	1.2	.4	.7	NTU	
Volumes purged	.008		.008	0	well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<1	U	<1	U	<1	U	<1	U	1	ug/L	ML
	1,1-Dichloroethane	<1	U	<1	U	<1	U	<1	U	1	ug/L	ML
	1,1-Dichloroethylene	<1	U	<1	U	<1	U	<1	U	1	ug/L	ML
	trans-1,2-Dichloroethylene	<1	U	<1	U	<1	U	<1	U	1	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<1	U	<1	U	<1	U	<1	U	1	ug/L	ML
	Tetrachloroethylene	<1	U	<1	U	<1	U	<1	U	1	ug/L	ML
	1,1,1-Trichloroethane	<1	U	<1	U	<1	U	<1	U	1	ug/L	ML
+	Trichloroethylene	25.5		23.4		20.7	J K	22.1		1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>MAR</u>	<u>CLPEPA</u>	<u>APR</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000

WELL RWM 1

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102599.1 E 48575.1	33.332 Deg N 81.738 Deg W	232.3 - 172.3 ft msl	364.7000 ft msl	8 " CS	S	UNK

SAMPLE DATE 06/21/00 07/19/00 08/15/00

FIELD DATA

<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	185.5	ft msl
pH		6	4.2	5	pH
Sp. Conductance		60	59	60	uS/cm
Water temperature		22.2	23.4	22.6	deg. C
Alkalinity as CaCO ₃		0	0	0	mg/L
Turbidity		1.8	1.4	1.3	NTU
Volumes purged					well volume
Sampling code		C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<100	U L	<100	JU L	<100	JU L	100	ug/L	ML
	1,1-Dichloroethane			<100	U L	<100	JU L	<100	JU L	100	ug/L	ML
	1,1-Dichloroethylene			<100	U L	<100	JU L	<100	JU L	100	ug/L	ML
	trans-1,2-Dichloroethylene			<100	U L	<100	JU L	<100	JU L	100	ug/L	ML
	PCB 1016					<1	U				ug/L	
	PCB 1221					<1	U				ug/L	
	PCB 1232					<1	U				ug/L	
	PCB 1242					<1	U				ug/L	
	PCB 1248					<1	U				ug/L	
	PCB 1254					<1	U				ug/L	
	PCB 1260					<1	U				ug/L	
	1,1,2,2-Tetrachloroethane			<100	U L	<100	JU L	<100	JU L	100	ug/L	ML
	Tetrachloroethylene			18500	J L	21300	J L	17200	J L	100	ug/L	ML
	1,1,1-Trichloroethane			<100	U L	<100	JU L	<100	JU L	100	ug/L	ML
	Trichloroethylene			21900	J L	29200	J L	19800	J L	100	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 2

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104434.1 E 49205.5	33.337 Deg N 81.74 Deg W	148.3 - 138.3 ft msl	371.3000 ft msl	8 " CS	S	UNK

SAMPLE DATE 06/02/00

FIELD DATA

<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH		4.8			pH
Sp. Conductance		81			uS/cm
Water temperature		22.9			deg. C
Alkalinity as CaCO ₃		0			mg/L
Turbidity		.8			NTU
Volumes purged					well volume
Sampling code		C			

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<50	JU L						ug/L	
	1,1-Dichloroethane			<50	JU L						ug/L	
	1,1-Dichloroethylene			<50	JU L						ug/L	
	trans-1,2-Dichloroethylene			<50	JU L						ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<50	JU L						ug/L	
	Tetrachloroethylene			12600	J L						ug/L	
	1,1,1-Trichloroethane			<50	JU L						ug/L	
	Trichloroethylene			8740	J L						ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 3

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104730.2 E 49680	33.33844 Deg N 81.73947 Deg W	154 - 144 ft msl	377 ft msl	8 " CS	S	UNK
SAMPLE DATE		05/25/00	06/19/00	07/14/00	08/14/00	
FIELD DATA						
<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	209.1	ft msl	
pH	4.9	6.3	4.2	5	pH	
Sp. Conductance	49	48	47	48	uS/cm	
Water temperature	23.7	23.5	22	21.9	deg. C	
Alkalinity as CaCO ₃	0	0	0	0	mg/L	
Turbidity	.6	3.6	1.4	.8	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<20	JU	<20	U	<10	JU L	<20	U	20	ug/L	ML
	1,1-Dichloroethane	<20	JU	<20	U	<10	JU L	<20	U	20	ug/L	ML
	1,1-Dichloroethylene	<20	JU	<20	U	<10	JU L	<20	U	20	ug/L	ML
	trans-1,2-Dichloroethylene	<20	JU	<20	U	<10	JU L	<20	U	20	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<20	JU	<20	U	<10	JU L	<20	U	20	ug/L	ML
+	Tetrachloroethylene	823	J	788		878	J L	854		20	ug/L	ML
	1,1,1-Trichloroethane	<20	JU	<20	U	<10	JU L	<20	U	20	ug/L	ML
+	Trichloroethylene	3340	J	3080		3930	J L	3190		20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 4

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103719.3 E 48948.2	33.33501 Deg N 81.73943 Deg W	139.90 - 129.5 ft msl	366.5 ft msl	8 " CS	S	M/GC/UL/LL

<u>SAMPLE DATE</u>	05/25/00	06/19/00	07/14/00	08/14/00
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FIELD DATA

<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>
Water Elevation	204.5	<i>Not Available</i>	204.19	203.86	ft msl
pH	5.1	6.5	4.5	5.1	pH
Sp. Conductance	24	22	22	23	uS/cm
Water temperature	23.2	24	23.4	22	deg. C
Alkalinity as CaCO3	0	3	1	0	mg/L
Turbidity	.8	.7	.9	.3	NTU
Volumes purged	.217				well volume
Sampling code	C	C	C	CN	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	JU	<50	U	<20	JU L	<50	U	50	ug/L	ML
	1,1-Dichloroethane	<50	JU	<50	U	<20	JU L	<50	U	50	ug/L	ML
	1,1-Dichloroethylene	<50	JU	<50	U	<20	JU L	<50	U	50	ug/L	ML
	trans-1,2-Dichloroethylene	<50	JU	<50	U	<20	JU L	<50	U	50	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	JU	<50	U	<20	JU L	<50	U	50	ug/L	ML
+	Tetrachloroethylene	1000	J	1200		990	J L	1260		50	ug/L	ML
	1,1,1-Trichloroethane	<50	JU	<50	U	<20	JU L	<50	U	50	ug/L	ML
+	Trichloroethylene	6690	J	7100		7390	J L	7410		50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 5

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103502.2 E 49628	33.33564 Deg N 81.73721 Deg W	144.30 - 133.9 ft msl	366.9000 ft msl	8 " CS	S	M/GC/UL/LL

<u>SAMPLE DATE</u>	05/25/00	06/19/00	07/14/00	08/14/00
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FIELD DATA

<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>
Water Elevation	208.7	208.45	208.27	199.1	ft msl
pH	5.2	6.6	4.4	5	pH
Sp. Conductance	32	28	29	48	uS/cm
Water temperature	23.8	23.3	22.9	21.9	deg. C
Alkalinity as CaCO3	0	1	1	0	mg/L
Turbidity	.9	.9	.8	.8	NTU
Volumes purged	.353				well volume
Sampling code	C	C	C	CN	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<10	JU	<10	U	<10	JU L	<10	U	10	ug/L	ML
	1,1-Dichloroethane	<10	JU	<10	U	<10	JU L	<10	U	10	ug/L	ML
	1,1-Dichloroethylene	<10	JU	<10	U	<10	JU L	<10	U	10	ug/L	ML
	trans-1,2-Dichloroethylene	<10	JU	<10	U	<10	JU L	<10	U	10	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<10	JU	<10	U	<10	JU L	<10	U	10	ug/L	ML
+	Tetrachloroethylene	574	J	585	J K	569	J L	594		10	ug/L	ML
	1,1,1-Trichloroethane	<10	JU	<10	U	<10	JU L	<10	U	10	ug/L	ML
+	Trichloroethylene	1690	J	1550	J K	1760	J L	1740		10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 6

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102001.5 E 50107.4	33.33311 Deg N 81.73303 Deg W	151.50 - 141.1 ft msl	349.1000 ft msl	8 " CS	S	M/GC/UL/LL

SAMPLE DATE 05/25/00 06/19/00 07/17/00 08/14/00

FIELD DATA

<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>
Water Elevation	207.2	169.15	<i>Not Available</i>	168.8	ft msl
pH	5.3	6.6	4.2	5	pH
Sp. Conductance	30	29	29	30	uS/cm
Water temperature	23.5	23.9	21.1	24	deg. C
Alkalinity as CaCO3	0	3	1	0	mg/L
Turbidity	.7	1.1	.9	.5	NTU
Volumes purged	-.17				well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<20	JU	<20	U	<10	JU L	<10	U	10	ug/L	ML
	1,1-Dichloroethane	<20	JU	<20	U	<10	JU L	<10	U	10	ug/L	ML
	1,1-Dichloroethylene	<20	JU	<20	U	<10	JU L	<10	U	10	ug/L	ML
	trans-1,2-Dichloroethylene	<20	JU	<20	U	<10	JU L	<10	U	10	ug/L	ML
	PCB 1016					<1	U				ug/L	
	PCB 1221					<1	U				ug/L	
	PCB 1232					<1	U				ug/L	
	PCB 1242					<1	U				ug/L	
	PCB 1248					<1	U				ug/L	
	PCB 1254					<1	U				ug/L	
	PCB 1260					<1	U				ug/L	
	1,1,2,2-Tetrachloroethane	<20	JU	<20	U	<10	JU L	<10	U	10	ug/L	ML
	Tetrachloroethylene	2520	J	2600	J K	2800	J L	2850	J K	10	ug/L	ML
	1,1,1-Trichloroethane	<20	JU	<20	U	<10	JU L	<10	U	10	ug/L	ML
	Trichloroethylene	1780	J	1980	J K	2230	J L	2210	J K	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 7

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101904.6 E 49449.5	33.33182 Deg N 81.73458 Deg W	154.20 - 144.0 ft msl	349 ft msl	8 " CS	S	M/GC/UL/LL

SAMPLE DATE	06/21/00	07/19/00	08/15/00
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FIELD DATA

<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	195.5	<i>Not Available</i>	194.15	ft msl
pH		5.9	4.2	4.9	pH
Sp. Conductance		63	63	64	uS/cm
Water temperature		22.1	26.1	22.2	deg. C
Alkalinity as CaCO ₃		0	0	0	mg/L
Turbidity		1.6	1.1	1.8	NTU
Volumes purged					well volume
Sampling code		C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<50	U L	<50	JU L	<50	JU L	50	ug/L	ML
	1,1-Dichloroethane			<50	U L	<50	JU L	<50	JU L	50	ug/L	ML
	1,1-Dichloroethylene			<50	U L	<50	JU L	<50	JU L	50	ug/L	ML
	trans-1,2-Dichloroethylene			<50	U L	<50	JU L	<50	JU L	50	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<50	U L	<50	JU L	<50	JU L	50	ug/L	ML
	Tetrachloroethylene			9590	J L	9830	J L	12500	J L	50	ug/L	ML
	1,1,1-Trichloroethane			<50	U L	<50	JU L	<50	JU L	50	ug/L	ML
	Trichloroethylene			7130	J L	8030	J L	6420	J L	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 8

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101948.2 E 47353.3	33.32849 Deg N 81.74018 Deg W	119.70 - 109.3 ft msl	348.3000 ft msl	8 " CS	S	GC/UL/LL

SAMPLE DATE 05/25/00 06/19/00 07/17/00 08/14/00

FIELD DATA

<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>
Water Elevation	202	201.79	201.4	201.22	ft msl
pH	5.2	6.5	4.4	5.3	pH
Sp. Conductance	106	97	94	94	uS/cm
Water temperature	23.9	24.9	21.1	22.1	deg. C
Alkalinity as CaCO ₃	0	4	1	2	mg/L
Turbidity	1.7	4.3	.5	2	NTU
Volumes purged	.027				well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<10	JU L	<5	U	<5	JU L	<5	U	5	ug/L	ML
	1,1-Dichloroethane	<10	JU L	<5	U	<5	JU L	<5	U	5	ug/L	ML
	1,1-Dichloroethylene	<10	JU L	<5	U	<5	JU L	<5	U	5	ug/L	ML
	trans-1,2-Dichloroethylene	<10	JU L	<5	U	<5	JU L	<5	U	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<10	JU L	<5	U	<5	JU L	<5	U	5	ug/L	ML
+	Tetrachloroethylene	466	J L	431	J K	420	J L	508		5	ug/L	ML
	1,1,1-Trichloroethane	<10	JU L	<5	U	<5	JU L	<5	U	5	ug/L	ML
+	Trichloroethylene	786	J L	743	J K	793	J L	893		5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 9

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104099.8 E 50400	33.33822 Deg N 81.73634 Deg W	143.00 - 132.6 ft msl	380.6000 ft msl	8 " CS	S	M
SAMPLE DATE		06/19/00	07/17/00		08/14/00	
FIELD DATA						
<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	217.78	216.6	216.2	ft msl	
pH		6.7	4.3	5.4	pH	
Sp. Conductance		44	44	45	uS/cm	
Water temperature		22.8	21.3	22.9	deg. C	
Alkalinity as CaCO ₃		2	1	4	mg/L	
Turbidity		.5	.6	.5	NTU	
Volumes purged					well volume	
Sampling code		C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<1	U L	<1	JU L	<1	U	1	ug/L	ML
	1,1-Dichloroethane			<1	U L	<1	JU L	<1	U	1	ug/L	ML
	1,1-Dichloroethylene			<1	U L	<1	JU L	<1	U	1	ug/L	ML
	trans-1,2-Dichloroethylene			<1	U L	<1	JU L	<1	U	1	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<1	U L	<1	JU L	<1	U	1	ug/L	ML
+	Tetrachloroethylene			13	J L	10.1	J L	11.7		1	ug/L	ML
	1,1,1-Trichloroethane			<1	U L	<1	JU L	<1	U	1	ug/L	ML
+	Trichloroethylene			211	J L	265	J L	270		1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)

WELL RWM 10

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102000.9 E 48244.1	33.33006 Deg N 81.73794 Deg W	137.90 - 127.5 ft msl	355.5 ft msl	8 " CS	S	M
SAMPLE DATE		06/19/00	07/17/00		08/14/00	
FIELD DATA						
<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	195.43	ft msl	
pH		6.6	4	5.1	pH	
Sp. Conductance		83	83	85	uS/cm	
Water temperature		22.7	20.4	22.4	deg. C	
Alkalinity as CaCO ₃		2	1	0	mg/L	
Turbidity		1.1	.5	.9	NTU	
Volumes purged					well volume	
Sampling code		C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<100	U L	<100	JU	<50	U	50	ug/L	ML
	1,1-Dichloroethane			<100	U L	<100	JU	<50	U	50	ug/L	ML
	1,1-Dichloroethylene			<100	U L	<100	JU	<50	U	50	ug/L	ML
	trans-1,2-Dichloroethylene			<100	U L	<100	JU	<50	U	50	ug/L	ML
	PCB 1016					<1	U				ug/L	
	PCB 1221					<1	U				ug/L	
	PCB 1232					<1	U				ug/L	
	PCB 1242					<1	U				ug/L	
	PCB 1248					<1	U				ug/L	
	PCB 1254					<1	U				ug/L	
	PCB 1260					<1	U				ug/L	
	1,1,2,2-Tetrachloroethane			<100	U L	<100	JU	<50	U	50	ug/L	ML
+	Tetrachloroethylene			24400	J L	10700	J	10300		50	ug/L	ML
	1,1,1-Trichloroethane			<100	U L	<100	JU	<50	U	50	ug/L	ML
+	Trichloroethylene			6540	J L	7250	J	6030		50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.

+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 11

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104875 E 50400.2	33.33994 Deg N 81.73785 Deg W	152.20 - 141.9 ft msl	383.3000 ft msl	8 " CS	S	UNK

SAMPLE DATE	06/19/00	07/17/00	08/14/00
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FIELD DATA

<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	209.95	209.2	209.5	ft msl
pH		6.5	4.1	4.7	pH
Sp. Conductance		28	28	29	uS/cm
Water temperature		23	21.1	22.8	deg. C
Alkalinity as CaCO ₃		0	0	0	mg/L
Turbidity		.8	.8	.4	NTU
Volumes purged					well volume
Sampling code		C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<5	U L	<5	JU L	<5	U	5	ug/L	ML
	1,1-Dichloroethane			<5	U L	<5	JU L	<5	U	5	ug/L	ML
	1,1-Dichloroethylene			<5	U L	<5	JU L	<5	U	5	ug/L	ML
	trans-1,2-Dichloroethylene			<5	U L	<5	JU L	<5	U	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<5	U L	<5	JU L	<5	U	5	ug/L	ML
+	Tetrachloroethylene			48.3	J L	39.5	J L	45.2		5	ug/L	ML
	1,1,1-Trichloroethane			<5	U L	<5	JU L	<5	U	5	ug/L	ML
+	Trichloroethylene			751	J L	742	J L	721		5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 12

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106879.2 E 52500.1	33.348 Deg N 81.736 Deg W	179.70 - 159.2 ft msl	359.4000 ft msl	6 " CS/SS	S	UL/LL
SAMPLE DATE		05/31/00	06/21/00	07/19/00	08/15/00	
FIELD DATA						
<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>	
Water Elevation	210.3	<i>Not Available</i>	<i>Not Available</i>	209.600	ft msl	
pH	6.5	5.8	4.2	4.8	pH	
Sp. Conductance	41	41	39	41	uS/cm	
Water temperature	19.7	22.5	22.8	21.3	deg. C	
Alkalinity as CaCO3	0	0	0	0	mg/L	
Turbidity	.3	.5	.4	.8	NTU	
Volumes purged	.033				well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<10	JU L	<10	U	<10	JU L	<10	JU L	10	ug/L	ML
	1,1-Dichloroethane	<10	JU L	<10	U	<10	JU L	<10	JU L	10	ug/L	ML
	1,1-Dichloroethylene	<10	JU L	<10	U	<10	JU L	<10	JU L	10	ug/L	ML
	trans-1,2-Dichloroethylene	<10	JU L	<10	U	<10	JU L	<10	JU L	10	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<10	JU L	<10	U	<10	JU L	<10	JU L	10	ug/L	ML
	Tetrachloroethylene	12	J L	10.6		7.2	J IL	<10	JU L	10	ug/L	ML
	1,1,1-Trichloroethane	<10	JU L	<10	U	<10	JU L	<10	JU L	10	ug/L	ML
	Trichloroethylene	1800	J L	1860		2100	J L	1450	J L	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)

WELL RWM 13B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105803.3 E 53516.3	33.347 Deg N 81.731 Deg W	138.2 - 113.0 ft msl	336.2000 ft msl	6 " CS		LL
SAMPLE DATE		06/19/00	07/17/00		08/14/00	
FIELD DATA						
<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	199.700	199.70	199.60	ft msl	
pH		6.6	4.4	5.1	pH	
Sp. Conductance		19	19	20	uS/cm	
Water temperature		21.4	20.8	20.5	deg. C	
Alkalinity as CaCO ₃		2	1	0	mg/L	
Turbidity		.6	.9	1.1	NTU	
Volumes purged					well volume	
Sampling code		C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<5	U L	<5	JU L	<2	U	2	ug/L	ML
	1,1-Dichloroethane			<5	U L	<5	JU L	<2	U	2	ug/L	ML
	1,1-Dichloroethylene			<5	U L	<5	JU L	<2	U	2	ug/L	ML
	trans-1,2-Dichloroethylene			<5	U L	<5	JU L	<2	U	2	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<5	U L	<5	JU L	<2	U	2	ug/L	ML
+	Tetrachloroethylene			9.9	J L	9.55	J L	8.86		2	ug/L	ML
	1,1,1-Trichloroethane			<5	U L	<5	JU L	<2	U	2	ug/L	ML
+	Trichloroethylene			568	J L	515	J L	612		2	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.

+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 13C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105809.7 E 53502.2	33.347 Deg N 81.732 Deg W	173.4 - 153.3 ft msl	336.4000 ft msl	6 " CS		UL
SAMPLE DATE		06/19/00	07/17/00		08/14/00	
FIELD DATA						
<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	205.85	205.40	205.25	ft msl	
pH		6.5	4.3	5	pH	
Sp. Conductance		28	30	29	uS/cm	
Water temperature		21.9	21.3	21.2	deg. C	
Alkalinity as CaCO ₃		2	1	1	mg/L	
Turbidity		.5	.4	.9	NTU	
Volumes purged					well volume	
Sampling code		C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<5	U L	<5	JU L	<5	U	5	ug/L	ML
	1,1-Dichloroethane			<5	U L	<5	JU L	<5	U	5	ug/L	ML
	1,1-Dichloroethylene			<5	U L	<5	JU L	<5	U	5	ug/L	ML
	trans-1,2-Dichloroethylene			<5	U L	<5	JU L	<5	U	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<5	U L	<5	JU L	<5	U	5	ug/L	ML
+	Tetrachloroethylene			19	J L	13.7	J L	16.5		5	ug/L	ML
	1,1,1-Trichloroethane			<5	U L	<5	JU L	<5	U	5	ug/L	ML
+	Trichloroethylene			737	J L	667	J L	711		5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)

WELL RWM 14B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106362.1 E 53044.7	33.348 Deg N 81.734 Deg W	148.5 - 123.2 ft msl	351.2000 ft msl	6 " CS		LL
SAMPLE DATE		06/21/00	07/19/00		08/15/00	
FIELD DATA						
<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	208.55	208.62	207.93	ft msl	
pH		6.4	4.3	4.7	pH	
Sp. Conductance		23	23	23	uS/cm	
Water temperature		20.7	22.1	19.8	deg. C	
Alkalinity as CaCO ₃		1	1	0	mg/L	
Turbidity		3.8	.6	1.1	NTU	
Volumes purged					well volume	
Sampling code		C	CN	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<5	U L	<5	JU L	<5	JU L	5	ug/L	ML
	1,1-Dichloroethane			<5	U L	<5	JU L	<5	JU L	5	ug/L	ML
	1,1-Dichloroethylene			<5	U L	<5	JU L	<5	JU L	5	ug/L	ML
	trans-1,2-Dichloroethylene			<5	U L	<5	JU L	<5	JU L	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<5	U L	<5	JU L	<5	JU L	5	ug/L	ML
	Tetrachloroethylene			8.75	J L	3.65	J IL	7.75	J L	5	ug/L	ML
	1,1,1-Trichloroethane			<5	U L	<5	JU L	<5	JU L	5	ug/L	ML
	Trichloroethylene			655	J L	584	J L	413	J L	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.

+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 14C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>						
N 106380.8 E 53051.5	33.348 Deg N 81.734 Deg W	193.5 - 173.4 ft msl	351.4000 ft msl	6 " CS		UL						
SAMPLE DATE		06/21/00	07/19/00	08/15/00								
FIELD DATA												
<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>							
Water Elevation	Not Available	Not Available	Not Available	200.85	ft msl							
pH		6.2	4.5	4.9	pH							
Sp. Conductance		35	35	35	uS/cm							
Water temperature		20.2	21.6	19.6	deg. C							
Alkalinity as CaCO3		1	0	1	mg/L							
Turbidity		3.6	3.8	4.7	NTU							
Volumes purged					well volume							
Sampling code		C	CN	C								
ANALYTICAL DATA												
I. Groundwater Protection Standard												
261 Appendix VIII/264 Appendix IX Hazardous Constituents												
<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<20	U L	<20	JU L	<20	JU L	20	ug/L	ML
	1,1-Dichloroethane			<20	U L	<20	JU L	<20	JU L	20	ug/L	ML
	1,1-Dichloroethylene			<20	U L	<20	JU L	<20	JU L	20	ug/L	ML
	trans-1,2-Dichloroethylene			<20	U L	<20	JU L	<20	JU L	20	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<20	U L	<20	JU L	<20	JU L	20	ug/L	ML
	Tetrachloroethylene			31.6	J L	54	J L	15.2	J IL	20	ug/L	ML
	1,1,1-Trichloroethane			<20	JU L	25	J L	<20	JU L	20	ug/L	ML
	Trichloroethylene			3570	J L	3660	J L	2840	J L	20	ug/L	ML
II. Monitoring Constituents												
<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May - August 2000 (Cont.)
WELL RWM 15B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107444.7 E 53849	33.35125 Deg N 81.73377 Deg W	150.9 - 125.8 ft msl	368.4000 ft msl	6 " CS		LL
SAMPLE DATE		06/19/00	07/17/00		08/14/00	
FIELD DATA						
<u>Parameter</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	206.300	205.93	206.210	ft msl	
pH		7.5	4.4	5.2	pH	
Sp. Conductance		21	21	21	uS/cm	
Water temperature		20.1	20.7	20.9	deg. C	
Alkalinity as CaCO ₃		2	1	0	mg/L	
Turbidity		.4	.8	.6	NTU	
Volumes purged					well volume	
Sampling code		C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<1	U L	<1	JU L	<1	U	1	ug/L	ML
	1,1-Dichloroethane			<1	U L	<1	JU L	<1	U	1	ug/L	ML
	1,1-Dichloroethylene			<1	U L	<1	JU L	<1	U	1	ug/L	ML
	trans-1,2-Dichloroethylene			<1	U L	<1	JU L	<1	U	1	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<1	U L	<1	JU L	<1	U	1	ug/L	ML
	Tetrachloroethylene			<1	U L	<1	JU L	<1	U	1	ug/L	ML
	1,1,1-Trichloroethane			<1	U L	<1	JU L	<1	U	1	ug/L	ML
+	Trichloroethylene			21.9	J L	20.5	J L	20.8		1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>JUL</u>	<u>CLPEPA</u>	<u>AUG</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha											
	Nonvolatile beta											
	Radium, total alpha-emitting											

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000

WELL RWM 1

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102599.1 E 48575.1	33.332 Deg N 81.738 Deg W	232.3 - 172.3 ft msl	364.7000 ft msl	8 " CS	S	UNK
SAMPLE DATE		09/13/00	10/05/00	11/07/00	12/11/00	
FIELD DATA						
<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>	
Water Elevation	203.2	212.33	181.8	197.9	ft msl	
pH	5	4.8	5	4.9	pH	
Sp. Conductance	38	39	42	42	uS/cm	
Water temperature	23.8	24.4	20.9	16.6	deg. C	
Alkalinity as CaCO ₃	0	0	0	0	mg/L	
Turbidity	8	.9	.9	3.5	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<100	JU L	<2500	U	<1000	U	<1200	U	250	ug/L	EX
	1,1-Dichloroethane	<100	JU L	<2500	U	<1000	U	<1200	U	250	ug/L	EX
	1,1-Dichloroethylene	<100	JU L	<2500	U	<1000	U	<1200	U	250	ug/L	EX
	trans-1,2-Dichloroethylene	<100	JU L	<2500	U	<1000	U	<1200	U	250	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<100	JU L	<2500	U	<1000	U	<1200	U	250	ug/L	EX
+	Tetrachloroethylene	16700	J L	13000	J K	11000		12000		250	ug/L	EX
	1,1,1-Trichloroethane	<100	JU L	<2500	U	<1000	U	<1200	U	250	ug/L	EX
+	Trichloroethylene	9140	J L	7700	J K	10000		8000		250	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	8.29									pCi/L	
	Nonvolatile beta	3.86									pCi/L	
	Radium, total alpha-emitting	3.12									pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)**WELL RWM 3**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>						
N 104730.2 E 49680	33.33844 Deg N 81.73947 Deg W	154 - 144 ft msl	377 ft msl	8 " CS	S	UNK						
SAMPLE DATE		09/12/00	10/05/00	11/08/00	12/11/00							
FIELD DATA												
<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>							
Water Elevation	Not Available	Not Available	209.1	Not Available	ft msl							
pH	4.8	4.9	4.8	5	pH							
Sp. Conductance	47	47	47	47	uS/cm							
Water temperature	24.3	25.4	19.5	16.8	deg. C							
Alkalinity as CaCO3	0	0	0	0	mg/L							
Turbidity	1	.3	1.1	5.2	NTU							
Volumes purged					well volume							
Sampling code	C	C	C	C								
ANALYTICAL DATA												
I. Groundwater Protection Standard												
261 Appendix VIII/264 Appendix IX Hazardous Constituents												
<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<20	U	<500	U	<250	U	<500	U	100	ug/L	EX
	1,1-Dichloroethane	<20	U	<500	U	<250	U	<500	U	100	ug/L	EX
	1,1-Dichloroethylene	<20	U	<500	U	<250	U	<500	U	100	ug/L	EX
	trans-1,2-Dichloroethylene	<20	U	<500	U	<250	U	<500	U	100	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<20	U	<500	U	<250	U	<500	U	100	ug/L	EX
	Tetrachloroethylene	790		940	J K	910		920	J K	100	ug/L	EX
	1,1,1-Trichloroethane	<20	U	<500	U	<250	U	<500	U	100	ug/L	EX
	Trichloroethylene	3150		3300	J K	3600		3300	J K	100	ug/L	EX
II. Monitoring Constituents												
<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	12									pCi/L	pr
	Nonvolatile beta	6.12									pCi/L	pr
	Radium, total alpha-emitting	3.26									pCi/L	pr

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.

+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)**WELL RWM 4**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103719.3 E 48948.2	33.33501 Deg N 81.73943 Deg W	139.90 - 129.5 ft msl	366.5 ft msl	8 " CS	S	M/GC/UL/LL
SAMPLE DATE		09/12/00	10/05/00	11/08/00	12/11/00	
FIELD DATA						
<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>	
Water Elevation	204.5	204.01	203.6	203.5	ft msl	
pH	5	5.2	4.3	5.2	pH	
Sp. Conductance	23	24	24	24	uS/cm	
Water temperature	23.3	22.9	18.9	17.1	deg. C	
Alkalinity as CaCO ₃	0	0	0	0	mg/L	
Turbidity	1.1	.4	.8	2.2	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	JU L	<500	U	<250	U	<500	U	100	ug/L	EX
	1,1-Dichloroethane	<50	JU L	<500	U	<250	U	<500	U	100	ug/L	EX
	1,1-Dichloroethylene	<50	JU L	<500	U	<250	U	<500	U	100	ug/L	EX
	trans-1,2-Dichloroethylene	<50	JU L	<500	U	<250	U	<500	U	100	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	JU L	<500	U	<250	U	<500	U	100	ug/L	EX
	Tetrachloroethylene	1220	J L	1200	J K	1200	J K	1200	J K	100	ug/L	EX
	1,1,1-Trichloroethane	<50	JU L	<500	U	<250	U	<500	U	100	ug/L	EX
	Trichloroethylene	7200	J L	6600	J K	7200	J K	6900	J K	100	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	2.92									pCi/L	
	Nonvolatile beta	2.53	J I								pCi/L	
	Radium, total alpha-emitting	.466	J I								pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.

+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)
WELL RWM 5

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103502.2 E 49628	33.33564 Deg N 81.73721 Deg W	144.30 - 133.9 ft msl	366.9000 ft msl	8 " CS	S	M/GC/UL/LL

SAMPLE DATE 09/12/00 10/05/00 11/08/00 12/11/00

FIELD DATA

<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>
Water Elevation	208.4	208.06	207.4	207.19	ft msl
pH	5	5.1	5	5.1	pH
Sp. Conductance	28	29	28	30	uS/cm
Water temperature	22.8	23.9	19.9	17.8	deg. C
Alkalinity as CaCO3	0	0	0	0	mg/L
Turbidity	1.7	.5	.9	1.8	NTU
Volumes purged		.828			well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<10	U	<250	U	<50	U	<250	U	50	ug/L	EX
	1,1-Dichloroethane	<10	U	<250	U	<50	U	<250	U	50	ug/L	EX
	1,1-Dichloroethylene	<10	U	<250	U	<50	U	<250	U	50	ug/L	EX
	trans-1,2-Dichloroethylene	<10	U	<250	U	<50	U	<250	U	50	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<10	U	<250	U	<50	U	<250	U	50	ug/L	EX
	Tetrachloroethylene	561		610	J K	550		550	J K	50	ug/L	EX
	1,1,1-Trichloroethane	<10	U	<250	U	<50	U	<250	U	50	ug/L	EX
	Trichloroethylene	1540		1600	J K	1700		1600	J K	50	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	3.48									pCi/L	
	Nonvolatile beta	2.73	J I								pCi/L	
	Radium, total alpha-emitting	.887	J I								pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)**WELL RWM 6**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102001.5 E 50107.4	33.33311 Deg N 81.73303 Deg W	151.50 - 141.1 ft msl	349.1000 ft msl	8 " CS	S	M/GC/UL/LL
SAMPLE DATE		09/12/00	10/05/00	11/07/00	12/11/00	
FIELD DATA						
<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>	
Water Elevation	173.2	188.7	157.2	154.6	ft msl	
pH	5.1	5.2	5.2	5.2	pH	
Sp. Conductance	28	30	27	27	uS/cm	
Water temperature	25.2	24.4	21.7	17.3	deg. C	
Alkalinity as CaCO ₃	0	0	0	0	mg/L	
Turbidity	6.5	2.1	2.3	1.4	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<10	U	<250	U	<250	U	<250	U	50	ug/L	EX
	1,1-Dichloroethane	<10	U	<250	U	<250	U	<250	U	50	ug/L	EX
	1,1-Dichloroethylene	<10	U	<250	U	<250	U	<250	U	50	ug/L	EX
	trans-1,2-Dichloroethylene	<10	U	<250	U	<250	U	<250	U	50	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<10	U	<250	U	<250	U	<250	U	50	ug/L	EX
	Tetrachloroethylene	2410		2900	J K	2400		2100	J K	50	ug/L	EX
	1,1,1-Trichloroethane	<10	U	<250	U	<250	U	<250	U	50	ug/L	EX
	Trichloroethylene	2190		2900	J K	2600		2300	J K	50	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	2.01	J I								pCi/L	
	Nonvolatile beta	2.57	J I								pCi/L	
	Radium, total alpha-emitting	.654	J I								pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.

+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)
WELL RWM 7

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101904.6 E 49449.5	33.33182 Deg N 81.73458 Deg W	154.20 - 144.0 ft msl	349 ft msl	8 " CS	S	M/GC/UL/LL

SAMPLE DATE 09/13/00 10/05/00 11/07/00 12/11/00

FIELD DATA

<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>
Water Elevation	207.9	192.97	157.1	192.6	ft msl
pH	5	4.9	4.9	4.9	pH
Sp. Conductance	63	64	63	64	uS/cm
Water temperature	23.1	22.5	21.5	16.9	deg. C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	4.5	.4	4.3	1.5	NTU
Volumes purged		-.03			well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	JU L	<1000	U	<500	U	<500	U	100	ug/L	EX
	1,1-Dichloroethane	<50	JU L	<1000	U	<500	U	<500	U	100	ug/L	EX
	1,1-Dichloroethylene	<50	JU L	<1000	U	<500	U	<500	U	100	ug/L	EX
	trans-1,2-Dichloroethylene	<50	JU L	<1000	U	<500	U	<500	U	100	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	JU L	<1000	U	<500	U	<500	U	100	ug/L	EX
	Tetrachloroethylene	9620	J L	9700	J K	8800		9800	J K	100	ug/L	EX
	1,1,1-Trichloroethane	<50	JU L	<1000	U	<500	U	<500	U	100	ug/L	EX
	Trichloroethylene	5970	J L	7800	J K	7500		8600	J K	100	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	7.41									pCi/L	
	Nonvolatile beta	5.99									pCi/L	
	Radium, total alpha-emitting	2.03									pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)
WELL RWM 8

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101948.2 E 47353.3	33.32849 Deg N 81.74018 Deg W	119.70 - 109.3 ft msl	348.3000 ft msl	8 " CS	S	GC/UL/LL

SAMPLE DATE 09/12/00 10/05/00 11/07/00 12/11/00

FIELD DATA

<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>
Water Elevation	201.6	201.2	200.95	201.5	ft msl
pH	5.1	5.1	5.2	5.2	pH
Sp. Conductance	90	91	88	88	uS/cm
Water temperature	22.8	22.8	21.3	16.5	deg. C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	1.7	2.5	.7	2.9	NTU
Volumes purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<5	U	<120	U	<50	U	<50	U	10	ug/L	EX
	1,1-Dichloroethane	<5	U	<120	U	<50	U	<50	U	10	ug/L	EX
	1,1-Dichloroethylene	<5	U	<120	U	<50	U	<50	U	10	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<120	U	<50	U	<50	U	10	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<5	U	<120	U	<50	U	<50	U	10	ug/L	EX
	Tetrachloroethylene	415		430	J K	440		450	J K	10	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<120	U	<50	U	<50	U	10	ug/L	EX
	Trichloroethylene	772		760	J K	820		800	J K	10	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	2.53									pCi/L	
	Nonvolatile beta	4.71									pCi/L	
	Radium, total alpha-emitting	.466	J I								pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)
WELL RWM 9

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>					
N 104099.8 E 50400	33.33822 Deg N 81.73634 Deg W	143.00 - 132.6 ft msl	380.6000 ft msl	8 " CS	S	M					
SAMPLE DATE		09/12/00	10/05/00	11/07/00	12/11/00						
FIELD DATA											
<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>						
Water Elevation	216.1	215.74	214.8	214.7	ft msl						
pH	5.1	5.4	5.3	5.3	pH						
Sp. Conductance	45	45	44	44	uS/cm						
Water temperature	20.7	23.1	20.3	17.4	deg. C						
Alkalinity as CaCO3	0	1	0	0	mg/L						
Turbidity	1.2	.6	.7	1.6	NTU						
Volumes purged					well volume						
Sampling code	C	C	C	C							
ANALYTICAL DATA											
I. Groundwater Protection Standard											
261 Appendix VIII/264 Appendix IX Hazardous Constituents											
<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene	<1	U	<25	U	<25	U	<25	U	5	ug/L
	1,1-Dichloroethane	<1	U	<25	U	<25	U	<25	U	5	ug/L
	1,1-Dichloroethylene	<1	U	<25	U	<25	U	<25	U	5	ug/L
	trans-1,2-Dichloroethylene	<1	U	<25	U	<25	U	<25	U	5	ug/L
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane	<1	U	<25	U	<25	U	<25	U	5	ug/L
	Tetrachloroethylene	12		14	J IK	18	J I	19	J I	5	ug/L
	1,1,1-Trichloroethane	<1	U	<25	U	<25	U	<25	U	5	ug/L
+	Trichloroethylene	287		320	J K	400		350		5	ug/L
II. Monitoring Constituents											
<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
Radionuclides											
	Gross alpha	5.08									pCi/L
	Nonvolatile beta	2.92	J I								pCi/L
	Radium, total alpha-emitting	2.53									pCi/L

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)
WELL RWM 10

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>						
N 102000.9 E 48244.1	33.33006 Deg N 81.73794 Deg W	137.90 - 127.5 ft msl	355.5 ft msl	8 " CS	S	M						
SAMPLE DATE		09/12/00	10/05/00	11/07/00	12/11/00							
FIELD DATA												
<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>							
Water Elevation	186.6	192.42	195.42	195.3	ft msl							
pH	4.9	5.1	5.1	5.1	pH							
Sp. Conductance	106	107	102	105	uS/cm							
Water temperature	20.8	24.2	21.3	16.7	deg. C							
Alkalinity as CaCO3	0	0	0	0	mg/L							
Turbidity	6.4	2.9	2.5	4.5	NTU							
Volumes purged					well volume							
Sampling code	C	C	C	C								
ANALYTICAL DATA												
I. Groundwater Protection Standard												
261 Appendix VIII/264 Appendix IX Hazardous Constituents												
<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	U	<2500	U	<500	U	<500	U	100	ug/L	EX
	1,1-Dichloroethane	<50	U	<2500	U	<500	U	<500	U	100	ug/L	EX
	1,1-Dichloroethylene	<50	U	<2500	U	<500	U	<500	U	100	ug/L	EX
	trans-1,2-Dichloroethylene	<50	U	<2500	U	<500	U	<500	U	100	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	U	<2500	U	<500	U	<500	U	100	ug/L	EX
+	Tetrachloroethylene	11100		11000		11000		10000		100	ug/L	EX
	1,1,1-Trichloroethane	<50	U	<2500	U	<500	U	<500	U	100	ug/L	EX
+	Trichloroethylene	6180		5800		5600		5300		100	ug/L	EX
II. Monitoring Constituents												
<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	4.15									pCi/L	PR
	Nonvolatile beta	5.61									pCi/L	PR
	Radium, total alpha-emitting	2.3									pCi/L	PR

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.

+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)
WELL RWM 11

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104875 E 50400.2	33.33994 Deg N 81.73785 Deg W	152.20 - 141.9 ft msl	383.3000 ft msl	8 " CS	S	UNK
SAMPLE DATE		09/12/00	10/05/00	11/07/00	12/11/00	
FIELD DATA						
<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>	
Water Elevation	209.1	209.24	209.2	208.85	ft msl	
pH	3.7	4.9	4.8	4.9	pH	
Sp. Conductance	29	30	28	29	uS/cm	
Water temperature	20.4	23.3	20.9	17.9	deg. C	
Alkalinity as CaCO3	0	0	0	0	mg/L	
Turbidity	1.1	.9	.6	1.4	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<5	U	<50	U	<25	U	<50	U	10	ug/L	EX
	1,1-Dichloroethane	<5	U	<50	U	<25	U	<50	U	10	ug/L	EX
	1,1-Dichloroethylene	<5	U	<50	U	<25	U	<50	U	10	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<50	U	<25	U	<50	U	10	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<5	U	<50	U	<25	U	<50	U	10	ug/L	EX
+	Tetrachloroethylene	40.2		46	J IK	41		53		10	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<50	U	<25	U	<50	U	10	ug/L	EX
+	Trichloroethylene	663		720	J K	730		630		10	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	3.99									pCi/L	
	Nonvolatile beta	3.08	J I								pCi/L	
	Radium, total alpha-emitting	1.2	J I								pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)
WELL RWM 12

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106879.2 E 52500.1	33.348 Deg N 81.736 Deg W	179.70 - 159.2 ft msl	359.4000 ft msl	6 " CS/SS	S	UL/LL

<u>SAMPLE DATE</u>	09/14/00	10/05/00	11/07/00	12/11/00
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FIELD DATA

<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>
Water Elevation	210.4	209.79	209.400	209.250	ft msl
pH	4.8	4.7	4.8	4.3	pH
Sp. Conductance	41	42	41	48	uS/cm
Water temperature	21.4	19.2	19.1	15.6	deg. C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	.5	.4	.7	.8	NTU
Volumes purged		.034			well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<10	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	1,1-Dichloroethane	<10	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	1,1-Dichloroethylene	<10	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	trans-1,2-Dichloroethylene	<10	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<10	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	Tetrachloroethylene	<10	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	1,1,1-Trichloroethane	<10	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	Trichloroethylene	1460	J L	1900	J K	1900		1900	J K	50	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	5.42									pCi/L	
	Nonvolatile beta	4.74									pCi/L	
	Radium, total alpha-emitting	3.77									pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)
WELL RWM 13B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105803.3 E 53516.3	33.347 Deg N 81.731 Deg W	138.2 - 113.0 ft msl	336.2000 ft msl	6 " CS		LL
SAMPLE DATE		09/13/00	10/05/00	11/07/00	12/11/00	
FIELD DATA						
<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>	
Water Elevation	200.6	199.17	198.400	196.300	ft msl	
pH	5.3	5.1	5.1	5.2	pH	
Sp. Conductance	20	20	20	19	uS/cm	
Water temperature	20.8	21.7	20.8	16	deg. C	
Alkalinity as CaCO ₃	0	0	0	0	mg/L	
Turbidity	3.8	2.2	1.1	3.8	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<2	JU L	<50	U	<25	U	<25	U	5	ug/L	EX
	1,1-Dichloroethane	<2	JU L	<50	U	<25	U	<25	U	5	ug/L	EX
	1,1-Dichloroethylene	<2	JU L	<50	U	<25	U	<25	U	5	ug/L	EX
	trans-1,2-Dichloroethylene	<2	JU L	<50	U	<25	U	<25	U	5	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<2	JU L	<50	U	<25	U	<25	U	5	ug/L	EX
	Tetrachloroethylene	13.1	J L	<50	U	<25	U	<25	U	5	ug/L	EX
	1,1,1-Trichloroethane	<2	JU L	<50	U	<25	U	<25	U	5	ug/L	EX
+	Trichloroethylene	371	J L	440		470		380		5	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	4.69									pCi/L	
	Nonvolatile beta	3.34									pCi/L	
	Radium, total alpha-emitting	.985	J I								pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.

+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)
WELL RWM 13C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105809.7 E 53502.2	33.347 Deg N 81.732 Deg W	173.4 - 153.3 ft msl	336.4000 ft msl	6 " CS		UL
SAMPLE DATE		09/13/00	10/05/00	11/07/00	12/11/00	
FIELD DATA						
<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	205.29	204.950	204.700	ft msl	
pH	5.3	5.1	5.2	5.2	pH	
Sp. Conductance	28	29	28	28	uS/cm	
Water temperature	21.1	22.2	20.7	15.4	deg. C	
Alkalinity as CaCO ₃	0	0	0	0	mg/L	
Turbidity	4.1	1.7	.6	1.3	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<5	JU L	<50	U	<25	U	<25	U	5	ug/L	EX
	1,1-Dichloroethane	<5	JU L	<50	U	<25	U	<25	U	5	ug/L	EX
	1,1-Dichloroethylene	<5	JU L	<50	U	<25	U	<25	U	5	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU L	<50	U	<25	U	<25	U	5	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<5	JU L	<50	U	<25	U	<25	U	5	ug/L	EX
	Tetrachloroethylene	28.5	J L	14	J I	11	J I	<25	U	5	ug/L	EX
	1,1,1-Trichloroethane	<5	JU L	<50	U	<25	U	<25	U	5	ug/L	EX
	Trichloroethylene	529	J L	610		600		550	J K	5	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	11.6									pCi/L	
	Nonvolatile beta	10.4									pCi/L	
	Radium, total alpha-emitting	2.35									pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)
WELL RWM 14B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>						
N 106362.1 E 53044.7	33.348 Deg N 81.734 Deg W	148.5 - 123.2 ft msl	351.2000 ft msl	6 " CS		LL						
SAMPLE DATE		09/14/00	10/05/00	11/07/00	12/11/00							
FIELD DATA												
<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>							
Water Elevation	208.2	207.86	207.550	207.350	ft msl							
pH	5	4.8	4.2	5	pH							
Sp. Conductance	23	25	24	23	uS/cm							
Water temperature	22.3	18.9	19.4	15.4	deg. C							
Alkalinity as CaCO3	0	0	0	0	mg/L							
Turbidity	1.7	.6	.7	1.1	NTU							
Volumes purged					well volume							
Sampling code	C	C	C	C								
ANALYTICAL DATA												
I. Groundwater Protection Standard												
261 Appendix VIII/264 Appendix IX Hazardous Constituents												
<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<2	JU L	<50	U	<25	U	<50	U	10	ug/L	EX
	1,1-Dichloroethane	<2	JU L	<50	U	<25	U	<50	U	10	ug/L	EX
	1,1-Dichloroethylene	<2	JU L	<50	U	<25	U	<50	U	10	ug/L	EX
	trans-1,2-Dichloroethylene	<2	JU L	<50	U	<25	U	<50	U	10	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<2	JU L	<50	U	<25	U	<50	U	10	ug/L	EX
	Tetrachloroethylene	12.1	J L	<50	U	<25	U	<50	U	10	ug/L	EX
	1,1,1-Trichloroethane	<2	JU L	<50	U	<25	U	<50	U	10	ug/L	EX
	Trichloroethylene	552	J L	560		620		660	J K	10	ug/L	EX
II. Monitoring Constituents												
<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	2.94									pCi/L	PR
	Nonvolatile beta	1.65	J I								pCi/L	PR
	Radium, total alpha-emitting	1.19	J I								pCi/L	PR

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)
WELL RWM 14C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>						
N 106380.8 E 53051.5	33.348 Deg N 81.734 Deg W	193.5 - 173.4 ft msl	351.4000 ft msl	6 " CS		UL						
SAMPLE DATE		09/14/00	10/05/00	11/07/00	12/11/00							
FIELD DATA												
<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>							
Water Elevation	296.6	200.88	257.400	167.000	ft msl							
pH	5.1	4.9	4.9	5.1	pH							
Sp. Conductance	35	36	34	34	uS/cm							
Water temperature	22.3	19	19.5	15.9	deg. C							
Alkalinity as CaCO3	0	0	0	0	mg/L							
Turbidity	.8	5.8	1.3	1.6	NTU							
Volumes purged		.025			well volume							
Sampling code	C	C	C	C								
ANALYTICAL DATA												
I. Groundwater Protection Standard												
261 Appendix VIII/264 Appendix IX Hazardous Constituents												
<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<20	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	1,1-Dichloroethane	<20	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	1,1-Dichloroethylene	<20	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	trans-1,2-Dichloroethylene	<20	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<20	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	Tetrachloroethylene	103	J L	<250	U	<250	U	<250	U	50	ug/L	EX
	1,1,1-Trichloroethane	<20	JU L	<250	U	<250	U	<250	U	50	ug/L	EX
	Trichloroethylene	2590	J L	3300		3100		3100	J K	50	ug/L	EX
II. Monitoring Constituents												
<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	3.51									pCi/L	PR
	Nonvolatile beta	3.2									pCi/L	PR
	Radium, total alpha-emitting	2.94									pCi/L	PR

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September - December 2000 (Cont.)
WELL RWM 15B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>						
N 107444.7 E 53849	33.35125 Deg N 81.73377 Deg W	150.9 - 125.8 ft msl	368.4000 ft msl	6 " CS		LL						
SAMPLE DATE		09/13/00	10/05/00	11/07/00	12/11/00							
FIELD DATA												
<u>Parameter</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>Unit</u>							
Water Elevation	207.1	206.32	205.800	205.700	ft msl							
pH	5.3	5.2	5.2	5.2	pH							
Sp. Conductance	21	21	21	21	uS/cm							
Water temperature	22	20.9	20.2	16.6	deg. C							
Alkalinity as CaCO3	0	0	0	0	mg/L							
Turbidity	10.2	.5	5.3	2.4	NTU							
Volumes purged		.008			well volume							
Sampling code	C	C	C	C								
ANALYTICAL DATA												
I. Groundwater Protection Standard												
261 Appendix VIII/264 Appendix IX Hazardous Constituents												
<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<1	JU L	<5	U	<5	U	<5	U	1	ug/L	EX
	1,1-Dichloroethane	<1	JU L	<5	U	<5	U	<5	U	1	ug/L	EX
	1,1-Dichloroethylene	<1	JU L	<5	U	<5	U	<5	U	1	ug/L	EX
	trans-1,2-Dichloroethylene	<1	JU L	<5	U	<5	U	<5	U	1	ug/L	EX
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<1	JU L	<5	U	<5	U	<5	U	1	ug/L	EX
	Tetrachloroethylene	<1	JU L	<5	U	<5	U	<5	U	1	ug/L	EX
	1,1,1-Trichloroethane	<1	JU L	<5	U	<5	U	<5	U	1	ug/L	EX
	Trichloroethylene	13.2	J L	18		18		20	J K	1	ug/L	EX
II. Monitoring Constituents												
<u>ST</u>	<u>Parameter</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>NOV</u>	<u>CLPEPA</u>	<u>DEC</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
Radionuclides												
	Gross alpha	3.82									pCi/L	PR
	Nonvolatile beta	3.49									pCi/L	PR
	Radium, total alpha-emitting	2.1									pCi/L	PR

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are April 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for April 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF

WELL AMB 4A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104131.6 E 51469.8	33.34 Deg N 81.734 Deg W	126.3 - 121.3 ft msl	380.5 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 03/16/99 09/22/99 02/23/00 07/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	219.0	214.72	217.3	215.78	ft msl
pH	5.7	6.1	5.9	5.9	pH
Sp. Conductance	35	32	34	31	uS/cm
Water temperature	19.9	19.2	18.8	21.5	deg. C
Alkalinity as CaCO3	12	1	4	6	mg/L
Turbidity	2.3	1.5	1.6	1.1	NTU
Volumes purged	2.64	2.62	2.45	2.57	well volume
Sampling code					
Synchronous water level	217.5 (03/29/99)	217.7 (09/22/99)	217.2 (03/23/00)	214.7 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	5.9		5.4		<6.16	U V	4.87	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<7	U	<7	U	<4.45	JU V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<45	U	<7	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<6.24	JU V	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<5	U	<6.47	JU V	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<50	U	<50	U	<100	U	<100	U	< EQL	5	ug/L	EX
	Carbon tetrachloride	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	Chloroethene (Vinyl chloride)	<50	U	<50	U	<25	U	<25	U	< EQL	5	ug/L	EX
	Chloroform	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	1,1-Dichloroethane	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	1,2-Dichloroethane	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	1,1-Dichloroethylene	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	cis-1,2-Dichloroethylene	<25	U	<25	U	4.3	J I	6.1	J IK	NDD	5	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1	U	<1.05	U	<2	JU L	<2	JU L	< EQL	1	ug/L	EX
	Lindane	<.051	U	<.0505	U	<.098	U	<.096	U	< EQL	.960	ug/L	EX
	Methyl methacrylate					<100	U	<100	U	< EQL	5	ug/L	EX
	Phenol	<10.2	U	<10	U	<9.6	JU LQ	<9.3	U	< EQL	.930	ug/L	EX
	Tetrachloroethylene	73.1		58.5		62		67	J K	NDD	5	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	Trichloroethylene	526		429		380		590	J K	NDD	5	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	<210	U	1580		1540		1720		< 4200	2	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<27.8	U V	<31	U V	<200	U	108	J I	NDD	2	ug/L	EX
	Iron, total recoverable	58.9	J I	34.8	J I	<57	U V	16.5	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	6.7	J I	7.4	J I	7.01	J I	5.68	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	965		899		895		921	J K	NDD	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	2080		2030		2290		2240		< 4600	1	ug/L	EX
	Sulfate	691		616		838		1370		< 3000	2	ug/L	EX
	Total organic carbon	863	J I	631	J I	<5000	JU Q	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	438		328		326		307	J L	NDD	1	ug/L	WA
	Total phosphates (as P)	24.2	J I	23.7	J I	<2500	U	1510	J IL	NDD	5	ug/L	EX
Radionuclides													
	Gross alpha	.05	U	.0121	U	.451	J I					pCi/L	
	Nonvolatile beta	.96	U	.357	U	.759	J I					pCi/L	
	Radium, total alpha-emitting	.1	U	0	U	.053	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 4D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>							
N 104154.7 E 51489	33.34 Deg N 81.734 Deg W	233.4 - 213.4 ft msl	380.30 ft msl	4 " PVC	S	M							
SAMPLE DATE	03/16/99	09/22/99	02/23/00	08/29/00									
FIELD DATA													
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>								
Water Elevation	231.1	229.900	229.720	227.900	ft msl								
pH	4.9	5.4	5.3	5.1	pH								
Sp. Conductance	33	28	29	23	uS/cm								
Water temperature	20.8	19.5	19.4	20.5	deg. C								
Alkalinity as CaCO3	2	1	3	4	mg/L								
Turbidity	1.5	1.2	.8	3.7	NTU								
Volumes purged	2.24	4.25	2.71	3.36	well volume								
Sampling code													
Synchronous water level	232.3 (03/29/99)	230.5 (09/22/99)	229.6 (03/23/00)	227.6 (09/27/00)	ft msl								
ANALYTICAL DATA													
I. Groundwater Protection Standard													
261 Appendix VIII/264 Appendix IX Hazardous Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<3.48	JU	< EQL	1	ug/L	EX
	Barium, total recoverable	6.5		4.9		<4.42	U V	3.43	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<.93	JU	<7	U	<3.75	JU V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<.45	U	<.7	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<5	U	<4.35	JU V	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	6.06	J I	<10	U	<20	JU L	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<25	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1	U	<1.05	U	<.2	U	<.2	JU L	< EQL	1	ug/L	EX
	Lindane	<.051	U	<.0505	U	<.097	U	<.094	U	< EQL	.940	ug/L	EX
	Methyl methacrylate					<20	JU L	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10	U	<9.7	JU Q	<9.3	JU Q	< EQL	.930	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU L	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	24.9		7.37		7.6	J L	<5	U	< EQL	1	ug/L	EX
II. Monitoring Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2230		1730		1440		1560		< 4200	1	ug/L	EX
	Cyanide	2.16	J I	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<20.5	U V	<20.8	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	275		166		<33.5	U V	<22.1	U V	< EQL	1	ug/L	EX
	Manganese, total recoverable	22.1		17.6		12.3		11.4		< 50	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1630		1390		1100		951	J I	NDD	10	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	4310		4090		4460		3140		< 4600	1	ug/L	EX
	Sulfate	1400		2560		1750		1510		< 3000	1	ug/L	EX
	Total organic carbon	371	J I	358	J I	<5000	JU Q	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	22	J I	16.8	J I	19.2	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	7	J I	22	J I	<2500	U	<5000	U	< EQL	10	ug/L	EX
Radionuclides													
	Gross alpha	7.28	J K	1.99	J I	3.14						pCi/L	
	Nonvolatile beta	2.6	J I	1.16	U	1.69	J I					pCi/L	
	Radium, total alpha-emitting	3.81		2.2		1.81						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)**WELL AMB 5**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104083.4 E 51467.2	33.34 Deg N 81.734 Deg W	242.1 - 222.1 ft msl	379.60 ft msl	4 " PVC	S	M

SAMPLE DATE 03/16/99 02/23/00 09/28/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.6	<i>Not Available</i>	230.21	228.1	ft msl
pH	5.1		5.2	5.4	pH
Sp. Conductance	44		31	38	uS/cm
Water temperature	19.2		19.5	19.8	deg. C
Alkalinity as CaCO3			2	8	mg/L
Turbidity	1.7		1.4	.3	NTU
Volumes purged	4.90		5.20	13.1	well volume
Sampling code					
Synchronous water level	233.1 (03/29/99)	231 (09/22/99)	230.1 (03/23/00)	228.2 (09/27/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U			<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	6.7				<4.62	U V	6.6	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<.92	JU			<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U			<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<.45	U			<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U			<9.29	JU V	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U			<20	U	<3.53	JU	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U			<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U			<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U			<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U			<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U			<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U			<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U			<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U			<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<25	U			<5	U	1.3	J IK	NDD	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1	U			<.2	U	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.051	U			<.1	U	<.096	U	< EQL	.960	ug/L	EX
	Methyl methacrylate					<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U			<9.8	JU LQ	<9.5	U	< EQL	.950	ug/L	EX
	Tetrachloroethylene	<5	U			<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U			<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	18.2				5.7		12	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2850				1750		2560		< 4200	1	ug/L	EX
	Cyanide	<15.2	U			<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<19.6	U V			<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	126				<23.4	U V	<54	U V	< EQL	1	ug/L	EX
	Manganese, total recoverable	8.7				5.95	J I	8.44	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	1700				1360		4010		> 2400	5	ug/L	EX
	Selenium, total recoverable	<66	U			<10	U	6.58	J I	NDD	1	ug/L	EX
+	Sodium, total recoverable	7280				5040		5370		> 4600	1	ug/L	EX
	Sulfate	4570				2190		1510		< 3000	1	ug/L	EX
	Total organic carbon	1300				<5000	JU Q	5700		< 10000	1	ug/L	EX
	Total organic halogens	42.8	J I			21.7	J I	36.8	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	<67	U			<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	4.61	J K			3.46						pCi/L	
	Nonvolatile beta	1.56	J I			2.52						pCi/L	
	Radium, total alpha-emitting	2.15	J I			1.75						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)**WELL AMB 6**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104034.1 E 51466	33.34 Deg N 81.733 Deg W	242.6 - 222.6 ft msl	377.20 ft msl	4 " PVC	S	M
SAMPLE DATE		03/11/99	08/31/99	02/23/00		
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	231.9	231.15	230.32	Not Available	ft msl	
pH	5.4	5.3	5.8		pH	
Sp. Conductance	33	36	35		uS/cm	
Water temperature	19.1	20.3	20.2		deg. C	
Alkalinity as CaCO ₃	4	7	8		mg/L	
Turbidity	2.1	1.8	1.7		NTU	
Volumes purged	3.37	2.56	3.04		well volume	
Sampling code						
Synchronous water level	232.2 (03/29/99)	231.1 (09/22/99)	230.1 (03/23/00)	228.5 (09/27/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U					ug/L	
	Barium, total recoverable	2.3		4.2		<2.14	U	V				ug/L	
	Chromium, total recoverable	<7	U	<7	U	<10	U					ug/L	
	Lead, total recoverable	17.8	J I	<47	U	15.1						ug/L	
	Mercury, total recoverable	<45	U	<7	JU L	<5	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<9.72	JU	V				ug/L	
	Silver, total recoverable	<5	U	<5	U	<20	U					ug/L	
Organics													
	Acetone	<10	U	<10	U	<20	U					ug/L	
	Carbon tetrachloride	<5	U	<5	U	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	U					ug/L	
	Chloroform	<5	U	<5	U	<5	U					ug/L	
	1,1-Dichloroethane	<5	U	<5	U	<5	U					ug/L	
	1,2-Dichloroethane	<5	U	<5	U	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U	<5	U	<5	U					ug/L	
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U					ug/L	
	cis-1,2-Dichloroethylene	<25	U	<5	U	<5	U					ug/L	
	2,4-Dichlorophenoxyacetic acid	<1.05	U	<1.05	U	<2	U					ug/L	
	Lindane	<0.051	U	<0.052	U	<.095	U					ug/L	
	Methyl methacrylate					<20	U					ug/L	
	Phenol	<10.2	U	<10	U	<9.4	JU	LQ				ug/L	
	Tetrachloroethylene	<5	U	<5	U	<5	U					ug/L	
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U					ug/L	
	Trichloroethylene	<5	U	<5	U	<5	U					ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2040		2420		1470						ug/L	
	Cyanide	<15.2	U	<15.2	U	<10	U					ug/L	
	Fluoride	<22.2	U V	<10.2	U V	<200	U					ug/L	
	Iron, total recoverable	99.7		62.2	J I	208						ug/L	
	Manganese, total recoverable	2.5	J I	3.2	J I	2.48	J I					ug/L	
	Nitrate-nitrite as nitrogen	860		520		820						ug/L	
	Selenium, total recoverable	<66	U	<66	U	<10	U					ug/L	
	Sodium, total recoverable	5300		6230		7030						ug/L	
	Sulfate	2840		3960		4010						ug/L	
	Total organic carbon	1360		<219	U V	<5000	JU	Q				ug/L	
	Total organic halogens	<120	U	<120	U	13.5	J I					ug/L	
	Total phosphates (as P)	9.66	J I	8.25	J I	<2500	U					ug/L	
Radionuclides													
	Gross alpha	2.06	J I	1.08	U V	.687	J I					pCi/L	
	Nonvolatile beta	.93		1.14	U	1.2	J I					pCi/L	
	Radium, total alpha-emitting	.25	U	.9	J I	-.038	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)**WELL AMB 8D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103874.7 E 51400.5	33.339 Deg N 81.733 Deg W	240.8 - 220.8 ft msl	369.60 ft msl	4 " PVC	S	M
SAMPLE DATE		02/05/99	08/28/99	02/14/00	09/14/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	231.3	231.13	230.51	228.7	ft msl	
pH	5.6	5.6	5.3	5.7	pH	
Sp. Conductance	29	33	37	34	uS/cm	
Water temperature	18.9	22.1	20.6	23.6	deg. C	
Alkalinity as CaCO ₃	6	5	7	4	mg/L	
Turbidity	1	.9	1	2.5	NTU	
Volumes purged	18.9	3.04	2.75	5.42	well volume	
Sampling code						
Synchronous water level	231.8 (03/26/99)	230.9 (09/22/99)	230.1 (03/23/00)	228.4 (09/27/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	3.6		<4.9	U V	<3.22	U V	3.03	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<7	U	1.8	J I	<3.45	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<45	U	<.71	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<1.1	U V	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	JU Q	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.05	U	<1.05	U	<.2	JU L	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.0525	U	<.0545	U	<.099	U	<.1	JU L	< EQL	1.04	ug/L	EX
	Methyl methacrylate					<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	JU Q	<10	U	<9.6	U	<11	U	< EQL	1.06	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	JU Q	1.1	J I	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2300		2590		2370		2440		< 4200	1	ug/L	EX
	Cyanide	1.54	J I	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<32	U V	<32.6	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	<53.6	U V	278		<339	U V	227		< 300	1	ug/L	EX
	Manganese, total recoverable	1.4	J I	3.6	J I	<3.49	U V	1.35	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	700		627		508		632		< 2400	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
+	Sodium, total recoverable	4070		4960		6810		6340		> 4600	1	ug/L	EX
	Sulfate	1500		1910		2730		2840		< 3000	1	ug/L	EX
	Total organic carbon	643	J I	673	J I	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	U	13.1	J I	33.3	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	263		20.4	J I	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	4.54		2.34	J K	4.36						pCi/L	
	Nonvolatile beta	4.03		1.25	U	2.15	J I					pCi/L	
	Radium, total alpha-emitting	1.66	J I	.8	J I	.656	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)**WELL AMB 9D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103585.2 E 51263	33.338 Deg N 81.733 Deg W	239.7 - 219.7 ft msl	367.90 ft msl	4 " PVC	S	M

SAMPLE DATE	02/05/99	08/31/99	02/14/00	09/14/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.3	230.85	230.43	228.65	ft msl
pH	5.8	4.9	5.3	5.6	pH
Sp. Conductance	42	42	43	45	uS/cm
Water temperature	17.9	18.4	18.7	22.4	deg. C
Alkalinity as CaCO3	29	0	8	5	mg/L
Turbidity	2.4	.8	.9	1	NTU
Volumes purged	16.7	4.04	3.76	5.57	well volume
Sampling code					
Synchronous water level	231.7 (03/26/99)	230.8 (09/22/99)	229.9 (03/23/00)	228.3 (09/27/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	4.4	J I	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	2.6		2.8		<2.77	U V	2.58	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<2.2	U V	<1.4	JU I	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<45	U	<.7	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<2.5	U V	<.5	U	<6.34	JU	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	JU Q	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<.5	U	<.5	JU Q	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	JU Q	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Chloroform	<.5	U	<.5	JU Q	<.5	U	<.5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<.5	U	<.5	JU Q	<.5	U	<.5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<.5	U	<.5	JU Q	<.5	U	<.5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<.5	U	<.5	JU Q	<.5	U	<.5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<.5	U	<.5	JU Q	<.5	U	<.5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<.5	U	<.5	JU Q	<.5	U	<.5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.04	U	<1.05	U	<.2	JU L	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.0525	U	<.0555	U	<.098	U	<.095	JU L	< EQL	.950	ug/L	EX
	Methyl methacrylate	<10.2	U			<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10	U	<10	U	<9.5	U	< EQL	.950	ug/L	EX
	Tetrachloroethylene	<.5	U	<.5	JU Q	<.5	U	<.5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<.5	U	<.5	JU Q	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<.5	U	<.5	JU Q	<.5	U	<.5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2840		2840		2510		2850		< 4200	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<22.2	U V	<37.7	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	84.5		24.2	J I	<115	U V	61.7	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	2.2	J I	1.9	J I	<2.75	U V	1.07	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	143		117		<500	U	217	J I	NDD	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
+	Sodium, total recoverable	7820		7710		9760		8920		> 4600	1	ug/L	EX
+	Sulfate	6490		5380		4800		5330		> 3000	1	ug/L	EX
	Total organic carbon	1720				<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	U	20.1	J I	33.3	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	<67	U	<67	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	1.22	U	1.1	U V	.681	U					pCi/L	
	Nonvolatile beta	.51	U	.573	U	.924	U					pCi/L	
	Radium, total alpha-emitting	1.24	J I	.9	J I	.693	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)**WELL AMB 10A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103326.4 E 51410	33.338 Deg N 81.732 Deg W	111.4 - 106.4 ft msl	366.5 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	02/08/99	08/31/99	02/14/00	09/12/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	217.3	216.78	216.82	215.15	ft msl
pH	6.4	6.6	8.2	7	pH
Sp. Conductance	84	83	80	76	uS/cm
Water temperature	19	21	19	21.5	deg. C
Alkalinity as CaCO3	30	27	24	17	mg/L
Turbidity	3.3	4.1	2.6	.8	NTU
Volumes purged	.399	0	.014	2.27	well volume
Sampling code	NX	NX	NX		
Synchronous water level	217.6 (03/26/99)	216.8 (09/22/99)	216.7 (03/23/00)	()	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	12.9		10.9		12.1		10.2		< 2000	1	ug/L	EX
	Chromium, total recoverable	<1.9	U V	<7	U	<4.99	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<45	U	<7	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<9.81	U V	< EQL	1	ug/L	EX
	Silver, total recoverable	<1.9	U V	<5	U	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	JU Q	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	JU Q	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene			<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.02	U	<1.05	U	<2	JU L	<2	U	< EQL	1	ug/L	EX
	Lindane	<.0525	U	<.0545	U	<.096	U	<.094	U	< EQL	.940	ug/L	EX
	Methyl methacrylate					<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.4	U	<10	U	<9.7	U	<9.6	U	< EQL	.960	ug/L	EX
	Tetrachloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2170		2050		1830		2260		< 4200	1	ug/L	EX
	Cyanide	1.54	J I	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<27.5	U V	<35.6	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	<65.5	U V	124		<62	U V	<13.7	U V	< EQL	1	ug/L	EX
	Manganese, total recoverable	5.5	J I	6.8	J I	<4.46	U V	6.64	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	268		270		<500	U	294	J I	NDD	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
+	Sodium, total recoverable	4760		4910		7170		4840		> 4600	1	ug/L	EX
+	Sulfate	3500		3700		5510		3640		> 3000	1	ug/L	EX
	Total organic carbon	2200		<129	U V	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	U	16.3	J I	19.4	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	20.8	J I	9.98	J I	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	.44	U V	.0302	U	.457	U					pCi/L	
	Nonvolatile beta	2.76		1.08	U	2.18	J I					pCi/L	
	Radium, total alpha-emitting	1.01	J I	.2	U	.039	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

**Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 10B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>							
N 103337.3 E 51418.3	33.338 Deg N 81.732 Deg W	154.3 - 149.3 ft msl	366.40 ft msl	4 " PVC	S	LL							
SAMPLE DATE	02/17/99	08/31/99	02/14/00	09/12/00									
FIELD DATA													
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>								
Water Elevation	222.6	221.38	221.43	219.75	ft msl								
pH	5.4	6.6	5.5	6	pH								
Sp. Conductance	34	39	34	38	uS/cm								
Water temperature	19.6	20.6	18.5	21	deg. C								
Alkalinity as CaCO3	7	10	3	10	mg/L								
Turbidity	.2	.5	.3	.8	NTU								
Volumes purged	2.67	0	2.61	3.45	well volume								
Sampling code													
Synchronous water level	222.3 (03/26/99)	221.6 (09/22/99)	221.3 (03/23/00)	219.8 (09/27/00)	ft msl								
ANALYTICAL DATA													
I. Groundwater Protection Standard													
261 Appendix VIII/264 Appendix IX Hazardous Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	9.47		9.9		8.51	J I	13.4		< 2000	1	ug/L	EX
	Chromium, total recoverable	<7	U	<7	U	<3.1	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<.45	U	<.7	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<5.71	U V	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<5	U	<6.3	JU	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.02	U	<1.05	U	<.2	JU L	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.051	U	<.0545	U	<.096	U	<.094	U	< EQL	.940	ug/L	EX
	Methyl methacrylate	<10.2	U			<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10	U	<9.8	U	<11	U	< EQL	1.05	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
II. Monitoring Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	3520		3350		2900		3570		< 4200	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<15.1	U V	<28.5	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	<9.1	U V	8.8	J I	<6.29	U V	<16.5	U V	< EQL	1	ug/L	EX
	Manganese, total recoverable	4.9	J I	4.4	J I	<4.91	U V	4.47	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	231		239		<500	U	310	J I	NDD	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
+	Sodium, total recoverable	4250		4400		4950		5340		> 4600	1	ug/L	EX
	Sulfate	1010		1060		1370		1600		< 3000	1	ug/L	EX
	Total organic carbon	1050		<115	U V	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	28.7	J I	23.8	J I	38.2	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	9.34	J I	<67	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	.53	J I	.013	U	.285	U					pCi/L	
	Nonvolatile beta	-.09	U	.542	U	.575	U					pCi/L	
	Radium, total alpha-emitting	.23	U	.1	U	.072	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 10D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>							
N 103293.4 E 51456	33.338 Deg N 81.732 Deg W	239.4 - 219.4 ft msl	365.5 ft msl	4 " PVC	S	M							
SAMPLE DATE	02/17/99	08/28/99	02/14/00	09/12/00									
FIELD DATA													
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>								
Water Elevation	232.9	232.02	231.12	229.35	ft msl								
pH	5.2	5.9	5.4	5.7	pH								
Sp. Conductance	40	46	42	45	uS/cm								
Water temperature	19.8	21.6	18.4	19.7	deg. C								
Alkalinity as CaCO3	8	10	3	7	mg/L								
Turbidity	.4	.8	1.9	1.5	NTU								
Volumes purged	4.98	9.03	5.87	7.90	well volume								
Sampling code													
Synchronous water level	232.6 (03/26/99)	231.6 (09/22/99)	230.9 (03/23/00)	NDD(189.1) (09/27/00)	ft msl								
ANALYTICAL DATA													
I. Groundwater Protection Standard													
261 Appendix VIII/264 Appendix IX Hazardous Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	5.99		<4.8	U V	14.4		3.33	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<.91	JU	<7	U	<3.79	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<1.75	JU	< EQL	1	ug/L	EX
	Mercury, total recoverable	<.45	U	<.71	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<5.49	U V	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<.65	U V	<6.34	JU	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	JU Q	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.02	U	<1.05	U	<.2	JU L	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.051	U	<.0545	U	<.099	U	<.092	U	< EQL	.920	ug/L	EX
	Methyl methacrylate	<10.2	U			<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10	U	<9.8	U	<9.4	U	< EQL	.940	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
II. Monitoring Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	3170		2980		2650		3030		< 4200	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<22.9	U V	<30.1	U V	<200	U	53	J I	NDD	1	ug/L	EX
	Iron, total recoverable	49	J I	<45.7	U V	<101	U V	88.6	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	2.8	J I	2.1	J I	<3.41	U V	1.77	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	66		80		<500	U	119	J I	NDD	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
+	Sodium, total recoverable	8060		8440		8980		8940		> 4600	1	ug/L	EX
+	Sulfate	4160		4450		4270		5230		> 3000	1	ug/L	EX
	Total organic carbon	425	J I	873	J I	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	U	25.5	J I	48.3	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	11	J I	7.28	J I	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	.81	J I	.0639	U	.978	J I					pCi/L	
	Nonvolatile beta	.74	U	-.207	U	.857	U					pCi/L	
	Radium, total alpha-emitting	.97	U V	.3	J I	.25	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 16D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104268.8 E 51557.5	33.34 Deg N 81.734 Deg W	233.4 - 213.4 ft msl	380.40 ft msl	2 " PVC	V	M

SAMPLE DATE 03/10/99 09/02/99 02/16/00 09/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.0	232.9	230.12	228.6	ft msl
pH	4.7	4.8	5.1	4.7	pH
Sp. Conductance	21	25	24	30	uS/cm
Water temperature	20.5	22.3	19.5	23	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.2	.4	.7	.4	NTU
Volumes purged	4.00	3.81	10.0	10.6	well volume
Sampling code					
Synchronous water level	231.7 (03/26/99)	230.9 (09/22/99)	230 (03/23/00)	228.2 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	4.6		4		<4.35	U V	3.64	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	1.3	J I	1.7	J I	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	27.8	J I	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<45	U	<.7	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<7.83	JU V	<11.2	JU	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<5	U	<4.21	U V	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	JU Q	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<25	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.05	U	<1.05	U	<.2	JU Q	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.051	U	<.0555	U	<.094	U	<.094	U	< EQL	.940	ug/L	EX
	Methyl methacrylate					<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.4	U	<10	U	<9.9	JU Q	<9.6	U	< EQL	.960	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	1.54	J I	2.13	J IQ	3.1	J I	1.6	J IK	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	1770		2040		1490		1620		< 4200	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	JU Q	< EQL	1	ug/L	EX
	Fluoride	<24.1	U V	<32	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	18.3	J I	45.5	J I	<5.25	U V	46.3	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	5	J I	4.1	J I	4.46	J I	4.67	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	903		1400		1320		1280		< 2400	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	1690		2920		3380		2580		< 4600	1	ug/L	EX
	Sulfate	373		414		768	J I	981		< 3000	1	ug/L	EX
	Total organic carbon	802	J I	219	J IQ	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	U	16.3	J I	26.9	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	9.66	J I	22.1	J I	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	6.35		4.02		4.07						pCi/L	
	Nonvolatile beta	1.38	U	2.41		2.79						pCi/L	
	Radium, total alpha-emitting	2.72	J I	1.8	J I	1.6						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 17A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>		<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104056.7 E 51465.4	33.34 Deg N 81.733 Deg W	125 - 120	ft msl	379.10 ft msl	4 " PVC	S	MCBC
SAMPLE DATE		03/16/99	09/22/99	02/23/00	09/28/00		
FIELD DATA							
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>		
Water Elevation	218.8	217.390	217.030	214.050	ft msl		
pH	5	5	4.8	5.3	pH		
Sp. Conductance	20	18	20	20	uS/cm		
Water temperature	19.2	19.3	18.8	19.6	deg. C		
Alkalinity as CaCO3		0	1	7	mg/L		
Turbidity	.5	1.1	.4	1.4	NTU		
Volumes purged	2.33	2.72	2.34	2.90	well volume		
Sampling code							
Synchronous water level	217.7 (03/29/99)	217.4 (09/22/99)	216.8 (03/23/00)	214.5 (09/27/00)	ft msl		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	3.2		2.7		<3.28	U V	3.47	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<7	U	<1.1	JU I	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<.45	U	<.08	U V	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<5	U	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<20	U	<20	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<10	U	<10	U	<5	U	3.5	J IK	NDD	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<20	U	<20	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<10	U	<10	U	<5	U	2.6	J IK	NDD	1	ug/L	EX
	1,1-Dichloroethane	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<50	U	3.12	J I	3.8	J I	2.3	J IK	NDD	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1	U	<1.05	U	<2	U	<2	U	< EQL	1	ug/L	EX
	Lindane	<.051	U	<.0505	U	<.098	U	<.096	U	< EQL	.960	ug/L	EX
	Methyl methacrylate	<10.2	U			<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10	U	<9.7	JU Q	<9.5	U	< EQL	.950	ug/L	EX
	Tetrachloroethylene	26		26.3		25		29	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	208		176		170		51	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2040		1710		1560		1580		< 4200	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<22	U V	<24.5	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	27.2	J I	22	J I	<54.1	U V	33.2	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	7.1	J I	6.5	J I	7.01	J I	4.62	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	857		926		838		2570		> 2400	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	8.65	J I	NDD	1	ug/L	EX
	Sodium, total recoverable	1700		1680		1870		1740		< 4600	1	ug/L	EX
	Sulfate	487		452		<636	U	991		< 3000	1	ug/L	EX
	Total organic carbon	846	J I	395	J I	<5000	JU Q	5200		< 10000	1	ug/L	EX
	Total organic halogens	167				148		86.6	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	8.72	J I	22	J I	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	.38	U	.122	U	.0614	U					pCi/L	
	Nonvolatile beta	.46	U	.497	U	.217	U					pCi/L	
	Radium, total alpha-emitting	.48	U	-.1	U	.055	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 18A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>		<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>						
N 103988.8 E 51418.8	33.34 Deg N 81.733 Deg W	136.4 - 131.4 ft msl		377.30 ft msl	4 " PVC	S	MCBC						
SAMPLE DATE		03/11/99	09/23/99	02/23/00	09/28/00								
FIELD DATA													
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>								
Water Elevation	218.9	217.210	216.960	213.900	ft msl								
pH	4.8	5.2	4.5	5.5	pH								
Sp. Conductance	25	21	23	24	uS/cm								
Water temperature	18.4	19.3	18.7	20	deg. C								
Alkalinity as CaCO3	1	0	1	7	mg/L								
Turbidity	.4	.7	.2	1	NTU								
Volumes purged	2.63	2.59	2.64	2.83	well volume								
Sampling code													
Synchronous water level	218.1 (03/26/99)	217.2 (09/22/99)	216.8 (03/23/00)	214.5 (09/27/00)	ft msl								
ANALYTICAL DATA													
I. Groundwater Protection Standard													
261 Appendix VIII/264 Appendix IX Hazardous Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	5.7		5.4		44.7		6.42	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<7	U	2.4	J I	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<.45	U	<.7	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<6.24	JU V	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<5	U	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	2.7	J I	2.05	J I	2.2	J I	2	J IK	NDD	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.05	U	<1.39	U	<.2	U	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.051	U	<.066	U	<.096	U	<.096	U	< EQL	.960	ug/L	EX
	Methyl methacrylate	<10.2	U			<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<13.2	JU Q	<9.6	JU Q	<9.5	U	< EQL	.950	ug/L	EX
	Tetrachloroethylene	<5	U	2.36	J I	4.6	J I	3.9	J IK	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	27.8		19.3		24		21	J K	NDD	1	ug/L	EX
II. Monitoring Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2380		2310		2220		2350		< 4200	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<22.8	U V	<21.5	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	11.7	J I	197		<11.7	U V	<200	U	< EQL	1	ug/L	EX
	Manganese, total recoverable	3.3	J I	4.9	J I	4.88	J I	3.26	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	790		795		<734	U	<2360	U	< EQL	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	1920		1900		2310		2130		< 4600	1	ug/L	EX
	Sulfate	442		432		<555	U	<968	U	< EQL	1	ug/L	EX
	Total organic carbon	637	J I	<1000	U	<5000	JU Q	7000		< 10000	1	ug/L	EX
	Total organic halogens	25	J I	38.5	J I	29.8	J I					ug/L	
	Total phosphates (as P)	19.8	J I	6.99	J I	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	.72	U	.106	U	.838	J I					pCi/L	
	Nonvolatile beta	-.45	U	.482	U	.827	U					pCi/L	
	Radium, total alpha-emitting	1.01	J I	0	U	-.081	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 18C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>							
N 103983.4 E 51432.8	33.34 Deg N 81.733 Deg W	214.2 - 209.2 ft msl	376 ft msl	2 " PVC	V	UL							
SAMPLE DATE	02/16/99	08/28/99	02/15/00	09/21/00									
FIELD DATA													
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>								
Water Elevation	231.7	230.9	229.9	228.39	ft msl								
pH	4.9	5.2	4.1	5.4	pH								
Sp. Conductance	16	20	20	20	uS/cm								
Water temperature	19.8	21.4	19.3	20.8	deg. C								
Alkalinity as CaCO3	2	3	0	1	mg/L								
Turbidity	2.7	3.8	4.3	2.5	NTU								
Volumes purged	5.49	7.69	7.77	10.3	well volume								
Sampling code													
Synchronous water level	231.6 (03/26/99)	230.7 (09/22/99)	229.7 (03/23/00)	228.1 (09/27/00)	ft msl								
ANALYTICAL DATA													
I. Groundwater Protection Standard													
261 Appendix VIII/264 Appendix IX Hazardous Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	3.7		<4.1	U V	4.25	J I	4.98	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<.85	JU	<.96	JU I	<10	U	<10	U	< EQL	1	ug/L	EX
+	Lead, total recoverable	6.9	J I	<47	U	15.7		31.4		> 15	1	ug/L	EX
	Mercury, total recoverable	<.45	U	<.71	U	<.5	U	<.5	JU L	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<6.96	U V	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<1.1	U V	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	JU Q	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.02	JU L	<1.05	U	<.2	JU L	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.0545	U	<.055	U	<.097	U	<.1	U	< EQL	1	ug/L	EX
	Methyl methacrylate	<10.2	U			<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10	U	<9.6	JU Q	<10	JU Q	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
II. Monitoring Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	1700		1710		1600		1740		< 4200	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<23	U V	<28.3	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	140		116		<185	U V	105	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	7.5	J I	7.6	J I	8.65	J I	9.5	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	678		763		<702	U	<777	U	< EQL	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	1970		1960		2370		2540		< 4600	1	ug/L	EX
	Sulfate	1170		629		<969	U	<1260	U	< EQL	1	ug/L	EX
	Total organic carbon	1340		3560		<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	U	16.7	J I	26.1	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	21.1	J I	8.92	J I	<2500	U	<2500	JU L	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	.83	J IK	1.39	J IK	2.32	J I					pCi/L	
	Nonvolatile beta	.85	U	.676	U	.709	U					pCi/L	
	Radium, total alpha-emitting	1.73	J I	.3	J I	.402	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 19C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>							
N 102941.1 E 51503.7	33.337 Deg N 81.731 Deg W	196.7 - 191.7 ft msl	363.70 ft msl	2 " PVC	V	UL							
SAMPLE DATE	02/09/99	08/31/99	02/15/00	09/25/00									
FIELD DATA													
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>								
Water Elevation	228.9	228.08	227.34	226	ft msl								
pH	5.1	5.8	5	5.6	pH								
Sp. Conductance	48	47	46	45	uS/cm								
Water temperature	19.3	19.3	18.3	19.7	deg. C								
Alkalinity as CaCO3	9	13	2	7	mg/L								
Turbidity	.6	.6	.5	.8	NTU								
Volumes purged	7.26	3.21	5.00	3.05	well volume								
Sampling code													
Synchronous water level	229.1 (03/26/99)	228.1 (09/22/99)	327.3 (03/23/00)	225.9 (09/27/00)	ft msl								
ANALYTICAL DATA													
I. Groundwater Protection Standard													
261 Appendix VIII/264 Appendix IX Hazardous Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	<1.4	U V	2.2		<1.8	U V	.71	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<7	U	<7	U	<7.24	U V	<5.62	JU	< EQL	1	ug/L	EX
+	Lead, total recoverable	<47	U	<47	U	98.8		28.6		> 15	1	ug/L	EX
	Mercury, total recoverable	<.45	U	<.7	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<10.8	JU	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<5	U	<5.33	JU	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.04	U	<1.05	U	<.2	JU L	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.0505	U	<.051	U	<.095	JU Q	<.092	U	< EQL	.920	ug/L	EX
	Methyl methacrylate					<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10	U	<9.8	JU Q	<9.6	U	< EQL	.960	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
II. Monitoring Constituents													
<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2430		2250		2060		2310		< 4200	1	ug/L	EX
	Cyanide	<15.2	U	2.5	J I	<10	U	<10	JU Q	< EQL	1	ug/L	EX
	Fluoride	<21.8	U V	<24.5	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	<73.8	U V	19.6	J I	<35.8	U V	53.7	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	<7.8	U	<7.8	U	<1.22	U V	<10	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	68		71		<500	U	194	J I	NDD	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
+	Sodium, total recoverable	8970		9160		10300		9100		> 4600	1	ug/L	EX
+	Sulfate	6750		6160		5160		4790		> 3000	1	ug/L	EX
	Total organic carbon	1130		<215	U V	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	JU Q	26.1	J I	39	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	14.1	J I	9.98	J I	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	-.24	U	.425	U	.176	U					pCi/L	
	Nonvolatile beta	.5	U	.756	U	.636	U					pCi/L	
	Radium, total alpha-emitting	.12	U	-.1	U	-.036	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF

WELL AMB 11D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103132.3 E 51932.6	33.339 Deg N 81.73 Deg W	240.5 - 220.5 ft msl	364 ft msl	4 " PVC	S	M

SAMPLE DATE 02/12/99 08/30/99 02/16/00 09/12/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	233.5	232.49	231.37	230	ft msl
pH	5.9	5.7	5.9	6	pH
Sp. Conductance	38	41	44	43	uS/cm
Water temperature	17.8	19.5	18.4	20	deg. C
Alkalinity as CaCO3	12	1	8	6	mg/L
Turbidity	11.1	4.3	1.1	1.2	NTU
Volumes purged	15.0	13.7	10.8	27.5	well volume
Sampling code					
Synchronous water level	233.3 (03/26/99)	232.3 (09/22/99)	231.2 (03/23/00)	229.8 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<4.4	JU	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	4.7		4.6		<5.76	U V	3.15	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<7	U	<.89	JU I	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<.45	U	<.7	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<9.87	JU V	<6.47	U V	< EQL	1	ug/L	EX
	Silver, total recoverable	<.73	U V	<.5	U	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.02	U	<1.05	U	<.2	U	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.0545	U	<.0505	U	<.099	U	<.093	U	< EQL	.930	ug/L	EX
	Methyl methacrylate					<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.4	U	<10	U	<9.9	JU Q	<9.4	U	< EQL	.940	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2750		2490		2240		2470		< 4200	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<51.4	U V	<38.6	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	159		211		<16.2	U V	<8.38	U V	< EQL	1	ug/L	EX
	Manganese, total recoverable	2.8	J I	2.3	J I	1.28	J I	<10	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	167		225		<500	U	448	J I	NDD	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
+	Sodium, total recoverable	6830		6220		8170		6350		> 4600	1	ug/L	EX
+	Sulfate	6540		6180		5650		6280		> 3000	1	ug/L	EX
	Total organic carbon	1110		<137	U V	<5000	U	5000		< 10000	1	ug/L	EX
	Total organic halogens	<120	U	<120	JU Q	15.7	J I	26.7	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	29.5	J I	8.25	J I	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	.42	U	.556	U	.326	U					pCi/L	
	Nonvolatile beta	.16	U	.574	U	.621	U					pCi/L	
	Radium, total alpha-emitting	.62	U	-.1	U	.371	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)
WELL AMB 12D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103602.4 E 51901.6	33.34 Deg N 81.731 Deg W	239.40 - 219.4 ft msl	369.80 ft msl	4 " PVC	S	M

SAMPLE DATE 02/12/99 08/30/99 02/14/00 09/14/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.8	231.9	231.17	229.45	ft msl
pH	6	5.9	5.8	6	pH
Sp. Conductance	20	25	21	24	uS/cm
Water temperature	19	20.3	19.5	21.8	deg. C
Alkalinity as CaCO3	17	8	3	4	mg/L
Turbidity	2.2	1	.8	1.1	NTU
Volumes purged	5.84	3.25	3.06	3.28	well volume
Sampling code					
Synchronous water level	232.7 (03/26/99)	231.7 (09/22/99)	230.7 (03/23/00)	229.2 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	6.7		7.3		7.61	J I	6.23	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<7	U	<7	U	<3.27	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<45	U	<7	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<5	U	<5.19	JU	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.02	JU L	<1.05	U	<.2	JU L	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.0525	U	<.0505	U	<.095	U	<.1	JU L	< EQL	1.04	ug/L	EX
	Methyl methacrylate					<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.4	U	<10	U	<9.9	U	<11	U	< EQL	1.05	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	1500		1260		1450		1380		< 4200	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<23.1	U V	<30.1	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	33.7	J I	42.4	J I	<14.3	U V	12.3	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	12.4		12.1		15.4		7.71	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	733		814		650		814		< 2400	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	1330		1660		1280		1160		< 4600	1	ug/L	EX
	Sulfate	714		601		874	J I	1040		< 3000	1	ug/L	EX
	Total organic carbon	1070		721	J I	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	21	J I	<120	JU Q	<120	U	15.7	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	12.7	J I	<67	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	.68	U	1.08	J I	.494	U					pCi/L	
	Nonvolatile beta	-.09	U	1.42	J I	1.5	J I					pCi/L	
	Radium, total alpha-emitting	-.06	U	.1	U	.148	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)

WELL MSB 29B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 107319.3 E 51217.5	33.347 Deg N 81.74 Deg W	151.7 - 145.1 ft msl	365 ft msl	4 " PVC	S	LL
SAMPLE DATE		02/05/99	08/25/99	02/15/00	09/28/00	
FIELD DATA						
Parameter	1Q99	3Q99	1Q00	3Q00	Unit	
Water Elevation	223.4	223.04	222.56	229.24	ft msl	
pH	4.9	4.8	5.6	5.5	pH	
Sp. Conductance	31	29	28	33	uS/cm	
Water temperature	18.5	19.5	16.9	19.8	deg. C	
Alkalinity as CaCO3		0	1	1	mg/L	
Turbidity	.3	.2	1.1	1.8	NTU	
Volumes purged	2.32	2.90	.020	2.23	well volume	
Sampling code			NX			
Synchronous water level	223.6 (03/26/99)	222.9 (09/22/99)	222.4 (03/23/00)	220.9 (09/27/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLPEPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Arsenic, total recoverable	<100	U	<10	U	<10	U	4.77	J I	NDD	1	ug/L	EX
	Barium, total recoverable	<10	U	7.5	J I	7.35	J I	7.98	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<10	U	<10	U	<4.65	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<.5	U	<.5	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<20	U	<20	U	<4.08	JU	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<20	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<.2	U	<.2	U	<.2	JU L	<.2	U	< EQL	1	ug/L	EX
	Lindane	<1	U	<.097	U	<.094	JU Q	<.094	U	< EQL	.940	ug/L	EX
	Methyl methacrylate	<50	U	<50	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10	JU Q	<9.7	U	<9.7	JU Q	<9.3	JU Q	< EQL	.930	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLPEPA	3Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Chloride	3170		2540		2510		2720		< 4200	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<200	U	<200	U	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	<200	U	<7.8	U V	<16.2	U V	35.7	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	<10	U	<1.4	U V	<2.42	U V	1.66	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	4050		1460		1420		1420		< 2400	5	ug/L	EX
	Selenium, total recoverable			<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	<1000	U	2600		2720		2660		< 4600	1	ug/L	EX
	Sulfate	395	J I	<400	U	413	J I	1160		< 3000	1	ug/L	EX
	Total organic carbon	<5000	U	<5000	U	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	U	23.3	J I	24.4	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	<2500	JU Q	<2500	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	2.08	J I	.898	U	1.19	J I					pCi/L	
	Nonvolatile beta	2.1	J I	1.28	U	1.5	J I					pCi/L	
	Radium, total alpha-emitting	.83	J I	1.5	J I	.183	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)
WELL MSB 29C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107315 E 51206.6	33.347 Deg N 81.74 Deg W	179.7 - 174.1 ft msl	365 ft msl	4 " PVC	S	UL

SAMPLE DATE 02/05/99 08/12/99 02/15/00 08/25/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	229.5	229.54	228.47	227.41	ft msl
pH	5	4.7	5.5	4.9	pH
Sp. Conductance	31	29	28	29	uS/cm
Water temperature	18.5	19.8	18.9	20.7	deg. C
Alkalinity as CaCO3		0	2	0	mg/L
Turbidity	.2	.3	1.1	.9	NTU
Volumes purged	2.56	2.81	5.39	2.78	well volume
Sampling code					
Synchronous water level	229.8 (03/26/99)	229.5 (09/22/99)	228.4 (03/23/00)	NDD(216.9) (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<100	U	<2	U	<10	U	<3.99	JU	< EQL	1	ug/L	EX
	Barium, total recoverable	<10	U	5.9	J I	6	J I	5.96	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<10	U	<10	U	<6.03	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<2.27	U V	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<20	U	<20	U	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<20	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<2	U	<2	U	<2	JU L	<2	U	< EQL	1	ug/L	EX
	Lindane	<1	U	<1	U	<.093	JU Q	<.093	U	< EQL	.930	ug/L	EX
	Methyl methacrylate	<50	U	<50	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10	JU Q	<10.2	U	<9.7	JU Q	<9.4	JU Q	< EQL	.940	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2460		2600		2510		2800		< 4200	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<200	U	<200	U	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	<200	U	8.2	J I	<5.47	U V	<7.5	U V	< EQL	1	ug/L	EX
	Manganese, total recoverable	<10	U	1.9	J I	<1.86	U V	2.26	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1590		1440		1320		1270		< 2400	5	ug/L	EX
	Selenium, total recoverable			<2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	<1000	U	2500		2390		2650		< 4600	1	ug/L	EX
	Sulfate	394	J I	535		591	J I	1290		< 3000	1	ug/L	EX
	Total organic carbon	<5000	U	<5000	U	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	U	25.7	J I	24.2	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	<2500	JU Q	<2500	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	3.26		1.28	J IK	2.45						pCi/L	
	Nonvolatile beta	3.01	J I	2.58	J I	2.56	J I					pCi/L	
	Radium, total alpha-emitting	1.06	J I	.5	J I	.603	J IL					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)

WELL MSB 29D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 107323.3 E 51226.9	33.347 Deg N 81.74 Deg W	227.6 - 207.0 ft msl	364.90 ft msl	4 " PVC	S	M

SAMPLE DATE 02/05/99 08/12/99 02/16/00 09/28/00

FIELD DATA

Parameter	1Q99	3Q99	1Q00	3Q00	Unit
Water Elevation	231.6	231.82	230.59	229.24	ft msl
pH	5.1	4.7	5.6	5.5	pH
Sp. Conductance	32	29	30	33	uS/cm
Water temperature	17.8	19.8	18.3	19.8	deg. C
Alkalinity as CaCO3		1	1	0	mg/L
Turbidity	.5	.3	1.2	1.8	NTU
Volumes purged	2.88	2.41	3.32	8.51	well volume
Sampling code					
Synchronous water level	231.9 (03/26/99)	231.8 (09/22/99)	230.4 (03/23/00)	229.2 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Arsenic, total recoverable	<100	U	<2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	<10	U	9.1	J I	<8.64	U V	11.5		< 2000	1	ug/L	EX
	Chromium, total recoverable	<10	U	<10	U	<10	U	<3.08	JU	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<4.14	U V	11.2		3.11	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<9.5	JU I	<10.9	JU V	<5.27	JU	< EQL	1	ug/L	EX
	Silver, total recoverable	<20	U	<20	U	<5.32	JU V	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<20	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<2	U	<2	U	<2	U	<2	U	< EQL	1	ug/L	EX
	Lindane	<1	U	<.098	U	<.096	U	<.099	U	< EQL	.990	ug/L	EX
	Methyl methacrylate	<50	U	<50	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10	JU Q	<10.3	U	<9.6	JU Q	<10	JU Q	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	3Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Chloride	2980		3340		2790		3010		< 4200	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	756		<200	U	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	<200	U	1500		845		169	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	<10	U	14		14.5		1.38	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	1870		1400		1600		3340		> 2400	5	ug/L	EX
	Selenium, total recoverable			<2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	<1000	U	3400		4120		3830		< 4600	1	ug/L	EX
	Sulfate	284	J I	647		784	J I	862		< 3000	1	ug/L	EX
	Total organic carbon	<5000	U	<5000	U	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	U	21.5	J I	34.8	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	<2500	JU Q	<2500	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	8.25		12.4	J K	18.1						pCi/L	
	Nonvolatile beta	4.37		4.93		6.01						pCi/L	
	Radium, total alpha-emitting	2.22	J I	3.7		6.27						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)
WELL MSB 43A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107275.3 E 49293.7	33.343 Deg N 81.745 Deg W	140.5 - 134.9 ft msl	357.70 ft msl	4 " PVC	S	LL

SAMPLE DATE	02/08/99	08/17/99	02/11/00	09/10/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	229.1	228.3	227.87	226.1	ft msl
pH	5.4	5.2	5.1	5.7	pH
Sp. Conductance	25	25	25	30	uS/cm
Water temperature	19.7	22.5	19.3	22.5	deg. C
Alkalinity as CaCO3	3	1	0	8	mg/L
Turbidity	.2	.3	.5	.4	NTU
Volumes purged	2.12	3.25	2.60	2.46	well volume
Sampling code					
Synchronous water level	229.1 (03/26/99)	228.3 (09/22/99)	227.6 (03/23/00)	226.1 (09/27/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<100	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	7.77	J I	9.8	J I	9.54	J I	13.8		< 2000	1	ug/L	EX
	Chromium, total recoverable	<10	U	<10	U	<5.34	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<10	U	<1.93	JU	2.21	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<50	U	<10.4	U V	< EQL	1	ug/L	EX
	Silver, total recoverable	<20	U	<20	U	<5.07	JU	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<20	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<2	U	<2	U	<2	JU LQ	<2	U	< EQL	1	ug/L	EX
	Lindane	<1	U	<.097	U	<1	JU Q	<.099	U	< EQL	.990	ug/L	EX
	Methyl methacrylate	<50	U	<50	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10	U	<9.8	U	<10	JU Q	<10	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	1500		1620		1290		1550		< 4200	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<200	U	153	J I	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	<200	U	<6.5	U	<6.23	U V	<5.47	U V	< EQL	1	ug/L	EX
	Manganese, total recoverable	2.64	J I	2.3	J I	<2.58	U V	2.03	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	3870		1620		1570		1750		< 2400	5	ug/L	EX
	Selenium, total recoverable	<200	U	<10	U	<10	U	8.21	J I	NDD	1	ug/L	EX
	Sodium, total recoverable	1990		2000		2070		2100		< 4600	1	ug/L	EX
	Sulfate	<400	U	252	J I	<1000	U	709		< 3000	1	ug/L	EX
	Total organic carbon	<5000	U	<5000	U	5700		<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	JU Q	<120	U					ug/L	
	Total phosphates (as P)	<2500	JU Q	<2500	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	1.04	U V	.531	U	.471	U					pCi/L	
	Nonvolatile beta	.76	U	4.32		1.2	U					pCi/L	
	Radium, total alpha-emitting	.51	U	.1	U	.254	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)**WELL MSB 43B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107274.6 E 49311.8	33.343 Deg N 81.745 Deg W	175.5 - 169.9 ft msl	357.80 ft msl	4 " PVC	S	UL
SAMPLE DATE		02/08/99	08/17/99	02/11/00	09/10/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	229.2	228.5	228	226.4	ft msl	
pH	5.1	5.1	4.7	5.1	pH	
Sp. Conductance	25	24	24	24	uS/cm	
Water temperature	19.7	21.5	19.3	20.8	deg. C	
Alkalinity as CaCO3		0	0	0	mg/L	
Turbidity	.5	.2	.5	.6	NTU	
Volumes purged	2.19	4.59	2.50	2.49	well volume	
Sampling code						
Synchronous water level	229.1 (03/26/99)	228.5 (09/22/99)	227.8 (03/23/00)	226.2 (09/27/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<100	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	2.43	J I	3.1	J I	<3.22	U V	2.89	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<6.7	JU I	<50	U	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<20	U	<20	U	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<20	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<2	U	<2	U	<2	JU LQ	<2	U	< EQL	1	ug/L	EX
	Lindane	<1	U	<.097	U	<.11	JU Q	<.097	U	< EQL	.970	ug/L	EX
	Methyl methacrylate	<50	U	<50	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10	U	<10	U	<11	JU Q	<10	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	1790		1900		1490		1820		< 4200	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<200	U	159	J I	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	<200	U	<6.7	U	<15.3	U V	<9.65	U V	< EQL	1	ug/L	EX
	Manganese, total recoverable	1.54	J I	2.5	J I	<2.02	U V	.67	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1550		1480		1430		1540		< 2400	5	ug/L	EX
	Selenium, total recoverable	<200	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	2230		2400		2390		2220		< 4600	1	ug/L	EX
	Sulfate	521		374	J I	<1000	U	1030		< 3000	1	ug/L	EX
	Total organic carbon	<5000	U	<5000	U	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	13.7	J IQ	<120	U	21.1	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	<2500	JU Q	<2500	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	2.12	U V	1.44	J I	2.57						pCi/L	
	Nonvolatile beta	1	U	1.48	U	1.98	J I					pCi/L	
	Radium, total alpha-emitting	1.68	J I	.5	U V	.895	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)
WELL MSB 43D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107274.2 E 49322	33.343 Deg N 81.745 Deg W	220.8 - 200.2 ft msl	358 ft msl	4 " PVC	S	M/GC

SAMPLE DATE	02/08/99	08/17/99	02/11/00	09/10/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	231.2	230.6	230.1	228.63	ft msl
pH	4.9	4.9	3.3	4.8	pH
Sp. Conductance	23	22	23	23	uS/cm
Water temperature	19.5	21.2	19.7	21.5	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.4	.2	.6	.3	NTU
Volumes purged	2.71	4.53	2.66	3.01	well volume
Sampling code					
Synchronous water level	231.2 (03/26/99)	230.6 (09/22/99)	229.9 (03/23/00)	228.4 (09/27/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<100	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	3.37	J I	3.6	J I	<3.61	U V	2.98	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<10	U	<10	U	<5.34	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	7.5	J I	25.8		10.6		< 15	1	ug/L	EX
	Mercury, total recoverable	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<20	U	<20	U	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<20	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<2	U	<2	U	<2	JU LQ	<2	U	< EQL	1	ug/L	EX
	Lindane	<1	U	<.098	U	<.11	JU Q	<.092	U	< EQL	.920	ug/L	EX
	Methyl methacrylate	<50	U	<50	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10	U	<9.7	U	<10	JU Q	<9.4	U	< EQL	.940	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	1850		1710		1550		1980		< 4200	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<200	U	<200	U	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	<200	U	<4.5	U	<170	U V	<10.2	U V	< EQL	1	ug/L	EX
	Manganese, total recoverable	5.28	J I	4.8	J I	<5.02	U V	3.39	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1070		1050		973		1060		< 2400	5	ug/L	EX
	Selenium, total recoverable	<200	U	<3.8	JU I	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	1830		1500		1580		1490		< 4600	1	ug/L	EX
	Sulfate	850		308	J I	<1000	U	1250		< 3000	1	ug/L	EX
	Total organic carbon	<5000	U	<5000	U	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	JU Q	<120	U	21.6	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	<2500	JU Q	<2500	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	.86	U V	.495	U	1.15	J I					pCi/L	
	Nonvolatile beta	.6	U	2.12	J I	.716	U					pCi/L	
	Radium, total alpha-emitting	.69	U	.3	U	.346	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF**WELL AMB 4B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104145.6 E 51482.7	33.34 Deg N 81.734 Deg W	157.3 - 152.3 ft msl	380.40 ft msl	4 " PVC	S	LL

SAMPLE DATE	03/11/99	08/31/99	02/14/00	09/26/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	224.3	222.57	222.8	220.61	ft msl
pH	4.7	5	4.3	4.9	pH
Sp. Conductance	30	28	26	27	uS/cm
Water temperature	18.6	19.7	19.4	19.7	deg. C
Alkalinity as CaCO3		0	0	0	mg/L
Turbidity	.5	.4	.4	.4	NTU
Volumes purged	2.29	2.37	2.73	2.78	well volume
Sampling code					
Synchronous water level	224.1 (03/29/99)	222.8 (09/22/99)	222.6 (03/23/00)	220.9 (09/27/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	5.1		6.1		5.16	J I	11.6		< 2000	1	ug/L	EX
	Chromium, total recoverable	<7	U	<7	U	<4.65	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<45	U	<7	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<50	U	<9.26	JU	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<5	U	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<25	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.05	U	<1.05	U	<2	JU L	<2	U	< EQL	1	ug/L	EX
	Lindane	<.051	U	<.051	U	<.096	U	<.095	U	< EQL	.950	ug/L	EX
	Methyl methacrylate					<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10	U	<9.6	U	<10	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	2.82	J I	3.26	J I	4.5	J I	4.6	J IK	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Chloride	5000		4800		4060		4550		> 4200	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<24.8	U V	<34.3	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	<74	U	12.5	J I	<6.12	U V	66.1	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	3.7	J I	3.9	J I	<3.95	U V	4.4	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	445		444		<500	U	528		< 2400	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	2870		2960		2950		3180		< 4600	1	ug/L	EX
	Sulfate	451		402		797	J I	887		< 3000	1	ug/L	EX
	Total organic carbon	589	J I	<163	U V	7800		<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	U	31.6	J I	43.8	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	9.66	J I	<67	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	2.84	J I	.636	U	1.75	J I					pCi/L	
	Nonvolatile beta	-1.59	U	.463	U	1.66	J I					pCi/L	
	Radium, total alpha-emitting	1.97	J I	.3	U	.355	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)
WELL AMB 7

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103920 E 51624.9	33.34 Deg N 81.733 Deg W	242.1 - 222.1 ft msl	369.90 ft msl	4 " PVC	S	M
SAMPLE DATE		02/08/99	08/28/99	02/15/00	09/14/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	232.04	231.6	230.78	228.95	ft msl	
pH	5.8	6.2	6.5	5.8	pH	
Sp. Conductance	51	54	64	43	uS/cm	
Water temperature	20.1	22.7	17.5	24.6	deg. C	
Alkalinity as CaCO3	16	19	22	6	mg/L	
Turbidity	13.2	8.7	11	5.9	NTU	
Volumes purged	.626	.164	.539	5.96	well volume	
Sampling code	NX	NX	NX			
Synchronous water level	232.1 (03/26/99)	231.3 (09/22/99)	230.7 (03/23/00)	228.7 (09/27/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	6.8		10.1		10.1		3.2	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<5.1	U V	3.8	J I	<12.1	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	9.4	J I	6	J I	7.2	J I	2.34	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<.45	U	<.71	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	3.8	J I	3.3	J I	<11.3	U V	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<1.3	U V	<.98	U V	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	JU Q	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	JU Q	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.02	U	<1.06	U	<.2	JU L	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.0525	U	<.058	U	<.095	JU Q	<.1	JU L	< EQL	1.05	ug/L	EX
	Methyl methacrylate					<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.6	U	<10	U	<9.8	JU Q	<11	U	< EQL	1.05	ug/L	EX
	Tetrachloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	JU Q	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2300		2150		1880		2310		< 4200	1	ug/L	EX
	Cyanide	2.41	J I	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<34.2	U V	<31.9	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	568		804		604		63.2	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	4.4	J I	4.7	J I	<5.41	U V	1.07	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	357		575		379	J I	508		< 2400	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
+	Sodium, total recoverable	9230		8140		12400		8440		> 4600	1	ug/L	EX
+	Sulfate	3800		4010		5050		5240		> 3000	1	ug/L	EX
	Total organic carbon	686	J I	1890		6600		<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	U	15.2	J I	31.2	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	42.8	J I	48.2	J I	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	1.57	U V	.55	J IK	1.25	J I					pCi/L	
	Nonvolatile beta	.71	U	.93	U	1.16	U					pCi/L	
	Radium, total alpha-emitting	.13	U	.5	J I	.11	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)**WELL AMB 7A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103987.1 E 51591	33.34 Deg N 81.733 Deg W	125.6 - 115.6 ft msl	373.60 ft msl	4 " PVC	S	MCBC
SAMPLE DATE		03/11/99	09/23/99	02/23/00	07/28/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	219.25	217.62	217.22	214.38	ft msl	
pH	5.2	5.7	6	6.1	pH	
Sp. Conductance	27	23	24	24	uS/cm	
Water temperature	19.2	19.7	18.9	20	deg. C	
Alkalinity as CaCO ₃	3	2	5	4	mg/L	
Turbidity	.3	.6	.2	.7	NTU	
Volumes purged	2.65	2.59	2.89	3.49	well volume	
Sampling code						
Synchronous water level	218.4 (03/26/99)	217.6 (09/22/99)	217.1 (03/23/00)	214.9 (09/27/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	4.6		4.5		<5.23	U V	4.39	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<7	U	<7	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<1.88	JU	< EQL	1	ug/L	EX
	Mercury, total recoverable	<45	U	<7	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<12.3	JU V	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<5	U	<6.31	JU V	<5.9	U V	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<2.07	U	1	J I	1.5	J IK	NDD	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	.74	J I	1.1	J IK	NDD	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	3.8	J I	2.69	J I	3	J I	2.8	J IK	NDD	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.05	U	<1.05	U	<2	U	<2	U	< EQL	1	ug/L	EX
	Lindane	<0.51	U	<.0525	U	<.097	U	<.099	U	< EQL	.990	ug/L	EX
	Methyl methacrylate					<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10.6	JU Q	<9.7	JU LQ	<9.9	U	< EQL	.990	ug/L	EX
	Tetrachloroethylene	34.5		34.8		41		34	J K	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	102		90.3		73		76	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	1740		1460		1560		1600		< 4200	2	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<23.5	U V	<25.5	U V	<200	U	<200	U	< EQL	2	ug/L	EX
	Iron, total recoverable	<74	U	7.8	J I	<6.62	U V	<200	U	< EQL	1	ug/L	EX
	Manganese, total recoverable	5	J I	5.2	J I	4.89	J I	4.95	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	872		935		821		827		< 2400	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	1700		1620		1850		1980		< 4600	1	ug/L	EX
	Sulfate	547		495		<627	U	<1320	U	< EQL	2	ug/L	EX
	Total organic carbon	1060		<1000	U	<5000	JU Q	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	105	J I	92.6	J I	93	J I	103	J IL	NDD	1	ug/L	WA
	Total phosphates (as P)	7.97	J I	10.3	J I	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	.95	J I	.689	J I	1.01	J I					pCi/L	
	Nonvolatile beta	.14	U	.8	U	.475	U					pCi/L	
	Radium, total alpha-emitting	.44	U	.2	U	.052	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)**WELL AMB 7B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103972 E 51590.3	33.34 Deg N 81.733 Deg W	162.9 - 152.9 ft msl	373 ft msl	4 " PVC	S	LL
SAMPLE DATE		03/11/99	09/23/99	02/23/00	07/28/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	224.4	216.92	222.56	220.86	ft msl	
pH	4.7	5.2	5.3	5.8	pH	
Sp. Conductance	25	22	24	24	uS/cm	
Water temperature	19.7	19.5	19	20	deg. C	
Alkalinity as CaCO ₃		0	2	0	mg/L	
Turbidity	.1	.4	.9	.8	NTU	
Volumes purged	3.39	2.98	2.39	2.79	well volume	
Sampling code						
Synchronous water level	223.8 (03/26/99)	222.9 (09/22/99)	222.4 (03/23/00)	221 (09/27/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<100	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	2.5		2.8		<2.88	U V	1.96	J I	NDD	1	ug/L	EX
	Chromium, total recoverable	<10	U	<7	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	.19	J I	<.7	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<26	U	<5.95	JU V	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<20	U	<5	U	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<25	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.05	U	<1.06	U	<.2	U	<.2	U	< EQL	1	ug/L	EX
	Lindane	<1	U	<.0525	U	<.097	U	<.096	U	< EQL	.960	ug/L	EX
	Methyl methacrylate	<50	U			<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10.6	JU Q	<9.6	JU LQ	<9.8	U	< EQL	.980	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6.25		5.26		5.9		7.1	J K	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2960		2780		2580		2640		< 4200	2	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<200	U	<37.9	U V	<200	U	<200	U	< EQL	2	ug/L	EX
	Iron, total recoverable	18.8	J I	8.2	J I	<10.7	U V	<200	U	< EQL	1	ug/L	EX
	Manganese, total recoverable	1.9	J I	2.1	J I	1.91	J I	1.82	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	776		636		647		640		< 2400	5	ug/L	EX
	Selenium, total recoverable	<200	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	3890		3130		3750		3950		< 4600	1	ug/L	EX
	Sulfate	895		821		<1000	U	<1480	U	< EQL	2	ug/L	EX
	Total organic carbon	6100		241	J I	<5000	JU Q	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	U	21.1	J I					ug/L	
	Total phosphates (as P)	16.4	J I	30.4	J I	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	1.7	J I	.611	U	.761	J I					pCi/L	
	Nonvolatile beta	.662	U	.778	U	.515	U					pCi/L	
	Radium, total alpha-emitting	.35	U	.2	U	.263	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)**WELL AMB 11B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103154.2 E 51919.5	33.339 Deg N 81.731 Deg W	184.5 - 174.5 ft msl	364.60 ft msl	4 " PVC	S	UL

SAMPLE DATE	02/23/99	08/30/99	02/16/00	09/12/00
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FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	222	221.42	220.88	219.6	ft msl
pH	5.3	5.8	5.8	6	pH
Sp. Conductance	38	35	35	36	uS/cm
Water temperature	18.4	19.9	18.8	20	deg. C
Alkalinity as CaCO ₃	7	21	8	7	mg/L
Turbidity	.3	.5	.9	1	NTU
Volumes purged	3.44	3.65	2.54	3.01	well volume
Sampling code					
Synchronous water level	222.3 (03/26/99)	221.4 (09/22/99)	220.7 (03/23/00)	219.6 (09/27/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<100	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	101		19.5		43.2		18.7		< 2000	1	ug/L	EX
	Chromium, total recoverable	<7	U	<7	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<47	U	<10	U	<1.35	JU	< EQL	1	ug/L	EX
	Mercury, total recoverable	<5	U	<7	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<26	U	<9.87	JU V	<8.63	U V	< EQL	1	ug/L	EX
	Silver, total recoverable	<20	U	<5	U	<20	U	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.05	U	<1.05	U	<2	U	<2	U	< EQL	1	ug/L	EX
	Lindane	<1	U	<.0505	U	<.092	U	<.095	U	< EQL	.950	ug/L	EX
	Methyl methacrylate	<50	U			<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10	U	<10	JU Q	<9.7	U	< EQL	.970	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Chloride	4260		4100		3680		4650		> 4200	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<200	U	<37.7	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	27.6	J I	12.3	J I	<41.3	U V	<13.9	U V	< EQL	1	ug/L	EX
	Manganese, total recoverable	8.1		7.7	J I	14		9.89	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	216		226		<500	U	227	J I	NDD	5	ug/L	EX
	Selenium, total recoverable	<200	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	2160		1960		2570		2100		< 4600	1	ug/L	EX
	Sulfate	561		463		833	J I	870		< 3000	1	ug/L	EX
	Total organic carbon	569	J I	<214	U V	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	<120	JU Q	29.9	J I	56.8	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	9.34	J I	<67	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	1.42	J I	.425	U	.489	U					pCi/L	
	Nonvolatile beta	.764	U	.485	U	.835	U					pCi/L	
	Radium, total alpha-emitting	.61	U	0	U	.584	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)
WELL AMB 13AR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103082 E 51396	33.338 Deg N 81.732 Deg W	110.9 - 100.9 ft msl	365.10 ft msl	4 " PVC	S	MCBC
SAMPLE DATE		02/17/99	08/31/99	02/15/00	09/13/00	
FIELD DATA						
<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>	
Water Elevation	218.57	217.45	217.22	215.75	ft msl	
pH	7.6	7.2	6.7	6.8	pH	
Sp. Conductance	72	68	75	66	uS/cm	
Water temperature	20	21.3	19.6	22.7	deg. C	
Alkalinity as CaCO ₃	22	24	19	17	mg/L	
Turbidity	2.2	2	1.4	.7	NTU	
Volumes purged	.013	0	2.26	2.36	well volume	
Sampling code	X	NX				
Synchronous water level	218.3 (03/26/99)	217.5 (09/22/99)	217 (03/23/00)	215.8 (09/27/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	28		19.3		22.2		21.4		< 2000	1	ug/L	EX
	Chromium, total recoverable	5.3	J I	2.7	J I	<8.45	U V	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Mercury, total recoverable	<45	U	<7	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<5.09	U V	<50	U	< EQL	1	ug/L	EX
	Silver, total recoverable	<5	U	<5	U	<4.34	JU	<20	U	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1.02	U	<1.05	U	<2	JU L	<2	U	< EQL	1	ug/L	EX
	Lindane	<.051	U	<.051	U	<.096	JU Q	<.1	JU L	< EQL	1.05	ug/L	EX
	Methyl methacrylate					<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10	U	<9.8	JU Q	<11	U	< EQL	1.06	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2800		2900		2380		2640		< 4200	1	ug/L	EX
	Cyanide	<15.2	U	5.21	J I	<10	U	<10	JU Q	< EQL	1	ug/L	EX
	Fluoride	<24.3	U V	<38.2	U V	<200	U	<100	U	< EQL	1	ug/L	EX
	Iron, total recoverable	97.2		67.1	J I	<40.1	U V	9.18	J I	NDD	1	ug/L	EX
	Manganese, total recoverable	2.1	J I	2.5	J I	<4.13	U V	2.93	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	995		978		846		964		< 2400	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<5.45	JU	< EQL	1	ug/L	EX
	Sodium, total recoverable	4010		3380		3280		2650		< 4600	1	ug/L	EX
	Sulfate	1560		1510		1680		1720		< 3000	1	ug/L	EX
	Total organic carbon	3140		<1000	U	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	12.3	J I	<120	U	20	J I	28.6	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	19.4	J I	<67	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	1.79	J I	.384	U	.295	U					pCi/L	
	Nonvolatile beta	1.94	J I	2	J I	1.72	J I					pCi/L	
	Radium, total alpha-emitting	.35	U	.5	J I	.069	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)
WELL AMB 14D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104278.7 E 51360.8	33.34 Deg N 81.734 Deg W	235.1 - 215.1 ft msl	382.40 ft msl	2 " PVC	V	M

SAMPLE DATE 03/30/99 09/28/99

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	230.18	229.13	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH	6.1	6.7			pH
Sp. Conductance	30	26			uS/cm
Water temperature	19.3	23.7			deg. C
Alkalinity as CaCO3	4	1			mg/L
Turbidity	10.5	9.8			NTU
Volumes purged	.413	2.22			well volume
Sampling code	NX	NX			
Synchronous water level	230.1 (03/26/99)	229.2 (09/22/99)	228.5 (03/23/00)	226.7 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U							ug/L	
	Barium, total recoverable	6.6		4.3								ug/L	
	Chromium, total recoverable	4	J I	3.4	J I							ug/L	
	Lead, total recoverable	<47	U	22.9	J I							ug/L	
	Mercury, total recoverable	.16	J I	.09	J I							ug/L	
	Nickel, total recoverable	<26	U	3	J I							ug/L	
	Silver, total recoverable	.62	J I	<5	U							ug/L	
Organics													
	Acetone	<2.73	U V	<10	U							ug/L	
	Carbon tetrachloride	<5	U	<5	U							ug/L	
	Chloroethene (Vinyl chloride)	<10	U	<10	U							ug/L	
	Chloroform	<5	U	<5	U							ug/L	
	1,1-Dichloroethane	<5	U	<5	U							ug/L	
	1,2-Dichloroethane	<5	U	<5	U							ug/L	
	1,1-Dichloroethylene	<5	U	<5	U							ug/L	
	trans-1,2-Dichloroethylene	<5	U	<5	U							ug/L	
	cis-1,2-Dichloroethylene	<25	U	<5	U							ug/L	
	2,4-Dichlorophenoxyacetic acid	<1	JU L	<1.05	U							ug/L	
	Lindane	<.051	U	<.051	U							ug/L	
	Methyl methacrylate												
	Phenol	<10.2	U	<10.6	U							ug/L	
	Tetrachloroethylene	11.5		9.37								ug/L	
	1,1,1-Trichloroethane	<5	U	<5	U							ug/L	
	Trichloroethylene	73.1		65.6								ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>3Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	2070		2340								ug/L	
	Cyanide	1.8	J I	<15.2	JU Q							ug/L	
	Fluoride	<25.1	U V	<39.4	U V							ug/L	
	Iron, total recoverable	660		113								ug/L	
	Manganese, total recoverable	15.9		19.7								ug/L	
	Nitrate-nitrite as nitrogen	1520		1370								ug/L	
	Selenium, total recoverable	<66	U	<66	U							ug/L	
	Sodium, total recoverable	3200		2770								ug/L	
	Sulfate	302	J I	320	J I							ug/L	
	Total organic carbon	756	J I	696	J I							ug/L	
	Total organic halogens	62.1	J I	51.8	J I							ug/L	
	Total phosphates (as P)	24.2	J I	17	J I							ug/L	
Radionuclides													
	Gross alpha	.13	U	1.12	J I							pCi/L	
	Nonvolatile beta	13.64		1.23	U							pCi/L	
	Radium, total alpha-emitting	-.14	U	.1	U							pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)
WELL AMB 15D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104500.6 E 51383.8	33.341 Deg N 81.735 Deg W	236.2 - 216.2 ft msl	383.40 ft msl	2 " PVC	V	M

SAMPLE DATE 03/16/99 09/17/99 02/16/00 09/27/00

FIELD DATA

<u>Parameter</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>3Q00</u>	<u>Unit</u>
Water Elevation	232.24	231.2	230.62	229	ft msl
pH	4.7	5.3	5.3	5.7	pH
Sp. Conductance	28	24	26	26	uS/cm
Water temperature	27.1	22.3	21	18.4	deg. C
Alkalinity as CaCO3	2	2	1	7	mg/L
Turbidity	10.6	22.4	2.3	67.2	NTU
Volumes purged	7.75	7.47	10.8	.488	well volume
Sampling code	X			NX	
Synchronous water level	232.2 (03/26/99)	231.3 (09/22/99)	230.1 (03/23/00)	228.7 (09/27/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Arsenic, total recoverable	<40	U	<40	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Barium, total recoverable	7.3		8.8		<4.35	U V	27.4		< 2000	1	ug/L	EX
	Chromium, total recoverable	6.1	J I	4.4	J I	<4.92	JU V	27.4		< 100	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<10	U	2.96	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<45	U	.14	J I	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	5.3	J I	3.4	J I	<8.41	JU V	14.2	J I	NDD	1	ug/L	EX
	Silver, total recoverable	<5	U	<.56	JU I	<4.5	JU V	<3.57	JU	< EQL	1	ug/L	EX
Organics													
	Acetone	<10	U	<10	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Carbon tetrachloride	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroethene (Vinyl chloride)	<10	U	<10	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Chloroform	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,2-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	cis-1,2-Dichloroethylene	<25	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	2,4-Dichlorophenoxyacetic acid	<1	U	<1.06	U	<.2	U	<.2	U	< EQL	1	ug/L	EX
	Lindane	<.051	U	<.052	U	<.094	U	<.11	U	< EQL	1.10	ug/L	EX
	Methyl methacrylate					<20	U	<20	U	< EQL	1	ug/L	EX
	Phenol	<10.2	U	<10	U	<9.7	JU Q					ug/L	
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	1.7	J IK	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Chloride	1790		2040		2140		2130		< 4200	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	JU Q	<10	U	<10	U	< EQL	1	ug/L	EX
	Fluoride	<19.5	U V	<33.1	U V	<200	U	<100	U	< EQL	1	ug/L	EX
+	Iron, total recoverable	823		1810		<62.6	U V	9010		> 300	1	ug/L	EX
	Manganese, total recoverable	25.9		23.6		20.8		37.8		< 50	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	1320		1160		1080		2800		> 2400	5	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Sodium, total recoverable	2660		2800		3280		3110		< 4600	1	ug/L	EX
	Sulfate	1030		1620		<1060	U	2050		< 3000	1	ug/L	EX
	Total organic carbon	817	J I	254	J I	<5000	U	<5000	U	< EQL	1	ug/L	EX
	Total organic halogens	<120	U	31.4	J I	14.4	J I	22.5	J I	NDD	1	ug/L	WA
	Total phosphates (as P)	91.4		49.7	J I	<2500	U	<2500	U	< EQL	5	ug/L	EX
Radionuclides													
	Gross alpha	.73	J IK	1.03	J I	.772	U					pCi/L	
	Nonvolatile beta	-2.79	U	.8	U	.92	U					pCi/L	
	Radium, total alpha-emitting	.19	U	.9	J I	.055	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Third Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for Third Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF

WELL AC 3A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100989.1 E 42119.8	33.318 Deg N 81.752 Deg W	153.60 - 148.6 ft msl	302.3000 ft msl	4 " PVC	S	UL

SAMPLE DATE 09/07/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	207.46	<i>Not Available</i>	ft msl
pH	5.8		pH
Sp. Conductance	44		uS/cm
Water temperature	19.3		deg. C
Alkalinity as CaCO ₃	15		mg/L
Turbidity	.9		NTU
Volumes purged	3.12		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U					ug/L	
	1,1-Dichloroethane	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U					ug/L	
	1,2-Dichloroethane	<5	U					ug/L	
	Aluminum, total recoverable	<200	U					ug/L	
	Carbon tetrachloride	<5	U					ug/L	
	Chlorobenzene	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<5	U					ug/L	
	Chloroform	<5	U					ug/L	
	Iron, total recoverable	46.3	J I					ug/L	
	Nitrate-nitrite as nitrogen	319	J I					ug/L	
	Sodium, total recoverable	2740						ug/L	
	Tetrachloroethylene	<5	U					ug/L	
	Trichloroethylene	<5	U					ug/L	
	cis-1,2-Dichloroethylene	<5	U					ug/L	
	trans-1,2-Dichloroethylene	<5	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL AMB 7B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103972 E 51590.3	33.34 Deg N 81.733 Deg W	162.9 - 152.9 ft msl	373 ft msl	4 " PVC	S	LL

SAMPLE DATE 07/28/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	220.86	<i>Not Available</i>	ft msl
pH	5.8		pH
Sp. Conductance	24		uS/cm
Water temperature	20		deg. C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	.8		NTU
Volumes purged	2.79		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	JU					ug/L	
	1,1,2,2-Tetrachloroethane	<5	JU					ug/L	
	1,1-Dichloroethane	<5	JU					ug/L	
	1,1-Dichloroethylene	<5	JU					ug/L	
	1,2-Dichloroethane	<5	JU					ug/L	
	2,4-Dichlorophenoxyacetic acid	<.2	U					ug/L	
	Acetone	<20	JU					ug/L	
	Aluminum, total recoverable	<44.1	U					ug/L	
	Arsenic, total recoverable	<10	U					ug/L	
	Barium, total recoverable	2.23	J I					ug/L	
	Carbon tetrachloride	<5	JU					ug/L	
	Chloride	2630						ug/L	
	Chlorobenzene	<5	JU					ug/L	
	Chloroethene (Vinyl chloride)	<5	JU					ug/L	
	Chloroform	<5	JU					ug/L	
	Chromium, total recoverable	<10	U					ug/L	
	Cyanide	<10	U					ug/L	
	Fluoride	<200	U					ug/L	
	Iron, total recoverable	<200	U					ug/L	
	Lead, total recoverable	<10	U					ug/L	
	Lindane	<.097	U					ug/L	
	Manganese, total recoverable	1.82	J I					ug/L	
	Mercury, total recoverable	<.5	U					ug/L	
	Methyl methacrylate	<20	JU					ug/L	
	Nickel, total recoverable	<50	U					ug/L	
	Nitrate-nitrite as nitrogen	626						ug/L	
	Phenol	<9.6	U					ug/L	
	Selenium, total recoverable	<10	U					ug/L	
	Silver, total recoverable	<4.06	U V					ug/L	
	Sodium, total recoverable	4050						ug/L	
	Sulfate	<1420	U					ug/L	
	Tetrachloroethylene	<5	JU					ug/L	
	Total organic carbon	<5000	U					ug/L	
	Total organic halogens	33.3	J IL					ug/L	
	Total phosphates (as P)	<2500	U					ug/L	
	Trichloroethylene	7.2	J K					ug/L	
	cis-1,2-Dichloroethylene	<5	JU					ug/L	
	trans-1,2-Dichloroethylene	<5	JU					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL AMB 18A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103988.8 E 51418.8	33.34 Deg N 81.733 Deg W	136.4 - 131.4 ft msl	377.3000 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 09/28/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	213.90	<i>Not Available</i>	ft msl
pH	5.5		pH
Sp. Conductance	24		uS/cm
Water temperature	20		deg. C
Alkalinity as CaCO ₃	7		mg/L
Turbidity	1		NTU
Volumes purged	2.83		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U					ug/L	
	1,1-Dichloroethane	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U					ug/L	
	1,2-Dichloroethane	<5	U					ug/L	
	2,4-Dichlorophenoxyacetic acid	<.2	U					ug/L	
	Acetone	<20	U					ug/L	
	Aluminum, total recoverable	<200	U					ug/L	
	Arsenic, total recoverable	<10	U					ug/L	
	Barium, total recoverable	6.6	J I					ug/L	
	Carbon tetrachloride	<5	U					ug/L	
	Chloride	2380						ug/L	
	Chlorobenzene	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<5	U					ug/L	
	Chloroform	<5	U					ug/L	
	Chromium, total recoverable	<10	U					ug/L	
	Cyanide	<10	U					ug/L	
	Fluoride	<100	U					ug/L	
	Iron, total recoverable	<5	U V					ug/L	
	Lead, total recoverable	<10	U					ug/L	
	Lindane	<.095	U					ug/L	
	Manganese, total recoverable	3.26	J I					ug/L	
	Mercury, total recoverable	<.5	U					ug/L	
	Methyl methacrylate	<20	U					ug/L	
	Nickel, total recoverable	<50	U					ug/L	
	Nitrate-nitrite as nitrogen	<2370	U					ug/L	
	Phenol	<9.5	U					ug/L	
	Selenium, total recoverable	<10	U					ug/L	
	Silver, total recoverable	<20	U					ug/L	
	Sodium, total recoverable	2180						ug/L	
	Sulfate	<959	U					ug/L	
	Tetrachloroethylene	4	J I					ug/L	
	Total organic carbon	6400						ug/L	
	Total organic halogens	38.2	J I					ug/L	
	Total phosphates (as P)	<2500	U					ug/L	
	Trichloroethylene	22						ug/L	
	cis-1,2-Dichloroethylene	2	J I					ug/L	
	trans-1,2-Dichloroethylene	<5	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL ASB 2CR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105540.2 E 52862.7	33.345 Deg N 81.733 Deg W	183.1 - 173.1 ft msl	355.6000 ft msl	4 " PVC	S	LL

SAMPLE DATE 07/26/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	219.05	<i>Not Available</i>	ft msl
pH	5.6		pH
Sp. Conductance	49		uS/cm
Water temperature	20.1		deg. C
Alkalinity as CaCO ₃	6		mg/L
Turbidity	1.5		NTU
Volumes purged	2.93		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<25	JU Q					ug/L	
	1,1,2,2-Tetrachloroethane	<25	JU Q					ug/L	
	1,1-Dichloroethane	<25	JU Q					ug/L	
	1,1-Dichloroethylene	<25	JU Q					ug/L	
	1,2-Dichloroethane	<25	JU Q					ug/L	
	Aluminum, total recoverable	68.8	J I					ug/L	
	Carbon tetrachloride	<25	JU Q					ug/L	
	Chlorobenzene	<25	JU Q					ug/L	
	Chloroethene (Vinyl chloride)	<25	JU Q					ug/L	
	Chloroform	<25	JU Q					ug/L	
	Iron, total recoverable	77.4	J I					ug/L	
	Sodium, total recoverable	5130						ug/L	
	Sulfate	<583	U					ug/L	
	Tetrachloroethylene	<25	JU Q					ug/L	
	Trichloroethylene	29	J Q					ug/L	
	cis-1,2-Dichloroethylene	<25	JU Q					ug/L	
	trans-1,2-Dichloroethylene	<25	JU Q					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL ASB 9B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104564.7 E 54215.3	33.345 Deg N 81.727 Deg W	164.40 - 158.8 ft msl	309 ft msl	4 " PVC	S	LL

SAMPLE DATE 07/26/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	217.55	<i>Not Available</i>	ft msl
pH	6.9		pH
Sp. Conductance	88		uS/cm
Water temperature	20.4		deg. C
Alkalinity as CaCO ₃	33		mg/L
Turbidity	1.2		NTU
Volumes purged	2.63		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	JU Q					ug/L	
	1,1,2,2-Tetrachloroethane	<5	JU Q					ug/L	
	1,1-Dichloroethane	<5	JU Q					ug/L	
	1,1-Dichloroethylene	<5	JU Q					ug/L	
	1,2-Dichloroethane	<5	JU Q					ug/L	
	Aluminum, total recoverable	<63.1	U					ug/L	
	Carbon tetrachloride	<5	JU Q					ug/L	
	Chlorobenzene	<5	JU Q					ug/L	
	Chloroethene (Vinyl chloride)	<5	JU Q					ug/L	
	Chloroform	<5	JU Q					ug/L	
	Iron, total recoverable	<9.22	U					ug/L	
	Sodium, total recoverable	2660						ug/L	
	Sulfate	<514	U					ug/L	
	Tetrachloroethylene	8.9	J Q					ug/L	
	Trichloroethylene	10	J Q					ug/L	
	cis-1,2-Dichloroethylene	<5	JU Q					ug/L	
	trans-1,2-Dichloroethylene	<5	JU Q					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 4B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101978.3 E 48312.8	33.33 Deg N 81.738 Deg W	143.1 - 138.4 ft msl	355.3000 ft msl	4 " PVC	S	LL

SAMPLE DATE 08/10/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	206.12	<i>Not Available</i>	ft msl
pH	5		pH
Sp. Conductance	26		uS/cm
Water temperature	21.3		deg. C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	.7		NTU
Volumes purged	3.00		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U					ug/L	
	1,1-Dichloroethane	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U					ug/L	
	1,2-Dichloroethane	<5	U					ug/L	
	Acetone	<50	U					ug/L	
	Aluminum, total recoverable	<40	U					ug/L	
	Arsenic, total recoverable	<20	U					ug/L	
	Barium, total recoverable	8	J I					ug/L	
	Carbon tetrachloride	<5	U					ug/L	
	Chlorobenzene	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<5	U					ug/L	
	Chloroform	<5	U					ug/L	
	Chromium, total recoverable	<30	U					ug/L	
	Cobalt, total recoverable	<20	U					ug/L	
	Copper, total recoverable	<60	U					ug/L	
	Gross alpha	1.37	J I					pCi/L	
	Iron, total recoverable	21.3	J I					ug/L	
	Lead, total recoverable	<20	U					ug/L	
	Manganese, total recoverable	22						ug/L	
	Mercury, total recoverable	<.2	U					ug/L	
	Nickel, total recoverable	<60	U					ug/L	
	Nitrate-nitrite as nitrogen	1290						ug/L	
	Nonvolatile beta	1.27	U					pCi/L	
	Radium, total alpha-emitting	.187	JU L					pCi/L	
	Selenium, total recoverable	<40	U					ug/L	
	Silver, total recoverable	<50	U					ug/L	
	Sodium, total recoverable	2370						ug/L	
	Tetrachloroethylene	68.2						ug/L	
	Trichloroethylene	1180						ug/L	
	Zinc, total recoverable	8.24	J I					ug/L	
	cis-1,2-Dichloroethylene	<5	U					ug/L	
	trans-1,2-Dichloroethylene	<5	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 12B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102272.76 E 47142.09	33.329 Deg N 81.741 Deg W	162.40 - 157.4 ft msl	350.3000 ft msl	4 " PVC	S	UL

SAMPLE DATE 08/23/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	215.45	<i>Not Available</i>	ft msl
pH	4.9		pH
Sp. Conductance	91		uS/cm
Water temperature	20.4		deg. C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	.9		NTU
Volumes purged	3.02		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U					ug/L	
	1,1-Dichloroethane	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U					ug/L	
	1,2-Dichloroethane	<5	U					ug/L	
	Aluminum, total recoverable	<98.2	U V					ug/L	
	Carbon tetrachloride	<5	U					ug/L	
	Chlorobenzene	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<5	U					ug/L	
	Chloroform	<5	U					ug/L	
	Iron, total recoverable	225						ug/L	
	Sodium, total recoverable	8260						ug/L	
	Tetrachloroethylene	150						ug/L	
	Trichloroethylene	130						ug/L	
	cis-1,2-Dichloroethylene	<5	U					ug/L	
	trans-1,2-Dichloroethylene	<5	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 36B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100514.9 E 49526.3	33.329 Deg N 81.732 Deg W	163.7 - 158.1 ft msl	340.8000 ft msl	4 " PVC	S	LL

SAMPLE DATE 08/30/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	211.95	<i>Not Available</i>	ft msl
pH	5.8		pH
Sp. Conductance	70		uS/cm
Water temperature	19.5		deg. C
Alkalinity as CaCO ₃	2		mg/L
Turbidity	1.6		NTU
Volumes purged	2.78		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<100	U					ug/L	
	1,1,2,2-Tetrachloroethane	<100	U					ug/L	
	1,1-Dichloroethane	<100	U					ug/L	
	1,1-Dichloroethylene	<100	U					ug/L	
	1,2-Dichloroethane	<100	U					ug/L	
	Aluminum, total recoverable	<200	U					ug/L	
	Carbon tetrachloride	<100	U					ug/L	
	Chlorobenzene	<100	U					ug/L	
	Chloroethene (Vinyl chloride)	<100	U					ug/L	
	Chloroform	<100	U					ug/L	
	Iron, total recoverable	<200	U					ug/L	
	Sodium, total recoverable	5150						ug/L	
	Tetrachloroethylene	<100	U					ug/L	
	Trichloroethylene	650	J K					ug/L	
	cis-1,2-Dichloroethylene	<100	U					ug/L	
	trans-1,2-Dichloroethylene	<100	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 37B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105289.5 E 51450	33.343 Deg N 81.736 Deg W	142.3 - 136.7 ft msl	382.7000 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 08/29/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	215.35	<i>Not Available</i>	ft msl
pH	5.7		pH
Sp. Conductance	24		uS/cm
Water temperature	20.7		deg. C
Alkalinity as CaCO ₃	3		mg/L
Turbidity	1		NTU
Volumes purged	3.32		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U					ug/L	
	1,1-Dichloroethane	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U					ug/L	
	1,2-Dichloroethane	<5	U					ug/L	
	Aluminum, total recoverable	<200	U					ug/L	
	Carbon tetrachloride	<5	U					ug/L	
	Chlorobenzene	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<5	U					ug/L	
	Chloroform	<5	U					ug/L	
	Iron, total recoverable	<8.89	U V					ug/L	
	Sodium, total recoverable	3940						ug/L	
	Sulfate	926						ug/L	
	Tetrachloroethylene	8.7	J K					ug/L	
	Trichloroethylene	<5	U					ug/L	
	cis-1,2-Dichloroethylene	<5	U					ug/L	
	trans-1,2-Dichloroethylene	<5	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 43A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107275.3 E 49293.7	33.343 Deg N 81.745 Deg W	140.5 - 134.9 ft msl	357.7000 ft msl	4 " PVC	S	LL

SAMPLE DATE 09/10/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	226.23	<i>Not Available</i>	ft msl
pH	5.7		pH
Sp. Conductance	30		uS/cm
Water temperature	22.5		deg. C
Alkalinity as CaCO ₃	8		mg/L
Turbidity	.4		NTU
Volumes purged	2.46		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U					ug/L	
	1,1-Dichloroethane	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U					ug/L	
	1,2-Dichloroethane	<5	U					ug/L	
	2,4-Dichlorophenoxyacetic acid	<.2	U					ug/L	
	Acetone	<20	U					ug/L	
	Aluminum, total recoverable	<200	U					ug/L	
	Arsenic, total recoverable	<10	U					ug/L	
	Barium, total recoverable	12.6						ug/L	
	Carbon tetrachloride	<5	U					ug/L	
	Chloride	1580						ug/L	
	Chlorobenzene	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<5	U					ug/L	
	Chloroform	<5	U					ug/L	
	Chromium, total recoverable	<10	U					ug/L	
	Cyanide	<10	U					ug/L	
	Fluoride	<100	U					ug/L	
	Iron, total recoverable	<16.7	U	V				ug/L	
	Lead, total recoverable	<10	U					ug/L	
	Lindane	<.1	U					ug/L	
	Manganese, total recoverable	1.22	J	I				ug/L	
	Mercury, total recoverable	<.5	U					ug/L	
	Methyl methacrylate	<20	U					ug/L	
	Nickel, total recoverable	<50	U					ug/L	
	Nitrate-nitrite as nitrogen	1770						ug/L	
	Phenol	<9.5	U					ug/L	
	Selenium, total recoverable	<10	U					ug/L	
	Silver, total recoverable	<20	U					ug/L	
	Sodium, total recoverable	2120						ug/L	
	Sulfate	706						ug/L	
	Tetrachloroethylene	<5	U					ug/L	
	Total organic carbon	<5000	U					ug/L	
	Total organic halogens	20.5	J	I				ug/L	
	Total phosphates (as P)	<2500	U					ug/L	
	Trichloroethylene	<5	U					ug/L	
	cis-1,2-Dichloroethylene	<5	U					ug/L	
	trans-1,2-Dichloroethylene	<5	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 51B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 96992.7 E 52818	33.326 Deg N 81.716 Deg W	160.00 - 154.4 ft msl	263.2000 ft msl	4 " PVC	S	LL

SAMPLE DATE 09/21/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	203.53	<i>Not Available</i>	ft msl
pH	6.3		pH
Sp. Conductance	37		uS/cm
Water temperature	19.3		deg. C
Alkalinity as CaCO ₃	14		mg/L
Turbidity	.7		NTU
Volumes purged	2.36		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U					ug/L	
	1,1-Dichloroethane	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U					ug/L	
	1,2-Dichloroethane	<5	U					ug/L	
	Aluminum, total recoverable	<200	U					ug/L	
	Carbon tetrachloride	<5	U					ug/L	
	Chlorobenzene	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<5	U					ug/L	
	Chloroform	<5	U					ug/L	
	Iron, total recoverable	<41.5	U V					ug/L	
	Sodium, total recoverable	1730						ug/L	
	Tetrachloroethylene	<5	U					ug/L	
	Trichloroethylene	<5	U					ug/L	
	cis-1,2-Dichloroethylene	<5	U					ug/L	
	trans-1,2-Dichloroethylene	<5	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 62B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101865.3 E 47906.8	33.329 Deg N 81.739 Deg W	141 - 136.3 ft msl	349.1000 ft msl	4 " PVC	S	LL

SAMPLE DATE 08/23/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	206.85	<i>Not Available</i>	ft msl
pH	5.8		pH
Sp. Conductance	29		uS/cm
Water temperature	21.4		deg. C
Alkalinity as CaCO ₃	6		mg/L
Turbidity	.9		NTU
Volumes purged	2.71		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<1	U					ug/L	
	1,1-Dichloroethane	<1	U					ug/L	
	1,1-Dichloroethylene	<1	U					ug/L	
	1,2-Dichloroethane	<1	U					ug/L	
	Acetone	<10	U					ug/L	
	Aluminum, total recoverable	<87.4	JU L					ug/L	
	Arsenic, total recoverable	<20	U					ug/L	
	Barium, total recoverable	15.8						ug/L	
	Carbon tetrachloride	<1	U					ug/L	
	Chlorobenzene	<1	U					ug/L	
	Chloroethene (Vinyl chloride)	<1	U					ug/L	
	Chloroform	<1	U					ug/L	
	Chromium, total recoverable	<30	U					ug/L	
	Cobalt, total recoverable	<20	U					ug/L	
	Copper, total recoverable	86.4						ug/L	
	Gross alpha	.242	U					pCi/L	
	Iron, total recoverable	<51.8	U V					ug/L	
	Lead, total recoverable	32.7						ug/L	
	Manganese, total recoverable	<4.91	U					ug/L	
	Mercury, total recoverable	<.2	U					ug/L	
	Nickel, total recoverable	<60	U					ug/L	
	Nitrate-nitrite as nitrogen	730						ug/L	
	Nonvolatile beta	7.2						pCi/L	
	Radium, total alpha-emitting	.291	U					pCi/L	
	Selenium, total recoverable	<40	U					ug/L	
	Silver, total recoverable	<50	U					ug/L	
	Sodium, total recoverable	2510	J I					ug/L	
	Tetrachloroethylene	24.2	J K					ug/L	
	Trichloroethylene	39.8	J K					ug/L	
	Zinc, total recoverable	215						ug/L	
	cis-1,2-Dichloroethylene	3.64	J K					ug/L	
	trans-1,2-Dichloroethylene	<1	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 66C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105842.1 E 51053.5	33.343 Deg N 81.738 Deg W	170.9 - 166.2 ft msl	383.4000 ft msl	4 " PVC	S	LL

SAMPLE DATE 09/19/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	224.8	<i>Not Available</i>	ft msl
pH	6.5		pH
Sp. Conductance	35		uS/cm
Water temperature	21.4		deg. C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	1.4		NTU
Volumes purged	2.30		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<25	U					ug/L	
	1,1,2,2-Tetrachloroethane	<25	U					ug/L	
	1,1-Dichloroethane	<25	U					ug/L	
	1,1-Dichloroethylene	<25	U					ug/L	
	1,2-Dichloroethane	<25	U					ug/L	
	Aluminum, total recoverable	<32.8	U V					ug/L	
	Carbon tetrachloride	<25	U					ug/L	
	Chlorobenzene	<25	U					ug/L	
	Chloroethene (Vinyl chloride)	<25	U					ug/L	
	Chloroform	<25	U					ug/L	
	Iron, total recoverable	<13.1	U V					ug/L	
	Sodium, total recoverable	3360						ug/L	
	Sulfate	876						ug/L	
	Tetrachloroethylene	13	J IK					ug/L	
	Trichloroethylene	340	J K					ug/L	
	cis-1,2-Dichloroethylene	8.5	J IK					ug/L	
	trans-1,2-Dichloroethylene	<25	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 75B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 98937.4 E 48875.5	33.324 Deg N 81.73 Deg W	161.7 - 156.9 ft msl	326.7000 ft msl	4 " PVC	S	LL

SAMPLE DATE 08/30/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	207.8	<i>Not Available</i>	ft msl
pH	9.3		pH
Sp. Conductance	153		uS/cm
Water temperature	21.4		deg. C
Alkalinity as CaCO ₃	29		mg/L
Turbidity	7.1		NTU
Volumes purged	.902		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<100	U					ug/L	
	1,1,2,2-Tetrachloroethane	<100	U					ug/L	
	1,1-Dichloroethane	<100	U					ug/L	
	1,1-Dichloroethylene	<100	U					ug/L	
	1,2-Dichloroethane	<100	U					ug/L	
	Aluminum, total recoverable	455						ug/L	
	Carbon tetrachloride	<100	U					ug/L	
	Chlorobenzene	<100	U					ug/L	
	Chloroethene (Vinyl chloride)	<100	U					ug/L	
	Chloroform	<100	U					ug/L	
	Iron, total recoverable	45.7	J I					ug/L	
	Sodium, total recoverable	6170						ug/L	
	Tetrachloroethylene	<100	U					ug/L	
	Trichloroethylene	1400	J K					ug/L	
	cis-1,2-Dichloroethylene	<100	U					ug/L	
	trans-1,2-Dichloroethylene	<100	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 83TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108416.3 E 52410.9	33.351 Deg N 81.739 Deg W	75.7 - 70.2 ft msl	371.7000 ft msl	4 " PVC	S	CBA

SAMPLE DATE 09/09/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	212.84	<i>Not Available</i>	ft msl
pH	5.2		pH
Sp. Conductance	18		uS/cm
Water temperature	19.5		deg. C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	1.1		NTU
Volumes purged	4.38		well volume
Sampling code			

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U					ug/L	
	1,1-Dichloroethane	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U					ug/L	
	1,2-Dichloroethane	<5	U					ug/L	
	Aluminum, total recoverable	<200	U					ug/L	
	Carbon tetrachloride	<5	U					ug/L	
	Chlorobenzene	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<5	U					ug/L	
	Chloroform	<5	U					ug/L	
	Iron, total recoverable	<200	U					ug/L	
	Sodium, total recoverable	1690						ug/L	
	Sulfate	1070						ug/L	
	Tetrachloroethylene	<5	U					ug/L	
	Trichloroethylene	<5	U					ug/L	
	cis-1,2-Dichloroethylene	<5	U					ug/L	
	trans-1,2-Dichloroethylene	<5	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL RWM 1

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102599.1 E 48575.1	33.332 Deg N 81.738 Deg W	232.3 - 172.3 ft msl	364.7000 ft msl	8 " CS	S	UNK

SAMPLE DATE 10/05/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	212.33	ft msl
pH		4.8	pH
Sp. Conductance		39	uS/cm
Water temperature		24.4	deg. C
Alkalinity as CaCO3		0	mg/L
Turbidity		.9	NTU
Volumes purged			well volume
Sampling code		C	

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane			<2500	U	< EQL	500	ug/L	EX
	1,1,2,2-Tetrachloroethane			<2500	U	< EQL	500	ug/L	EX
	1,1-Dichloroethane			<2500	U	< EQL	500	ug/L	EX
	1,1-Dichloroethylene			<2500	U	< EQL	500	ug/L	EX
	1,2-Dichloroethane			<2500	U	< EQL	500	ug/L	EX
	Carbon tetrachloride			<2500	U	< EQL	500	ug/L	EX
	Chlorobenzene			<2500	U	< EQL	500	ug/L	EX
	Chloroethene (Vinyl chloride)			<2500	U	< EQL	500	ug/L	EX
	Chloroform			<2500	U	< EQL	500	ug/L	EX
+	Tetrachloroethylene			12000		> 5	500	ug/L	EX
+	Trichloroethylene			7200		> 5	500	ug/L	EX
	cis-1,2-Dichloroethylene			<2500	U	< EQL	500	ug/L	EX
	trans-1,2-Dichloroethylene			<2500	U	< EQL	500	ug/L	EX

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL RWM 5

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103502.2 E 49628	33.33564 Deg N 81.73721 Deg W	216.80 - 206.4 ft msl	366.9000 ft msl	8 " CS	S	M/GC/UL/LL

SAMPLE DATE 07/14/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	208.27	<i>Not Available</i>	ft msl
pH	4.4		pH
Sp. Conductance	29		uS/cm
Water temperature	22.9		deg. C
Alkalinity as CaCO3	1		mg/L
Turbidity	.8		NTU
Volumes purged			well volume
Sampling code	C		

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<10	JU L					ug/L	
	1,1,2,2-Tetrachloroethane	<10	JU L					ug/L	
	1,1-Dichloroethane	<10	JU L					ug/L	
	1,1-Dichloroethylene	<10	JU L					ug/L	
	1,2-Dichloroethane	<10	JU L					ug/L	
	Acetone	<100	JU L					ug/L	
	Carbon tetrachloride	<10	JU L					ug/L	
	Chlorobenzene	<10	JU L					ug/L	
	Chloroethene (Vinyl chloride)	<10	JU L					ug/L	
	Chloroform	<10	JU L					ug/L	
	Tetrachloroethylene	553	J L					ug/L	
	Trichloroethylene	1650	J L					ug/L	
	cis-1,2-Dichloroethylene	<10	JU L					ug/L	
	trans-1,2-Dichloroethylene	<10	JU L					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL RWM 7

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101904.6 E 49449.5	33.33182 Deg N 81.73458 Deg W	216.30 - 206.0 ft msl	349 ft msl	8 " CS	S	M/GC/UL/LL

SAMPLE DATE 11/07/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	157.1	ft msl
pH		4.9	pH
Sp. Conductance		63	uS/cm
Water temperature		21.5	deg. C
Alkalinity as CaCO3		0	mg/L
Turbidity		4.3	NTU
Volumes purged			well volume
Sampling code		C	

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane			<500	U	< EQL	100	ug/L	EX
	1,1,2,2-Tetrachloroethane			<500	U	< EQL	100	ug/L	EX
	1,1-Dichloroethane			<500	U	< EQL	100	ug/L	EX
	1,1-Dichloroethylene			<500	U	< EQL	100	ug/L	EX
	1,2-Dichloroethane			<500	U	< EQL	100	ug/L	EX
	Carbon tetrachloride			<500	U	< EQL	100	ug/L	EX
	Chlorobenzene			<500	U	< EQL	100	ug/L	EX
	Chloroethene (Vinyl chloride)			<500	U	< EQL	100	ug/L	EX
	Chloroform			<500	U	< EQL	100	ug/L	EX
+	Tetrachloroethylene			9300		> 5	100	ug/L	EX
+	Trichloroethylene			7700		> 5	100	ug/L	EX
	cis-1,2-Dichloroethylene			<500	U	< EQL	100	ug/L	EX
	trans-1,2-Dichloroethylene			<500	U	< EQL	100	ug/L	EX

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL RWM 9

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104099.8 E 50400	33.33822 Deg N 81.73634 Deg W	220.6 - 210.2 ft msl	380.6000 ft msl	8 " CS	S	M

SAMPLE DATE 08/14/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	216.2	<i>Not Available</i>	ft msl
pH	5.4		pH
Sp. Conductance	45		uS/cm
Water temperature	22.9		deg. C
Alkalinity as CaCO3	4		mg/L
Turbidity	.5		NTU
Volumes purged			well volume
Sampling code	C		

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<1	U					ug/L	
	1,1-Dichloroethane	<1	U					ug/L	
	1,1-Dichloroethylene	<1	U					ug/L	
	1,2-Dichloroethane	<1	U					ug/L	
	Acetone	<10	U					ug/L	
	Carbon tetrachloride	<1	U					ug/L	
	Chlorobenzene	<1	U					ug/L	
	Chloroethene (Vinyl chloride)	<1	U					ug/L	
	Chloroform	<1	U					ug/L	
	Tetrachloroethylene	11.8						ug/L	
	Trichloroethylene	272						ug/L	
	cis-1,2-Dichloroethylene	<1	U					ug/L	
	trans-1,2-Dichloroethylene	<1	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL RWM 12

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106879.2 E 52500.1	33.348 Deg N 81.736 Deg W	210.40 - 189.9 ft msl	359.4000 ft msl	6 " CS/SS	S	UL/LL

SAMPLE DATE

12/11/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	209.25	ft msl
pH		4.3	pH
Sp. Conductance		48	uS/cm
Water temperature		15.6	deg. C
Alkalinity as CaCO ₃		0	mg/L
Turbidity		.8	NTU
Volumes purged			well volume
Sampling code		C	

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane			<100	U	< EQL	20	ug/L	EX
	1,1,2,2-Tetrachloroethane			<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethane			<100	U	< EQL	20	ug/L	EX
	1,1-Dichloroethylene			<100	U	< EQL	20	ug/L	EX
	1,2-Dichloroethane			<100	U	< EQL	20	ug/L	EX
	Carbon tetrachloride			<100	U	< EQL	20	ug/L	EX
	Chlorobenzene			<100	U	< EQL	20	ug/L	EX
	Chloroethene (Vinyl chloride)			<100	U	< EQL	20	ug/L	EX
	Chloroform			<100	U	< EQL	20	ug/L	EX
	Tetrachloroethylene			<100	U	< EQL	20	ug/L	EX
	Trichloroethylene			1900	J K	NDD	20	ug/L	EX
	cis-1,2-Dichloroethylene			<100	U	< EQL	20	ug/L	EX
	trans-1,2-Dichloroethylene			<100	U	< EQL	20	ug/L	EX

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL RWM 14C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106380.8 E 53051.5	33.348 Deg N 81.734 Deg W	193.5 - 173.4 ft msl	351.4000 ft msl	6 " CS		UL

SAMPLE DATE 09/14/00

FIELD DATA

<u>Parameter</u>	<u>3Q00</u>	<u>4Q00</u>	<u>Unit</u>
Water Elevation	296.57	<i>Not Available</i>	ft msl
pH	5.1		pH
Sp. Conductance	35		uS/cm
Water temperature	22.3		deg. C
Alkalinity as CaCO3	0		mg/L
Turbidity	.8		NTU
Volumes purged			well volume
Sampling code	C		

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<20	JU L					ug/L	
	1,1,2,2-Tetrachloroethane	<20	JU L					ug/L	
	1,1-Dichloroethane	<20	JU L					ug/L	
	1,1-Dichloroethylene	<20	JU L					ug/L	
	1,2-Dichloroethane	<20	JU L					ug/L	
	Acetone	<200	JU L					ug/L	
	Carbon tetrachloride	<20	JU L					ug/L	
	Chlorobenzene	<20	JU L					ug/L	
	Chloroethene (Vinyl chloride)	<20	JU L					ug/L	
	Chloroform	<20	JU L					ug/L	
	Tetrachloroethylene	110	J L					ug/L	
	Trichloroethylene	2840	J L					ug/L	
	cis-1,2-Dichloroethylene	24.6	J L					ug/L	
	trans-1,2-Dichloroethylene	<20	JU L					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF
WELL AMB 7**

SAMPLE DATE 09/14/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Cyanide	<10	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL AMB 7B**

SAMPLE DATE 07/28/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	2,4-Dichlorophenoxyacetic acid	<1.04	JU L					ug/L	
	Chloride	2810						ug/L	
	Fluoride	<200	U					ug/L	
	Lindane	<.05	U					ug/L	
	Mercury, total recoverable	<.7	U					ug/L	
	Sulfate	<1410	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL AMB 10A**

SAMPLE DATE 09/12/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Total organic halogens	20.7	J I					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL AMB 11D**

SAMPLE DATE 09/12/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Nitrate-nitrite as nitrogen	423	J I					ug/L	
	Total phosphates (as P)	<2500	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL AMB 12D**

SAMPLE DATE 09/14/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Chloride	1390						ug/L	
	Fluoride	<100	U					ug/L	
	Nitrate-nitrite as nitrogen	816						ug/L	
	Sulfate	1020						ug/L	
	Total phosphates (as P)	<2500	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL AMB 15D**

SAMPLE DATE 09/27/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Chloride	2140						ug/L	
	Fluoride	<100	U					ug/L	
	Nitrate-nitrite as nitrogen	2780						ug/L	
	Sulfate	2010						ug/L	
	Total phosphates (as P)	<2500	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL AMB 18A**

SAMPLE DATE 09/28/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	2,4-Dichlorophenoxyacetic acid	<1.67	JU LQ					ug/L	
	Chloride	2420						ug/L	
	Lindane	<.1	U					ug/L	
	Phenol	<20	JU Q					ug/L	
	Sulfate	<496	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL AMB 18C**

SAMPLE DATE 09/21/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Cyanide	<10	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL AMB 19C**

SAMPLE DATE 09/25/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Cyanide	<10	JU Q					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 1B**

SAMPLE DATE 08/08/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Gross alpha	1.55	J I					pCi/L	
	Nonvolatile beta	2.16	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 1D

SAMPLE DATE 09/01/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Radium, total alpha-emitting	3.58						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 2C

SAMPLE DATE 08/08/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Cyanide	<10	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 2D

SAMPLE DATE 09/27/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Cyanide	<10	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 3B**

SAMPLE DATE 08/08/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Radium, total alpha-emitting	.537	JU L					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 3C**

SAMPLE DATE 08/09/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Radium, total alpha-emitting	1.27	J IL					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 4B**

SAMPLE DATE 08/10/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Gross alpha	.4	U					pCi/L	
	Nonvolatile beta	1.12	U					pCi/L	
	Radium, total alpha-emitting	.57	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 6A**

SAMPLE DATE 09/02/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Nitrate-nitrite as nitrogen	326	J K					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 7A

SAMPLE DATE 09/02/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Cyanide	<10	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 7C**

SAMPLE DATE 08/10/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Cyanide	<10	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 13CC**

SAMPLE DATE 08/18/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Radium, total alpha-emitting	.573	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 17B**

SAMPLE DATE 08/24/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Radium, total alpha-emitting	4.06						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 17BB**

SAMPLE DATE 08/21/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Gross alpha	1.41	U					pCi/L	
	Nonvolatile beta	4.71	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 29B**

SAMPLE DATE 08/25/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Cyanide	<10	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 29C**

SAMPLE DATE 08/25/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Chloride	2820						ug/L	
	Fluoride	<100	U					ug/L	
	Sulfate	1190						ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 37B**

SAMPLE DATE 08/29/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U					ug/L	
	1,1-Dichloroethane	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U					ug/L	
	1,2-Dichloroethane	<5	U					ug/L	
	Carbon tetrachloride	<5	U					ug/L	
	Chlorobenzene	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<10	U					ug/L	
	Chloroform	<5	U					ug/L	
	Sulfate	797						ug/L	
	Tetrachloroethylene	10.2	J K					ug/L	
	Trichloroethylene	3.27	J IK					ug/L	
	trans-1,2-Dichloroethylene	<5	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 39D**

SAMPLE DATE 09/19/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Gross alpha	3.11						pCi/L	
	Nonvolatile beta	2.05	J I					pCi/L	
	Radium, total alpha-emitting	2.63						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 43A**

SAMPLE DATE 09/10/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	2,4-Dichlorophenoxyacetic acid	1.05	R LQ					ug/L	
	Cyanide	<10	U					ug/L	
	Lindane	<.05	JU L					ug/L	
	Nitrate-nitrite as nitrogen	1960						ug/L	
	Total organic carbon	<242	U V					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 47D**

SAMPLE DATE 09/10/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Sulfate	849						ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 49D**

SAMPLE DATE 09/11/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Nitrate-nitrite as nitrogen	759						ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 59D**

SAMPLE DATE 09/14/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Gross alpha	2.71						pCi/L	
	Nonvolatile beta	1.13	J I					pCi/L	
	Radium, total alpha-emitting	2.29						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 62B**

SAMPLE DATE 08/23/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Gross alpha	-.09	U					pCi/L	
	Nonvolatile beta	-15.9	JU					pCi/L	
	Radium, total alpha-emitting	.35	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 63C**

SAMPLE DATE 09/26/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Gross alpha	2.35	J I					pCi/L	
	Nonvolatile beta	1.57	U					pCi/L	
	Radium, total alpha-emitting	.752	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 63D**

SAMPLE DATE 09/26/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Radium, total alpha-emitting	.076	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 70C**

SAMPLE DATE 08/22/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Nitrate-nitrite as nitrogen	<i>14400</i>						ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 84A**

SAMPLE DATE 10/25/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Nonvolatile beta			11.16		< 50	1	pCi/L	TM

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL RWM 10**

SAMPLE DATE 09/12/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>3Q00</u>	<u>CLPEPA</u>	<u>4Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Gross alpha	5.99						pCi/L	
	Nonvolatile beta	7.77						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Fourth Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Fourth Quarter 2000.

Table D-10. Constituents Exceeding the Groundwater Protection or Monitoring Constituents Standard in Point of Compliance Wells, M-Area HWMF

M-Area Aquifer Zone

POC Well Name	Constituent	1Q00	3Q00	Units	GWPS ^a	MCS ^b
MSB 4D	Nitrate-nitrite as nitrogen		3530	ug/L		> 2400
MSB 13D	Nitrate-nitrite as nitrogen		23400	ug/L		> 2400
MSB 62D	Nitrate-nitrite as nitrogen		14300	ug/L		> 2400
MSB 2D	Radium, total alpha-emitting		6.37	pCi/L		> 5
MSB 1D	Tetrachloroethylene	17.8		ug/L	> 5	
MSB 4D	Tetrachloroethylene		34.5	ug/L	> 5	
MSB 8A	Tetrachloroethylene	36.7		ug/L	> 5	
MSB 62D	Tetrachloroethylene	32.7		ug/L	> 5	
MSB 63D	Tetrachloroethylene	220		ug/L	> 5	
MSB 1D	Trichloroethylene	17.3		ug/L	> 5	
MSB 4D	Trichloroethylene		70.4	ug/L	> 5	
MSB 8A	Trichloroethylene	5.96		ug/L	> 5	
MSB 62D	Trichloroethylene	8.51		ug/L	> 5	
MSB 63D	Trichloroethylene	20.2		ug/L	> 5	

Upper Lost Lake Aquifer Zone

POC Well Name	Constituent	1Q00	3Q00	Units	GWPS	MCS
MSB 5C	1,1-Dichloroethylene	36.6		ug/L	> 7	
MSB 8C	1,1-Dichloroethylene	7.96		ug/L	> 7	
MSB 1C	Nitrate-nitrite as nitrogen		11600	ug/L		> 2400
MSB 2C	Nitrate-nitrite as nitrogen		13200	ug/L		> 2400
MSB 3C	Nitrate-nitrite as nitrogen		4740	ug/L		> 2400
MSB 4C	Nitrate-nitrite as nitrogen		18200	ug/L		> 2400
MSB 5C	Nitrate-nitrite as nitrogen		23700	ug/L		> 2400
MSB 6C	Nitrate-nitrite as nitrogen		11700	ug/L		> 2400
MSB 7C	Nitrate-nitrite as nitrogen		17000	ug/L		> 2400
MSB 8C	Nitrate-nitrite as nitrogen		63300	ug/L		> 2400
MSB 13CC	Nitrate-nitrite as nitrogen		19200	ug/L		> 2400
MSB 62C	Nitrate-nitrite as nitrogen		4000	ug/L		> 2400
MSB 64C	Nitrate-nitrite as nitrogen		20000	ug/L		> 2400
MSB 8C	Nonvolatile beta		75.4	pCi/L		> 50
MSB 1C	Tetrachloroethylene		657	ug/L	> 5	
MSB 2C	Tetrachloroethylene		39000	ug/L	> 5	
MSB 5C	Tetrachloroethylene	151		ug/L	> 5	
MSB 6C	Tetrachloroethylene	61.5	61.2	ug/L	> 5	
MSB 7C	Tetrachloroethylene	62.1	60	ug/L	> 5	
MSB 8C	Tetrachloroethylene	68.1	64.5	ug/L	> 5	
MSB 13CC	Tetrachloroethylene	14.9	14.7	ug/L	> 5	
MSB 62C	Tetrachloroethylene	17.6		ug/L	> 5	
MSB 63C	Tetrachloroethylene		160	ug/L	> 5	
MSB 1C	Trichloroethylene		434	ug/L	> 5	
MSB 2C	Trichloroethylene		25000	ug/L	> 5	
MSB 5C	Trichloroethylene	28.5		ug/L	> 5	

Table D-10. Constituents Exceeding the Groundwater Protection or Monitoring Constituents Standard in Point of Compliance Wells, M-Area HWMF (Cont.)

Upper Lost Lake Aquifer Zone (cont.)

POC Well Name	Constituent	1Q00	3Q00	Units	GWPS	MCS
MSB 6C	Trichloroethylene	11.3	11.9	ug/L	> 5	
MSB 7C	Trichloroethylene	20.9		ug/L	> 5	
MSB 8C	Trichloroethylene	43.4	34.6	ug/L	> 5	
MSB 13CC	Trichloroethylene	9.88	13.5	ug/L	> 5	
MSB 62C	Trichloroethylene	20.8		ug/L	> 5	

Lower Lost Lake Aquifer Zone

POC Well Name	Constituent	1Q00	3Q00	Units	GWPS	MCS
MSB 7B	1,1-Dichloroethylene		8.3	ug/L	> 7	
MSB 13A	Chlorobenzene	11.3		ug/L		
MSB 63B	Chlorobenzene	6.5		ug/L		
MSB 6B	Lead, total recoverable		244	ug/L	> 15	
MSB 1B	Nitrate-nitrite as nitrogen		3290	ug/L		> 2400
MSB 2B	Nitrate-nitrite as nitrogen		4430	ug/L		> 2400
MSB 7B	Nitrate-nitrite as nitrogen		8730	ug/L		> 2400
MSB 13A	Nitrate-nitrite as nitrogen		2410	ug/L		> 2400
MSB 1B	Tetrachloroethylene		9.3	ug/L	> 5	
MSB 2B	Tetrachloroethylene		13000	ug/L	> 5	
MSB 3B	Tetrachloroethylene		356	ug/L	> 5	
MSB 4B	Tetrachloroethylene		73	ug/L	> 5	
MSB 6B	Tetrachloroethylene	91.1		ug/L	> 5	
MSB 7B	Tetrachloroethylene	66.1	65	ug/L	> 5	
MSB 8B	Tetrachloroethylene	5.38	6.83	ug/L	> 5	
MSB 13A	Tetrachloroethylene	15.8		ug/L	> 5	
MSB 63B	Tetrachloroethylene	125	100	ug/L	> 5	
MSB 1B	Trichloroethylene		1630	ug/L	> 5	
MSB 2B	Trichloroethylene		13000	ug/L	> 5	
MSB 3B	Trichloroethylene		1310	ug/L	> 5	
MSB 4B	Trichloroethylene		1200	ug/L	> 5	
MSB 5B	Trichloroethylene		21.5	ug/L	> 5	
MSB 6B	Trichloroethylene	2880		ug/L	> 5	
MSB 7B	Trichloroethylene	50.4		ug/L	> 5	
MSB 8B	Trichloroethylene	47.5	45.1	ug/L	> 5	
MSB 13A	Trichloroethylene	1210		ug/L	> 5	
MSB 63B	Trichloroethylene	684	540	ug/L	> 5	

- a-** GWPS column shows the maximum concentration limits from the Groundwater Protection Standard of the M-Area HWMF Part B permit application.
- b-** MCS column shows the maximum concentration limits from the Monitoring Constituent Standard list of the M-Area HWMF Part B permit application.

Table D-11. Constituents Exceeding the Groundwater Protection or Monitoring Constituents Standard in Point of Compliance Wells, Met Lab HWMF

M-Area Aquifer Zone

POC Well Name	Constituent	1Q00	3Q00	Units	GWPS	MCS
AMB 6	Lead, total recoverable	15.1		ug/L	> 15	
AMB 5	Nitrate-nitrite as nitrogen		4010	ug/L		> 2400
AMB 5	Sodium, total recoverable	5040	5370	ug/L		> 4600
AMB 6	Sodium, total recoverable	7030	dry	ug/L		> 4600
AMB 8D	Sodium, total recoverable	6810	6340	ug/L		> 4600
AMB 9D	Sodium, total recoverable	9760	8920	ug/L		> 4600
AMB 10D	Sodium, total recoverable	8980	8940	ug/L		> 4600
AMB 6	Sulfate	4010	dry	ug/L		> 3000
AMB 9D	Sulfate	4800	5330	ug/L		> 3000
AMB 10D	Sulfate	4270		ug/L		> 3000
AMB 5	Trichloroethylene	5.7	14	ug/L	> 5	

Upper Lost Lake Aquifer Zone

POC Well Name	Constituent	1Q00	3Q00	Units	GWPS	MCS
AMB 18C	Lead, total recoverable	15.7	31.4	ug/L	> 15	
AMB 19C	Lead, total recoverable	98.8	28.6	ug/L	> 15	
AMB 19C	Sodium, total recoverable	10300	9100	ug/L		> 4600
AMB 19C	Sulfate	5160	4790	ug/L		> 3000

Lower Lost Lake Aquifer Zone

POC Well Name	Constituent	1Q00	3Q00	Units	GWPS	MCS
AMB 10B	Sodium, total recoverable		5340	ug/L		> 4600
AMB 10B	Sodium, total recoverable	4950		ug/L		> 4600

Middle Sand Aquifer Zone of the Crouch Branch Aquifer Unit

POC Well Name	Constituent	1Q00	3Q00	Units	GWPS	MCS
AMB 17A	Nitrate-nitrite as nitrogen		2570	ug/L		> 2400
AMB 10A	Sodium, total recoverable	7170	4840	ug/L		> 4600
AMB 10A	Sulfate	5510	3640	ug/L		> 3000
AMB 4A	Tetrachloroethylene	62		ug/L	>5	
AMB 17A	Tetrachloroethylene	25		ug/L	>5	
AMB 4A	Trichloroethylene	380		ug/L	>5	
AMB 17A	Trichloroethylene	170		ug/L	>5	
AMB 18A	Trichloroethylene	24		ug/L	>5	

- a- GWPS column shows the maximum concentration limits from the Groundwater Protection Standard of the Metallurgical Laboratory Part B permit application.
- b- MCS column shows the maximum concentration limits from the Monitoring Constituent Standard list of the Metallurgical Laboratory HWMF Part B permit application.

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Table D-12. Summary of Sampling for Appendix IX Analytes to Identify New Constituents Not Currently Included in the Groundwater Protection Standard

M Area HWMF		
<u>3Q00 Wells</u>	<u>New Appendix IX Constituent</u>	<u>Maximum Result</u>
MSB 2B	NA ^a	
MSB 2C	NA	
MSB 2D	NA	
MSB 7A	NA	
MSB 7B	NA	
MSB 7C	NA	
MSB 63C	NA	
MSB 63D	NA	
Met Lab HWMF		
<u>1Q00 Wells</u>	<u>New Appendix IX Constituent</u>	<u>Maximum Result</u>
AMB 4D	NA	
AMB 10B	NA	
AMB 16D	NA	
AMB 17A	NA	
AMB 18A	NA	
AMB 18C	NA	

^a NA = not applicable. No Appendix IX Constituents not already included in the GWPS currently used to determine compliance were detected from this well at levels above sample quantitation limits, or were without the qualifiers “L”, “R”, “U”, or “J”.

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Table D-13. Horizontal Gradients and Flow Rates in the Five Aquifer Zones**First Quarter 2000**

Aquifer Zone	Transect	Horizontal Gradient	Flow Rate (ft/day)	Flow Rate (ft/year)
M-Area	A-A' ^a	0.0040	0.54	198
	B-B'	0.0057	0.77	278
Upper Lost Lake	A-A'	0.0028	0.62	226
	B-B'	0.0034	0.78	283
Lower Lost Lake	A-A'	0.0032	0.72	264
	B-B'	0.0028	0.62	227
Middle Sand of the CBCU	A-A'	0.0043	0.97	354
	B-B'	0.0019	0.44	159
Crouch Branch	A-A'	0.0034	0.69	251

Second Quarter 2000

Aquifer Zone	Transect	Horizontal Gradient	Flow Rate (ft/day)	Flow Rate (ft/year)
M-Area	A-A' ^a	0.0040	0.54	197
	B-B'	0.0075	1.01	370
Upper Lost Lake	A-A'	0.0032	0.72	262
	B-B'	0.0024	0.55	201
Lower Lost Lake	A-A'	0.0036	0.80	293
	B-B'	0.0023	0.51	185
Middle Sand of the CBCU	A-A'	0.0041	0.92	338
	B-B'	0.0022	0.50	183
Crouch Branch	A-A'	0.0034	0.67	246

^a Gradients were determined along transects oriented to represent the minimum and maximum gradient evident on the piezometric and potentiometric maps in Appendix H (Volume III) of this report.

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Table D-14a. CUSUM Analysis of Trichloroethylene and Tetrachloroethelyene Concentrations in Selected Monitoring Wells

Well Name	Analyte Tetrachloroethylene	1Q00 Comparison to Long Term Trend	3Q00 Comparison to Long Term Trend	Long Term Trend Direction Since 1Q94
M-Area Aquifer Zone				
MSB 4D	Tetrachloroethylene	Same Trend	Same Trend	No Trend
MSB 18B	Tetrachloroethylene	Same Trend	Same Trend	No Trend
MSB 19C	Tetrachloroethylene	Same Trend	Same Trend	Downward Trend
MSB 26	Tetrachloroethylene	Same Trend	Same Trend	No Trend
MSB 34C	Tetrachloroethylene	Same Trend	Same Trend	Downward Trend
Upper Lost Lake Aquifer Zone				
MSB 12B	Tetrachloroethylene	Same Trend	Same Trend	Upward Trend
MSB 15A	Tetrachloroethylene	Same Trend	Same Trend	Upward Trend
MSB 16A	Tetrachloroethylene	Same Trend	Same Trend	Upward Trend
MSB 34B	Tetrachloroethylene	Same Trend	Same Trend	No Trend
MSB 39C	Tetrachloroethylene	Same Trend	Same Trend	Downward Trend
MSB27B	Tetrachloroethylene	Same Trend	Same Trend	Downward Trend
MSB33C	Tetrachloroethylene	Same Trend	Not Decision Data	Downward Trend
MSB36C	Tetrachloroethylene	Same Trend	Not Decision Data	Downward Trend
Lower Lost Lake Aquifer Zone				
MSB 9A	Tetrachloroethylene	Same Trend	Same Trend	No Trend
MSB 13A	Tetrachloroethylene	Same Trend	Same Trend	Upward Trend
MSB 25A	Tetrachloroethylene	Same Trend	Same Trend	No Trend
MSB 33B	Tetrachloroethylene	Same Trend	Same Trend	Downward Trend
MSB 37C	Tetrachloroethylene	Same Trend	Same Trend	Downward Trend
MSB 39B	Tetrachloroethylene	Upward Trend	Upward Trend	Downward Trend
Middle Sand Aquifer Zone-Crouch Branch Confining Unit				
MSB 37B	Tetrachloroethylene	Same Trend	Same Trend	No Trend
MSB 41B	Tetrachloroethylene	Same Trend	Not Decision Data	No Trend

Table D-14a. CUSUM Analysis of Trichloroethylene and Tetrachloroethylene Concentrations in Selected Monitoring Wells (continued)

Well Name	Analyte Trichloroethylene	1Q00 Comparison to Long Term Trend	3Q00 Comparison to Long Term Trend	Long Term Trend Direction Since 1Q94
M-Area Aquifer Zone				
MSB 4D	Trichloroethylene	Same Trend	Same Trend	No Trend
MSB 18B	Trichloroethylene	Same Trend	Same Trend	Downward Trend
MSB 19C	Trichloroethylene	Same Trend	Same Trend	Downward Trend
MSB 26	Trichloroethylene	Same Trend	Same Trend	No Trend
MSB 34C	Trichloroethylene	Same Trend	Same Trend	Downward Trend
Upper Lost Lake Aquifer Zone				
MSB 12B	Trichloroethylene	Same Trend	Same Trend	No Trend
MSB 15A	Trichloroethylene	Same Trend	Same Trend	Upward Trend
MSB 16A	Trichloroethylene	Same Trend	Same Trend	Downward Trend
MSB 18A	Trichloroethylene	Same Trend	Same Trend	Upward Trend
MSB 20A	Trichloroethylene	Same Trend	Same Trend	Upward Trend
MSB 27B	Trichloroethylene	Same Trend	Same Trend	Downward Trend
MSB 33C	Trichloroethylene	Same Trend	Not Decision Data	Downward Trend
MSB 34B	Trichloroethylene	Upward Trend	Upward Trend	No Trend
MSB 36C	Trichloroethylene	Same Trend	Same Trend	Downward Trend
Lower Lost Lake Aquifer Zone				
MSB 4B	Trichloroethylene	Same Trend	Same Trend	Downward Trend
MSB 9A	Trichloroethylene	Same Trend	Same Trend	No Trend
MSB 13A	Trichloroethylene	Same Trend	Same Trend	Upward Trend
MSB 25A	Trichloroethylene	Same Trend	Same Trend	Downward Trend
MSB 33B	Trichloroethylene	Same Trend	Same Trend	Downward Trend
MSB 34A	Trichloroethylene	Same Trend	Same Trend	No Trend
MSB 37C	Trichloroethylene	Same Trend	Not Decision Data	Downward Trend
Middle Sand Aquifer Zone-Crouch Branch Confining Unit				
MSB 33A	Trichloroethylene	Same Trend	Same Trend	Downward Trend
MSB 37B	Trichloroethylene	Same Trend	Same Trend	No Trend
MSB 41B	Trichloroethylene	Same Trend	Not Decision Data	No Trend

Table D-14b. CUSUM Analysis of Trichloroethylene and Tetrachloroethylene Concentrations in Recovery Wells

Well Name	Analyte	1Q00 Comparison to Long Term Trend	3Q00 Comparison to Long Term Trend	Long Term Trend Direction Since 1Q94
RWM 1	Tetrachloroethylene	Same Trend	Same Trend	No Trend
RWM 2	Tetrachloroethylene	Same Trend	Non Decision Data	No Trend
RWM 3	Tetrachloroethylene	Same Trend	Same Trend	Downward Trend
RWM 5	Tetrachloroethylene	Same Trend	Same Trend	Downward Trend
RWM 6	Tetrachloroethylene	Same Trend	Same Trend	Downward Trend
RWM 7	Tetrachloroethylene	Same Trend	Upward Trend	Upward Trend
RWM 8	Tetrachloroethylene	Same Trend	Same Trend	No Trend
RWM 9	Tetrachloroethylene	Same Trend	Upward Trend	No Trend
RWM 13C	Tetrachloroethylene	Same Trend	Same Trend	Downward Trend
RWM 14B	Tetrachloroethylene	Same Trend	Same Trend	Downward Trend
RWM 1	Trichloroethylene	Same Trend	Same Trend	Downward Trend
RWM 2	Trichloroethylene	Same Trend	Non Decision Data	Downward Trend
RWM 3	Trichloroethylene	Same Trend	Same Trend	Downward Trend
RWM 4	Trichloroethylene	Same Trend	Same Trend	No Trend
RWM 5	Trichloroethylene	Same Trend	Same Trend	No Trend
RWM 6	Trichloroethylene	Same Trend	Same Trend	Downward Trend
RWM 7	Trichloroethylene	Same Trend	Same Trend	No Trend
RWM 8	Trichloroethylene	Same Trend	Same Trend	No Trend
RWM 9	Trichloroethylene	Same Trend	Same Trend	Upward Trend
RWM 10	Trichloroethylene	Same Trend	Upward Trend	No Trend
RWM 11	Trichloroethylene	Same Trend	Upward Trend	Downward Trend
RWM 12	Trichloroethylene	Same Trend	Same Trend	Downward Trend
RWM 13B	Trichloroethylene	Same Trend	Same Trend	Downward Trend
RWM 13C	Trichloroethylene	Same Trend	Same Trend	Downward Trend
RWM 14B	Trichloroethylene	Same Trend	Same Trend	Downward Trend
RWM 14C	Trichloroethylene	Same Trend	Same Trend	Downward Trend
RWM 15B	Trichloroethylene	Same Trend	Same Trend	Downward Trend

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Table D-15. Operating and Performance Summary of the M-1 Air Stripper 2000

<u>Operation Parameter</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Semi-Annual Totals</u>
Average Operating Time (hrs)	744	695.2	641.6	709	729	668.5	4,187
Downtime (hrs)	0	0.8	102.4	11	15	51.5	181
Throughput (gal)	15,805,333	15,020,667	16,389,048	19,844,590	20,349,130	18,074,150	105,482,918
Total Solvent Removed (lbs)	922.5	876.7	1,005.8	769.4	1,091.0	863.5	5,529
PCE Solvent Removed (lbs)	461.2	438.3	423.6	339.2	493.7	388.8	2,545
TCE Solvent Removed (lbs)	461.2	438.3	582.1	430.2	597.2	474.7	2,984
Average Concentration (ug/L)							
Stripper Influent							
PCE	3500	3500	3100	2050	2910	2580	
TCE	3500	3500	4260	2600	3520	3150	
Total	7,000	7,000	7,360	4,650	6,430	5,730	
Stripper Effluent							
PCE	0.0	0.0	0.0	0.0	0.0	0.0	0
TCE	0.0	0.0	0.0	0.0	0.0	0.0	0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0

Table D-15. Operating and Performance Summary of the M-1 Air Stripper 2000 (Cont.)

<u>Operation Parameter</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Cumulative Total</u>	<u>Monthly Average</u>
Average Operating Time (hrs)	741.2	733	697.6	736.5	708.5	743	8547.1	712.26
Downtime (hrs)	2.8	11	22.4	7.5	11.5	1	236.9	19.74
Throughput (gal)	19,317,490	18,825,430	16,777,410	19,006,120	18,420,340	18,975,660	216,805,368	18,067,114
Total Solvent Removed (lbs)	740.9	1,042.3	734.4	697.3	614.4	759.5	10,117.7	843.14
PCE Solvent Removed (lbs)	281.9	445.8	320.3	301.1	307.2	348.1	4549.2	379.1
TCE Solvent Removed (lbs)	459.0	596.5	414.1	396.2	307.2	411.4	5568.1	464.01
Average Concentration (ug/L)								
Stripper Influent								
PCE	1750	2840	2290	1900	2000	2200		2551.67
TCE	2850	3800	2960	2500	2000	2600		3103.33
Total	4,600	6,640	5,250	4,400	4,000	4,800		5655
Stripper Effluent								
PCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE D-16. Operating and Performance Summary of the A-2 Air Stripper 2000

<u>Operation Parameter</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Semi-Annual Totals</u>
Average Operating Time (hrs)	743.4	695.8	726.8	719.2	742.9	719.6	4,348
Downtime (hrs)	0.6	0.2	17.2	0.8	1.1	0.4	20
Throughput (gal)	13,177,816	12,461,645	12,935,861	12,776,508	13,155,428	12,814,949	77,322,207
Total Solvent Removed (lbs)	158.22	147.53	148.85	120.13	117.32	124.02	816
PCE Solvent Removed (lbs)	1.10	1.02	1.08	2.42	1.05	1.14	8
TCE Solvent Removed (lbs)	157.12	146.51	147.77	117.72	116.27	122.88	808
Average Concentration (ug/L)							
Stripper Influent							
PCE	10	9.85	10	22.7	9.55	10.7	
TCE	1430	1410	1370	1105	1060	1150	
Total	1440	1420	1380	1127.7	1069.55	1160.7	
Stripper Effluent							
Tetrachloroethylene	0	0	0	0	0	0	0
Trichloroethylene	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

TABLE D-16. Operating and Performance Summary of the A-2 Air Stripper 2000 (cont.)

<u>Operation Parameter</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Yearly Total</u>	<u>Monthly Average</u>
Average Operating Time (hrs)	744	726.9	715.7	744	720	693	8691.3	
Downtime (hrs)	0	17.1	4.3	0	0	51	92.7	
Throughput (gal)	13,215,450	12,846,334	12,069,788	13,232,686	12,779,087	12,298,646	153,764,198	12,813,683
Total Solvent Removed (lbs)	119.97	95.46	95.49	124.55	87.24	105.50	1444.2	0
PCE Solvent Removed (lbs)	0.96	1.09	2.90	3.18	3.07	2.95	21.96	120.3
TCE Solvent Removed (lbs)	119.01	94.37	92.59	121.37	84.18	102.55	1422.31	68.54
								0
								51.82
Average Concentration (ug/L)								
Stripper Influent								
PCE	8.75	10.2	28.8	28.8	28.8	28.8		
TCE	1080	881	920	1100	790	1000		
Total	1088.75	891.2	948.8	1128.8	818.8	1028.8		
Stripper Effluent								
PCE	0	0	0	0	0	0	0	0
TCE	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

Table D-17. Summary of Operation Of the SVEU Vadose Unit 782-3M for 2000

<u>Operation Parameter</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Semi-Annual Totals</u>	<u>Semi-Annual Monthly Average</u>
Operating Time (hours)	744	679	741	720	737	716	4337	
Downtime (hours)	0	18	3	0	7	4	32	
Total Solvent Removed (lbs.)	1517	1151	1118	1078	1220	1211	7295	
Average Vapor Flow Rate (scfm)	571	541	533	517	527	537		538
Average Concentration influent (ppmv)	141	125	113	115	125	125		124
<u>Operation Parameter</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Yearly Total</u>	<u>Monthly Average</u>
Operating Time (hours)	744	729	704	735	720	732	8701	725
Downtime (hours)	0	15	16	9	0	12	83	6.91
Total Solvent Removed (lbs.)	1395	1364	1011	1048	802	702	13615.72	1134.643
Average Vapor Flow Rate (scfm)	522	520	520	534	532	544		533.1125
Average Concentration influent (ppmv)	143	143	110	106	121	71		119.8258

Table D-18. Summary of Operation of the SVEU Vadose Unit 782-4M for 2000

<u>Operation Parameter</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Semi-Annual Totals</u>	
Operating Time (hours)	744	690	736	720	744	718	4352	
Downtime (hours)	0	6	8	0	0	2	16	
Total Solvent Removed (lbs.)	1520	1816	1550	1479	1800	1499	9664	
Average Vapor Flow Rate (scfm)	369	392	379	370	376	369		
Average Concentration Influent (ppmv)	226	272	226	226	260	229		
<u>Operation Parameter</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Yearly Total</u>	<u>Monthly Average</u>
Operating Time (hours)	744	728	718	744	667	731	8684	723.67
Downtime (hours)	0	16	2	0	53	13	100	8.33
Total Solvent Removed (lbs.)	1400	1480	1137	1255	862	784	16580.38	1381.70
Average Vapor Flow Rate (scfm)	367	379	400	412	379	390		381.82
Average Concentration Influent (ppmv)	209	218	163	465	140	113		228.73

Table D-19. Summary of Operation of the SVEU Vadose Unit 782-6M for 2000

Operation Parameter	Jan	Feb	Mar	Apr	May	Jun	Semi-Annual Totals	
Operating Time (hours)	742.5	695.5	156	0	0	0	1594	
Downtime (hours)	1	0	588	720	744	720	2773	
Total Solvent Removed (lbs.)	1892.64	2570.77	533.52	0	0	0	4996.93	
Average Vapor Flow Rate (scfm)	589.37	629.98	249.92	0	0	0	N/A	
Average Concentration (ppmv)	193.36	234.66	545.00	0	0	0	N/A	
Operation Parameter	Jul	Aug	Sep	Oct	Nov	Dec	<u>Yearly Total</u>	<u>Monthly Average</u>
Operating Time (hours)	350.5	722	717	741	632	477	5257.25	437.9
Downtime (hours)	393	22	3	3.25	88	267	3529	294.01
Total Solvent Removed (lbs.)	903	519	496.56	640	1507	3105	12166.96	1013.913
Average Vapor Flow Rate (scfm)	492	488	457.25	495	634	593	N/A	385.67
Average Concentration (ppmv)	216	61	62.80	72	148	448	N/A	165.08

Table D-20. Summary of Operation of the SVEU Vadose Unit 782-7M for 2000

Operation Parameter	Jan	Feb	Mar	Apr	May	Jun	Semi Annual Totals	
Operating Time (hours)	743	695	744	720	741	720	4363	
Downtime (hours)	1	1	0	0	3	0	5	
Total Solvent Removed (lbs.)	271.00	227.00	204.00	185.00	157.00	131.00	1175	
Average Vapor Flow Rate (scfm)	325.00	325.00	325.00	325.00	325.00	325.00		
Average Concentration influent (ppmv)	48	43	36	33	27	25		
Operation Parameter	Jul	Aug	Sep	Oct	Nov	Dec	<u>Yearly Total</u>	<u>Monthly Average</u>
Operating Time (hours)	744	741	720	744	192	589	8093	674.4167
Downtime (hours)	0	3	0	0	528	155	691	5758
Total Solvent Removed (lbs.)	183.00	120.00	103.00	111.00	29	79	1800	150
Average Vapor Flow Rate (scfm)	325.00	325.00	325.00	325.00	325	325		325
Average Concentration influent (ppmv)	26	21	19	20	20.00	19.00		28.08333

Table D-21. Summary of Volume Pumped from Recovery Wells, 2000

Well Number	Jan-00				Feb-00				Mar-00			
	Monthly Volume (Gal.)	Cumulative Volume Since 4/85 (Gal.)	Average Flow Rate (gpm)	Well Operation (hours)	Monthly Volume (Gal.)	Cumulative Volume Since 4/85 (Gal.)	Average Flow Rate (gpm)	Well Operation (hours)	Monthly Volume (Gal.)	Cumulative Volume Since 4/85 (Gal.)	Average Flow Rate (gpm)	Well Operation (hours)
RWM1	532,694	146,430,031	20	455	784,956	147,214,987	19	694	737,683	147,952,670	20	629
RWM2	1,159,582	141,312,490	26	746	1,076,453	142,388,943	26	691	980,311	143,369,254	26	637
RWM3	2,592,503	383,489,045	58	746	2,519,619	386,008,664	60	695	<i>2,295,791</i>	388,304,455	61	632
RWM4	1,283,228	258,089,138	47	454	1,990,095	260,079,233	48	695	<i>1,814,349</i>	261,893,582	47	638
RWM5	2,180,540	258,129,281	49	746	2,035,466	260,164,747	49	694	1,850,620	260,164,747	48	638
RWM6	3,083,365	363,371,188	69	747	2,882,343	366,253,531	69	694	2,626,342	368,879,873	65	669
RWM7	1,725,766	214,390,855	39	738	1,546,999	215,937,854	38	677	<i>1,448,411</i>	217,386,265	38	638
RWM8	846,427	227,125,912	46	307	1,911,456	229,037,368	46	694	1,850,872	230,888,240	48	638
RWM9	837,672	249,262,114	47	294	66,811	249,328,925	46	24	1,101,295	250,430,220	46	398
RWM10	927,992	274,289,536	34	455	1,439,790	275,729,326	36	658	1,281,782	277,011,108	33	638
RWM11	1,992,326	417,761,069	73	452	0	417,761,069	0	0	1,710,523	419,471,592	72	398
RWM12	2,210,681	164,831,624	50	742	<i>2,069,981</i>	166,901,605	50	696	2,160,204	169,061,809	50	727
RWM13B	1,833,270	64,218,072	41	743	1,700,281	65,918,353	41	692	1,788,057	67,706,410	41	729
RWM13C	<i>3,119,087</i>	<i>110,193,229</i>	70	743	2,894,644	113,087,873	70	692	3,048,657	116,136,530	70	729
RWM14B	2,067,669	73,881,944	47	741	1,936,089	75,818,033	46	695	<i>2,026,146</i>	77,844,179	46	727
RWM14C	1,859,030	69,012,126	43	719	<i>1,794,612</i>	70,806,738	43	695	1,874,889	72,681,627	43	727
RWM15B	1,957,104	62,748,023	44	743	1,827,788	64,575,811	44	695	1,912,684	66,488,495	44	729
RWM17B	0	0	0	0	0	0	0	0	0	0	0	0
RWM17D	0	0	0	0	0	0	0	0	0	0	0	0

Italicized numbers show modified formulae for rollover readings.

Bold #s are estimated corrections of erroneous readings or equipment malfunction.

Table D-21. Summary of Volume Pumped from Recovery Wells, 2000 (Cont.)

Well Number	Apr-00				May-00				Jun-00			
	Monthly Volume (Gal.)	Cumulative Volume Since 4/85 (Gal.)	Average Flow Rate (gpm)	Well Operation (hours)	Monthly Volume (Gal.)	Cumulative Volume Since 4/85 (Gal.)	Average Flow Rate (gpm)	Well Operation (hours)	Monthly Volume (Gal.)	Cumulative Volume Since 4/85 (Gal.)	Average Flow Rate (gpm)	Well Operation (hours)
RWM1	792,099	148,744,769	19	706	780,996	149,525,765	18	735	516,672	150,042,437	18	478
RWM2	1,080,969	144,450,223	25	707	1,022,854	145,473,077	24	697	438,553	145,911,630	27	270
RWM3	2,540,078	390,844,533	60	707	2,496,784	393,341,317	60	696	2,563,485	395,904,802	61	699
RWM4	1,991,242	263,884,824	47	705	1,975,851	265,860,675	47	698	1,988,526	267,849,201	47	700
RWM5	2,047,092	262,211,839	48	710	2,014,895	264,226,734	48	696	2,026,383	266,253,117	48	699
RWM6	2,756,070	371,635,943	68	678	2,852,813	374,488,756	68	701	2,874,973	377,363,729	69	696
RWM7	1,509,371	218,895,636	36	708	1,544,568	220,440,204	37	701	1,246,096	221,686,300	38	550
RWM8	1,831,728	232,719,968	45	672	1,936,460	234,656,428	44	733	1,945,162	236,601,590	46	699
RWM9	1,954,248	252,384,468	47	697	1,937,109	254,321,577	46	701	1,924,138	256,245,715	46	696
RWM10	1,364,820	278,375,928	32	706	1,353,150	279,729,078	32	698	1,242,474	280,971,552	38	545
RWM11	2,984,679	422,456,271	70	709	3,015,227	425,471,498	72	701	3,001,024	428,472,522	72	696
RWM12	2,135,190	171,196,999	50	718	2,141,000	173,337,999	50	721	2,187,737	175,525,736	49	739
RWM13B	1,760,215	69,466,625	41	719	1,761,728	71,228,353	41	719	<i>1,810,817</i>	73,039,170	41	741
RWM13C	3,004,785	119,141,315	70	719	2,985,996	122,127,311	70	716	3,083,822	125,211,133	69	742
RWM14B	2,009,765	79,853,944	47	718	1,988,575	81,842,519	46	719	2,044,939	83,887,458	46	737
RWM14C	1,850,185	74,531,812	43	718	1,802,501	76,334,313	43	701	1,910,369	78,244,682	43	742
RWM15B	1,885,867	68,374,362	44	719	1,889,909	70,264,271	44	719	1,945,965	72,210,236	44	741
RWM17B	0	0	0	0	0	0	0	0	0	0	0	0
RWM17D	0	0	0	0	0	0	0	0	0	0	0	0

Italicized numbers show modified formulae for rollover readings.

Bold #s are estimated corrections of erroneous readings or equipment malfunction.

Table D-21. Summary of Volume Pumped from Recovery Wells, 2000 (Cont.)

Well Number	Jul-00				Aug-00				Sep-00			
	Monthly Volume (Gal.)	Cumulative Volume Since 4/85 (Gal.)	Average Flow Rate (gpm)	Well Operation (hours)	Monthly Volume (Gal.)	Cumulative Volume Since 4/85 (Gal.)	Average Flow Rate (gpm)	Well Operation (hours)	Monthly Volume (Gal.)	Cumulative Volume Since 4/85 (Gal.)	Average Flow Rate (gpm)	Well Operation (hours)
RWM1	691,920	150,734,357	16	744	500,056	151,234,413	15	546	487,109	151,721,522	12	692
RWM2/DUS	0	145,911,630	0	0	0	145,911,630	0	0	57,935	145,969,565	1	720*
RWM3	3,254,247	399,159,049	73	742	2,725,887	401,884,936	62	732	1,927,083	403,812,019	62	514
RWM4	2,090,934	269,940,135	47	741	2,086,834	272,026,969	47	733	1,989,199	274,016,168	48	695
RWM5	2,144,707	268,397,824	48	742	2,116,117	270,513,941	48	733	2,013,421	272,527,362	48	696
RWM6	3,047,807	380,411,536	69	739	1,458,218	381,869,754	44	558	784,938	382,654,692	20	660
RWM7	1,234,949	222,921,249	38	536	1,739,569	224,660,818	39	735	1,588,949	226,249,767	41	649
RWM8	1,682,786	238,284,376	38	741	2,021,065	240,305,441	46	729	1,932,914	242,238,355	46	696
RWM9	2,089,612	258,335,327	47	741	2,114,420	260,449,747	48	732	1,957,341	262,407,088	48	675
RWM10	1,499,616	282,471,168	34	743	867,516	283,338,684	25	569	1,043,396	284,382,080	25	694
RWM11	5,247,847	433,720,369	118	741	3,154,589	436,874,958	72	732	3,014,357	439,889,315	73	692
RWM12	2,181,149	177,706,885	49	737	2,142,018	179,848,903	49	726	2,041,164	181,890,067	48	716
RWM13B	1,768,922	74,808,092	41	724	1,768,510	76,576,602	41	727	1,668,752	78,245,354	39	715
RWM13C	3,101,929	128,313,062	70	743	3,010,981	131,324,043	69	727	2,843,073	134,167,116	66	715
RWM14B	2,168,489	86,055,947	49	745	1,905,706	87,961,653	44	726	1,893,373	89,855,026	45	707
RWM14C	1,919,282	80,163,964	43	745	1,858,986	82,022,950	43	725	1,627,267	83,650,217	41	661
RWM15B	1,955,955	74,166,191	44	744	1,908,156	76,074,347	44	727	1,803,948	77,878,295	42	715
RWM17B	0	0	0	0	1,034,635	1,034,635	25	703	973,809	2,008,444	25	645
RWM17D	0	0	0	0	444,922	444,922	11	703	516,414	961,336	14	629

Italicized numbers show modified formulae for rollover readings.

Bold #s are estimated corrections of erroneous readings or equipment malfunction.

* - Well RWM2 Disconnected & DUS connected at this Point

Table D-21. Summary of Volume Pumped from Recovery Wells, 2000 (Cont.)

Well Number	Oct-00				Nov-00				Dec-00			
	Monthly Volume (Gal.)	Cumulative Volume Since 4/85 (Gal.)	Average Flow Rate (gpm)	Well Operation (hours)	Monthly Volume (Gal.)	Cumulative Volume Since 4/85 (Gal.)	Average Flow Rate (gpm)	Well Operation (hours)	Monthly Volume (Gal.)	Cumulative Volume Since 4/85 (Gal.)	Average Flow Rate (gpm)	Well Operation (hours)
RWM1	554,365	152,275,887	13	733	632,877	152,908,764	15	687	601,158	153,509,922	14	742
DUS	23,362	145,992,927	1	744	409,175	146,402,102	9	720	154,008	146,556,110	3	744
RWM3	2,733,737	406,545,756	62	737	<i>2,521,806</i>	409,067,562	61	689	2,715,589	411,783,151	61	741
RWM4	2,025,302	276,041,470	46	737	2,019,719	278,061,189	49	687	<i>2,117,909</i>	280,179,098	48	743
RWM5	2,139,375	274,666,737	48	736	1,989,816	276,656,553	48	688	<i>2,155,830</i>	278,812,383	48	743
RWM6	1,259,916	383,914,608	28	741	1,318,106	385,232,714	32	684	1,465,466	386,698,180	33	744
RWM7	1,728,954	227,978,721	40	726	1,609,307	229,588,028	39	684	1,742,366	231,330,394	39	744
RWM8	2,028,008	244,266,363	46	737	1,870,341	246,136,704	45	687	1,505,132	247,641,836	46	549
RWM9	2,128,399	264,535,487	48	740	1,965,249	266,500,736	48	686	2,129,386	268,630,122	48	740
RWM10	1,035,638	285,417,718	24	721	954,909	286,372,627	23	687	<i>1,101,551</i>	287,474,178	25	<i>743</i>
RWM11	3,109,291	442,998,606	71	725	2,914,339	445,912,945	71	686	1,651,187	447,564,132	37	740
RWM12	2,202,578	184,092,645	49	746	<i>2,127,242</i>	186,219,887	49	720	1,937,116	188,157,003	47	690
RWM13B	1,839,762	80,085,116	41	751	1,749,599	81,834,715	41	716	<i>1,693,802</i>	83,528,517	41	689
RWM13C	3,113,568	137,280,684	69	751	2,968,114	140,248,798	69	716	2,866,049	143,114,847	69	689
RWM14B	2,063,604	91,918,630	46	746	1,940,014	93,858,644	45	720	1,955,611	95,814,255	47	690
RWM14C	1,915,666	85,565,883	43	746	1,845,056	87,410,939	43	720	1,765,759	89,176,698	43	690
RWM15B	1,954,073	79,832,368	43	751	1,910,221	81,742,589	44	717	1,823,703	83,566,292	44	689
RWM17B	1,132,327	3,140,771	25	744	1,027,376	4,168,147	25	683	1,079,035	5,247,182	24	738
RWM17D	550,998	1,512,334	12	743	479,270	1,991,604	12	683	534,217	2,525,821	12	738

Italicized numbers show modified formulae for rollover readings.

Bold #s are estimated corrections of erroneous readings or equipment malfunction.

Table D-22. Summary of Average Tetrachloroethylene (PCE) & Trichloroethylene (TCE) Concentration in Recovery Wells

Well Number	January PCE (mg/L)	TCE (mg/L)	Total (mg/L)	February PCE (mg/L)	TCE (mg/L)	Total (mg/L)	March PCE (mg/L)	<u>TCE</u> (mg/L)	Total (mg/L)
RWM 1	4,490	10,500	14,990	19,900	23,200	43,100	17,800	32,900	50,700
RWM 2	12,800	12,200	25,000	13,400	12,100	25,500	11,500	14,200	25,700
RWM 3	1,010	3,580	4,590	1,040	3,360	4,400	820	4,020	4,840
RWM 4	<i>1,585</i>	<i>6,730</i>	8,315	1,100	6,450	7,550	1,510	8,700	10,210
RWM 5	569	1,360	1,929	647	1,640	2,287	524	1,680	2,204
RWM 6	2,780	2,470	5,250	2,950	2,100	5,050	3,110	2,730	5,840
RWM 7	7,291	8,000	15,291	9,220	6,730	15,950	9,740	8,500	18,240
RWM 8	<i>848</i>	<i>1,250</i>	2,098	961	1,220	2,181	734	1,280	2,014
RWM 9	9	<i>169</i>	178	10	166	176	7	172	179
RWM 10	16,800	4,180	20,980	<i>12,265</i>	<i>6,375</i>	18,640	9,030	5,220	14,250
RWM 11	8	890	898	<i>16</i>	<i>463</i>	479	25	177	202
RWM 12	20	2,000	2,020	8	2,280	2,288	9	2,100	2,109
RWM 13B	5	613	618	9	<i>605</i>	614	6	579	585
RWM 13C	3	950	953	23	993	1,016	13	739	752
RWM 14B	9	737	746	6	783	789	6	711	717
RWM 14C	20	4,150	4,170	22	4,070	4,092	31	5,640	5,671
RWM 15B	1	26	27	1	23	24	2	22	24
RWM 17B									
RWM 17D									

NOTE: Numbers in bold are estimated because of missing data or equipment malfunction.
Numbers in italics are averages of two or more samples.

Table D-22. Summary of Average Tetrachloroethylene (PCE) & Trichloroethylene (TCE) Concentration in Recovery Wells (Cont.)

Well Number	April PCE (mg/L)	TCE (mg/L)	Total (mg/L)	May PCE (mg/L)	TCE (mg/L)	Total (mg/L)	June PCE (mg/L)	<u>TCE</u> (mg/L)	Total (mg/L)
RWM 1	22,900	29,000	51,900	14,800	18,100	32,900	18,500	<i>21,900</i>	<i>40,400</i>
RWM 2	14,200	15,400	29,600	13,033	13,900	26,933	0	0	0
RWM 3	811	2,920	3,731	853	3,340	4,193	788	3,080	3,868
RWM 4	1,070	<i>6,090</i>	<i>7,160</i>	1,250	6,690	7,940	1,250	7,300	8,550
RWM 5	523	1,530	2,053	574	1,690	2,264	585	1,550	2,135
RWM 6	2,960	2,480	5,440	2,520	1,780	4,300	2,600	1,980	4,580
RWM 7	9,770	8,150	17,920	5,340	7,793	13,133	9,590	7,130	16,720
RWM 8	1,020	1,660	2,680	466	786	1,252	431	<i>743</i>	<i>1,174</i>
RWM 9	6	<i>120</i>	<i>126</i>	8	153	160	11	205	216
RWM 10	15,500	7,530	23,030	12,265	6,540	18,805	11,000	5,910	16,910
RWM 11	51	749	<i>800</i>	31	463	494	42	475	517
RWM 12	39	1,760	1,799	12	1,800	1,812	11	1,860	1,871
RWM 13B	8	622	630	10	568	578	7	496	503
RWM 13C	20	873	893	19	868	887	16	737	753
RWM 14B	21	660	681	11	718	729	8	631	639
RWM 14C	81	3,640	3,721	32	3,570	3,602	28	3,560	3,588
RWM 15B	1	22	23	1	23	24	1	20	21
RWM 17B									
RWM 17D									

NOTE: Numbers in bold are estimated because of missing data or equipment malfunction.
Numbers in italics are averages of two or more samples.

Table D-22. Summary of Average Tetrachloroethylene (PCE) & Trichloroethylene (TCE) Concentration in Recovery Wells (Cont.)

Well Number	July PCE (mg/L)	TCE (mg/L)	Total (mg/L)	August PCE (mg/L)	TCE (mg/L)	Total (mg/L)	September PCE (mg/L)	<u>TCE</u> (mg/L)	Total (mg/L)
RWM 1	21,300	29,200	50,500	<i>17,200</i>	<i>19,800</i>	37,000	<i>16,700</i>	<i>9,140</i>	25,840
RWM 2	0	0	0	0	0	0	0	0	0
RWM 3	878	3,930	4,808	854	3,190	4,044	790	3,150	3,940
RWM 4	990	7,390	8,380	1,260	7,410	8,670	1,220	7,200	8,420
RWM 5	527	1,637	2,164	594	1,740	2,334	561	1,540	2,101
RWM 6	2,800	2,230	5,030	2,850	2,210	5,060	2,410	2,190	4,600
RWM 7	9,830	8,030	17,860	12,500	6,420	18,920	9,620	5,970	15,590
RWM 8	420	793	1,213	<i>508</i>	<i>893</i>	1,401	415	772	1,187
RWM 9	10	265	275	12	240	252	12	277	288
RWM 10	10,700	7,250	17,950	10,300	6,030	16,330	11,100	6,180	17,280
RWM 11	40	742	782	45	721	766	40	663	703
RWM 12	7	2,100	2,107	10	1,450	1,460	10	1,460	1,470
RWM 13B	10	515	525	9	612	621	13	371	384
RWM 13C	14	667	681	17	711	728	29	529	558
RWM 14B	4	584	588	8	413	421	12	552	564
RWM 14C	54	3,660	3,714	15	2,840	2,855	18	2,050	2,068
RWM 15B	1	21	22	1	21	22	1	13	14
RWM 17B							76	311	387
RWM 17D									

NOTE: Numbers in bold are estimated because of missing data or equipment malfunction.
Numbers in italics are averages of two or more samples.

Table D-22. Summary of Average Tetrachloroethylene (PCE) & Trichloroethylene (TCE) Concentration in Recovery Wells (Cont.)

Well Number	October			November			Decmeber		
	PCE (mg/L)	TCE (mg/L)	Total (mg/L)	PCE (mg/L)	TCE (mg/L)	Total (mg/L)	PCE (mg/L)	<u>TCE</u> (mg/L)	Total (mg/L)
RWM 1	13,500	8,005	21,505	11,000	10,000	21,000	12,000	8,000	20,000
RWM 2	0	0	0	0	0	0	0	0	0
RWM 3	940	3,300	4,240	910	3,600	4,510	920	3,300	4,220
RWM 4	1,200	6,600	7,800	1,200	7,200	8,400	1,200	6,900	8,100
RWM 5	610	1,600	2,210	550	1,700	2,250	550	1,600	2,150
RWM 6	2,900	2,900	5,800	2,400	2,600	5,000	2,100	2,300	4,400
RWM 7	9,700	7,800	17,500	10,167	7,990	18,157	9,800	8,600	18,400
RWM 8	430	760	1,190	440	820	1,260	450	800	1,250
RWM 9	12	320	332	18	400	418	19	350	369
RWM 10	11,000	5,800	16,800	11,000	5,600	16,600	10,000	5,300	15,300
RWM 11	46	720	766	41	730	771	53	630	683
RWM 12	9	1,900	1,909	10	1,900	1,910	11	2,057	2,068
RWM 13B	11	440	451	11	470	481	11	380	391
RWM 13C	14	610	624	11	600	611	18	550	568
RWM 14B	8	500	508	9	620	629	10	660	670
RWM 14C	29	3,300	3,329	21	3,100	3,121	23	3,100	3,123
RWM 15B	1	18	19	1	18	19	1	20	21
RWM 17B	64	260	324	84	410	494	77	350	427
RWM 17D	1	5	6	1	5	6	1	5	6

NOTE: Numbers in bold are estimated because of missing data or equipment malfunction.
Numbers in *italics* are averages of two or more samples.

Table D23. Concentrations of Trichloroethylene (TCE) and Tetrachloroethylene (PCE) Upgradient and Downgradient of Southern Sector Recirculation Wells

Well Number	Jan			Feb			Mar			Apr			May			Jun		
	TCE (ug/L)	PCE (ug/L)	Total (ug/L)	TCE (ug/L)	PCE (ug/L)	Total (ug/L)	TCE (ug/L)	PCE (ug/L)	Total (ug/L)	TCE (ug/L)	PCE (ug/L)	Total (ug/L)	TCE (ug/L)	PCE (ug/L)	Total (ug/L)	TCE (ug/L)	PCE (ug/L)	Total (ug/L)
Upgradient																		
MSB 40B							1800	10	1810							1520	10	1530
MSB 40C							5.99	1	6.99							7.31	1	8.31
MSB 75B							2650	10	2660							2620	15	2635
MSB 75C				1	1	2				1	1	2				16.6	1	17.6
SSM 10B								1.38	1.38	407	1	408				421	2	423
SSM 10C										179	7.14	186.14				189	4.07	193.07
SSM 11B										16300	281	16581				19600	191	19791
SSM 11C							389	4.69	393.69	419	7.61	426.61				559	9.32	568.32
Downgradient																		
SSM 12B								1	1	24.93	3.05	27.98				21.4	1	22.4
SSM 12C							1	1	2	5.18	3.72	8.9				3.71	3.39	7.1
SSM 13B							791	5	796	865	5	870				937	5	942
SSM 13C							368	1	369	276	1	277				458	2	460
SSM 14B							113	1	114	166	1	167						
SSM 14C							70.7	1	71.7	41.2	1	42.2						
SSM 15B							2.07	1	3.07	0.83	1	1.83				1	1	2
SSM 15C							260	1	261	237	1	238				204	1	205
SSM 16B							1150	14.4	1164.4	1140	30	1170				1910	19.2	1929.2
SSM 16C							916	4.55	920.55	673	16.9	689.9				541	5	546
SSM 17B							49.9	9.875	59.775	55.1	5.79	60.89				31.5	1.75	33.25
SSM 17C							181	11.3	192.3	273	19.7	292.7				234	12.6	246.6

Table D23. Concentrations of Trichloroethylene (TCE) and Tetrachloroethylene (PCE) Upgradient and Downgradient of Southern Sector Recirculation Wells

Well Number	Jul			Aug			Sep			Oct			Nov			Dec		
	TCE (ug/L)	PCE (ug/L)	Total (ug/L)	TCE (ug/L)	PCE (ug/L)	Total (ug/L)	TCE (ug/L)	PCE (ug/L)	Total (ug/L)	TCE (ug/L)	PCE (ug/L)	Total (ug/L)	TCE (ug/L)	PCE (ug/L)	Total (ug/L)	TCE (ug/L)	PCE (ug/L)	Total (ug/L)
Upgradient																		
MSB 40B	1555	10	1565	1385	7.5	1392.5												
MSB 40C	7.24	1	8.24	6.95	3	9.95												
MSB 75B	2745	10	2755	1877.5	77.5	1955												
MSB 75C	22.6	1	23.6	27.8	1	28.8	3.5	5	8.5									
SSM 10B	426	2	428	372.25	13.5	385.75	492	2	494									
SSM 10C	170	3.82	173.82	221	10.1	231.1	331	12.3	343.3									
SSM 11B	18400	212	18612	13400	572	13972	16000	134	16134									
SSM 11C	454	3.64	457.64	360	5	365	433	4.64	437.64									
Downgradient																		
SSM 12B	25.2	1	26.2	18.2	1	19.2	13.6	1	14.6									
SSM 12C	3.46	0.77	4.23	12.1	1	13.1	11.1	1	12.1									
SSM 13B				676	3	679	546	5	551									
SSM 13C				388.5	1.36	389.86	265.33	2.33	267.66									
SSM 14B	96.9	1	97.9	211.5	1	212.5	216	1	217									
SSM 14C	41.73	3	44.73	75.75	1	76.75	52.2	1	53.2									
SSM 15B				1	1	2	1	1	2									
SSM 15C				204	1	205	248	1	249									
SSM 16B	3340	38.7	3378.7	657	5	662	3930	116	4046									
SSM 16C	364	2	366	670	20	690	604	2	606									
SSM 17B	34.94	3.66	38.6	38.4	2.67	41.07	34	5.47	39.47									
SSM 17C	240	13.6	253.6	233	20.5	253.5	231	18.6	249.6									

Appendix E

Data Quality/Usability Assessment

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Data Quality/Usability Assessment

Quality assurance/quality control (QA/QC) procedures relating to accuracy and precision of analyses performed on groundwater samples are followed in the field and laboratory, and QC data are reviewed prior to publication of results. The review by the Environmental Protection Department/ Environmental Monitoring Section (EPD/EMS) of the volume of analytical data acquired each quarter and presented in various reports is an ongoing process; EPD/EMS' review of the QC data cannot be completed in time to meet the deadlines for the groundwater monitoring reports required by the Resource Conservation and Recovery Act and associated regulations. Beginning first quarter 1996, the *Quality Control Samples* section of EMS' quarterly groundwater monitoring report contains detailed evaluation of the following indicators of data quality: precision, accuracy, representativeness, comparability, and completeness. Site and regulatory personnel can obtain further information on the data quality and usability in a variety of ways, including those described below.

Data Qualification

The contract laboratories continually assess their own accuracy and precision according to U.S. Environmental Protection Agency (EPA) guidelines. They submit sample- or batch-specific QC information either at the same time as analytical results or in quarterly summaries. Properly defined and used modifiers (also referred to as qualifiers) can be a key component in assessing data usability. Modifiers designed by EPA or EPD/EMS and used by the primary laboratories or EMS' data validators are presented in Appendix D.

Assessment of Accuracy of the Data

Accuracy, or the nearness of the reported result to the true concentration of a constituent in a sample, can be assessed in several ways.

A laboratory's general accuracy can be judged by evaluation of results obtained from known samples. The contract laboratories analyze commercial reference samples periodically at EPD/EMS' request. The results of these analyses from the non-radionuclide laboratories are presented in the EPD/EMS groundwater monitoring quarterly reports; the results from the radionuclide laboratories should be available on request from the laboratory subcontract representatives. The primary laboratories also seek or maintain state certification by participating periodically in performance studies. Reference samples and evaluation of results are provided by EPA. Results of these studies also are published in the EPD/EMS quarterly reports.

Analysis of blanks provides a tool for assessing the accuracy of both sampling and laboratory analysis. Results for all field blanks for the quarter can be found in the EPD/EMS quarterly reports. Any field or laboratory blanks that exceed established minimums are identified in the same reports, in tables associating them with groundwater samples analyzed in the same batches. In these regulatory reports, the modifier *V* is assigned to every detected result that is run in the same batch as a laboratory blank with positive results for that analyte. A *U* qualifier (reported as *less than* [*<*]) also is added if the analyte concentration is less than five times the concentration in the blank (or, for common laboratory contaminants, less than ten times).

Surrogates, organic compounds similar in chemical behavior to the compounds of interest but not normally found in environmental samples, are used to monitor the effect of the matrix on the accuracy of analyses for organic parameters. For example, for analyses of volatile organics by EPA Method 8240, three surrogate compounds are added to all samples and blanks in each analytical batch. In analyses of semivolatile organics by EPA Method 8270, three surrogates are required and an additional compound is advised for each fraction (acids and base/neutrals). Two surrogates are used in organochlorine pesticides analyses. Percent recoveries for surrogate analyses are calculated by laboratory personnel, reported to EPD/EMS, reviewed, and entered

into the database. Beginning first quarter 1996, statistical summaries are published in the *Quality Control Samples* section of the EPD/EMS quarterly groundwater monitoring report. If recoveries are not within specified limits, the laboratory is expected to reanalyze the samples or attach qualifiers to the data identifying the anomalous results.

Sample-specific accuracy for both organic and inorganic parameters can be assessed by examination of matrix spike/matrix spike duplicate results. A portion of the sample is analyzed unspiked to determine a baseline set of values. A second portion of the sample is spiked with known concentrations of compounds appropriate to the analyses being performed, typically five volatile organic compounds for volatile organics analyses, eleven semivolatile compounds for semivolatiles, six pesticide compounds for pesticides, all metals for metals analyses by SW-846 methods (EPA, 1986), and a known quantity of cyanide for cyanide analysis. The percentage of the spike compound that is recovered (i.e., measured in excess of the value obtained for the unspiked sample) is a direct measure of analytical accuracy. EPA requires matrix spike/matrix spike duplicates to be run at least once per 20 samples of similar matrix.

Matrix spike/matrix spike duplicate results are reported to EPD/EMS. Beginning first quarter 1996, spike results and a statistical summary are published in the *Quality Control Samples* section of the EPD/EMS quarterly groundwater monitoring report. For organic compounds, according to EPA guidelines, no action is taken on the basis of matrix spike/matrix spike duplicate data alone (i.e., no result modifiers are assigned solely on the basis of matrix spike results); however, the results can indicate if a laboratory is having a systemic problem in the analysis of one or more analytes.

In the case of inorganic compounds, such as metals, the matrix spike sample analysis provides information about the effect of each sample matrix on the digestion and measurement methodology. Data qualifiers assigned by the laboratories on the basis of the percentage of spike recovery are reported in the EPD/EMS results tables.

Assessment of Precision

Precision of the analyses, or agreement of a set of replicate results among themselves, is assessed through the use of duplicates initiated by the laboratory and blind replicates provided by EPD/EMS. The results of duplicate and replicate analyses are presented in results tables that report only one quarter of data. Results tables that include more than one quarter of data present only the highest result for each analyte for each quarter of the year.

The laboratories assess precision by calculating the relative percent difference (RPD) for each pair of laboratory-initiated duplicate results. The EMS data validators apply a data qualifier to the results of entire preparation batches of metals analyses when the RPD for laboratory duplicates is greater than 20 percent and either the difference between the two samples is greater than the contract-required detection limit (CRDL) or both sample results are greater than 5 times the CRDL. This qualifier is published in the EPD/EMS quarterly reports.

Additional statistical comparisons of laboratory duplicate and blind replicate results, both intra- and interlaboratory, are presented in the EPD/EMS quarterly reports. The calculation used for these reports is the mean relative difference (MRD), which is similar to EPA's RPD except that the MRD is the average of all the RPD values from one laboratory for each compound (intralaboratory MRD) or all the RPD values from all laboratories for each compound (interlaboratory MRD) during one quarter. Because detection limits may vary among samples, the MRD requires calculation of a reference detection limit, which is the detection limit at the 90th percentile of the array of limits in the population of all duplicate and replicate analyses for a given analyte during a particular quarter. The MRD is not method-specific.

Method-Specific Accuracy and Precision

The contract laboratories' EPA-approved laboratory procedures include QA/QC requirements as an integral part of the methods. Thus, knowledge of the method used in obtaining data is an important component of determining data usability. EPA has conducted extensive research and

development on the methods approved for the analysis of water and wastewater. Information on the accuracy and precision of a method is available from EPA publications, as is full information on required QA/QC procedures. A listing of the methods used by the primary laboratories during fourth quarter 1995 is given below, along with the source for the method description. Many, if not all, of these sources include presentations of representative accuracy and precision results. The EPD/EMS quarterly reports provide the methods used by the laboratories each quarter.

Table E-1. Methods Used by the Contract Laboratories

Method	Used to Analyze	Source
EICHROMTC1MOD ^a	Technetium isotopes	EiChrom Industries, Inc.; NA ^b
EMLAM01MOD	Americium, curium isotopes	DOE, 1992
EMLPU02MOD	Neptunium, plutonium isotopes	DOE, 1992
EMLSR02MOD	Strontium isotopes	DOE, 1992
EMLTH01MOD	Thorium isotopes	DOE, 1992
EMLU02MOD	Uranium isotopes	DOE, 1992
ENICMOD	Carbon-14	NA
EPA120.1	Specific conductance	EPA EMSL, 1983
EPA150.1	pH	EPA EMSL, 1983
EPA160.1	Total dissolved solids	EPA EMSL, 1983
EPA160.2	Total dissolved solids, total suspended solids	EPA EMSL, 1983
EPA180.1	Turbidity	EPA EMSL, 1983
EPA200.7	Metals	EPA EMSL, 1983
EPA245.1	Mercury	EPA EMSL, 1983
EPA300.0	Chloride, nitrite, sulfate, fluoride	EPA EMSL, 1983
EPA310.1	Alkalinity (as CaCO ₃)	EPA EMSL, 1983
EPA335.2	Cyanide	EPA EMSL, 1983
EPA335.3	Cyanide	EPA EMSL, 1983
EPA340.2	Fluoride	EPA EMSL, 1983
EPA350.1	Ammonia nitrogen	EPA EMSL, 1983
EPA350.3	Ammonia	EPA EMSL, 1983
EPA353.1	Nitrogen, nitrate-nitrite	EPA EMSL, 1983
EPA353.2	Nitrogen, nitrate, nitrite, or combined	EPA EMSL, 1983
EPA365.2	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA365.3	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA365.4	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA405.1	Five-day biochemical oxygen demand	EPA EMSL, 1983
EPA405.1/SM	Five-day biochemical oxygen demand	EPA EMSL, 1983
EPA410.4	Chemical oxygen demand	EPA EMSL, 1983
EPA415.1	Dissolved organic carbon, total inorganic	EPA EMSL, 1983

Method	Used to Analyze	Source
	carbon, total organic carbon	
EPA418.1	Total petroleum hydrocarbons	EPA EMSL, 1983
EPA420.2	Phenols	EPA EMSL, 1983
EPA450.1	Total organic halogens	NA
EPA900.0MOD	Gross alpha, nonvolatile beta	EPA EMSL, 1980
EPA901.1MOD	Gamma PHA, iodine isotopes	EPA EMSL, 1980
EPA903.0MOD	Total alpha-emitting radium, radium isotopes	EPA EMSL, 1980
EPA904.0MOD	Radium isotopes	EPA EMSL, 1980
EPA906.0MOD	Tritium	EPA EMSL, 1980
EPA6010	Metals	EPA, 1986
EPA6010A	Metals	EPA, 1992
EPA7470	Mercury	EPA, 1986
EPA8080	Organochlorine pesticides and PCBs	EPA, 1986
EPA8150	Chlorinated herbicides	EPA, 1986
EPA8240	GCMS volatiles	EPA, 1986
EPA8260	GCMS volatiles	EPA, 1986
EPA8270	GCMS semivolatiles	EPA, 1986
EPA8280	Dioxins and furans	EPA, 1986
EPA9020A	Total organic halogens	EPA, 1986
EPA9020B	Total organic halogens	EPA, 1994b
EPA9060	Total inorganic carbon	EPA, 1986
EPIA-001 ^c	Gross alpha, nonvolatile beta	EP, 1996
EPIA-002 ^c	Tritium	EP, 1996
EPIA-003 ^c	Carbon-14	EP, 1996
EPIA-004 ^c	Strontium-90	EP, 1996
EPIA-005 ^c	Technetium-99	EP, 1996
EPIA-006 ^c	Iodine-129	EP, 1996
EPIA-008 ^c	Radium-226	EP, 1996
EPIA-009 ^c	Radium-228	EP, 1996
EPIA-010 ^c	Radium, total alpha-emitting	EP, 1996
EPIA-011 ^c	Americium, curium, uranium isotopes	EP, 1996
EPIA-012 ^c	Neptunium, plutonium, thorium isotopes	EP, 1996
EPIA-013 ^c	Gamma PHA	EP, 1996
EPIA-022 ^c	Nickel isotopes	EP, 1996
MMES16009MOD	Technetium-99	NA
3Q1-6-1420	Total activity, tritium	NA

^a MOD indicates modifications of applicable EPA, DOE, or other procedures.

^b NA = not available. Sources for some proprietary methods are not available.

^c The methods and detection limits used by GP are in-house methods based on applicable EPA, DOE, or other procedures. Complete method descriptions are available from GP.

Note: One of the labs reports the method for some metals determinations as CLP or CLP-MOD. This is presumed equivalent to Method 6010 or 6010A.

An example of method-specific QC information is that for EPA Method 8270 (EPA, 1986), which is used by both GE and Weston for analyses of semivolatile organics. The following table gives method-specific accuracy and precision as functions of concentration. Contract laboratories are expected to achieve or at least approach these limits.

Table E-2. Method Accuracy and Precision as Functions of Concentration for EPA Method 8270

Parameter	Accuracy, as recovery, x' (µg/L)	Single analyst precision, s_r' (µg/L)	Overall precision, S' (µg/L)
Acenaphthene	0.96C+0.19	0.15X-0.12	0.21X-0.67
Acenaphthylene	0.89C+0.74	0.24X-1.06	0.26X-0.54
Aldrin	0.78C+1.66	0.27X-1.28	0.43X+1.13
Anthracene	0.80C+0.68	0.21X-0.32	0.27X-0.64
Benzo[a]anthracene	0.88C-0.60	0.15X+0.93	0.26X-0.21
Benzo[b]fluoranthene	0.93C-1.80	0.22X+0.43	0.29X+0.96
Benzo[k]fluoranthene	0.87C-1.56	0.19X+1.03	0.35X+0.40
Benzo[g,h,i]perylene	0.98C-0.86	0.29X+2.40	0.51X-0.44
Benzo[a]pyrene	0.90C-0.13	0.22X+0.48	0.32X+1.35
β-BHC	0.87C-0.94	0.20X-0.58	0.30X+1.94
δ-BHC	0.29C-1.09	0.34X+0.86	0.93X+0.17
Bis(2-chloroethoxy) methane	1.12C-5.04	0.16X+1.34	0.26X+2.01
Bis(2-chloroethyl) ether	0.86C-1.54	0.35X-0.99	0.35X+0.10
Bis(2-chloroisopropyl) ether	1.03C-2.31	0.24X+0.28	0.25X+1.04
Bis(2-ethylhexyl) phthalate	0.84C-1.18	0.26X+0.73	0.36X+0.67
4-Bromophenyl phenyl ether	0.91C-1.34	0.13X+0.66	0.16X+0.66
Butylbenzyl phthalate	0.66C-1.68	0.18X+0.94	0.53X+0.92
4-Chloro-m-cresol	0.84C+0.35	0.23X+0.75	0.29X+1.31
Chloroethane	0.99C-1.53	0.14X-0.13	0.17X-0.28
2-Chloronaphthalene	0.89C+0.01	0.07X+0.52	0.13X+0.34
2-Chlorophenol	0.78C+0.29	0.18X+1.46	0.28X+0.97
4-Chlorophenyl phenyl ether	0.91C+0.53	0.20X-0.94	0.30X-0.46
Chrysene	0.93C-1.00	0.28X+0.13	0.33X-0.09
p,p'-DDD	0.56C-0.40	0.29X-0.32	0.66X-0.96
p,p'-DDE	0.70C-0.54	0.26X-1.17	0.39X-1.04
p,p'-DDT	0.79C-3.28	0.42X+0.19	0.65X-0.58

Parameter	Accuracy, as recovery, x' (µg/L)	Single analyst precision, s_r' (µg/L)	Overall precision, S' (µg/L)
Dibenz[a,h]anthracene	0.88C+4.72	0.30X+8.51	0.59X+0.25
Di-n-butyl phthalate	0.59C+0.71	0.13X+1.16	0.39X+0.60
1,2-Dichlorobenzene	0.80C+0.28	0.20X+0.47	0.24X+0.39
1,3-Dichlorobenzene	0.86C-0.70	0.25X+0.68	0.41X+0.11
1,4-Dichlorobenzene	0.73C-1.47	0.24X+0.23	0.29X+0.36
3,3'-Dichlorobenzidine	1.23C-12.65	0.28X+7.33	0.47X+3.45
2,4-Dichlorophenol	0.87C-0.13	0.15X+1.25	0.21X+1.28
Dieldrin	0.82C-0.16	0.20X-0.16	0.26X-0.07
Diethyl phthalate	0.43C+1.00	0.28X+1.44	0.52X+0.22
2,4-Dimethyl phenol	0.71C+4.41	0.16X+1.21	0.22X+1.31
Dimethyl phthalate	0.20C+1.03	0.54X+0.19	1.05X-0.92
2,4-Dinitrophenol	0.81C-18.04	0.38X+2.36	0.42X+26.29
2,4-Dinitrotoluene	0.92C-4.81	0.12X+1.06	0.21X+1.50
2,6-Dinitrotoluene	1.06C-3.60	0.14X+1.26	0.19X+0.35
Di-n-octyl phthalate	0.76C-0.79	0.21X+1.19	0.37X+1.19
Endosulfan sulfate	0.39C+0.41	0.12X+2.47	0.63X-1.03
Endrin aldehyde	0.76C-3.86	0.18X+3.91	0.73X-0.62
Fluoranthene	0.81C+1.10	0.22X-0.73	0.28X-0.60
Fluorene	0.90C-0.00	0.12X+0.26	0.13X+0.61
Heptachlor	0.87C-2.97	0.24X-0.56	0.50X-0.23
Heptachlor epoxide	0.92C-1.87	0.33X-0.46	0.28X+0.64
Hexachlorobenzene	0.74C+0.66	0.18X-0.10	0.43X-0.52
Hexachlorobutadiene	0.71C-1.01	0.19X+0.92	0.26X+0.49
Hexachloroethane	0.73C-0.83	0.17X+0.67	0.17X+0.80
Indeno[1,2,3-c,d]pyrene	0.78C-3.10	0.29X+1.46	0.50X-0.44
Isophorone	1.12C+1.41	0.27X+0.77	0.33X+0.26
2-Methyl-4,6-dinitrophenol	1.04C-28.04	0.10X+42.29	0.26X+23.10
Naphthalene	0.76C+1.58	0.21X-0.41	0.30X-0.68
Nitrobenzene	1.09C-3.05	0.19X+0.92	0.27X+0.21
2-Nitrophenol	0.07C-1.15	0.16X+1.94	0.27X+2.60
4-Nitrophenol	0.61C-1.22	0.38X+2.57	0.44X+3.24
N-Nitrosodi-n-propylamine	1.12C-6.22	0.27X+0.68	0.44X+0.47
PCB 1260	0.81C-10.86	0.35X+3.61	0.43X+1.82
Pentachlorophenol	0.93C+1.99	0.24X+3.03	0.30X+4.33
Phenanthrene	0.87C+0.06	0.12X+0.57	0.15X+0.25

Parameter	Accuracy, as recovery, x' ($\mu\text{g/L}$)	Single analyst precision, s_r' ($\mu\text{g/L}$)	Overall precision, S' ($\mu\text{g/L}$)
Phenol	$0.43C+1.26$	$0.26X+0.73$	$0.35X+0.58$
Pyrene	$0.84C-0.16$	$0.16X+0.06$	$0.15X+0.31$
1,2,4-Trichlorobenzene	$0.94C-0.79$	$0.15X+0.85$	$0.21X+0.39$
2,4,6-Trichlorophenol	$0.91C-0.18$	$0.16X+2.22$	$0.22X+1.81$

x' = Expected recovery for one or more measurements of a sample containing a concentration of C , in $\mu\text{g/L}$.

s_r' = Expected single analyst standard deviation of measurements at an average concentration of X , in $\mu\text{g/L}$.

S' = Expected interlaboratory standard deviation of measurements at an average concentration of X , in $\mu\text{g/L}$.

C = True value for the concentration, in $\mu\text{g/L}$.

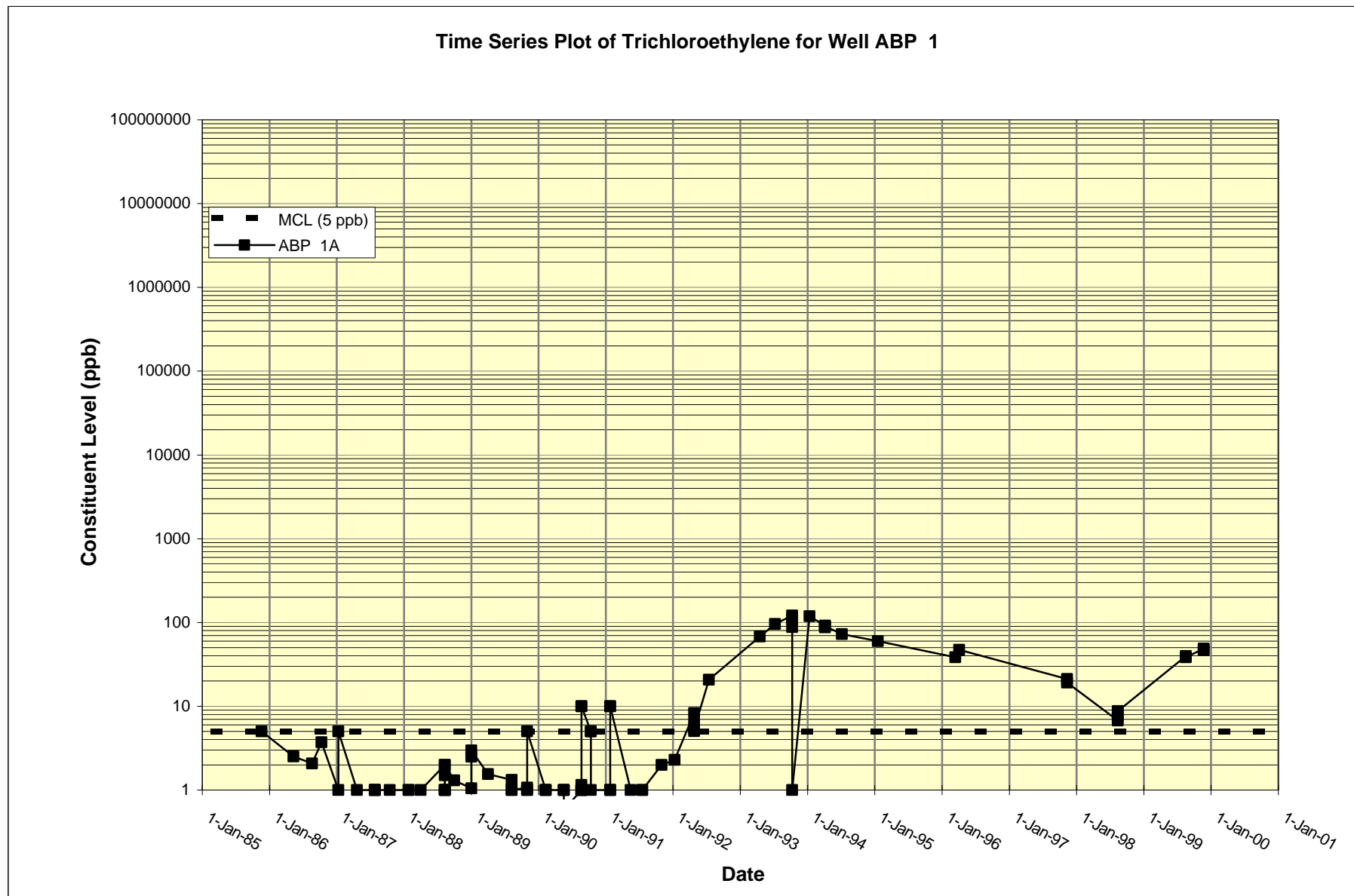
X = Average recovery found for measurements of samples containing a concentration of C , in $\mu\text{g/L}$.

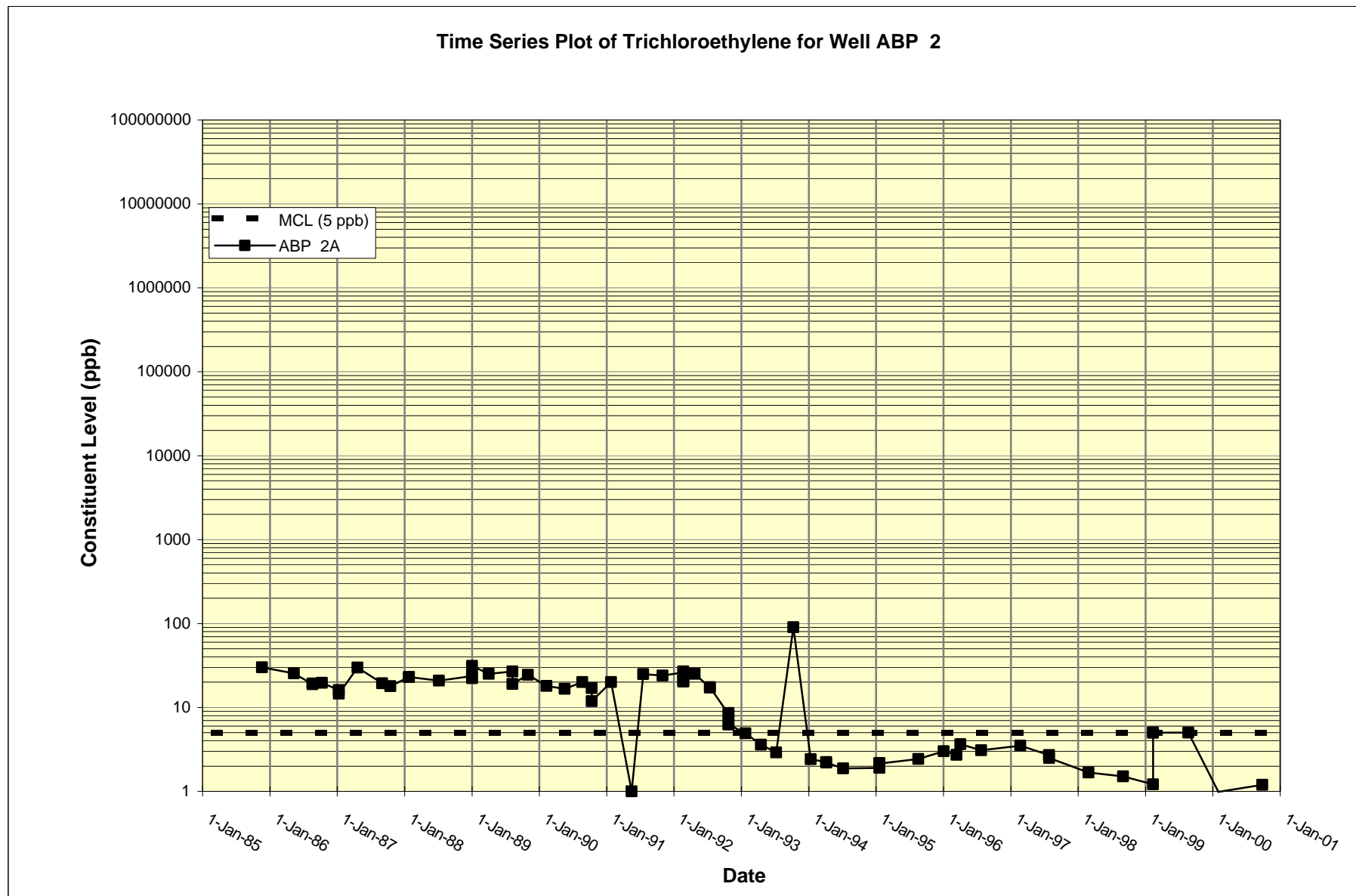
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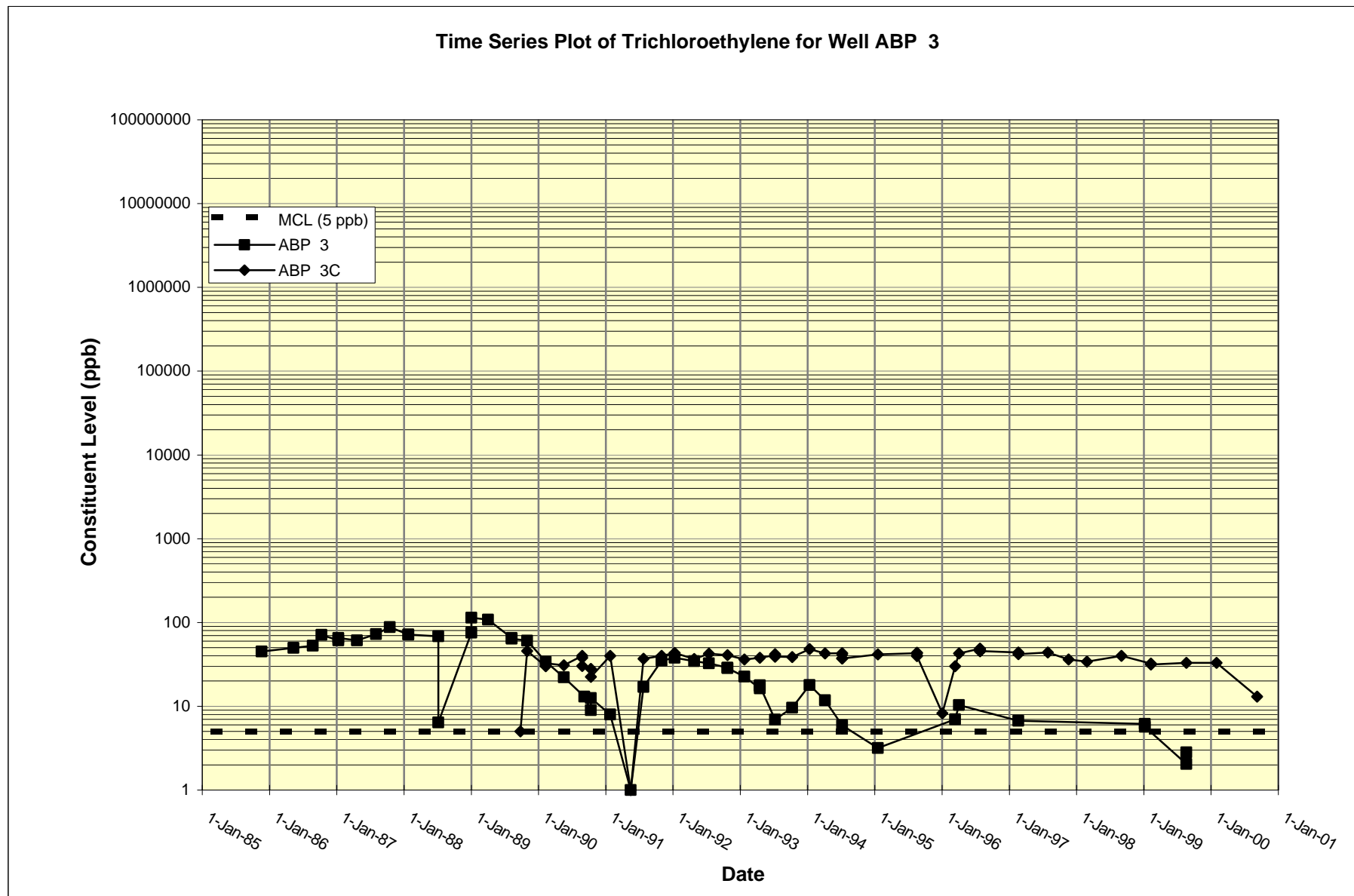
Appendix F

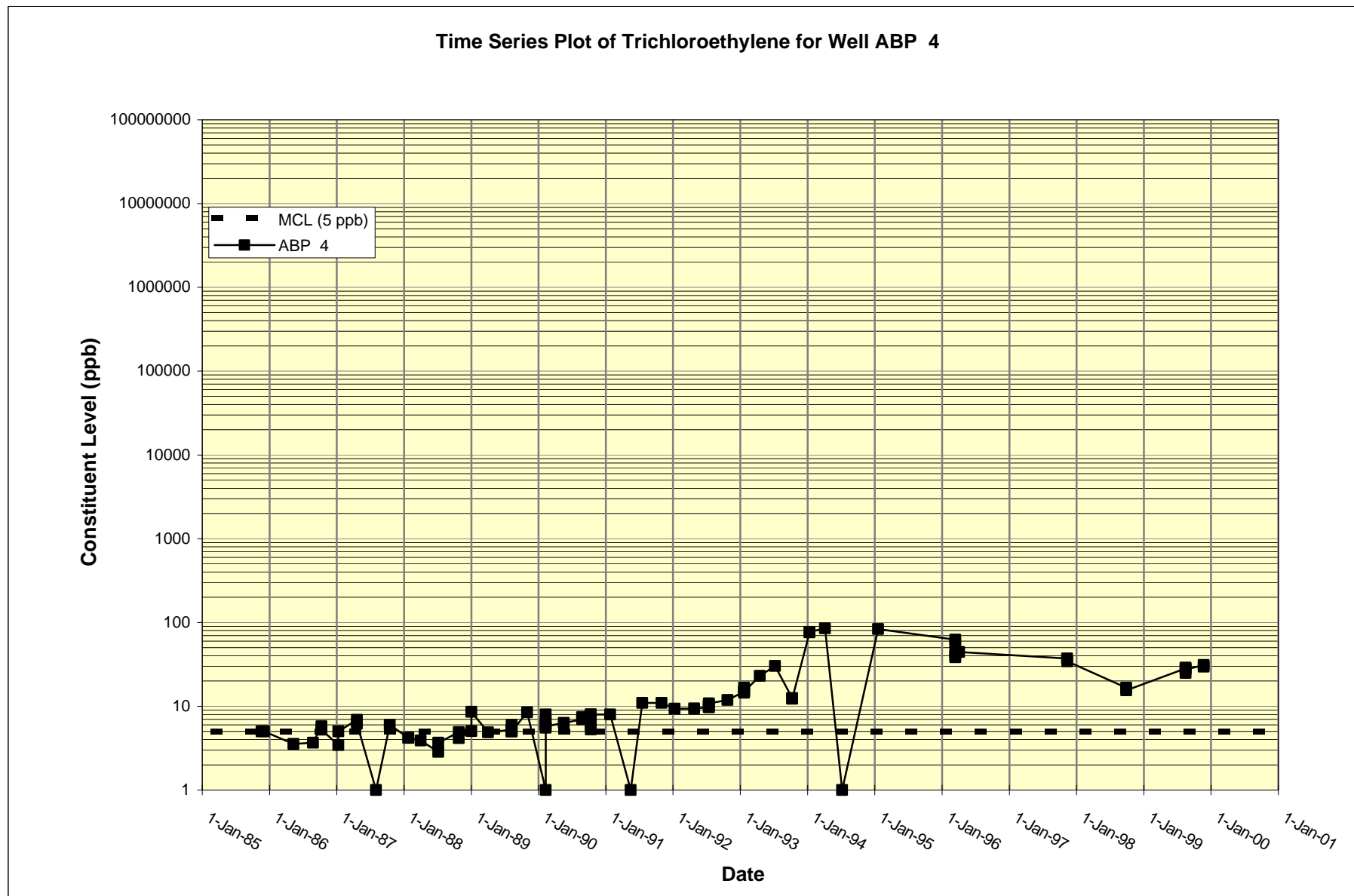
Time Series Plots

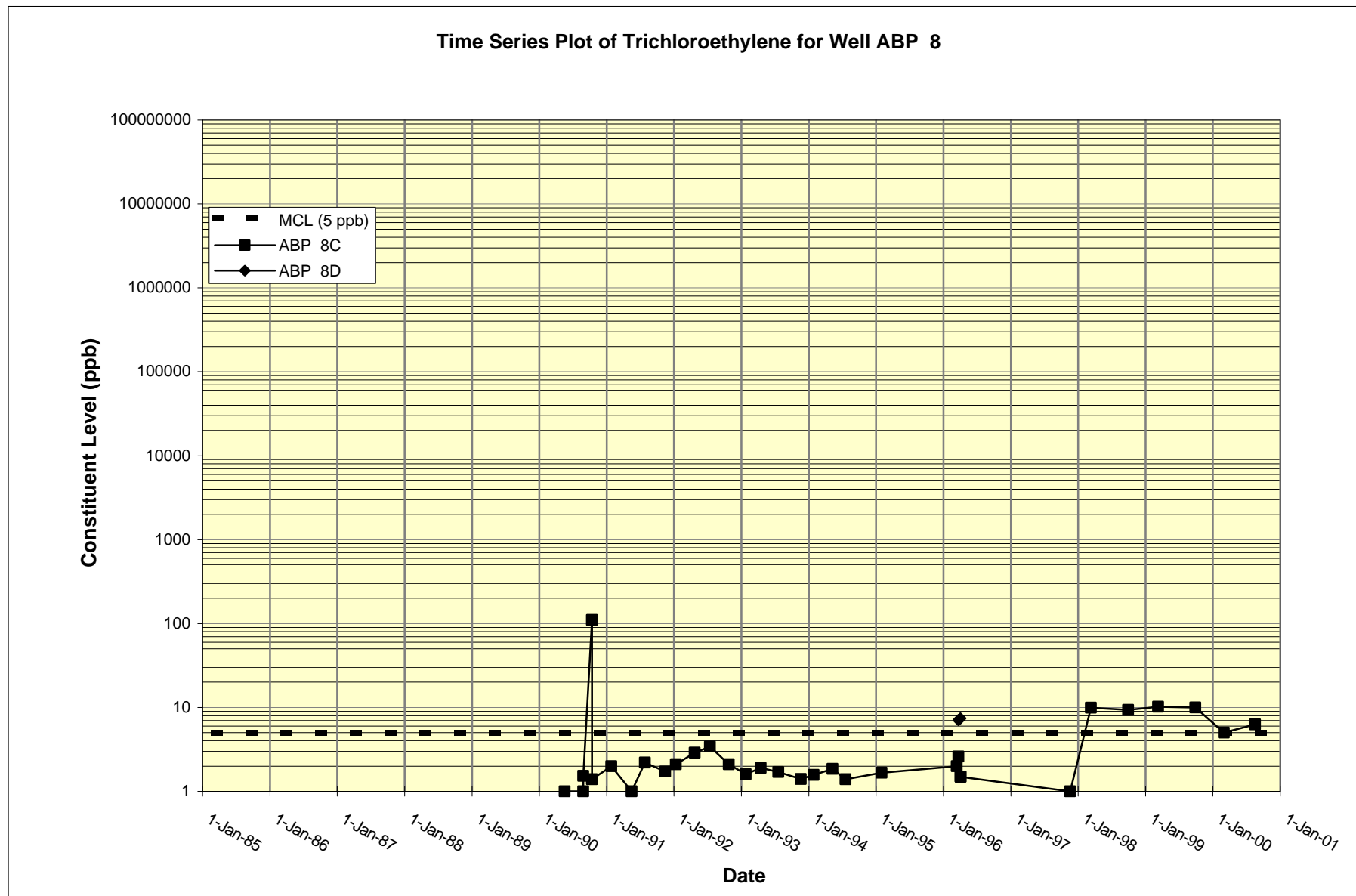
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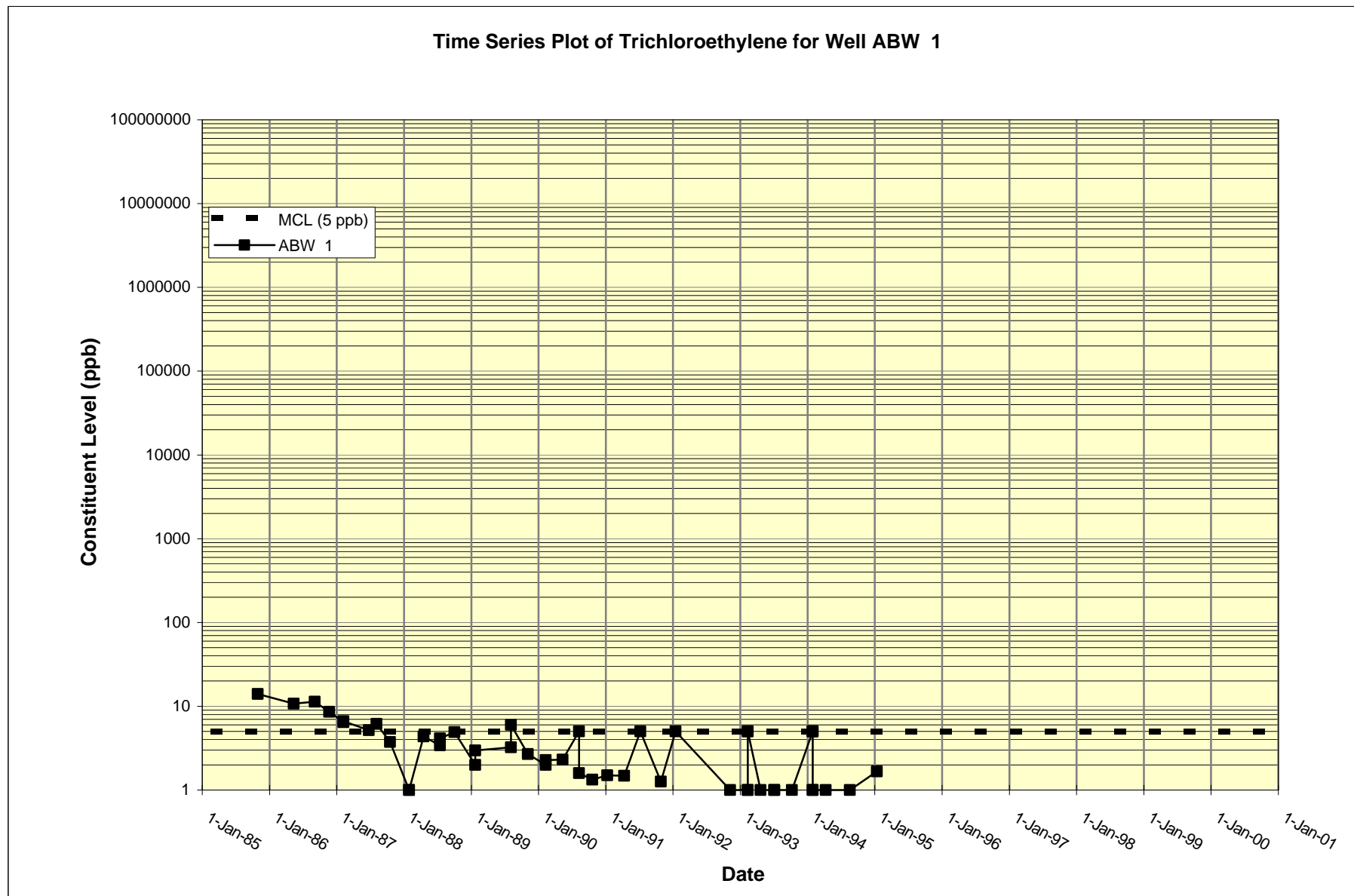


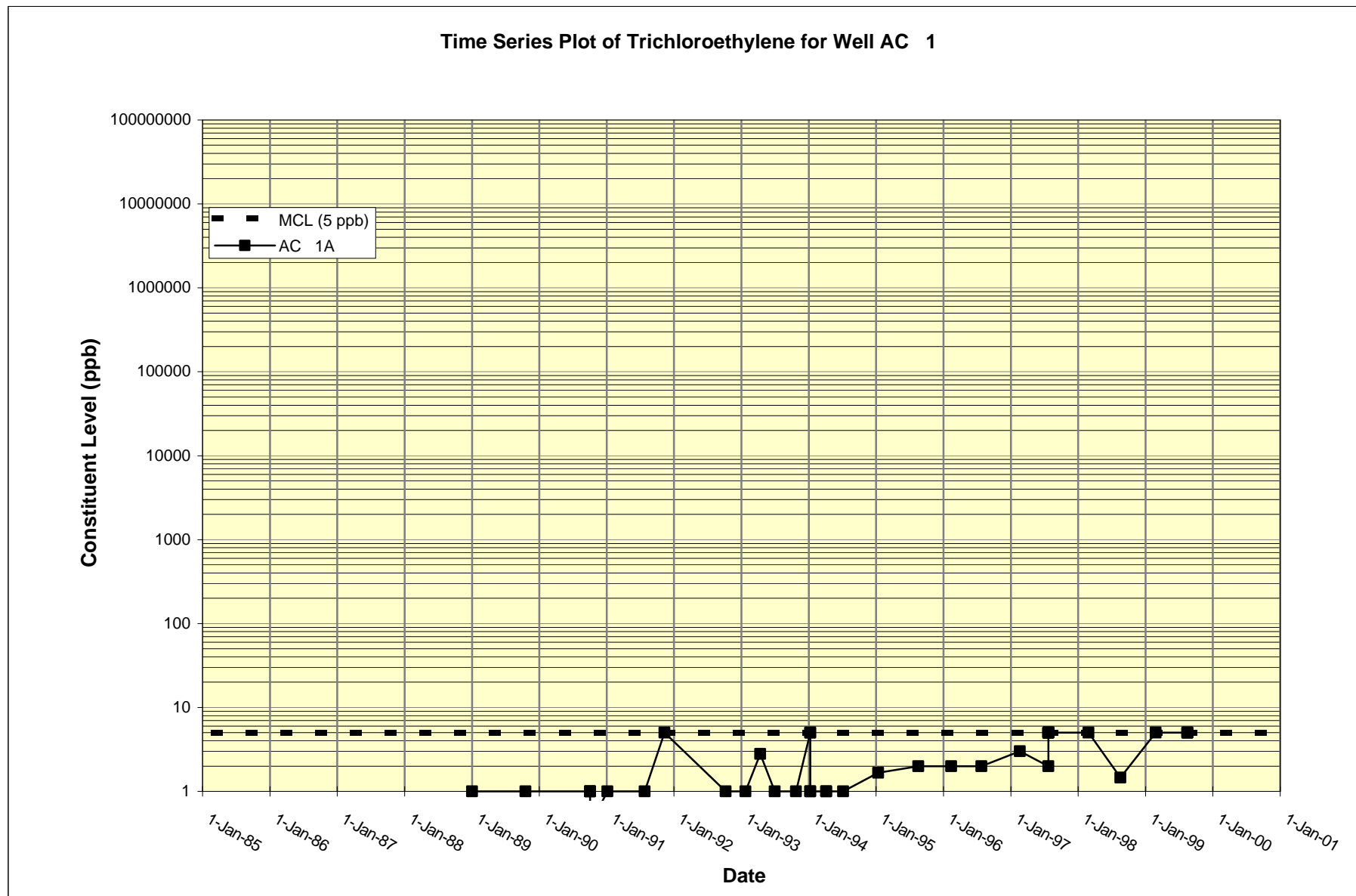


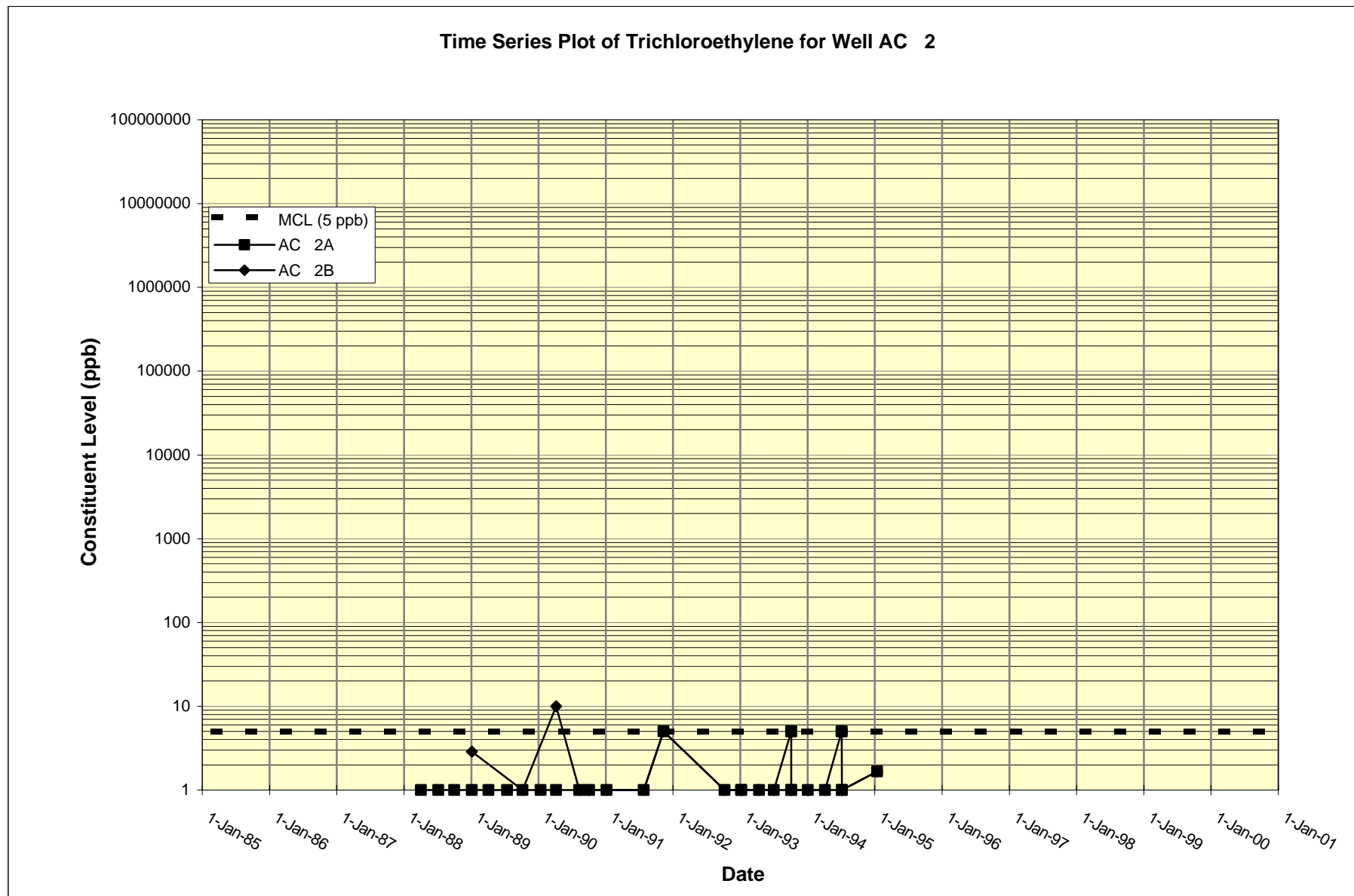


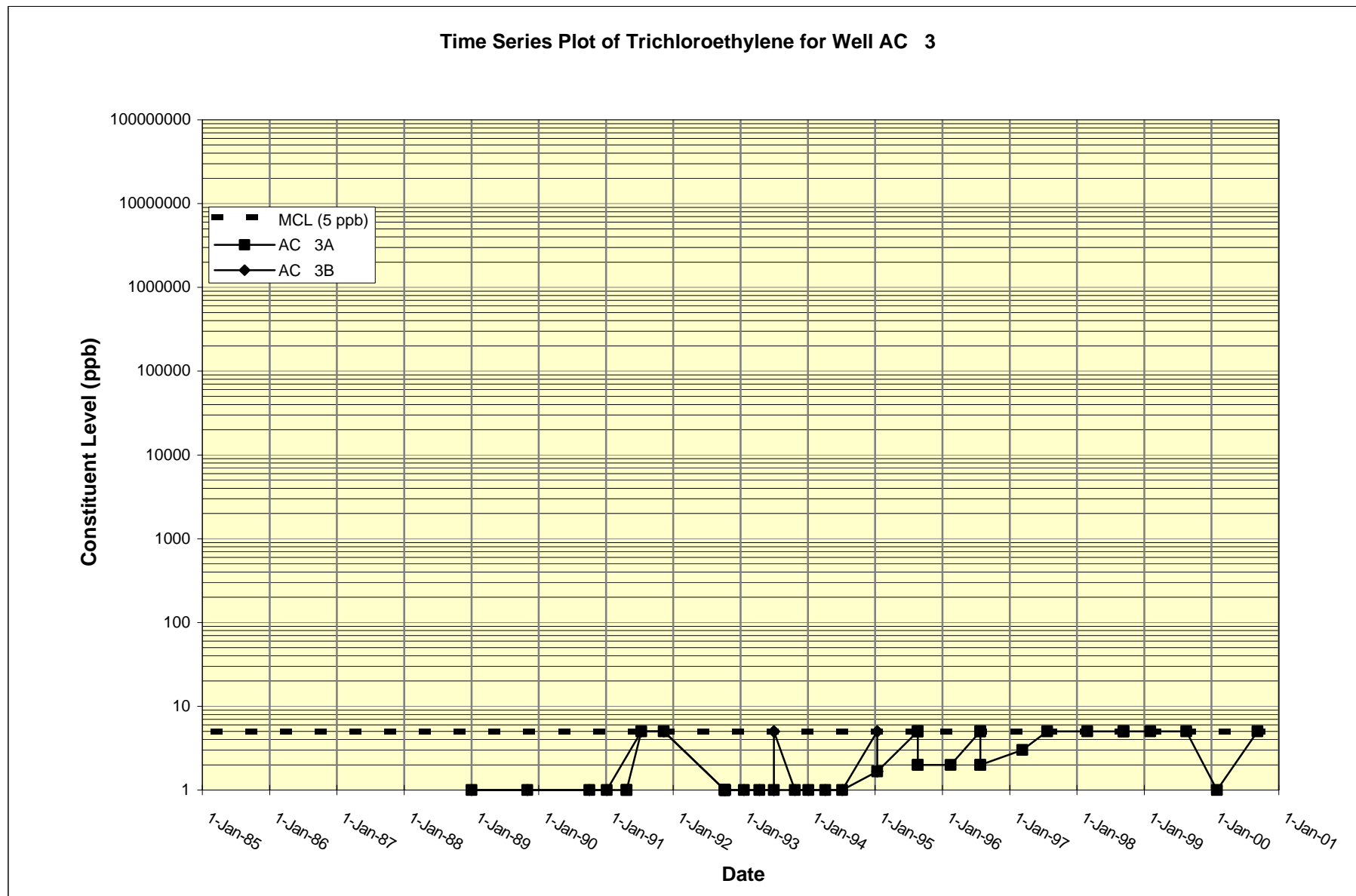


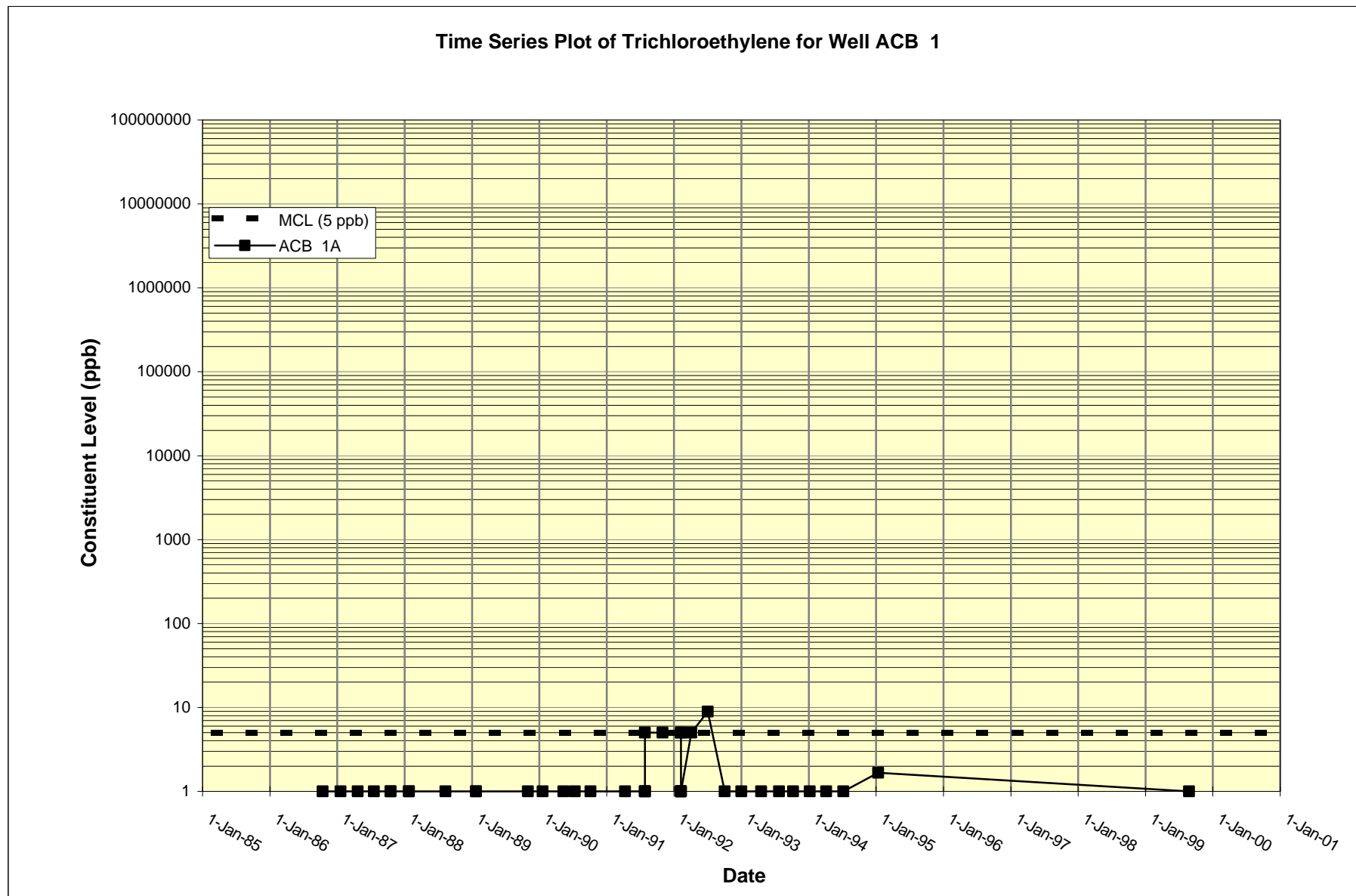


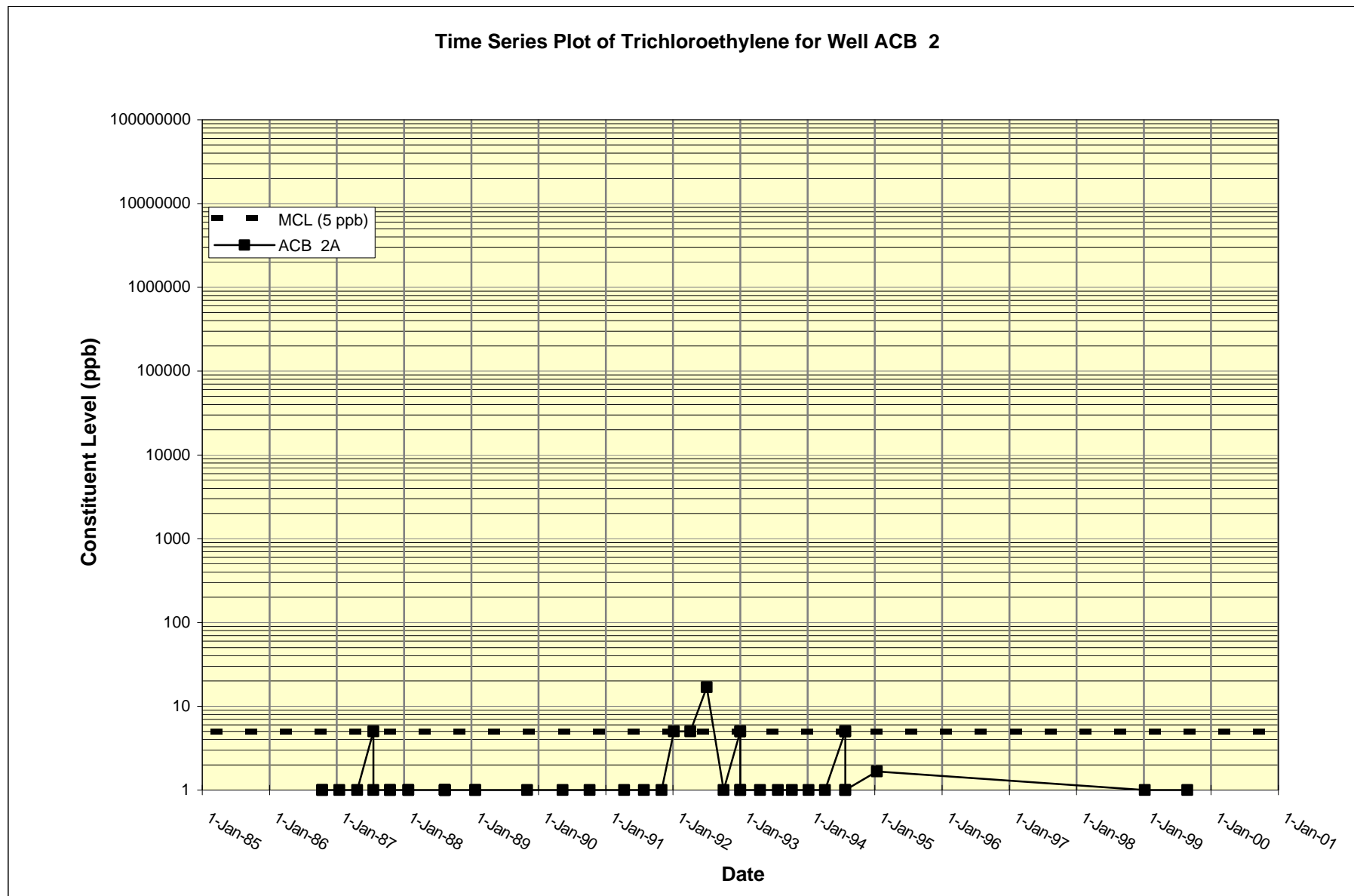


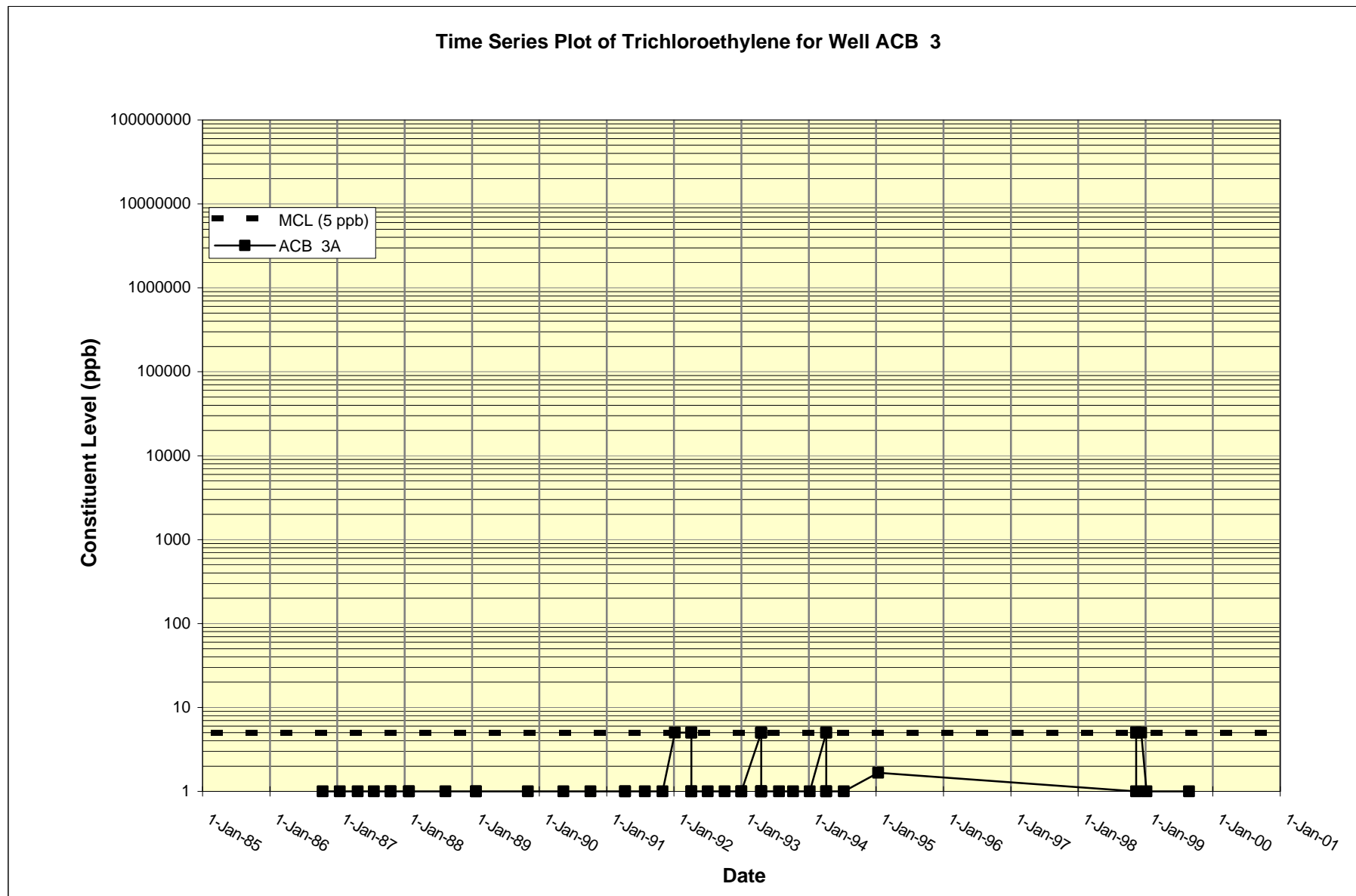


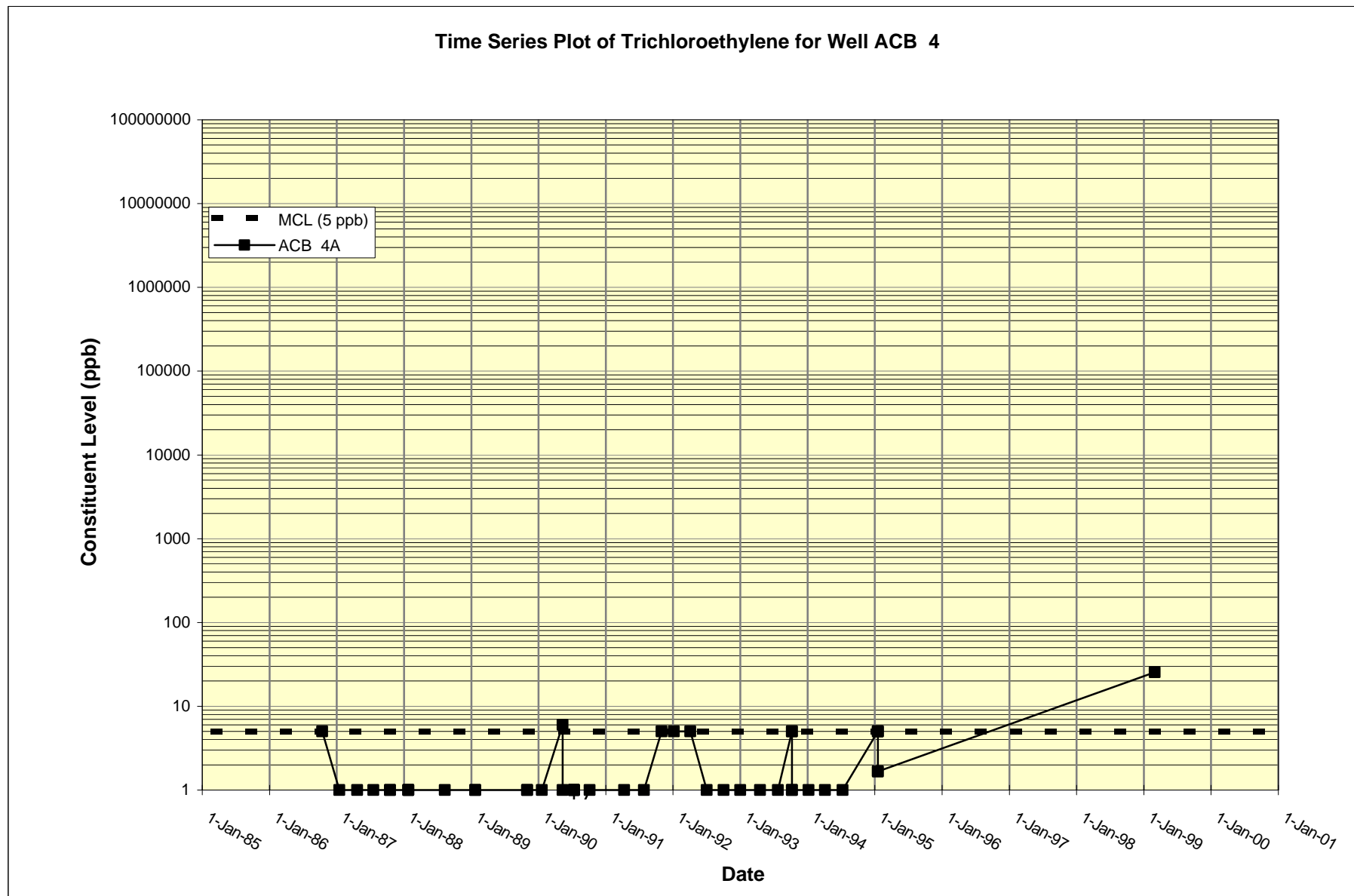


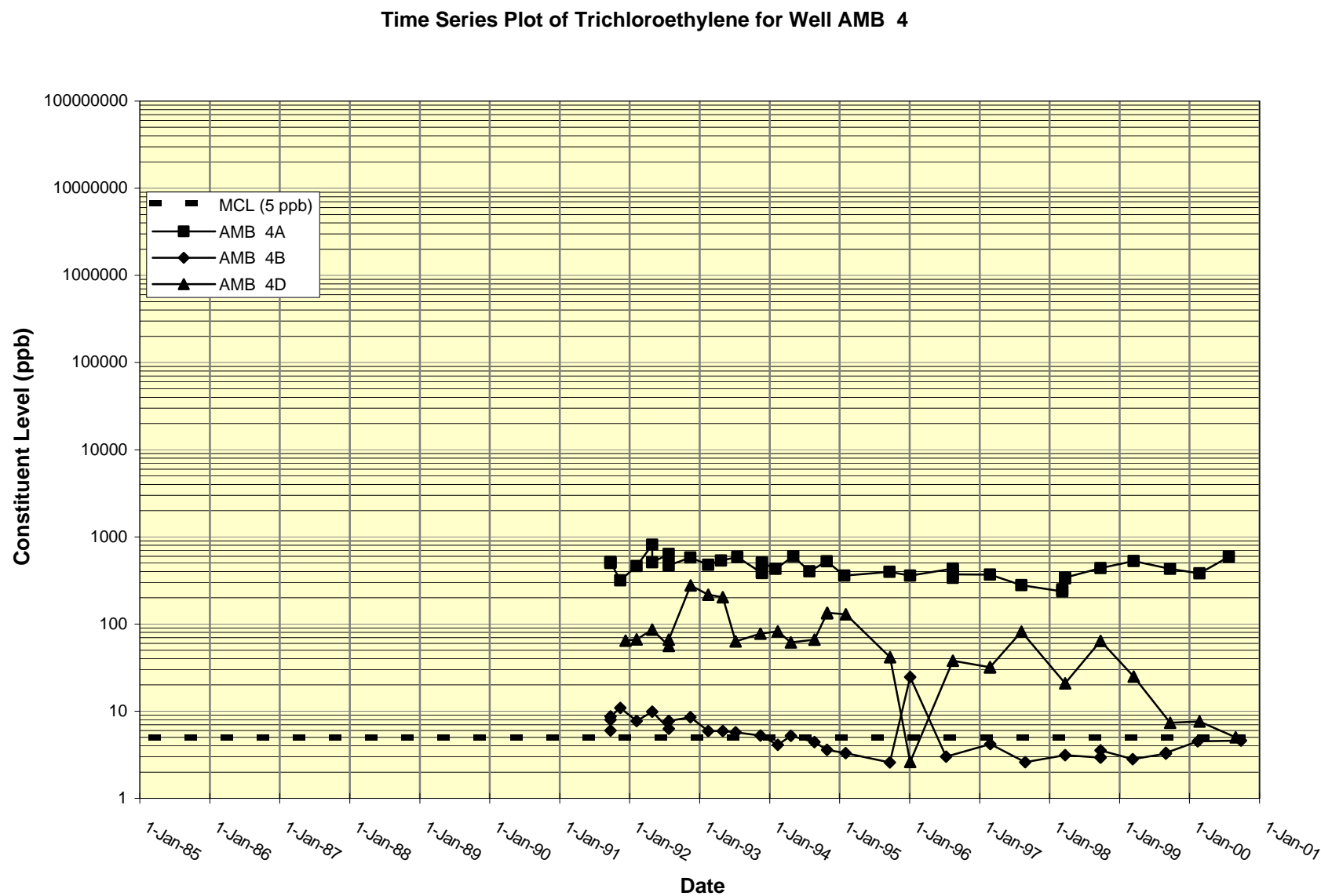


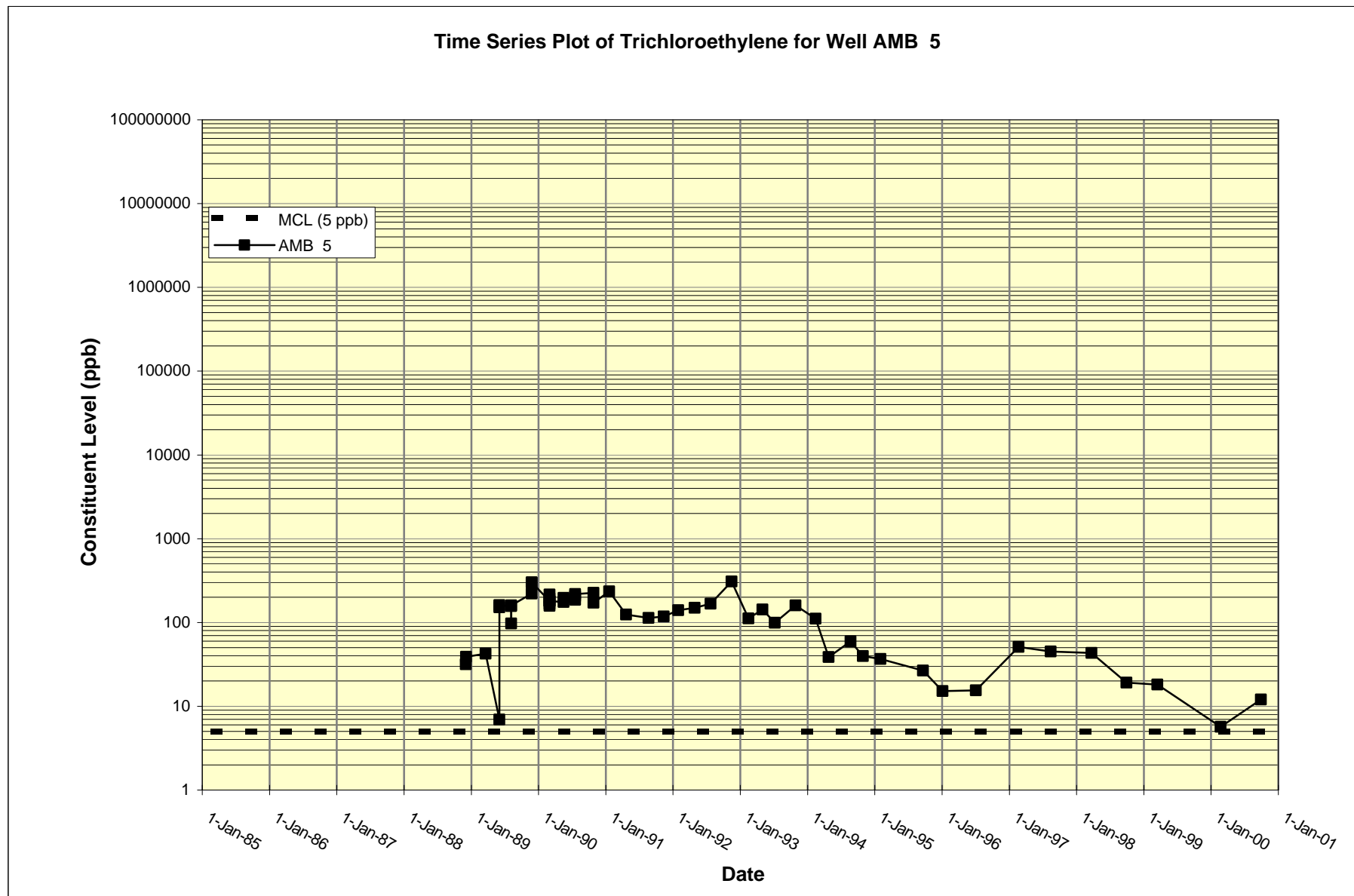


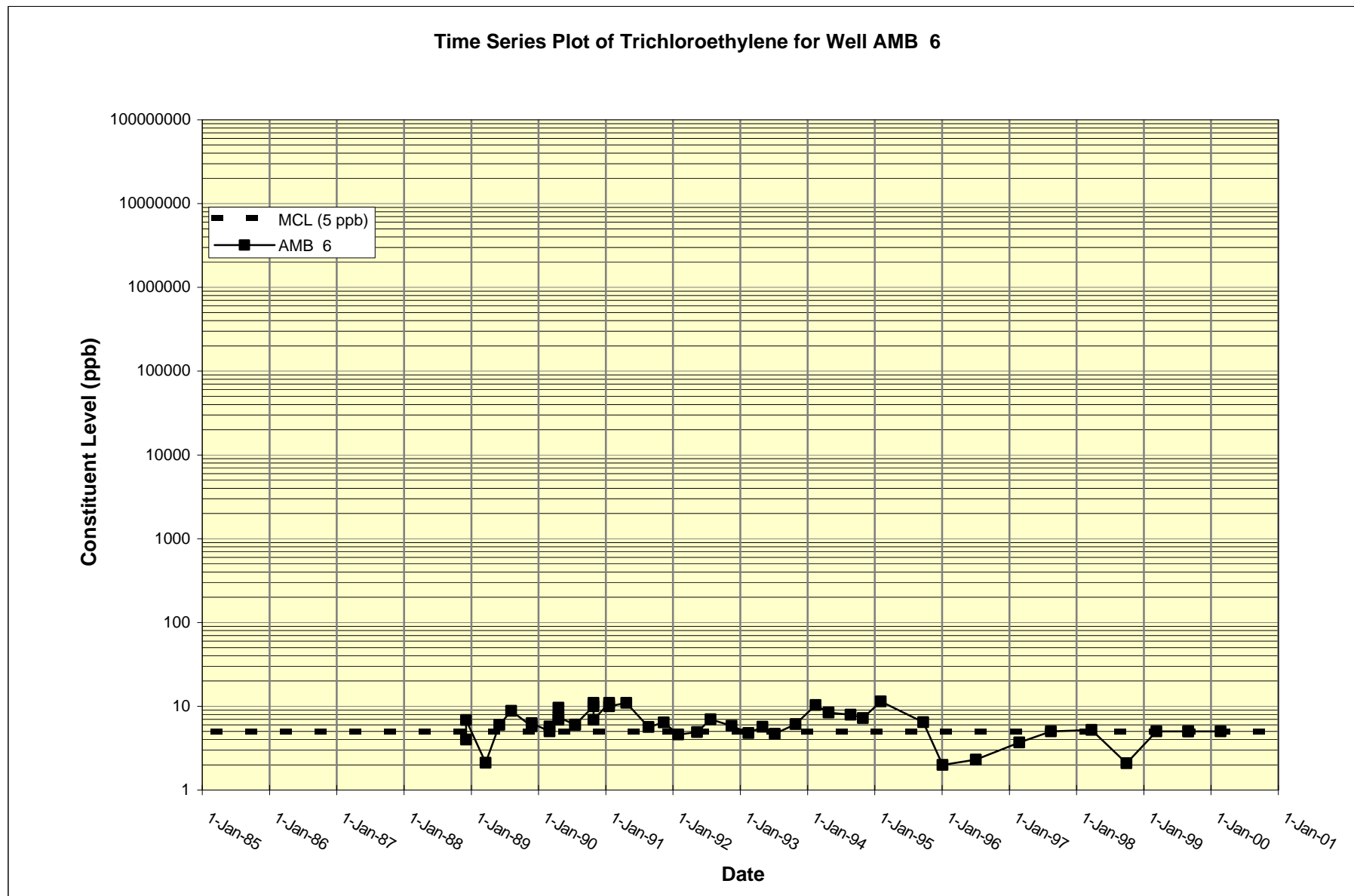


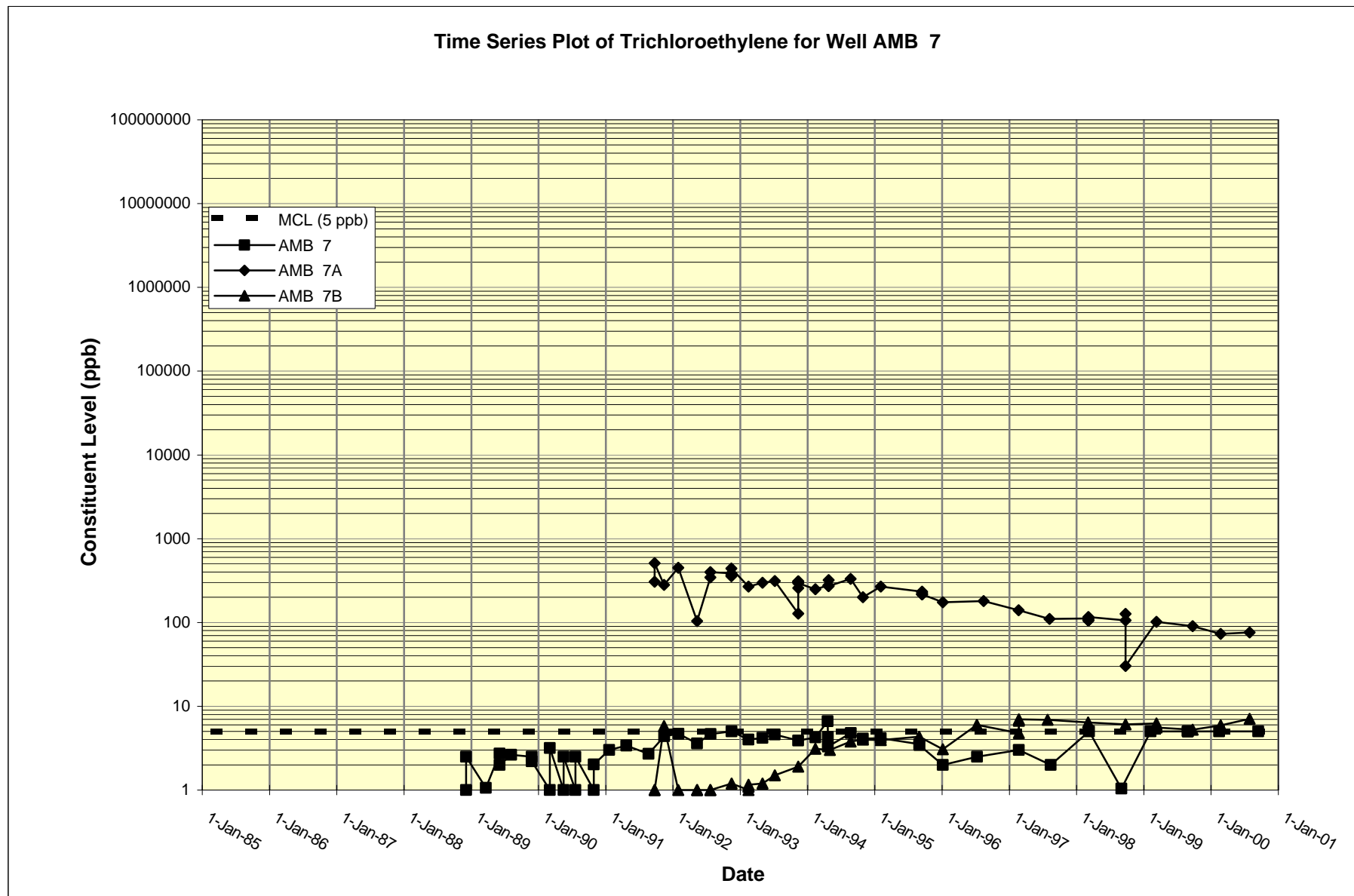


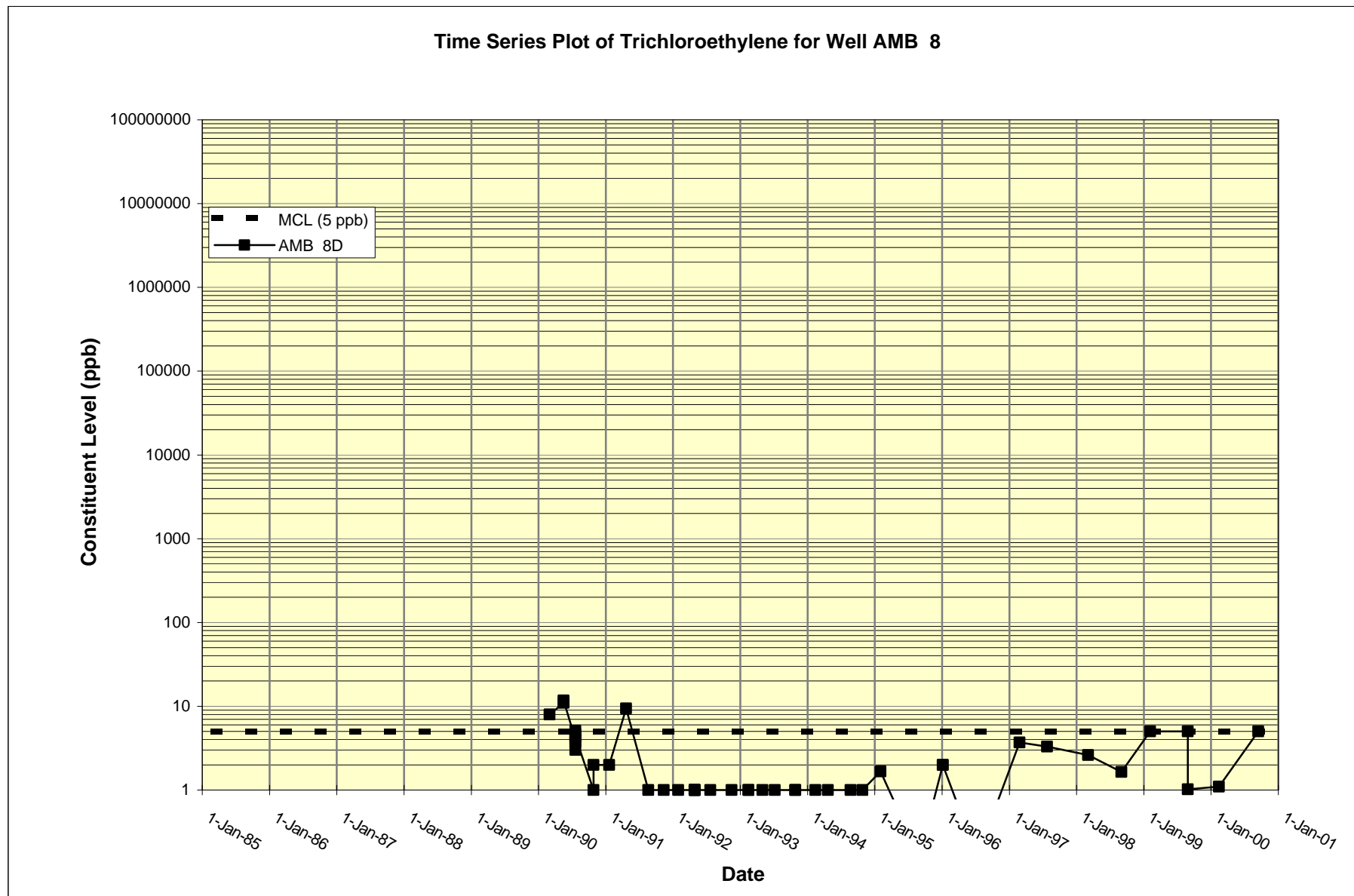


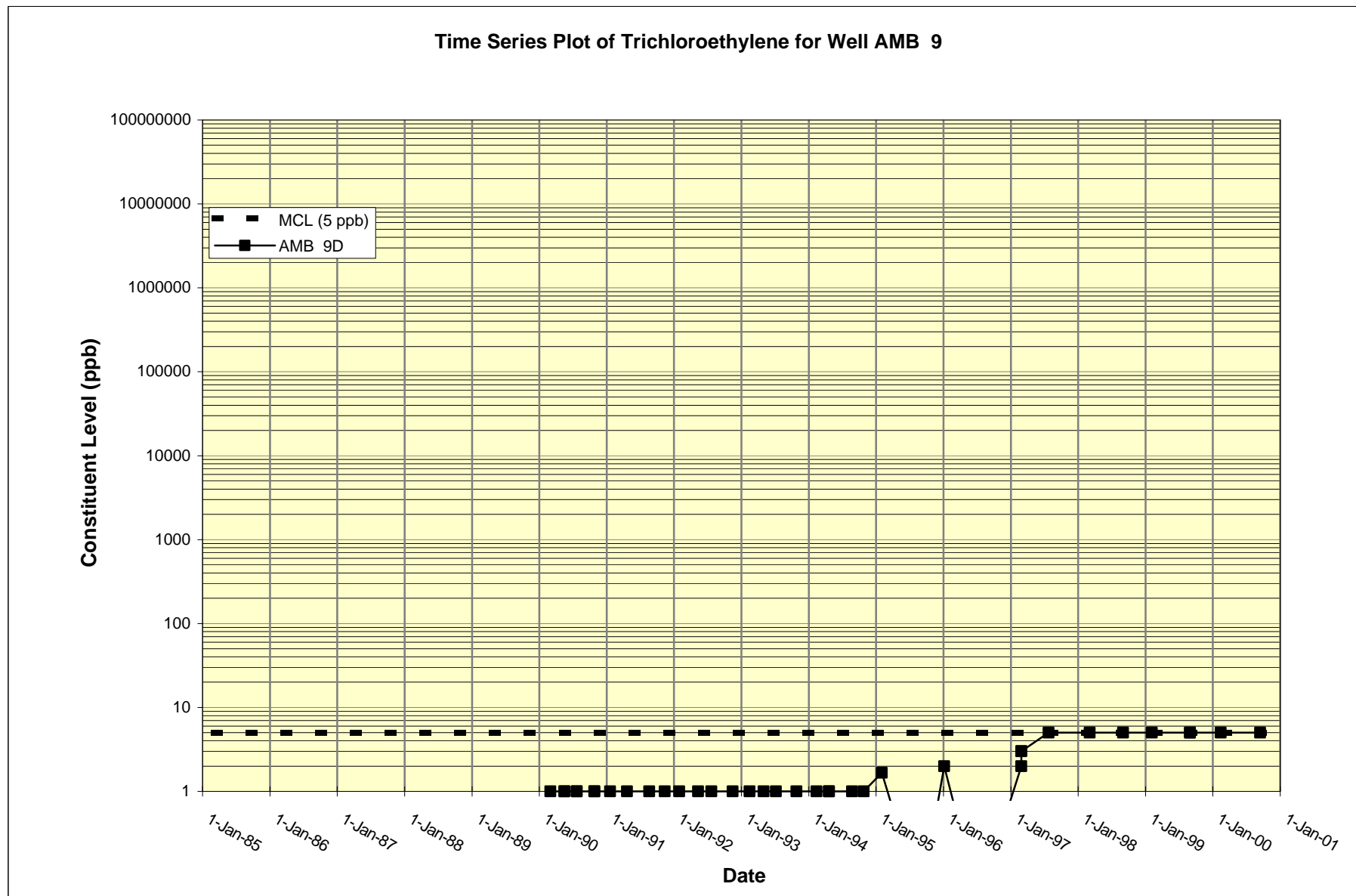


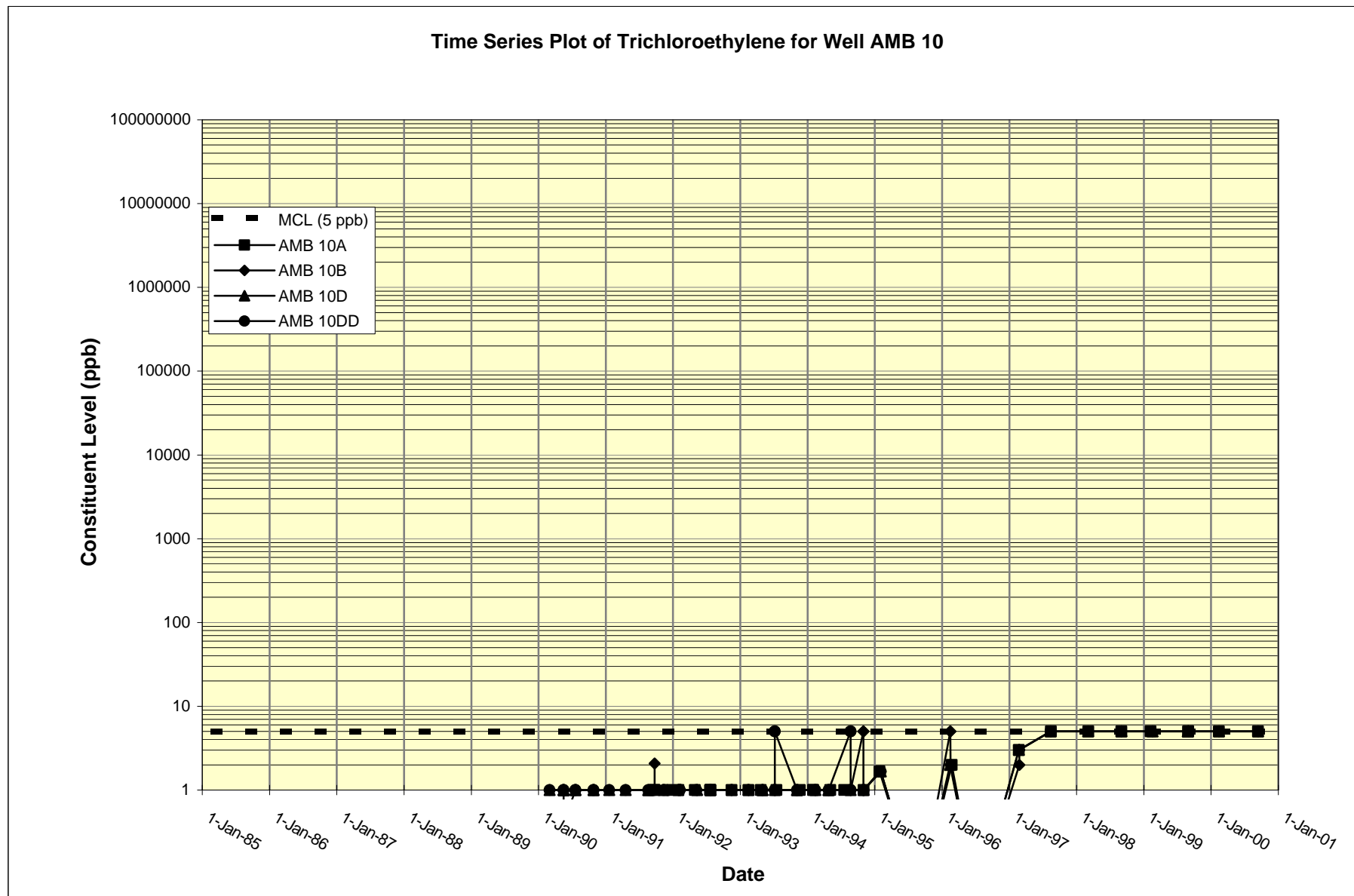


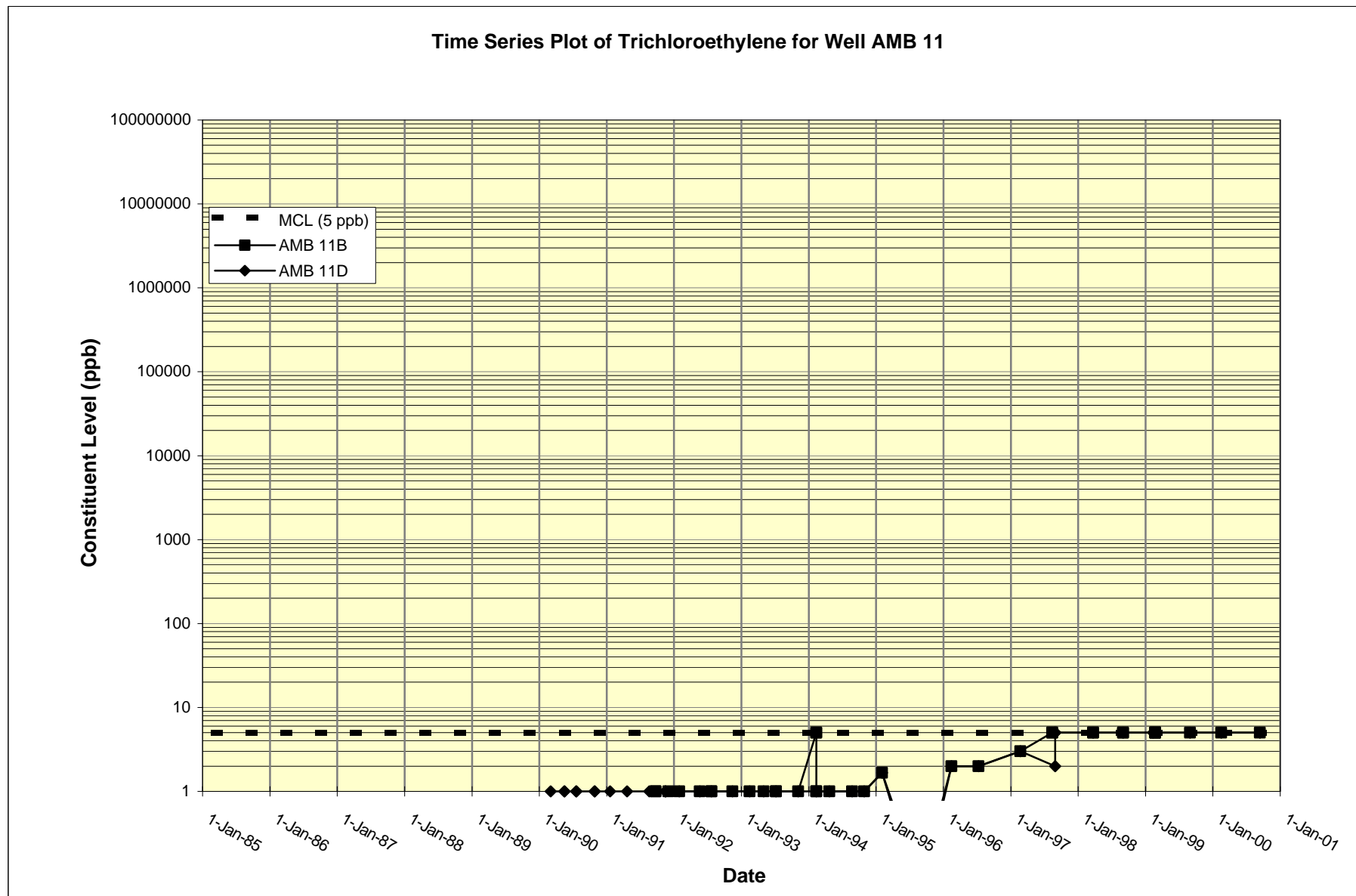


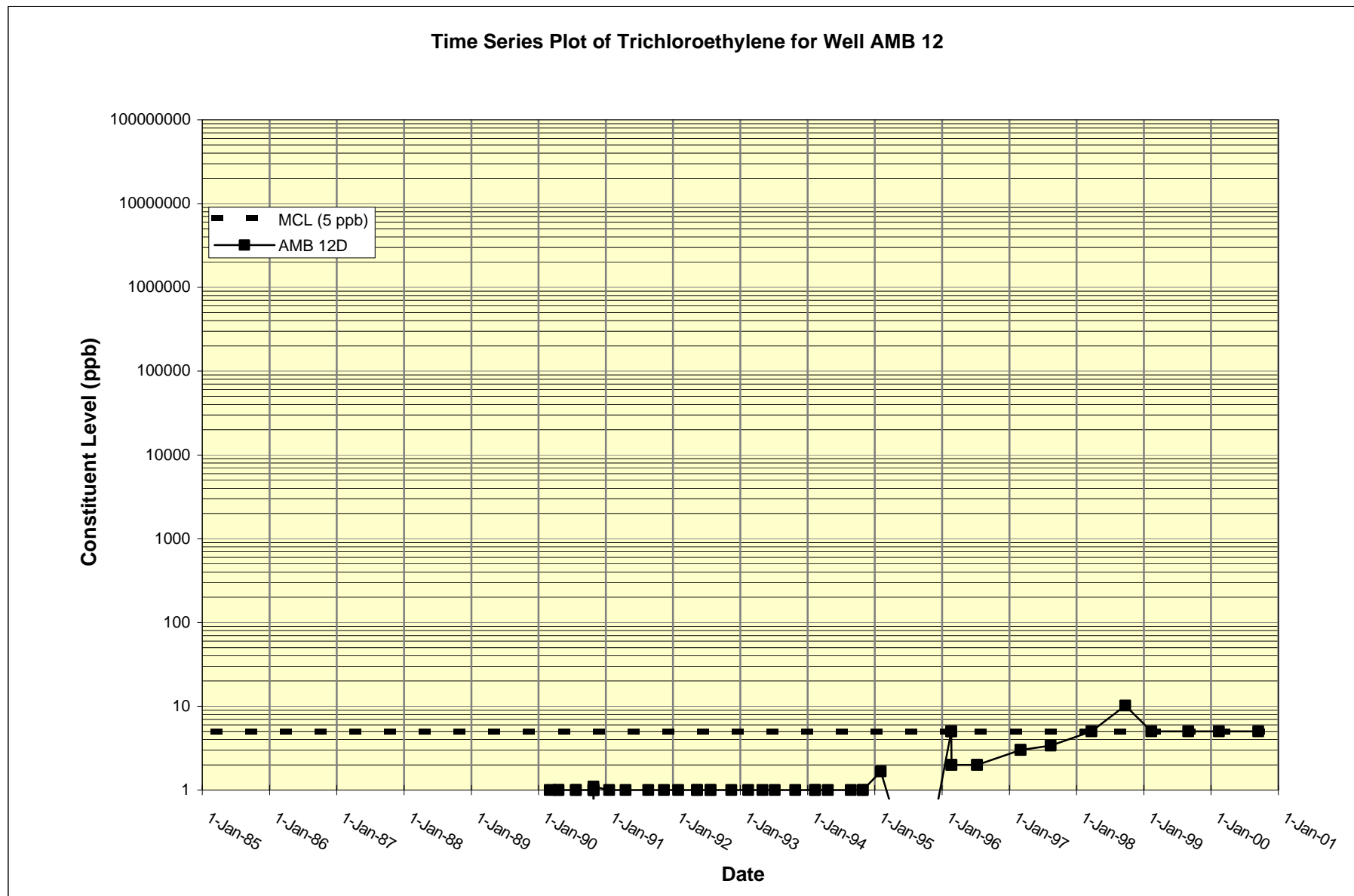


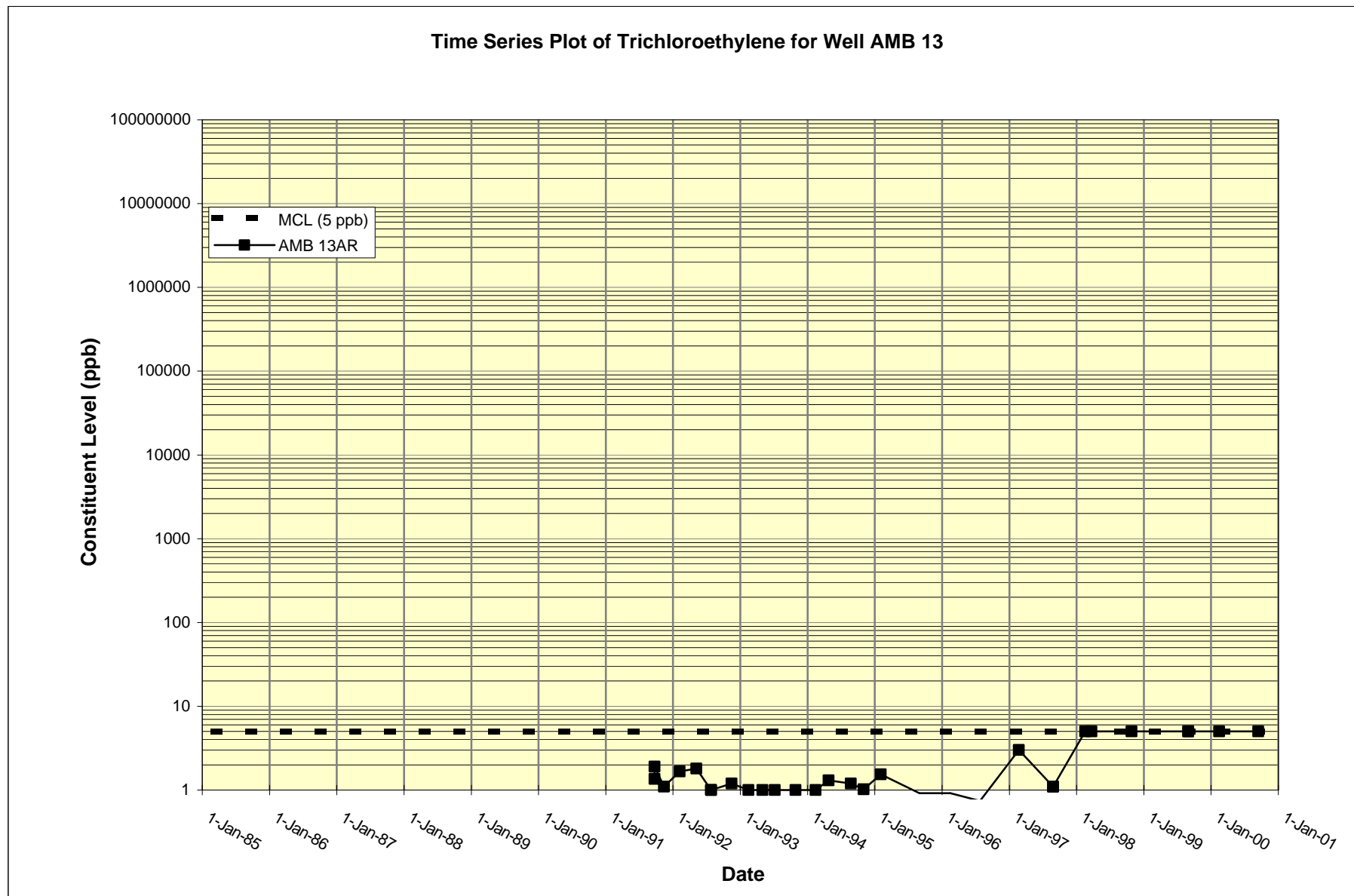


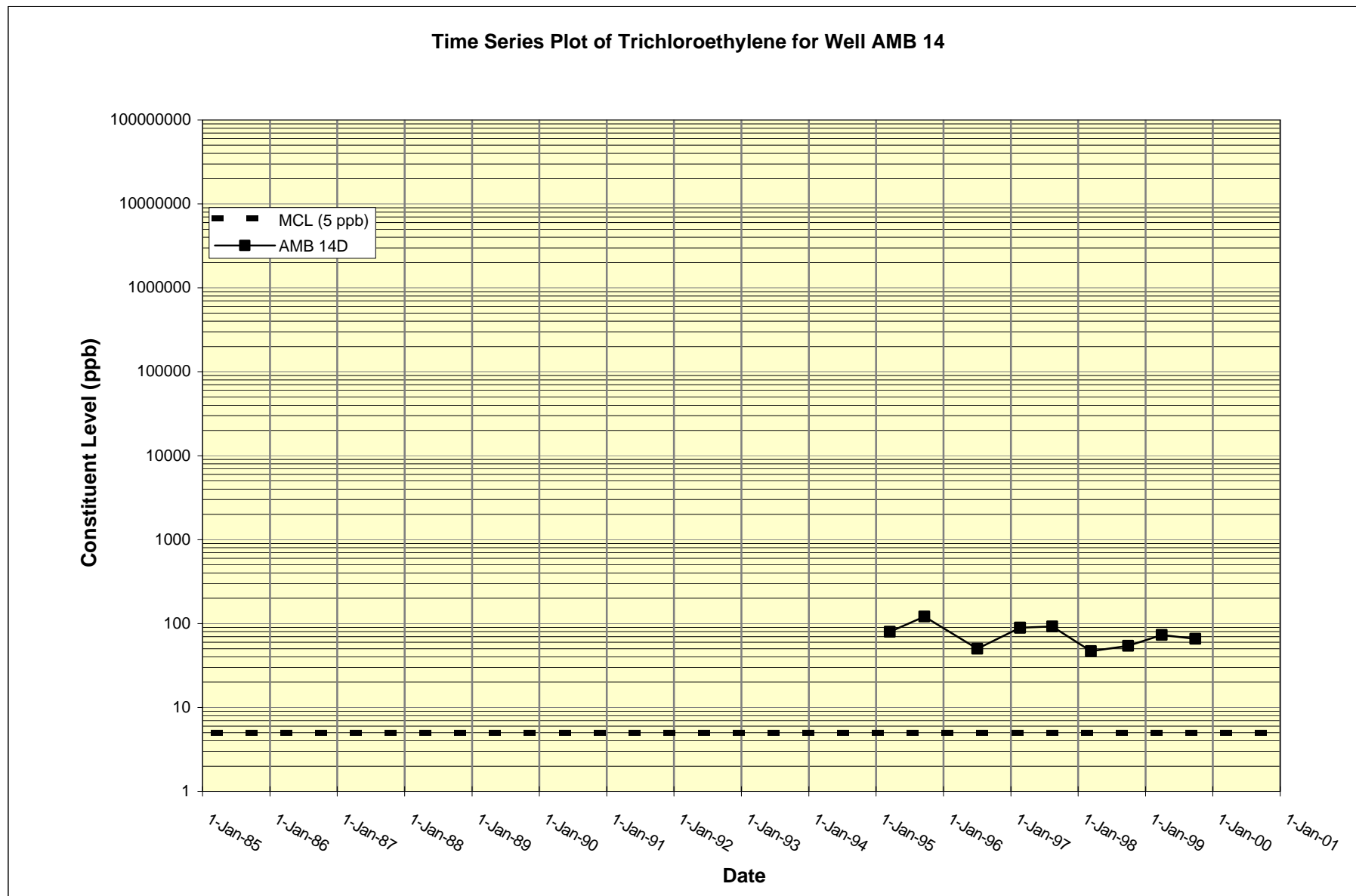


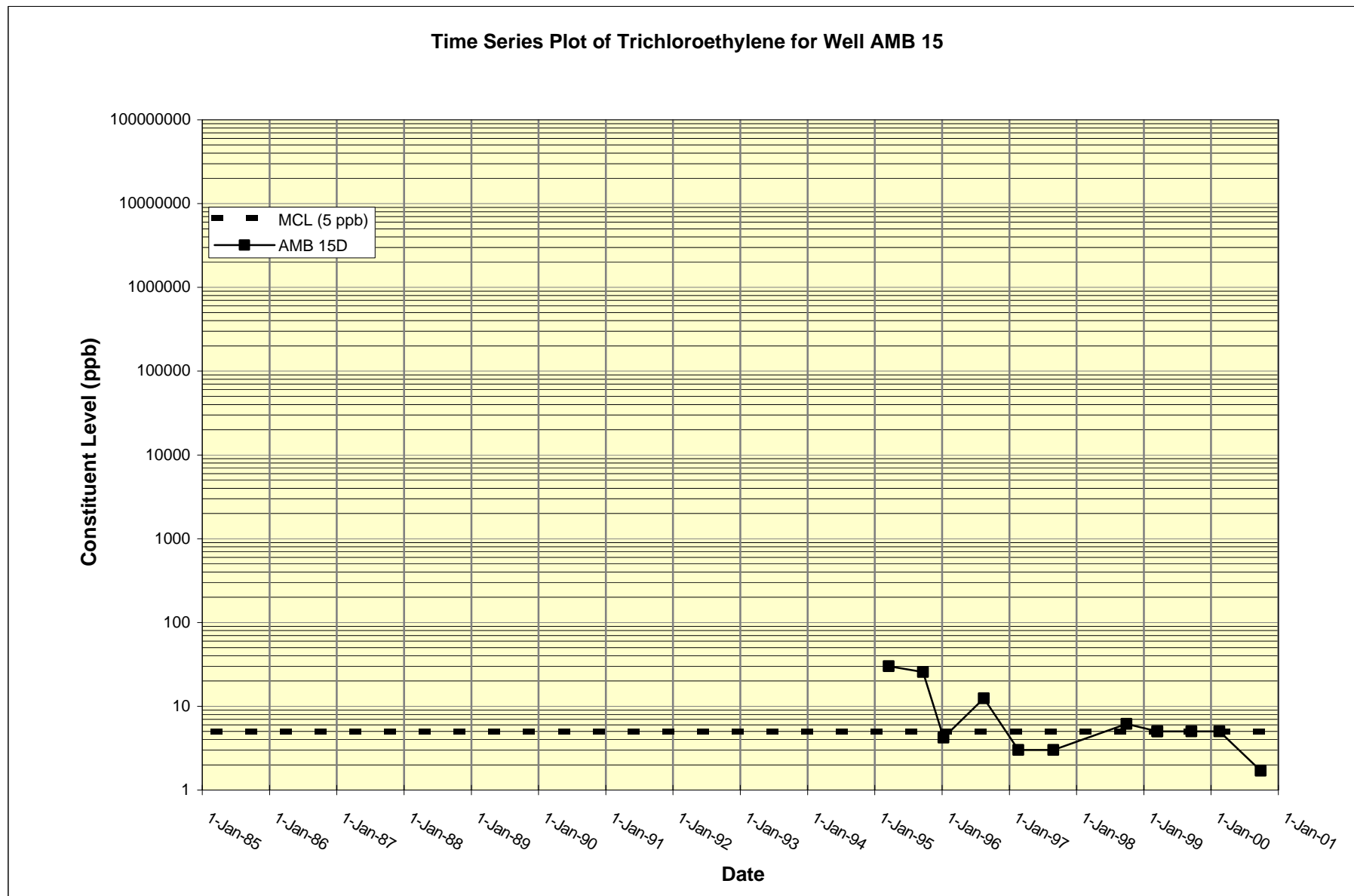


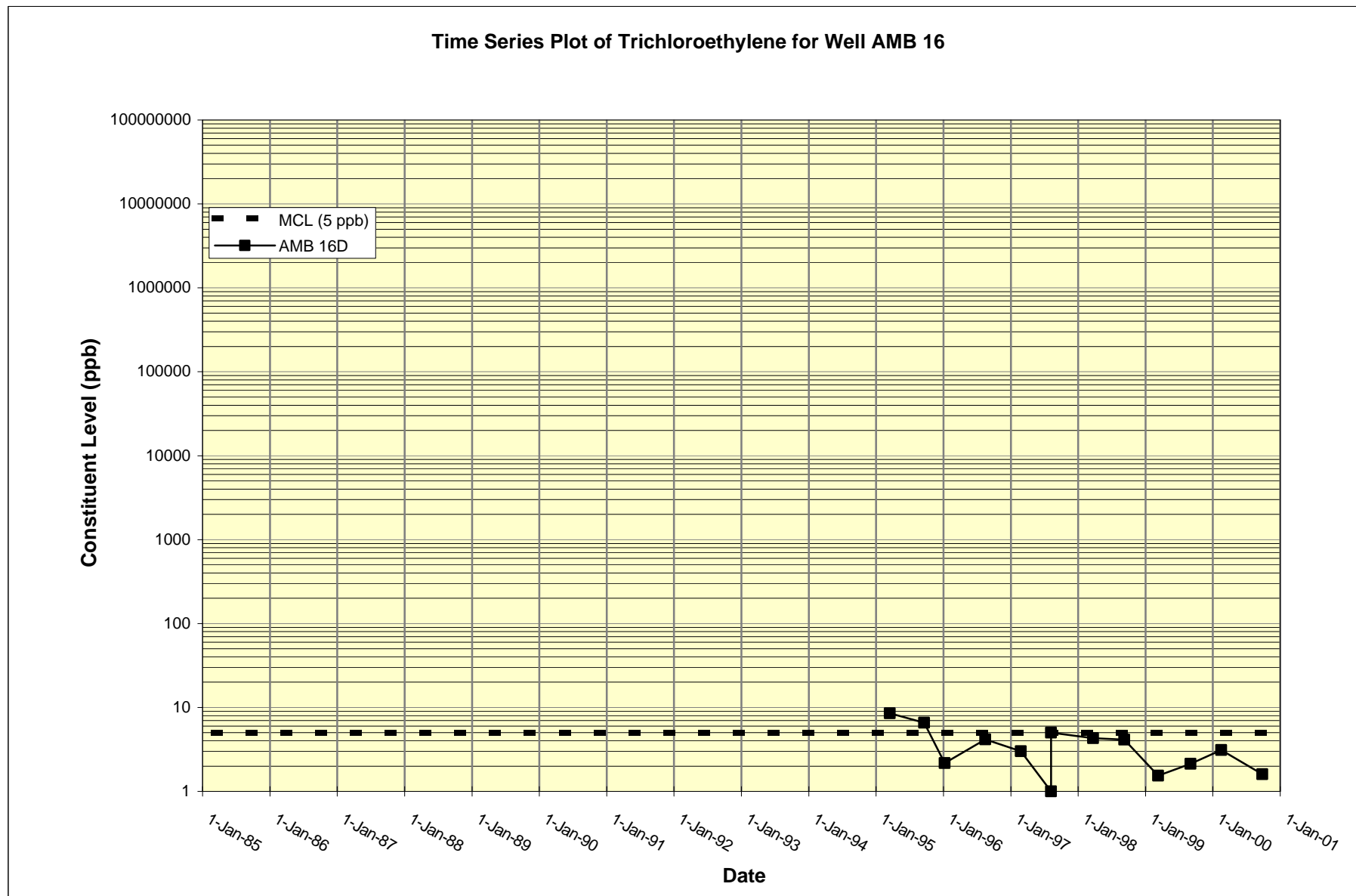


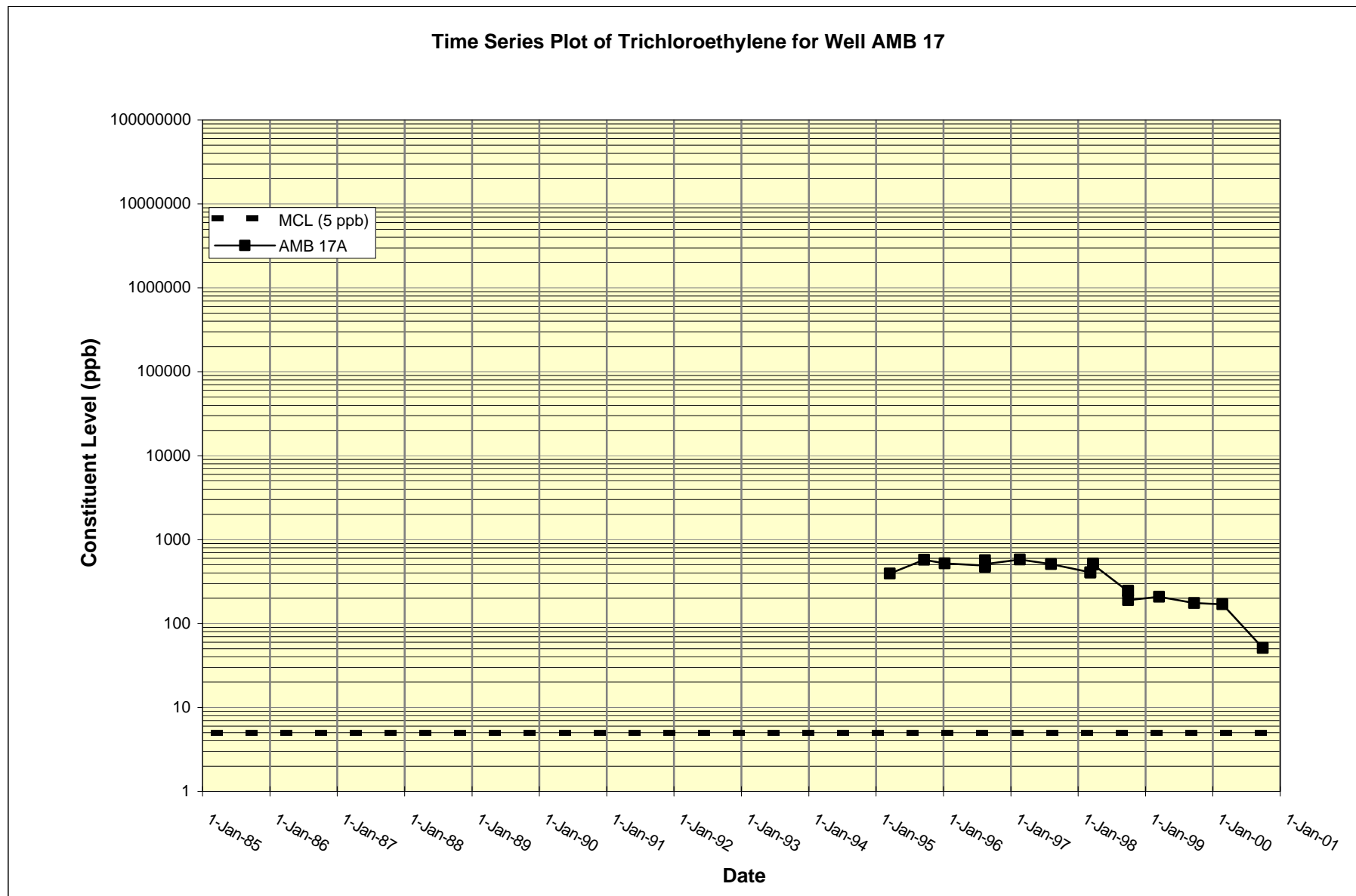


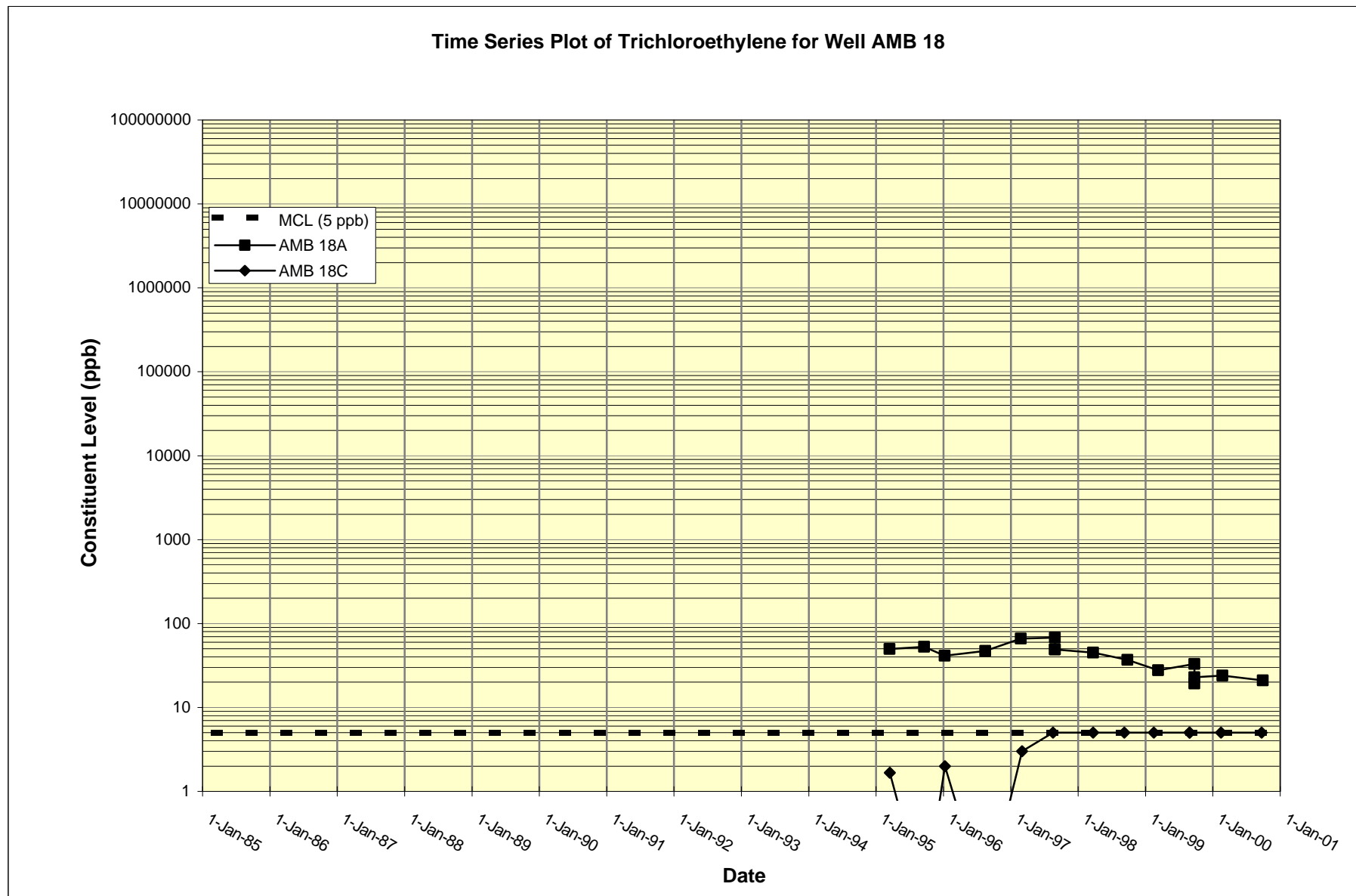


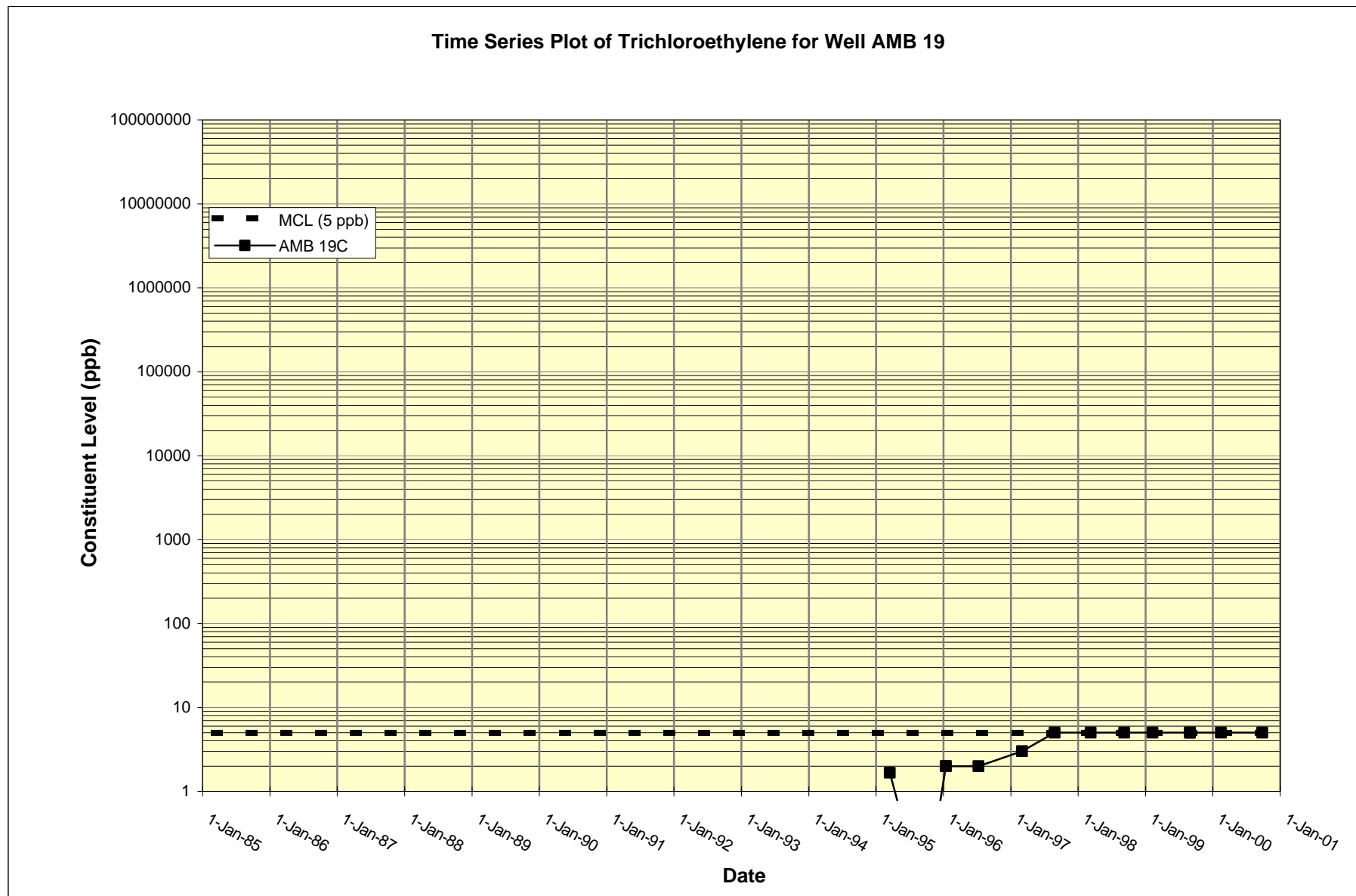


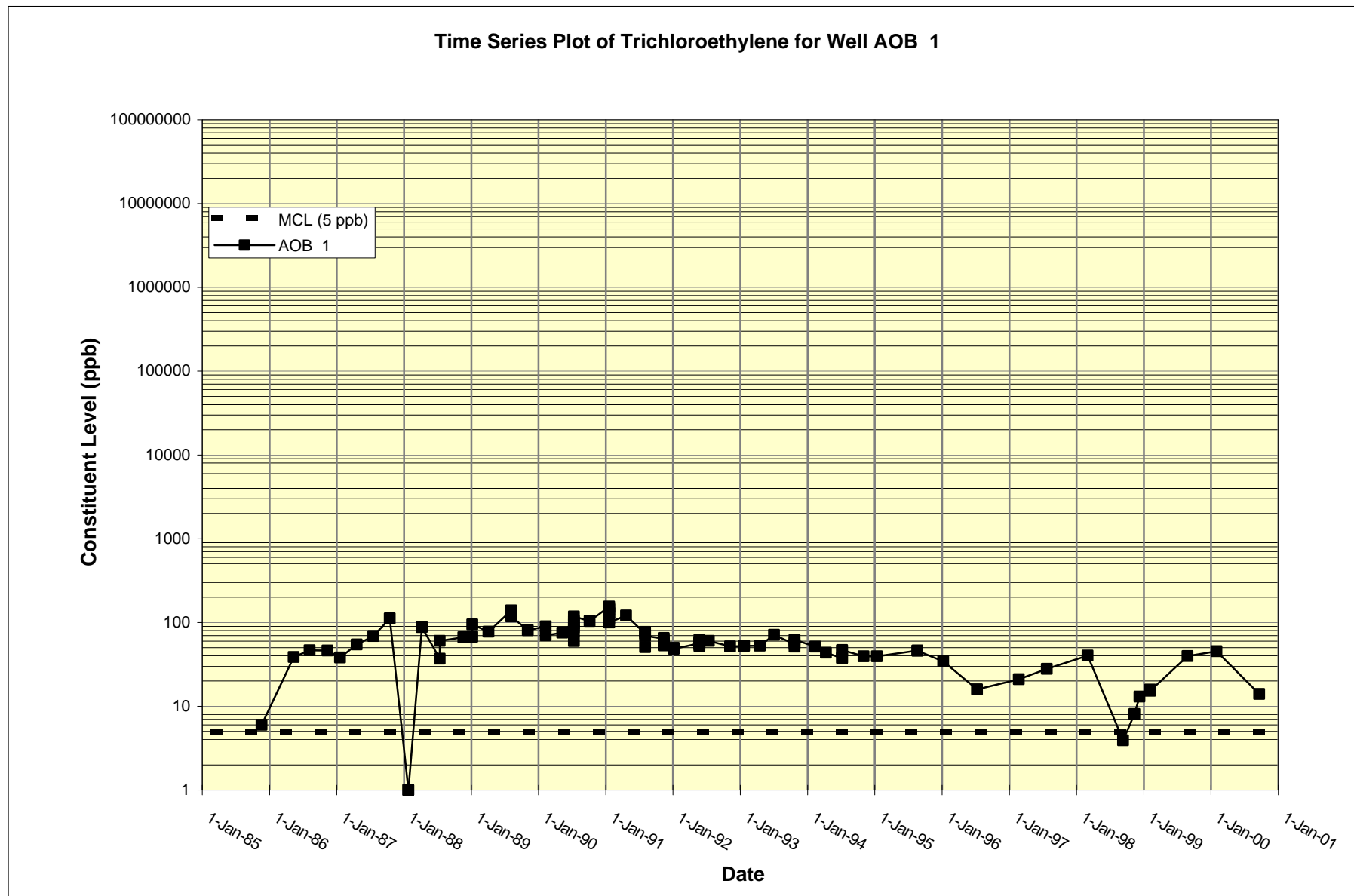


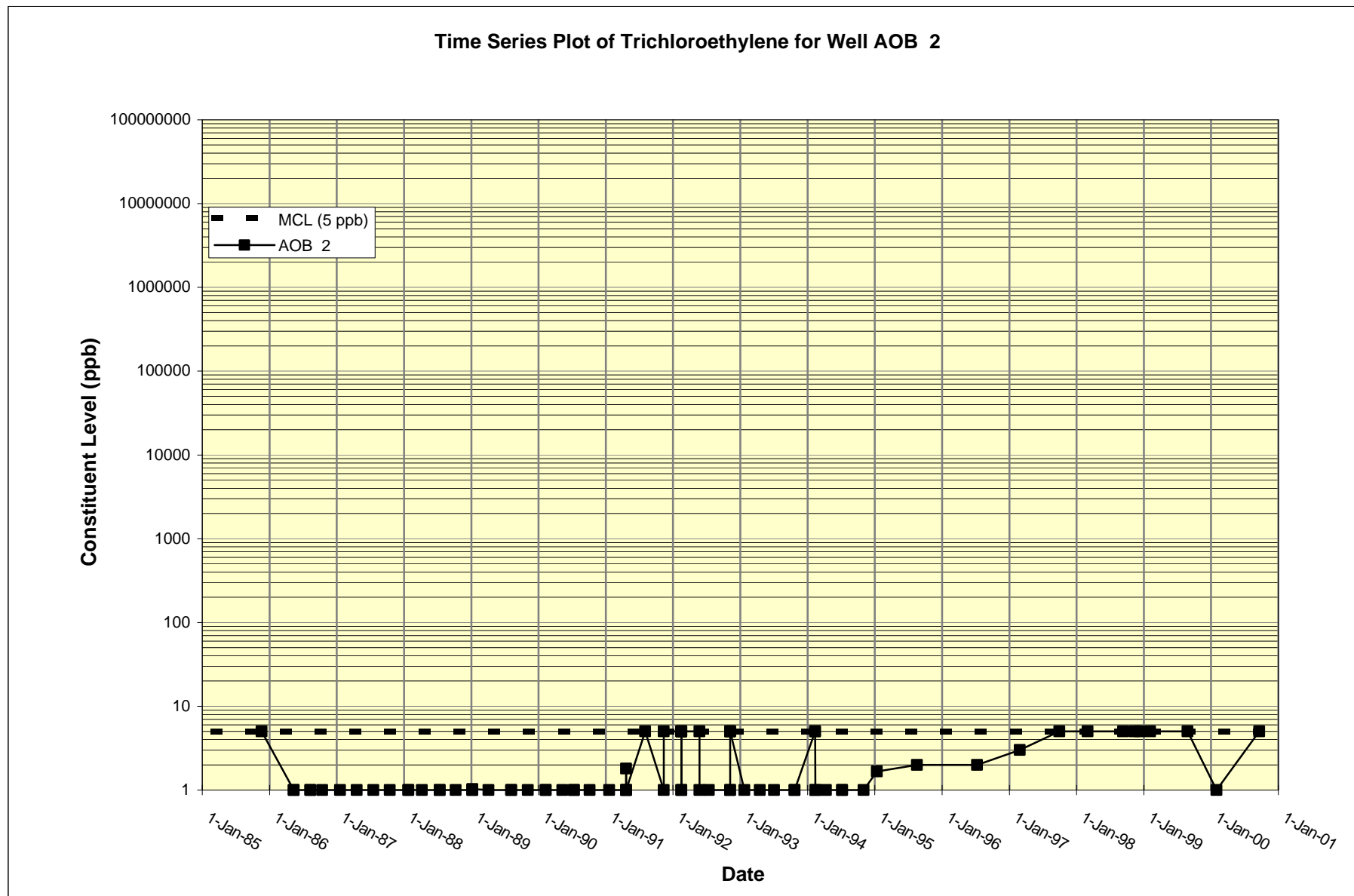


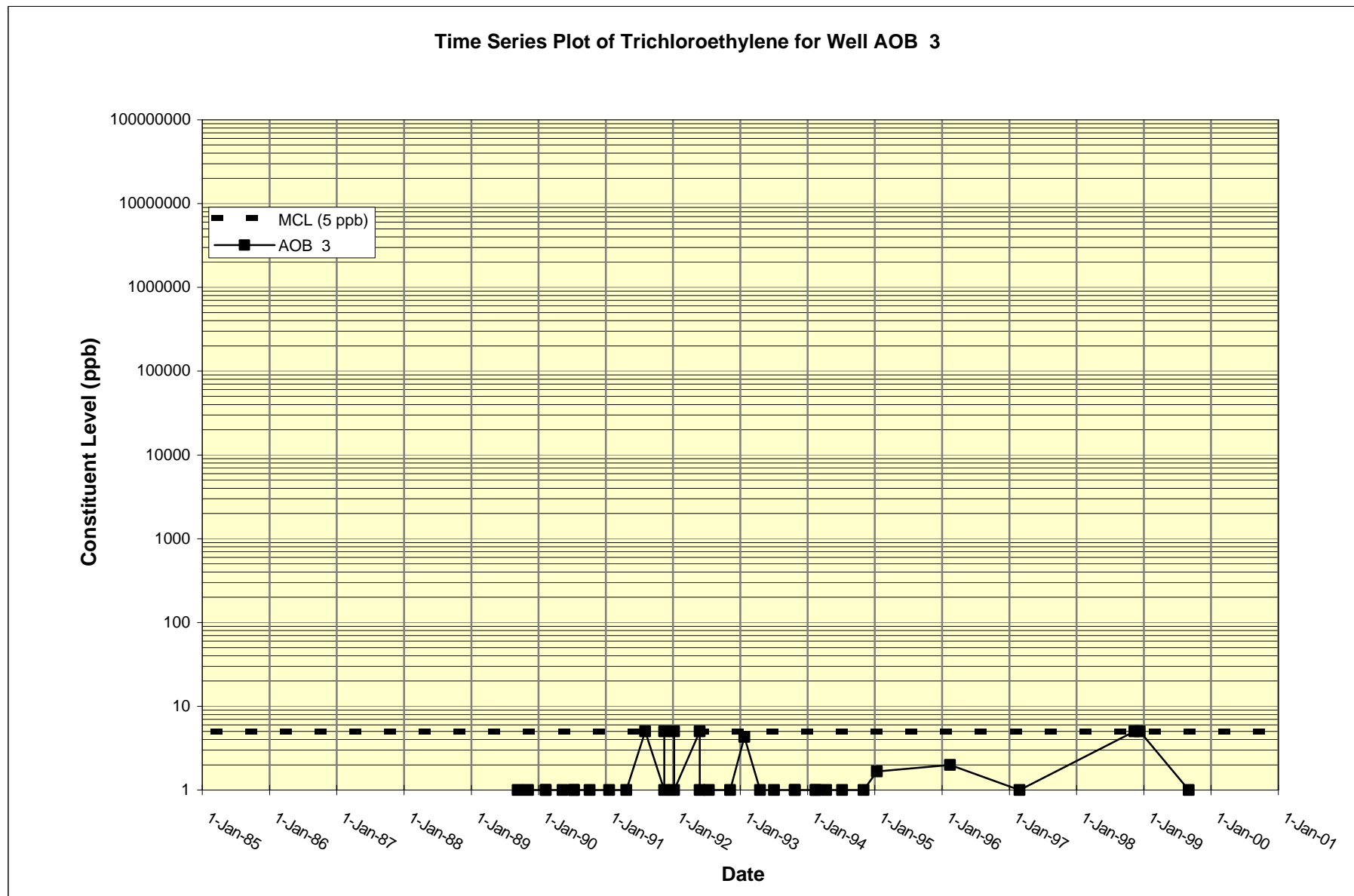


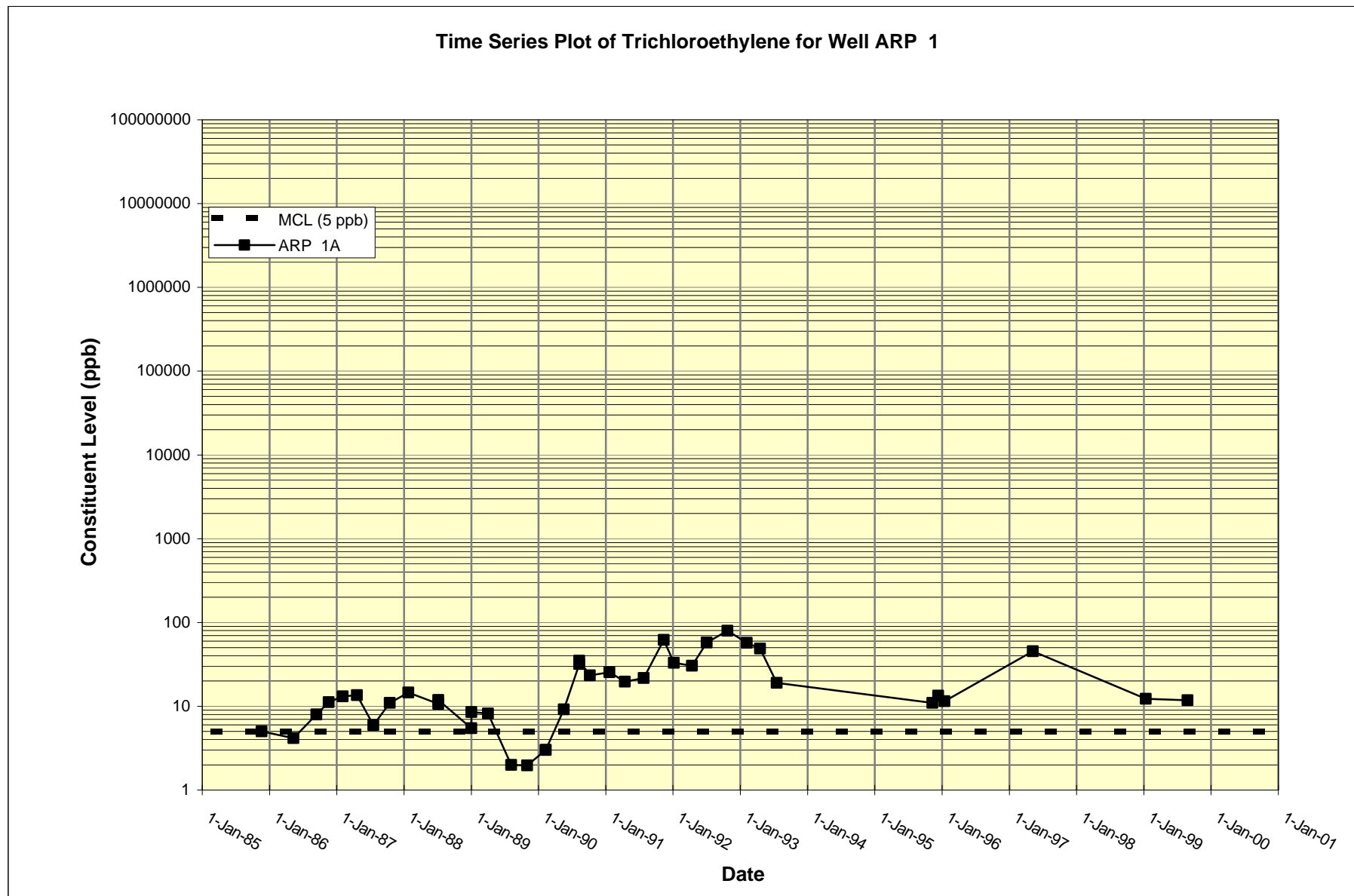


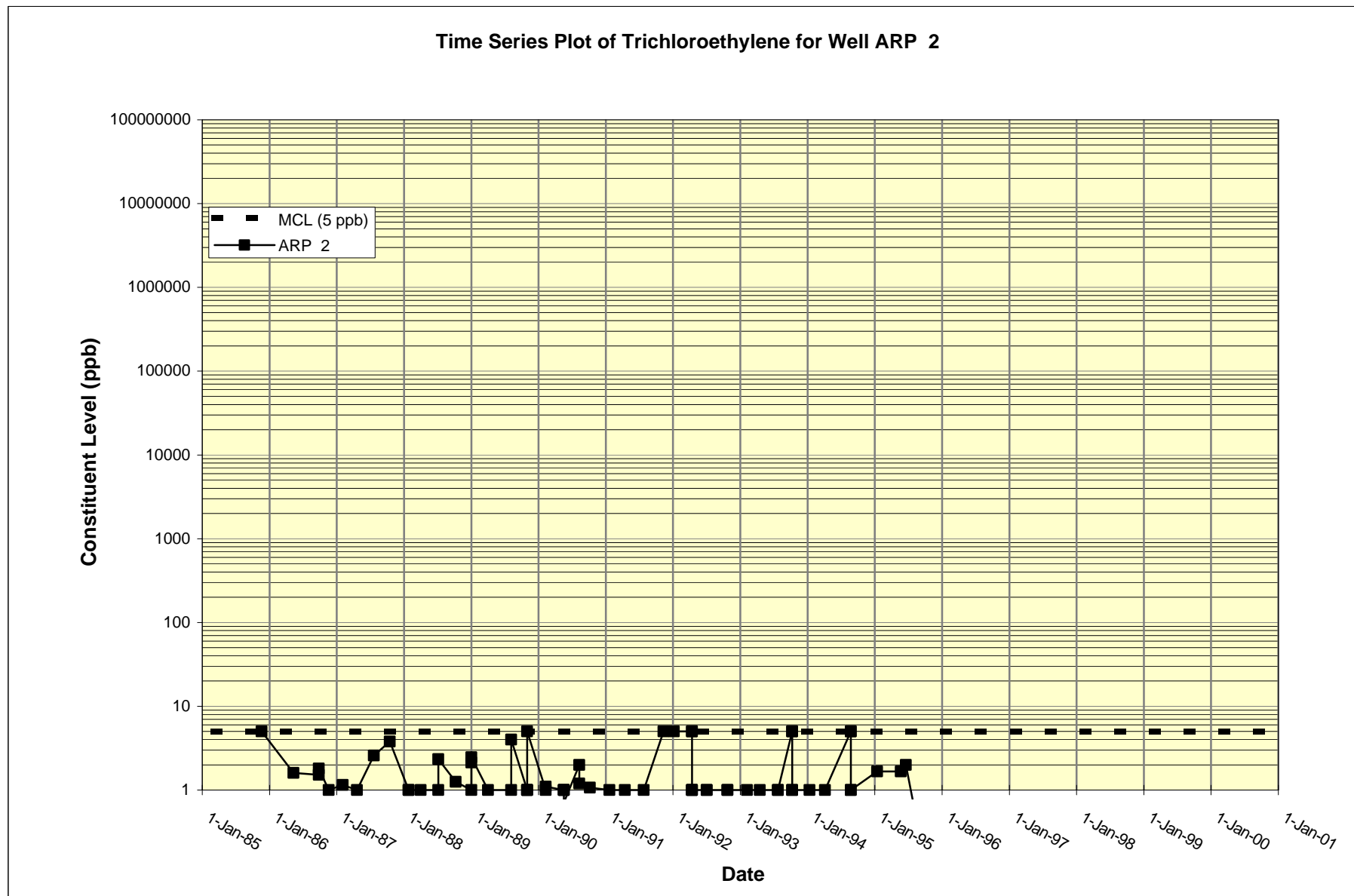


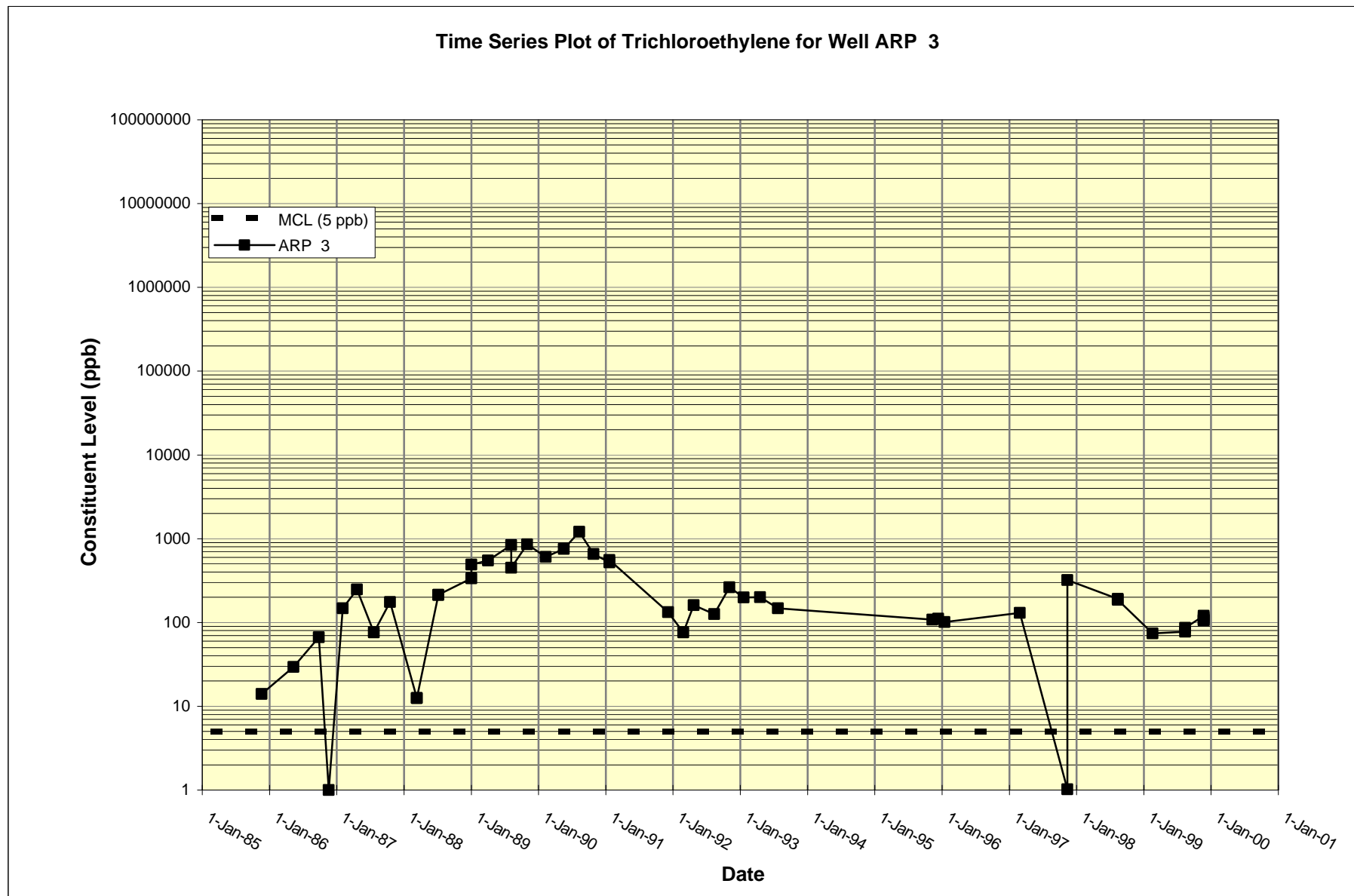


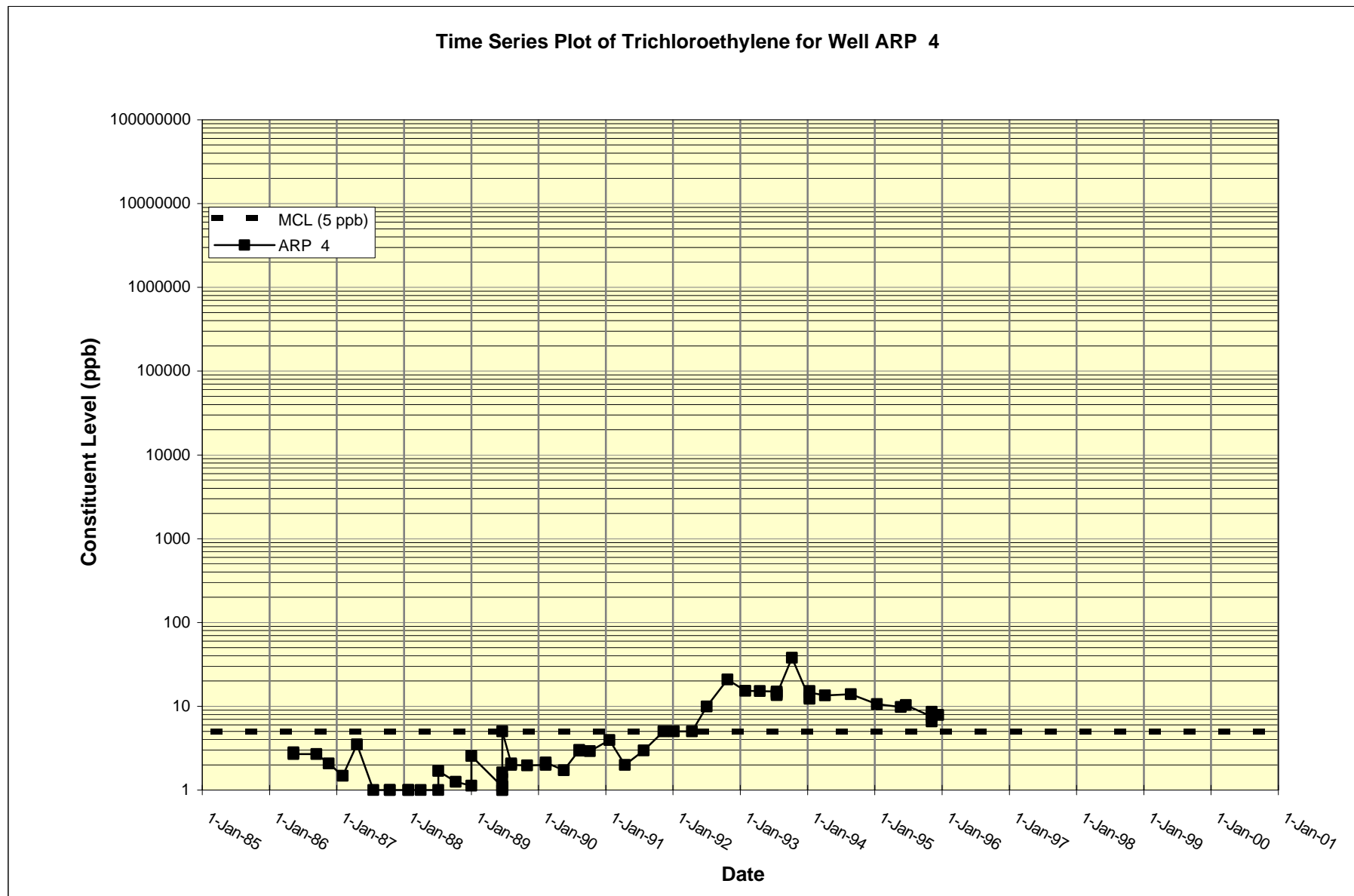


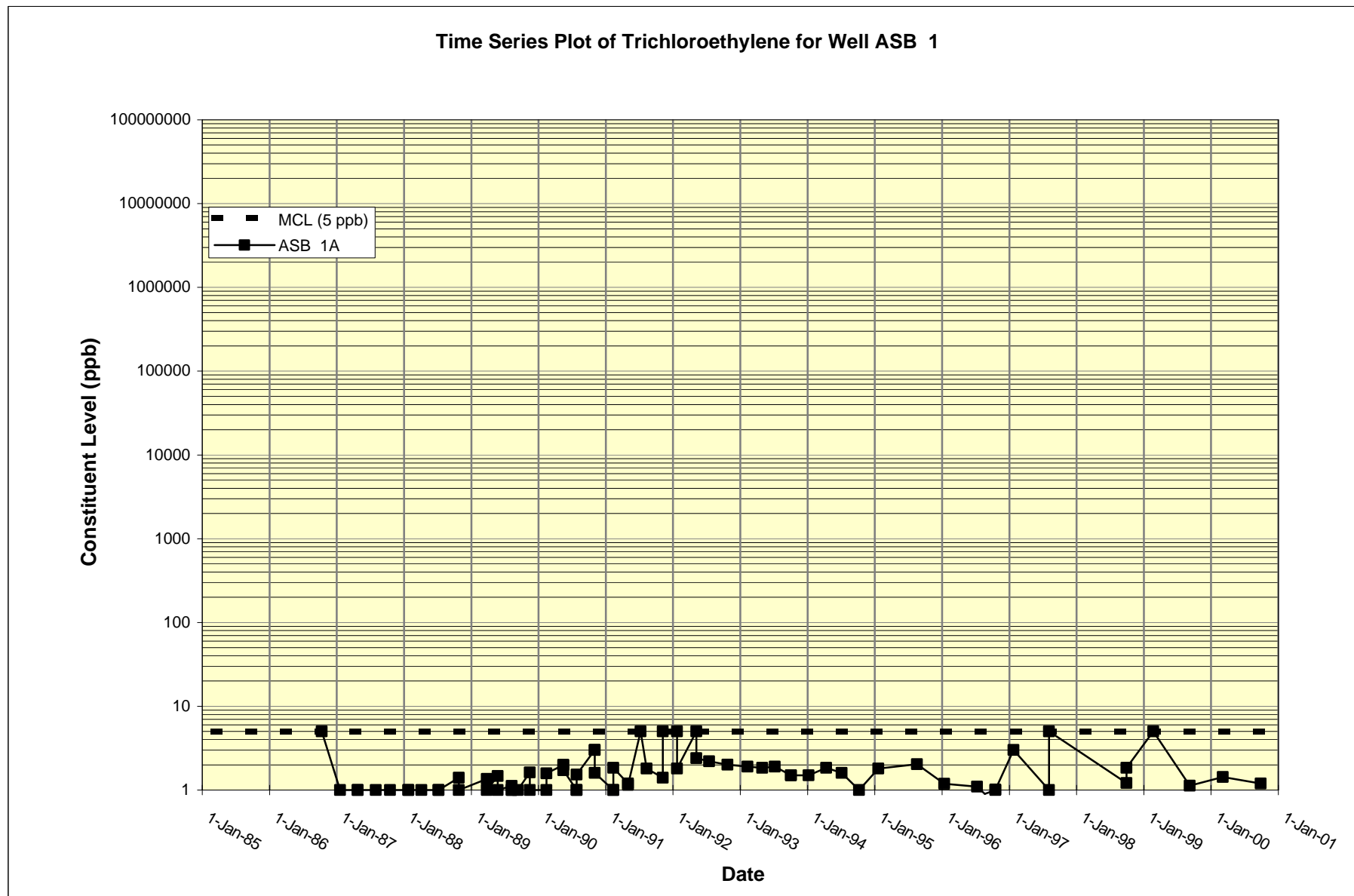


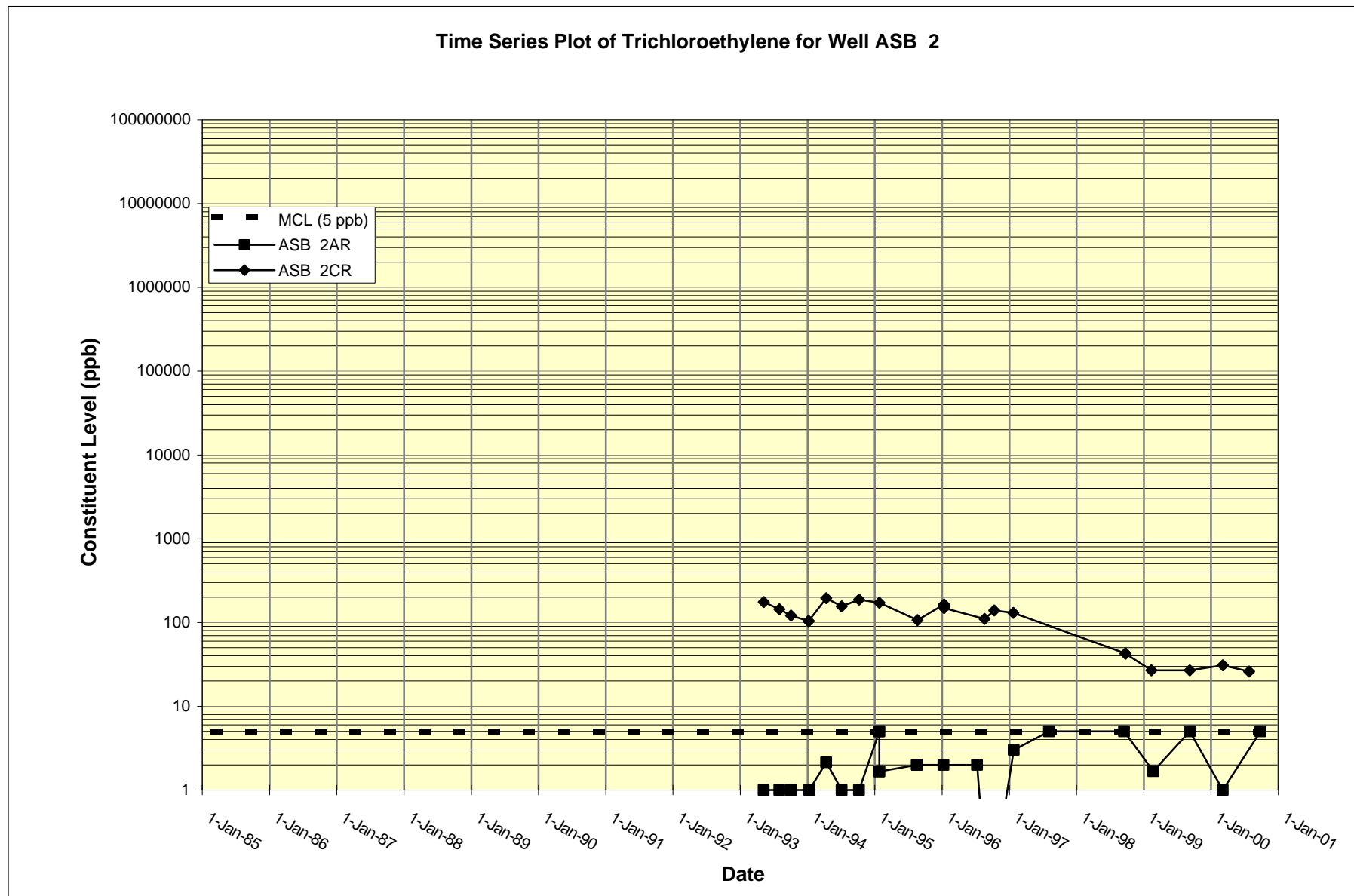


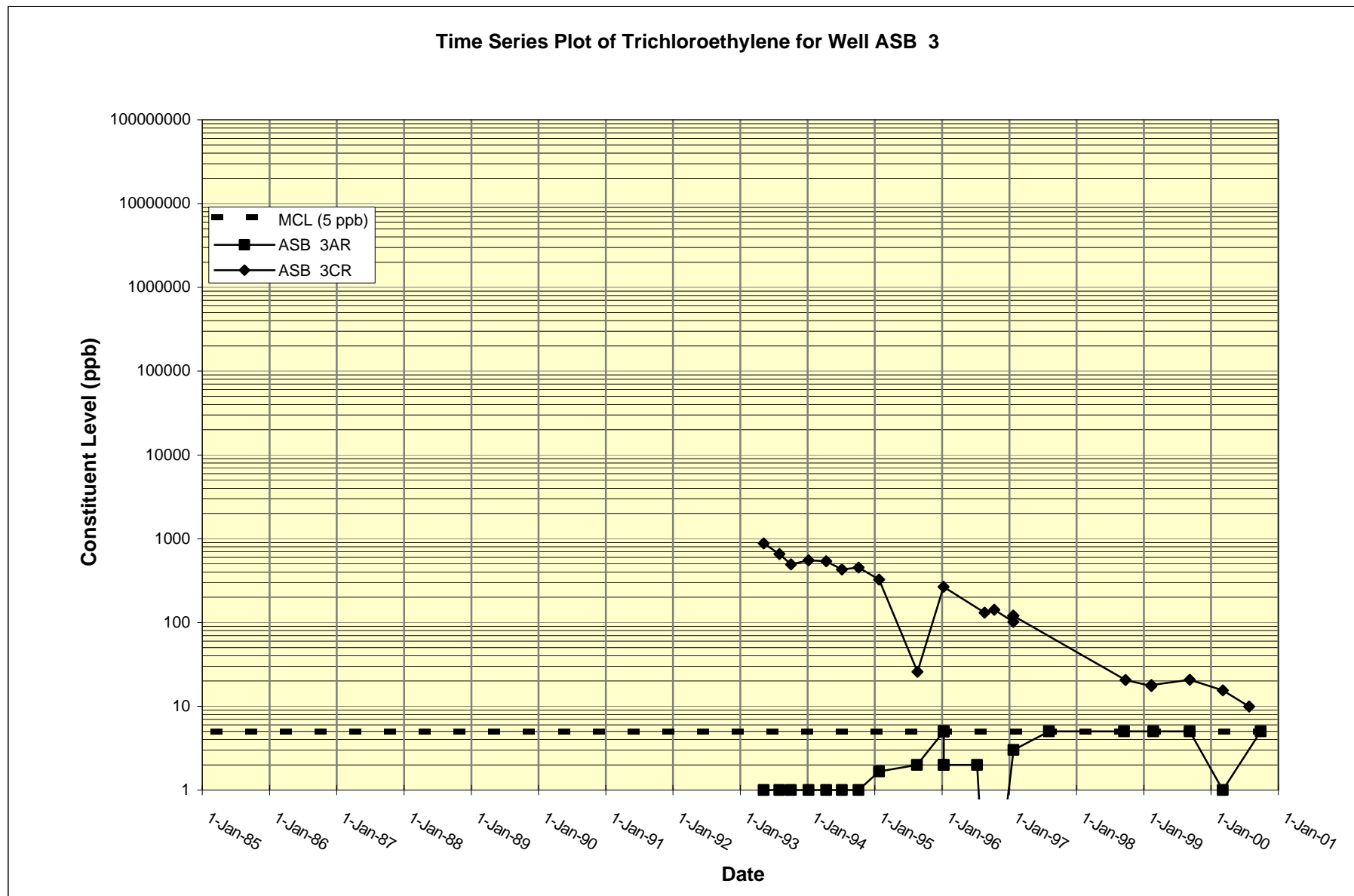


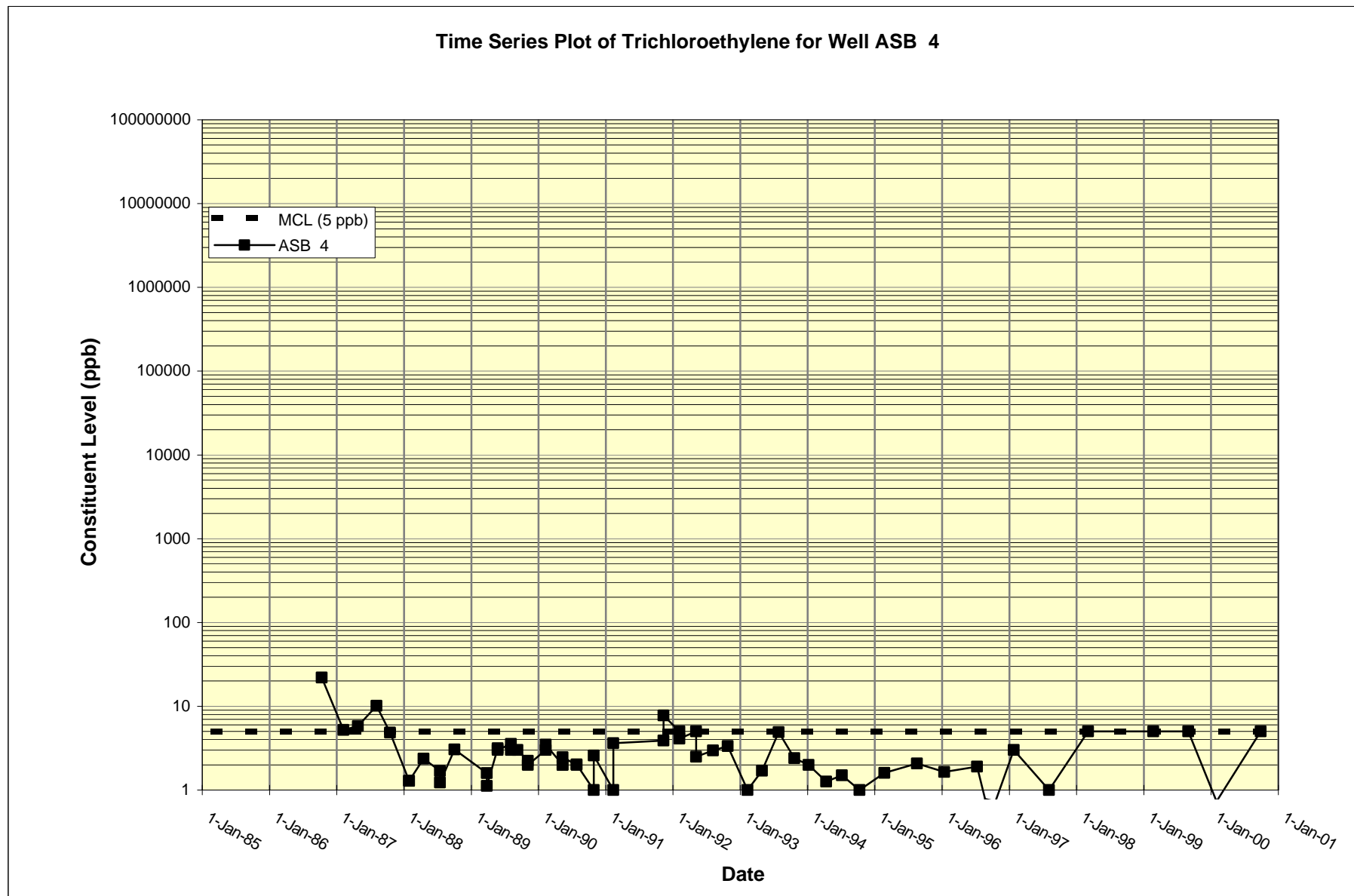


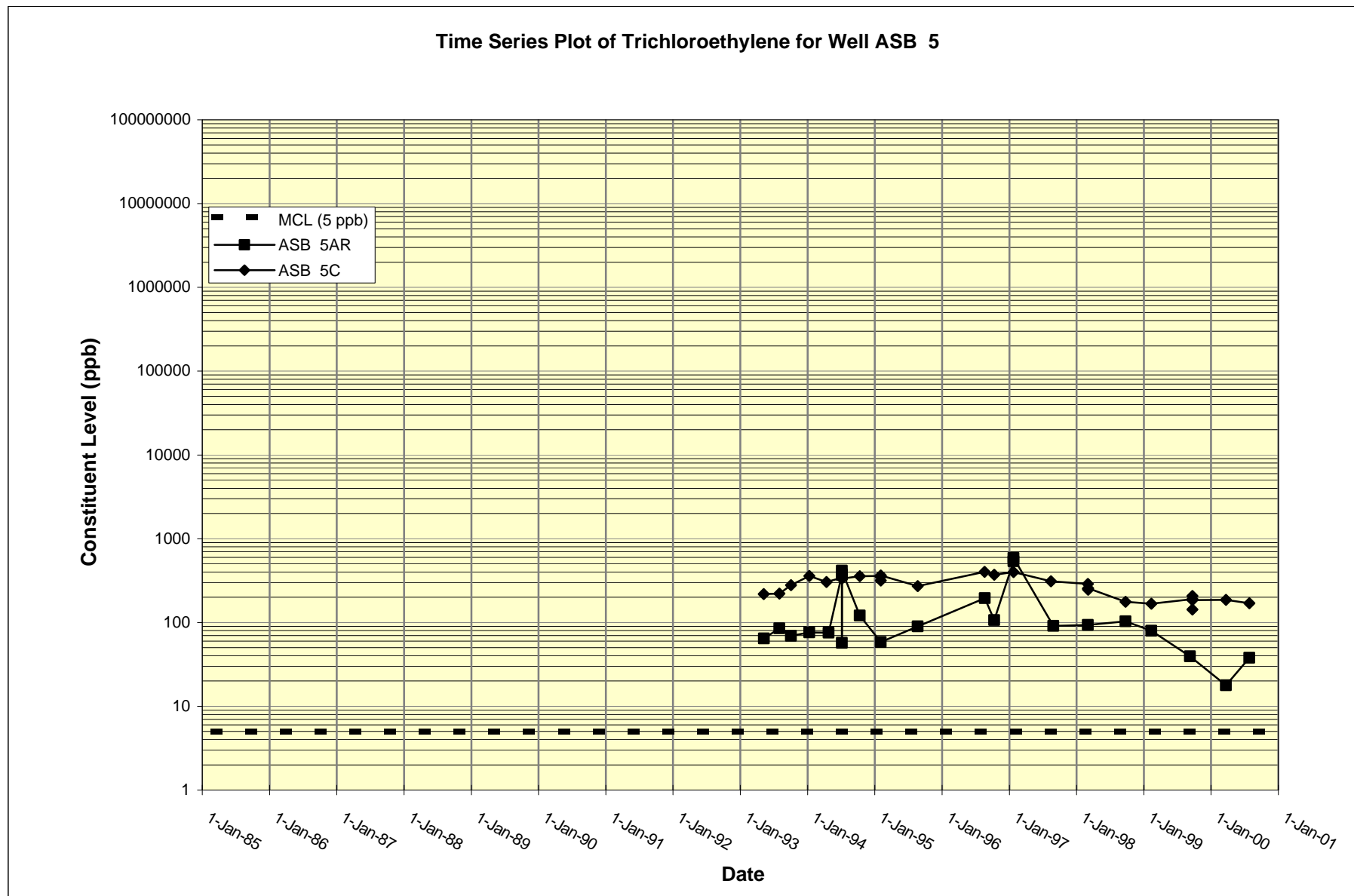


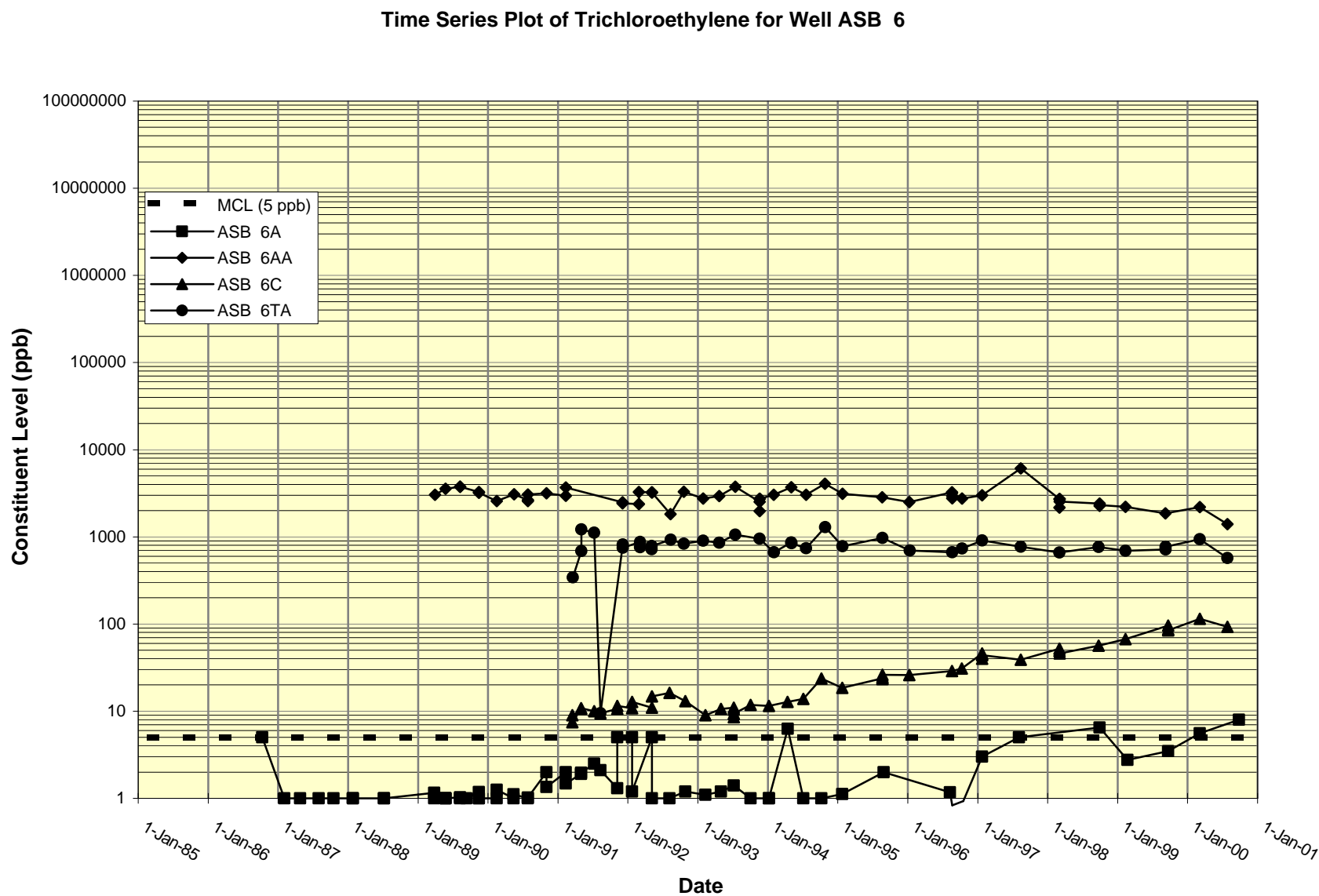


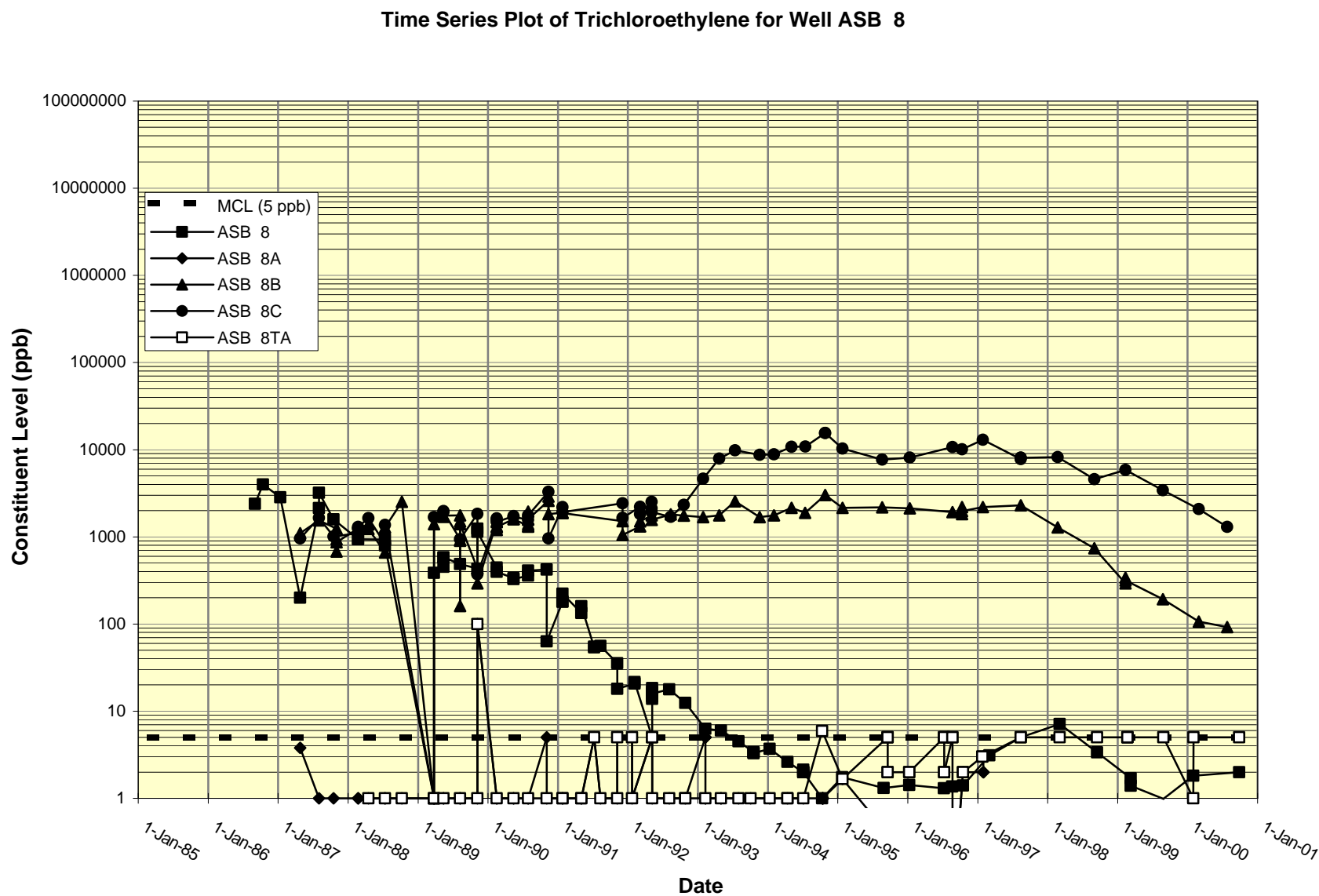


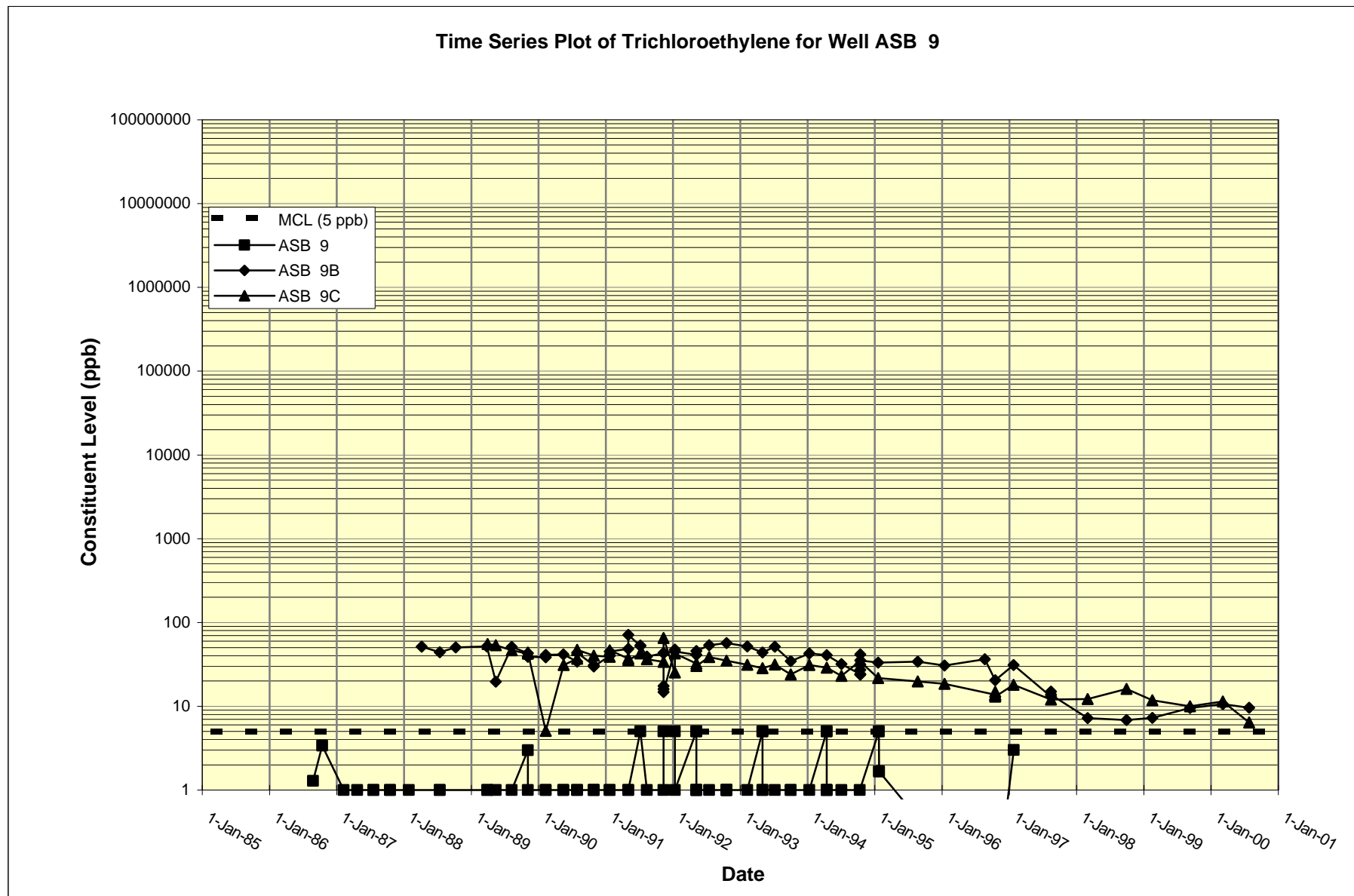


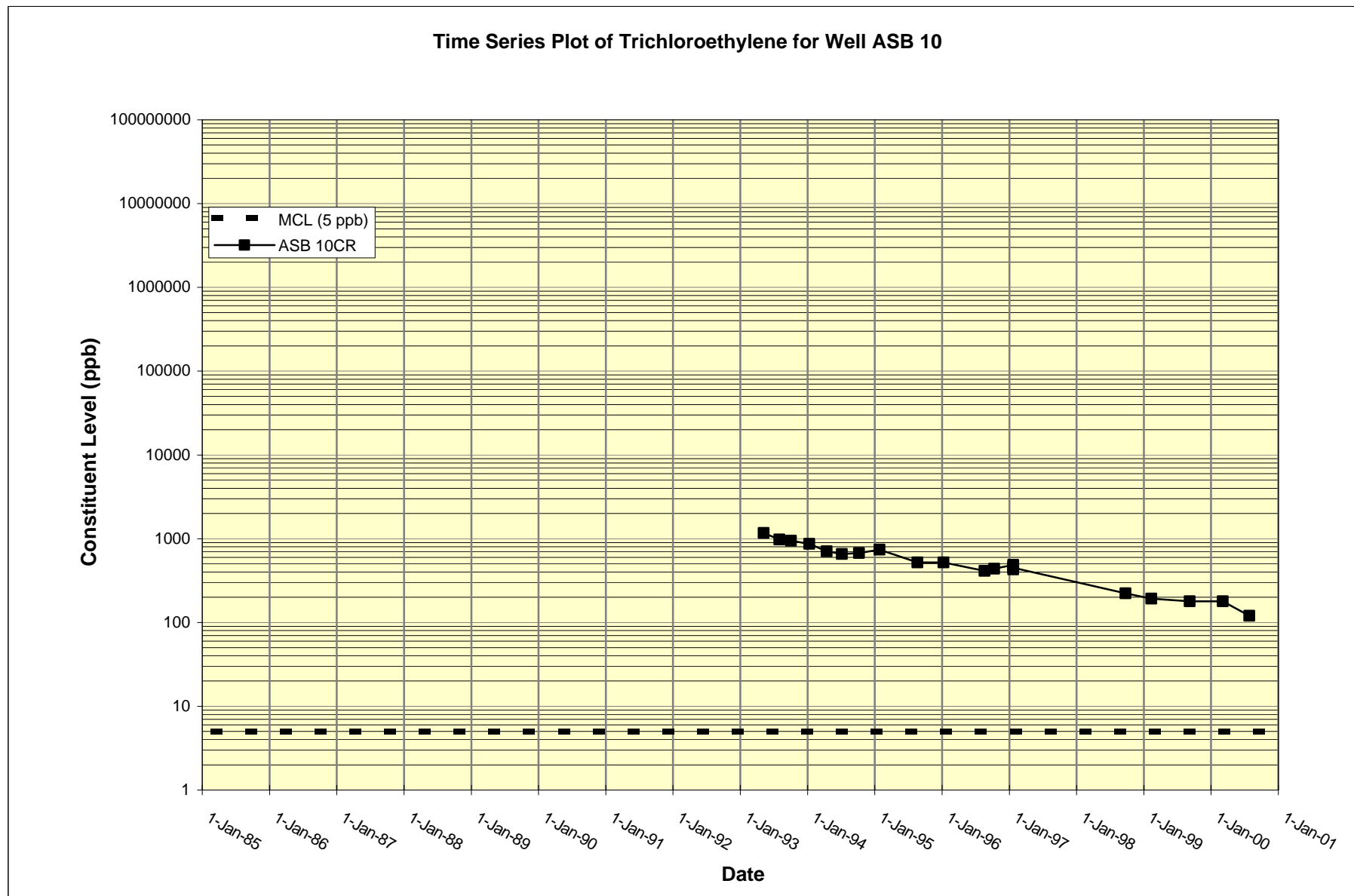


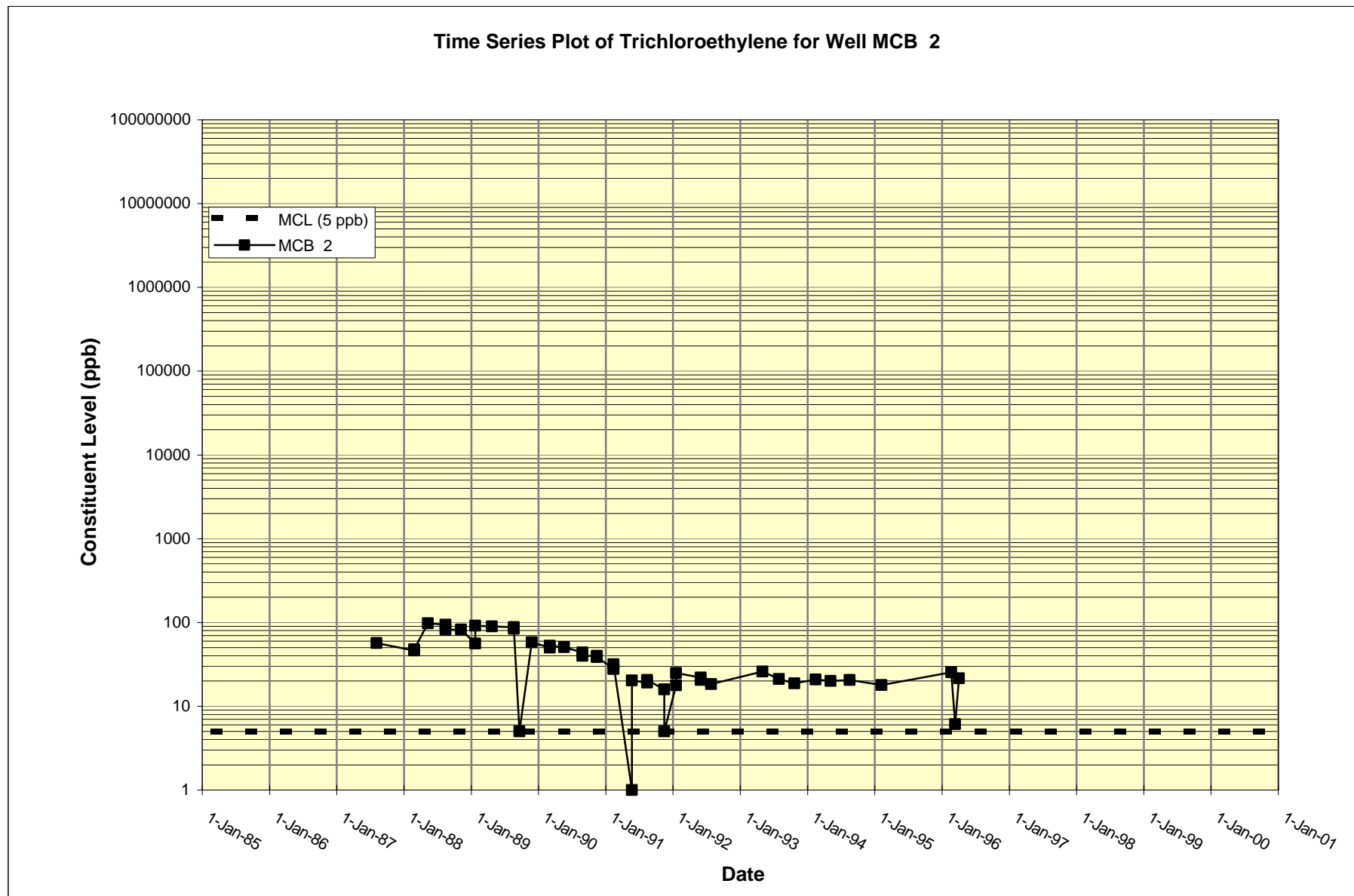


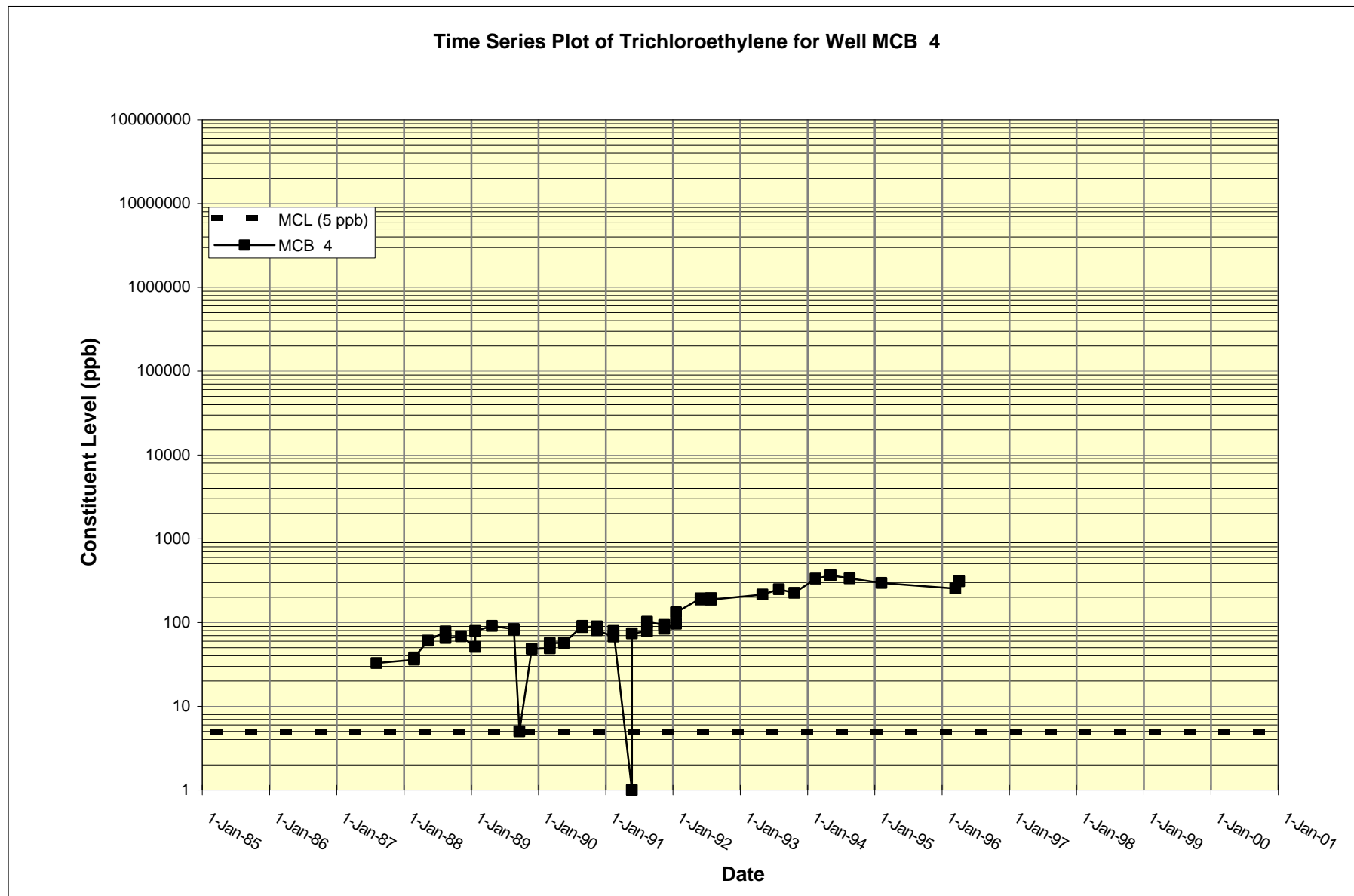


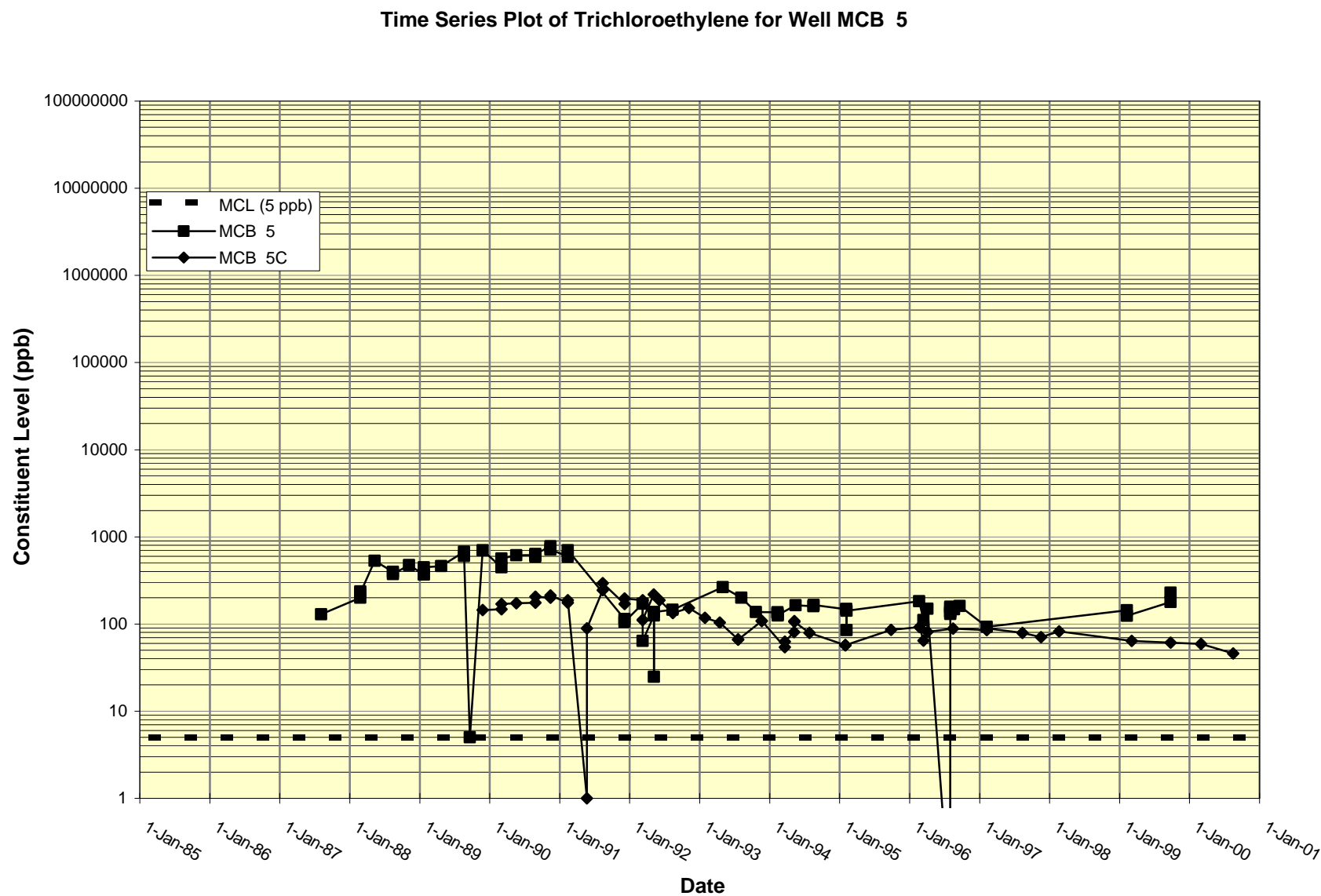


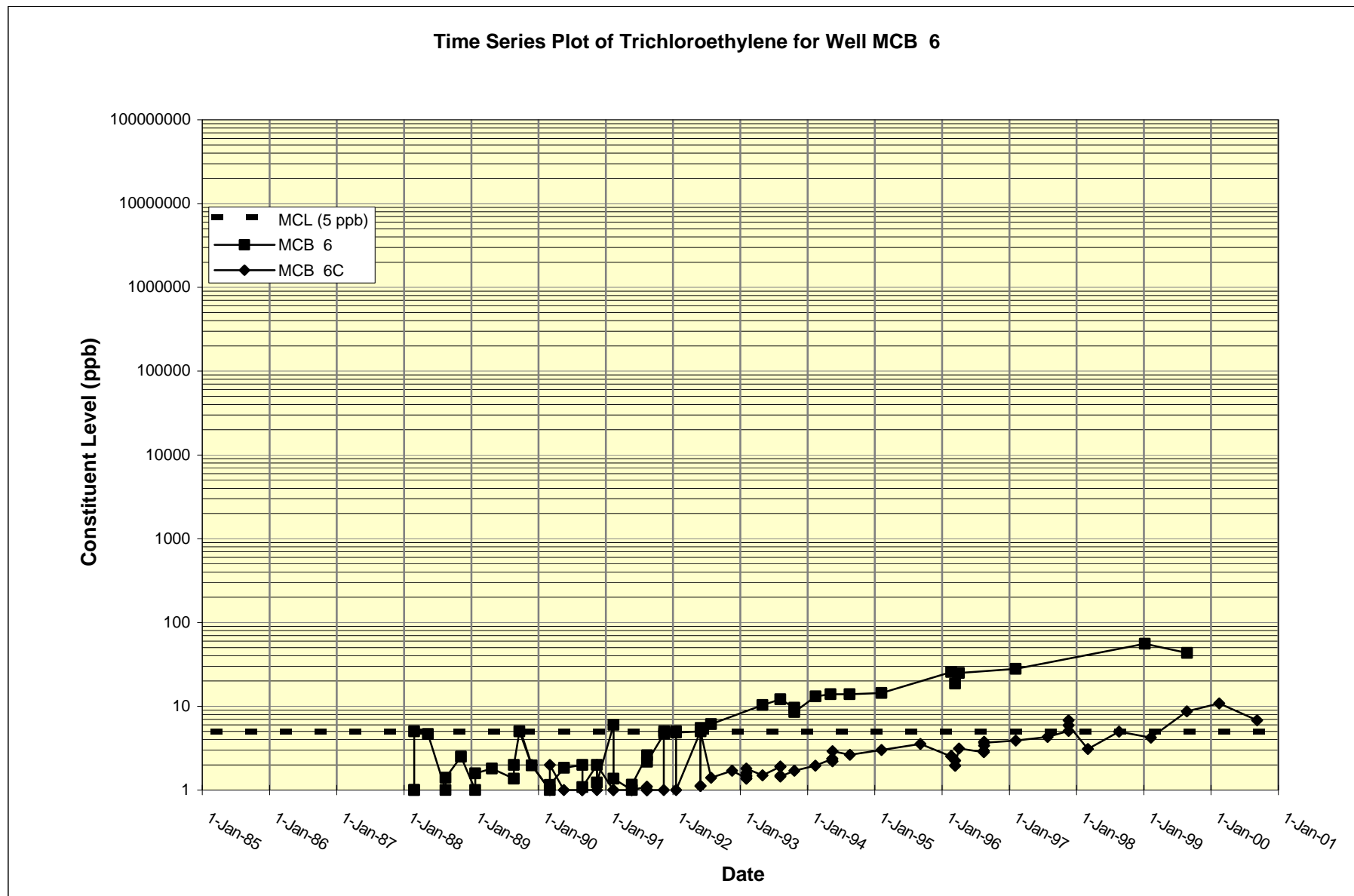


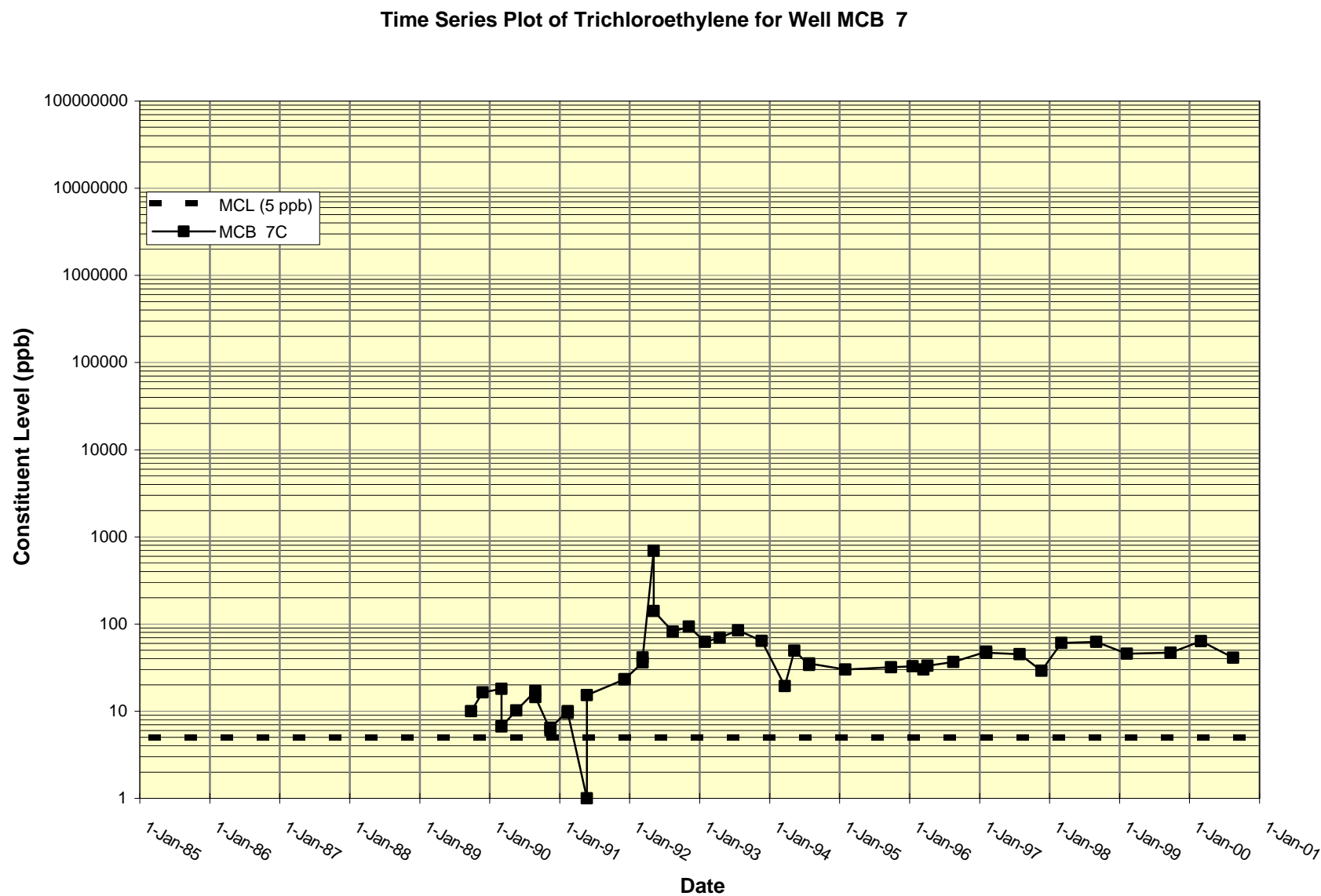


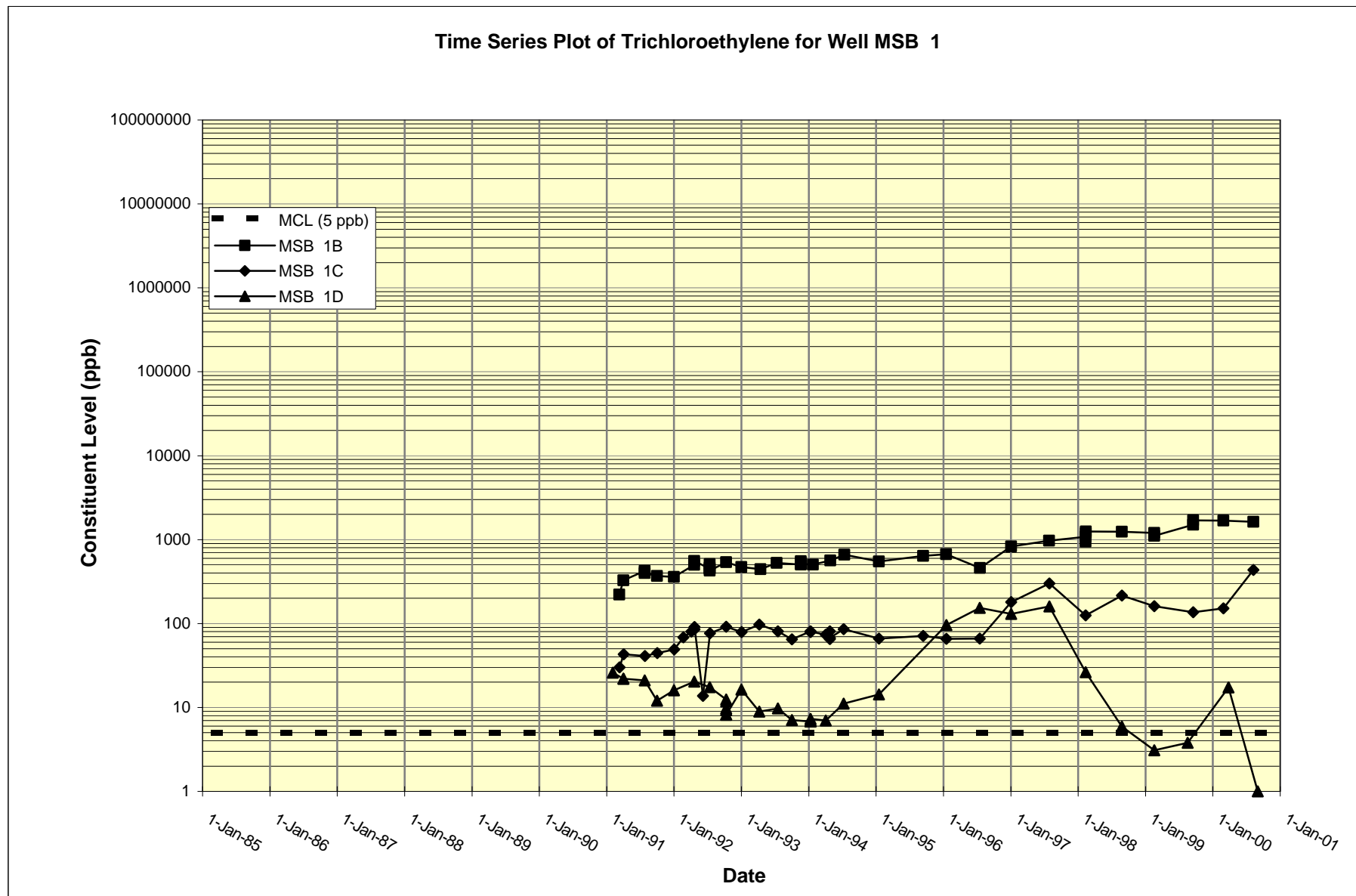


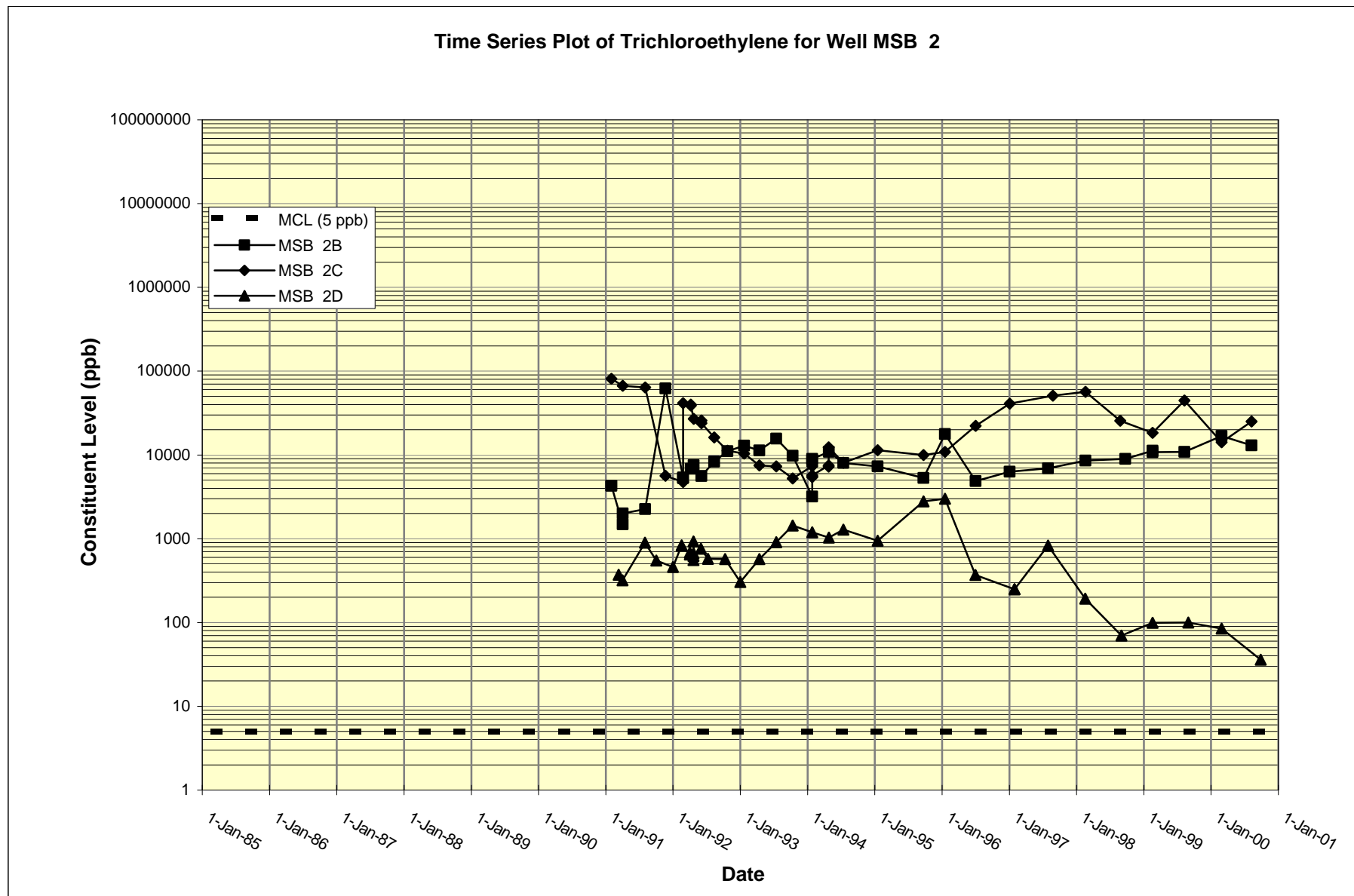


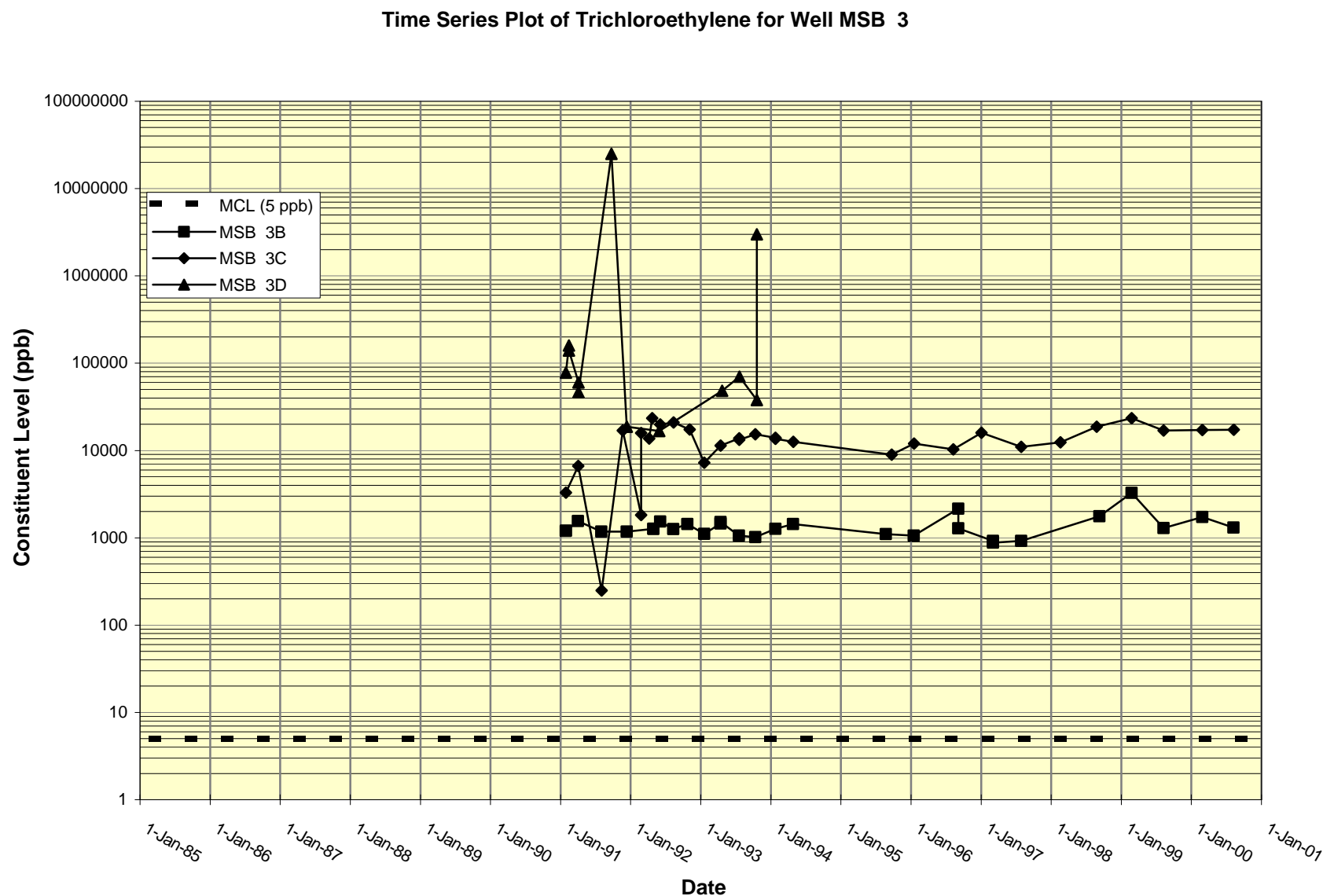


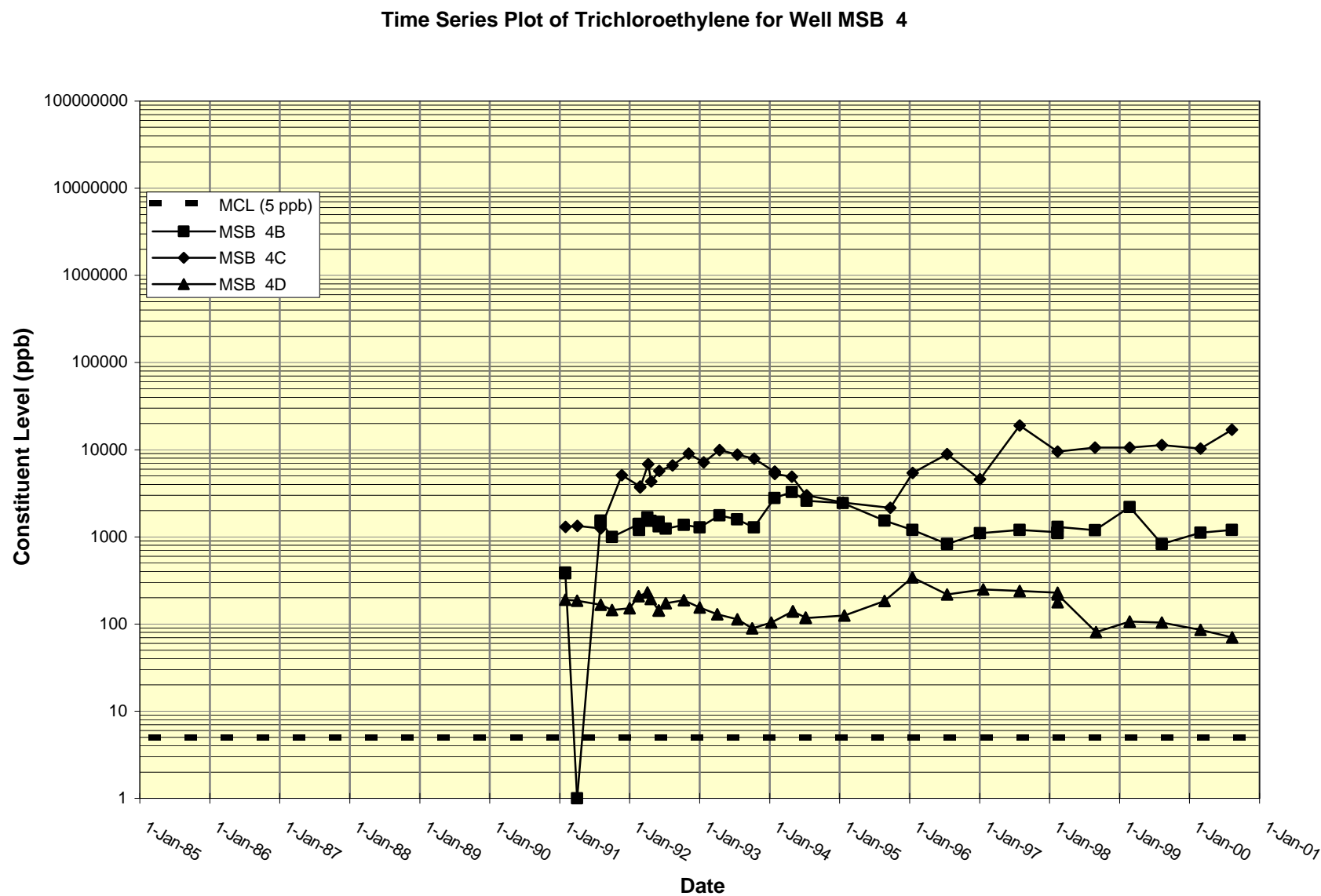


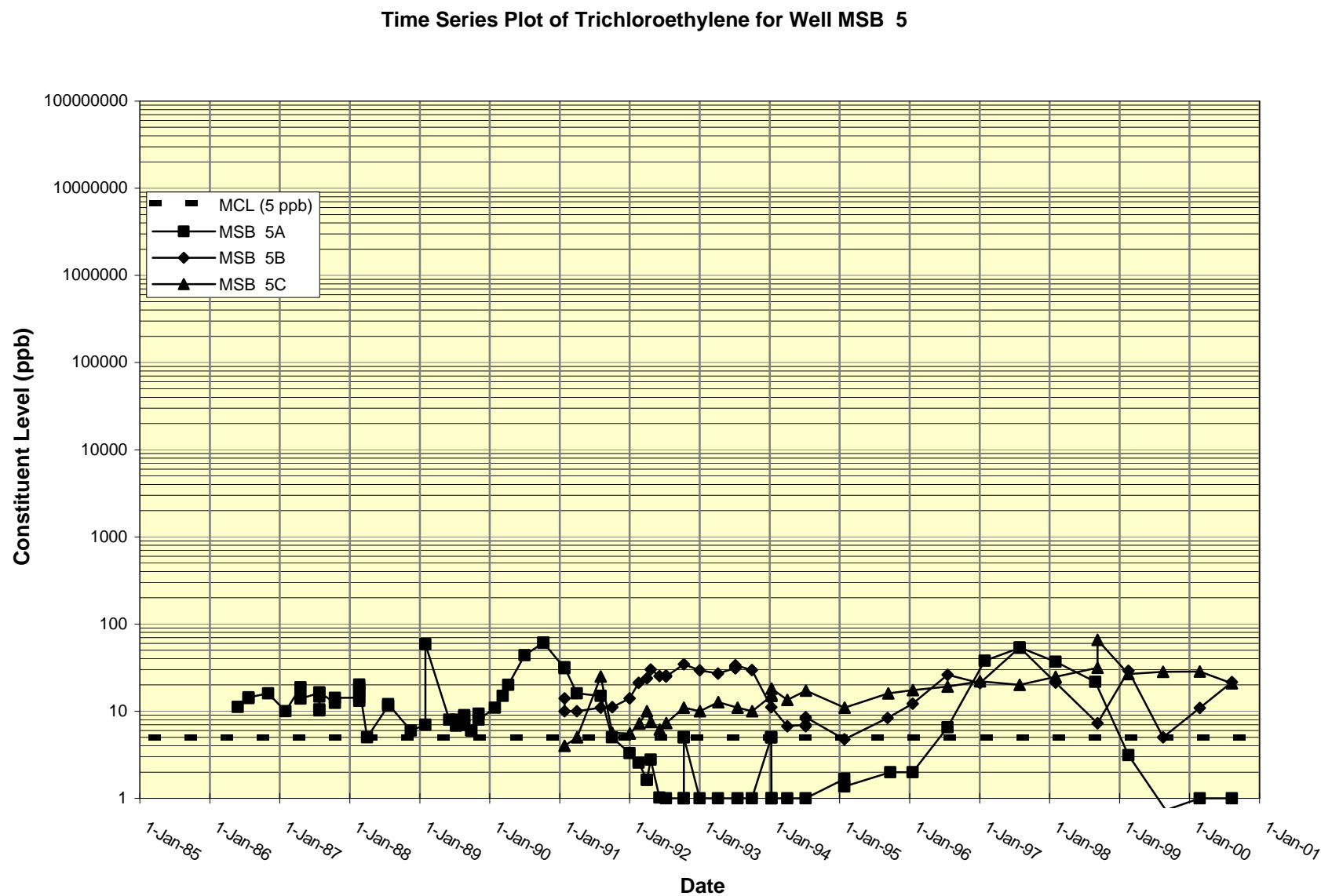


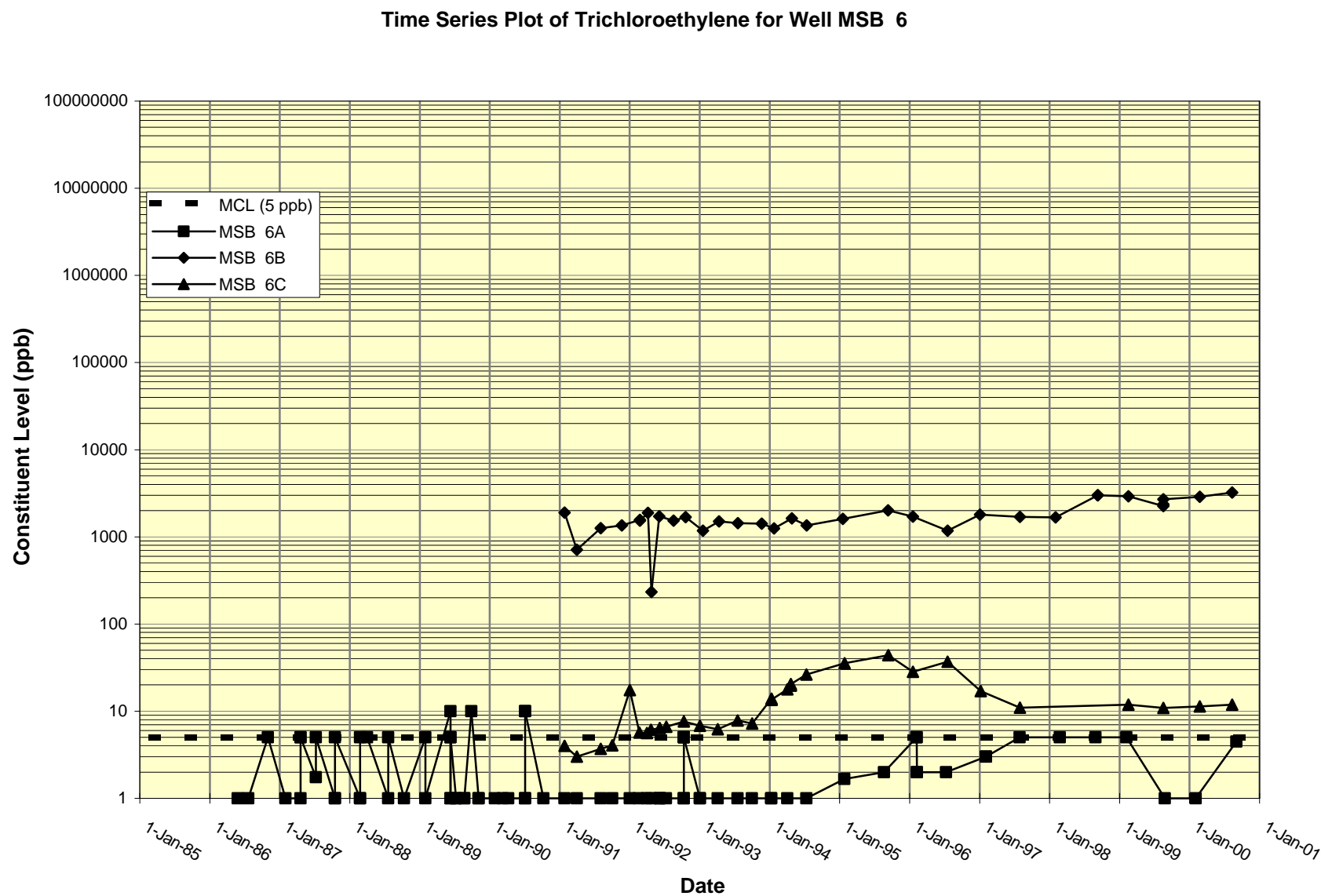


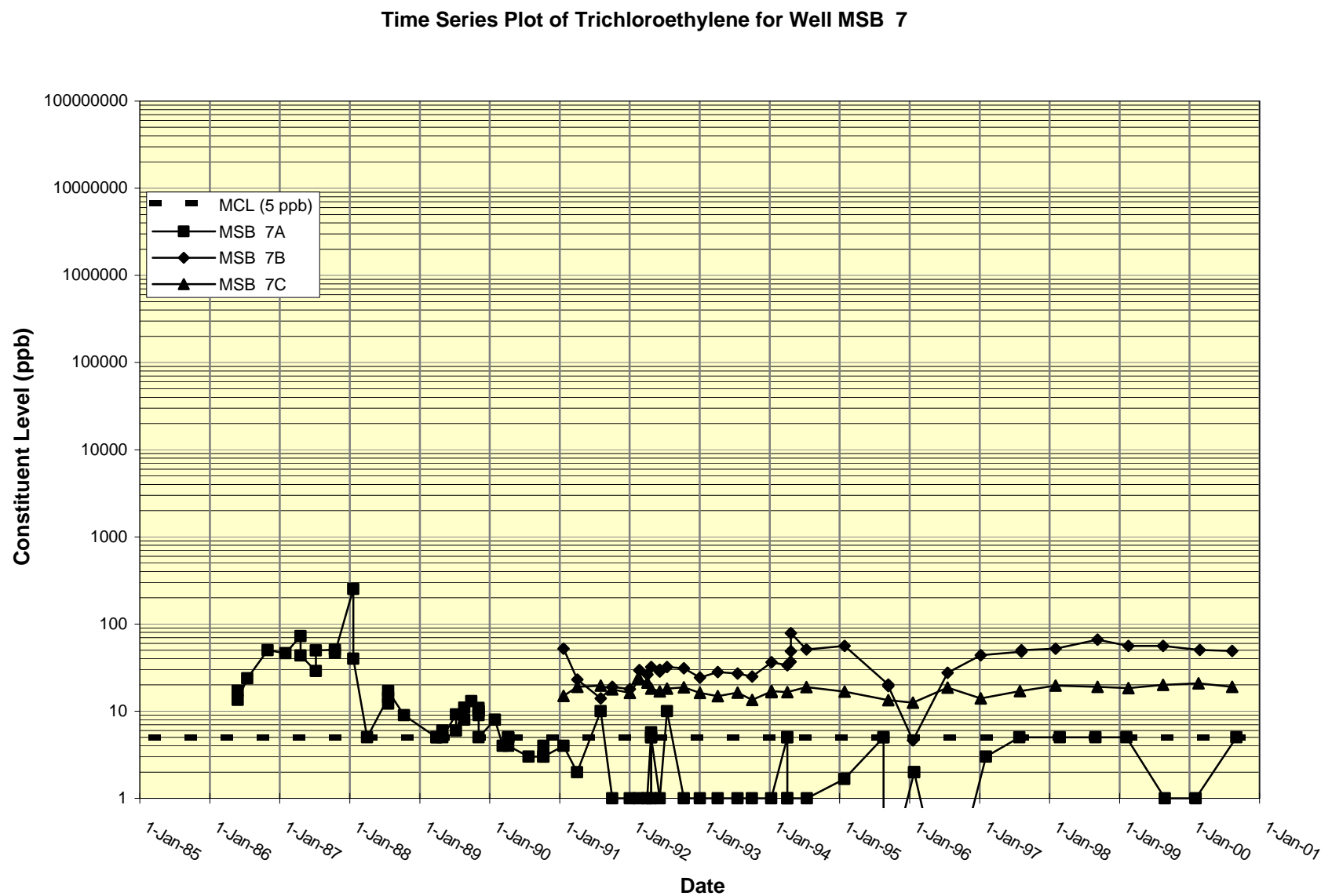


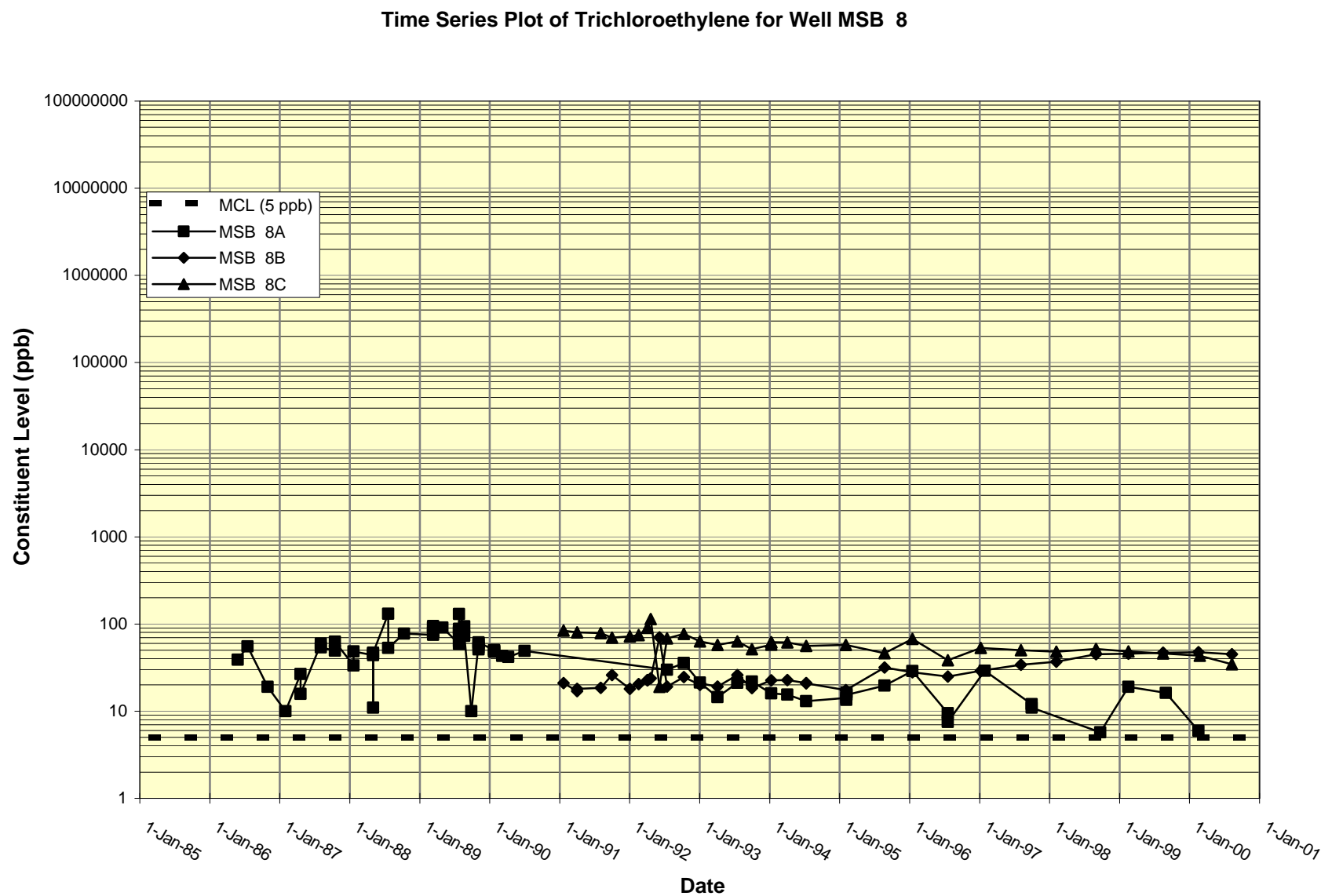


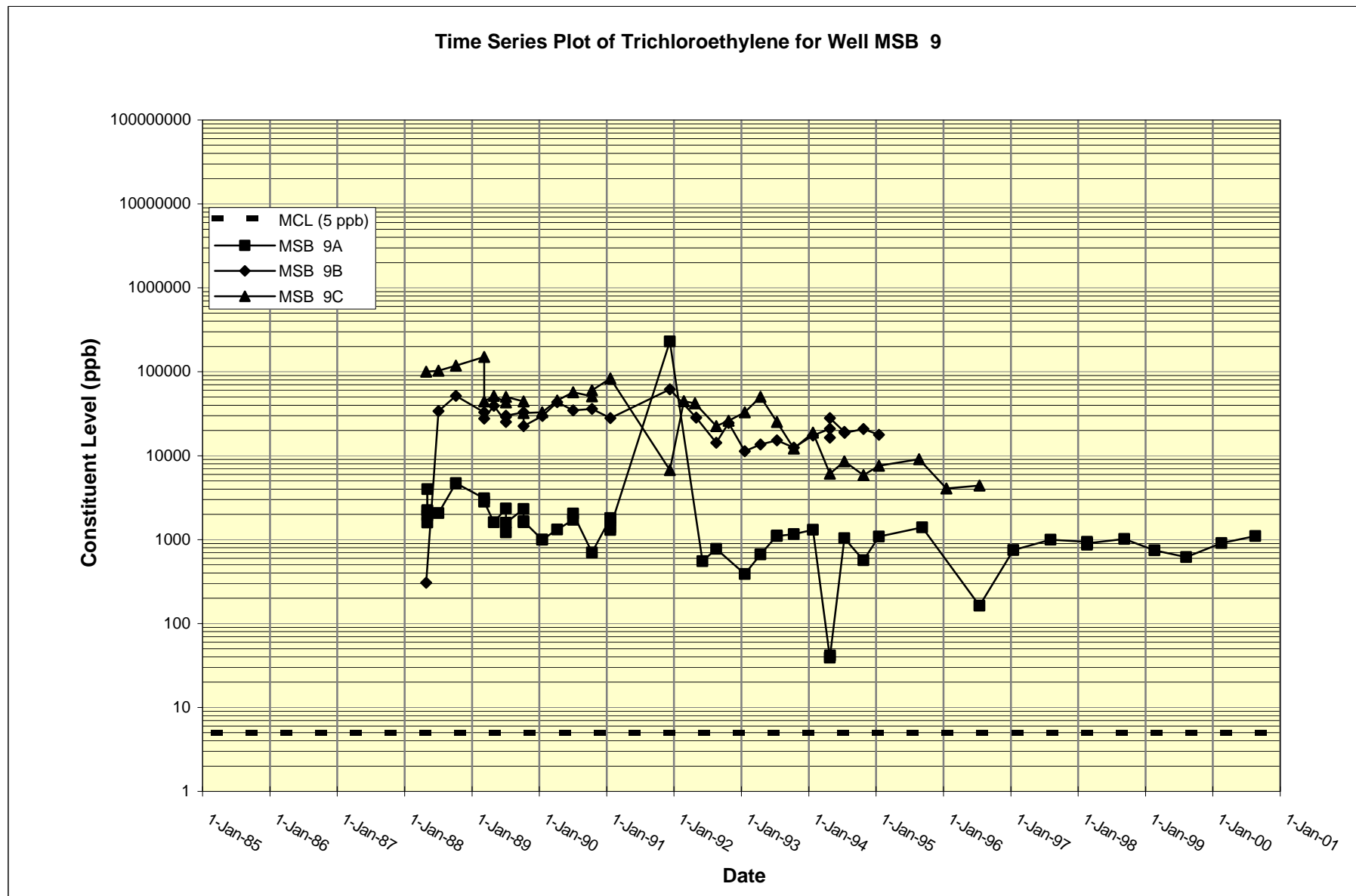


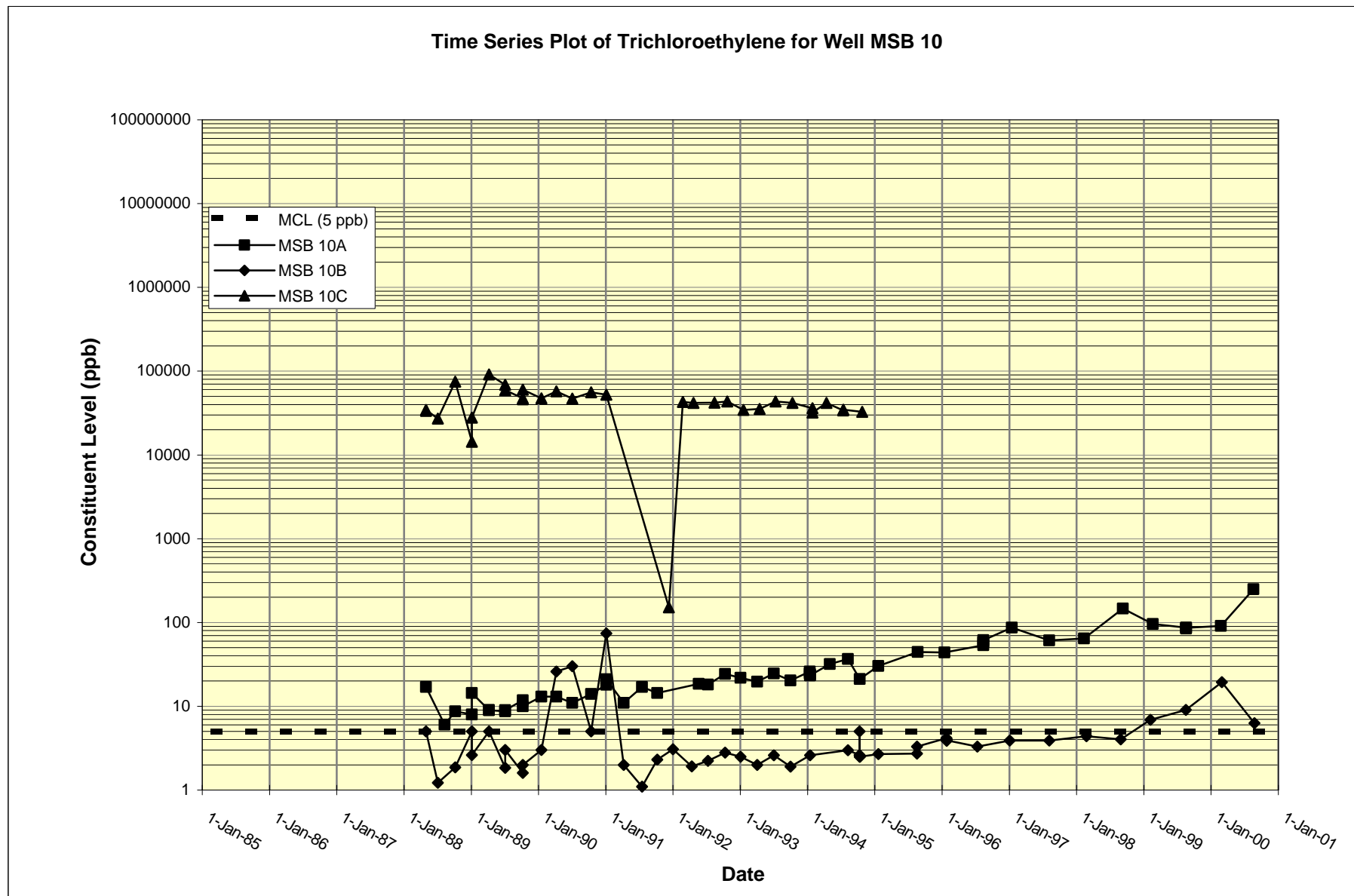


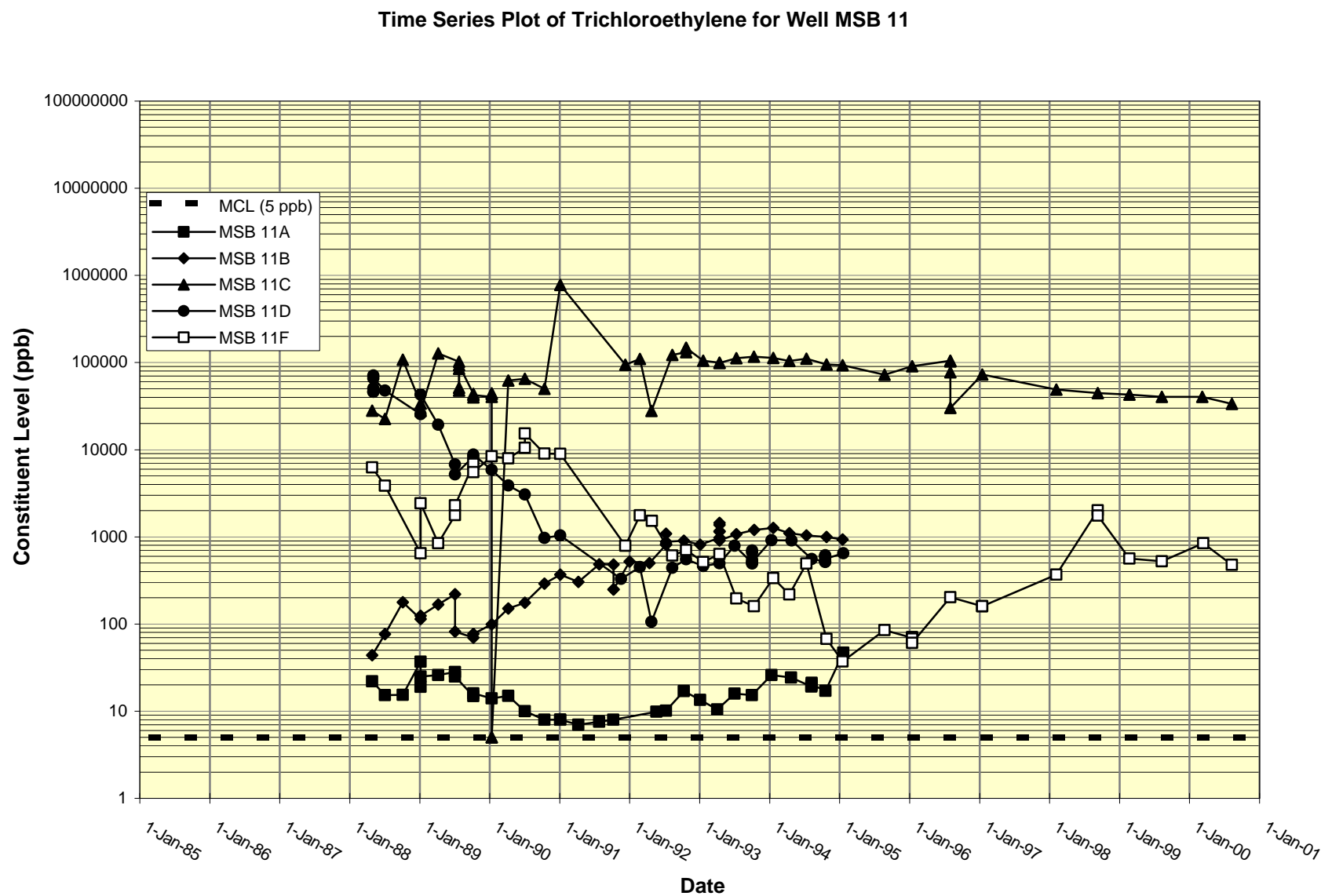


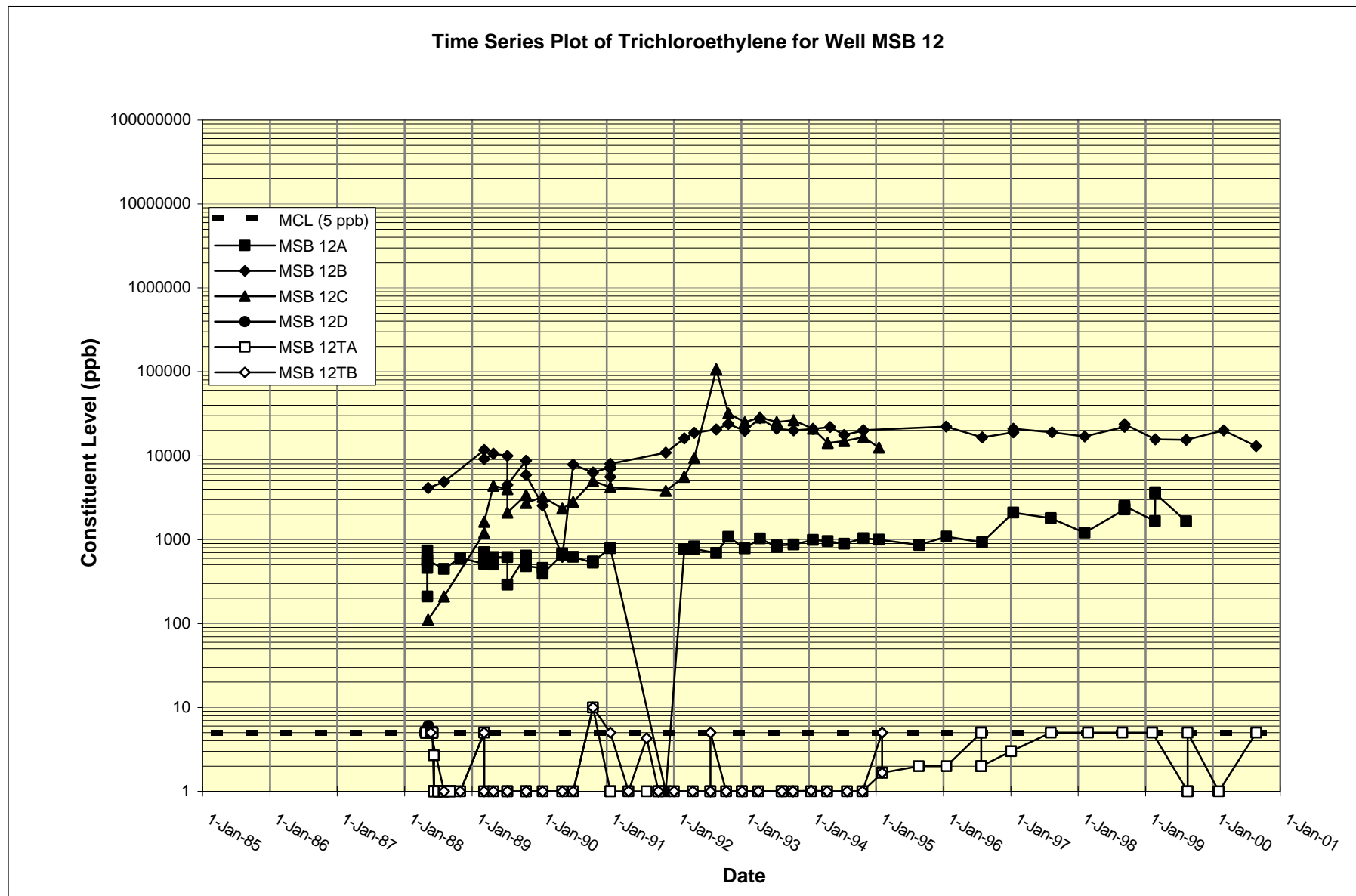


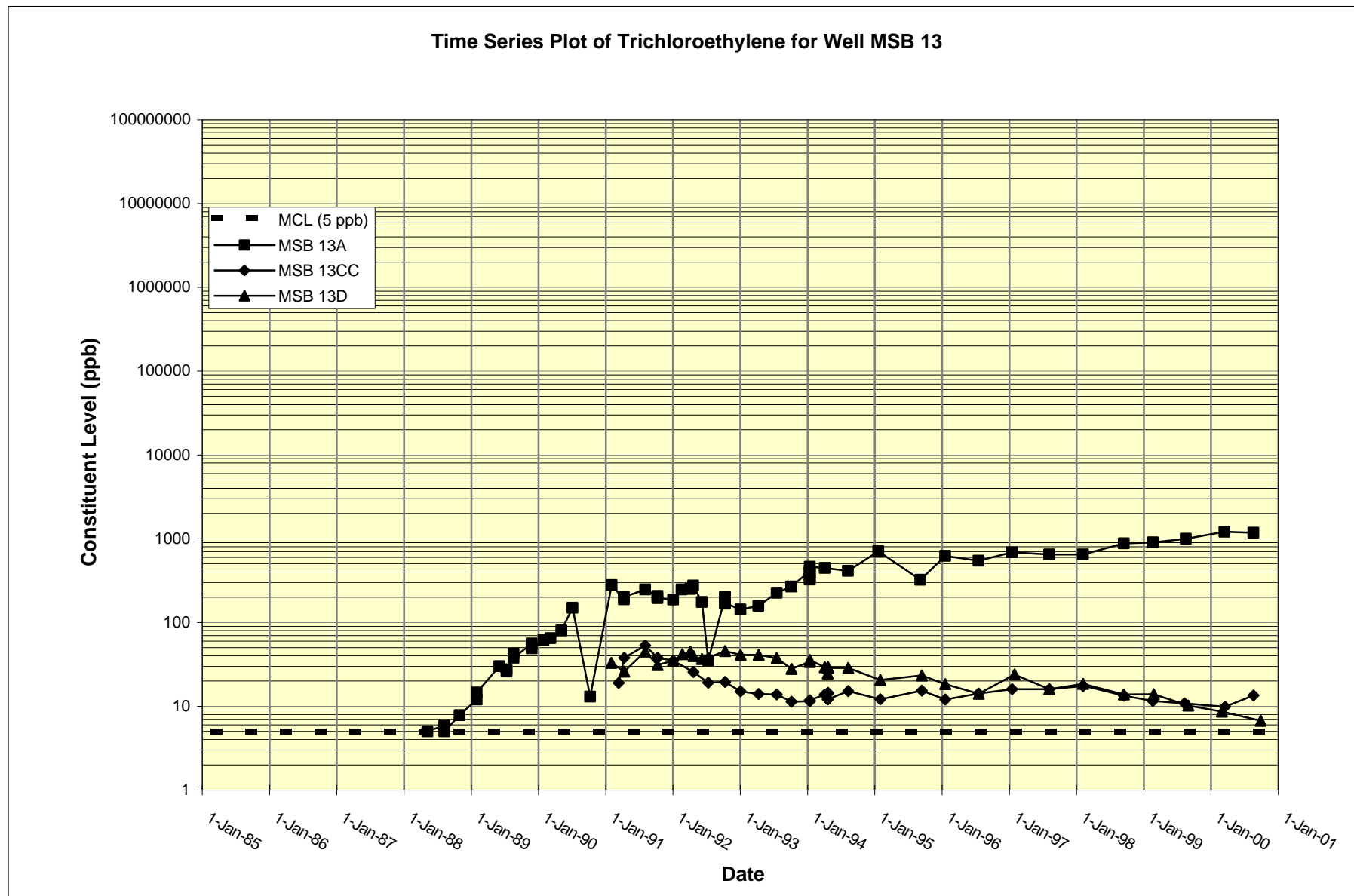


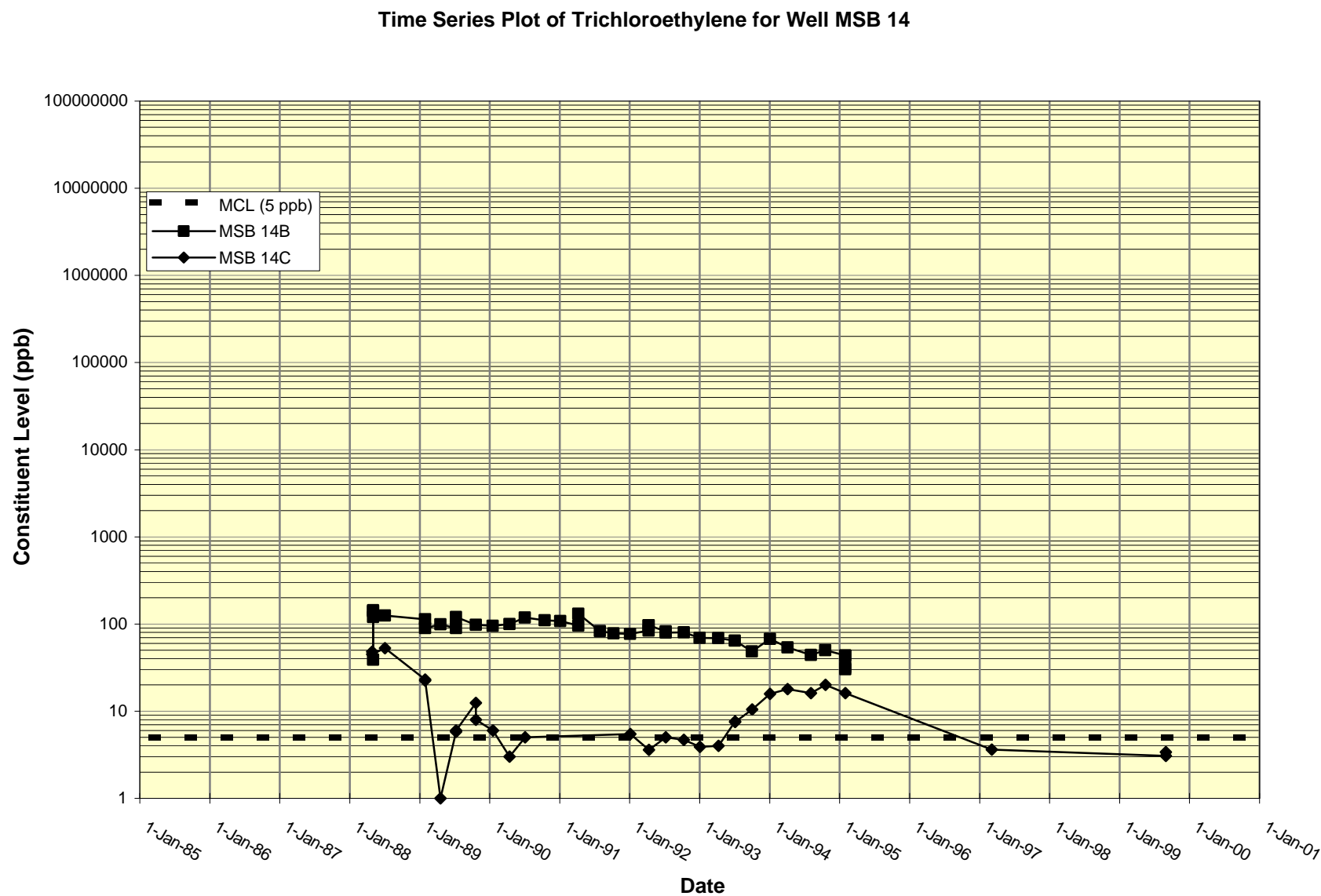


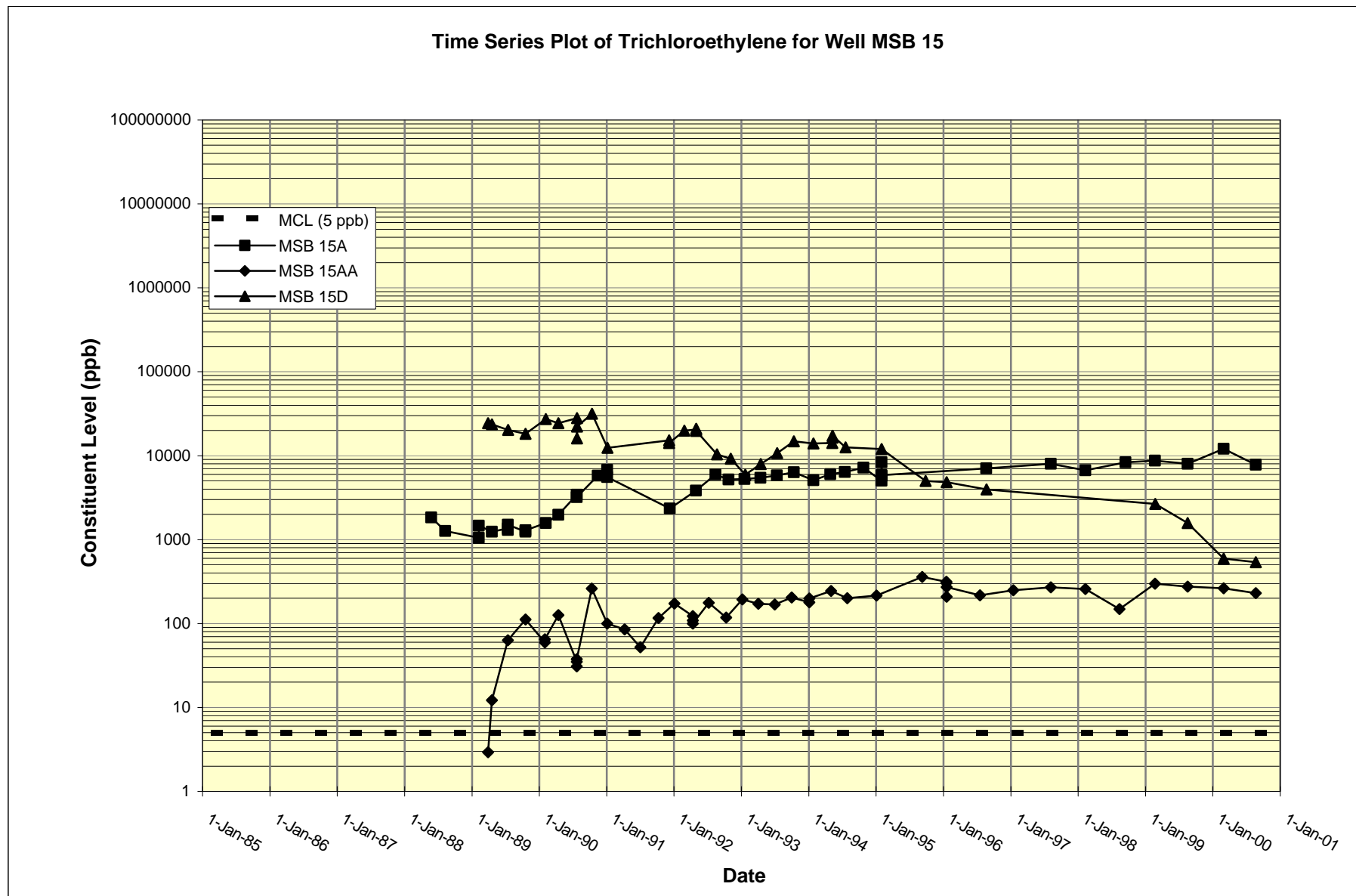


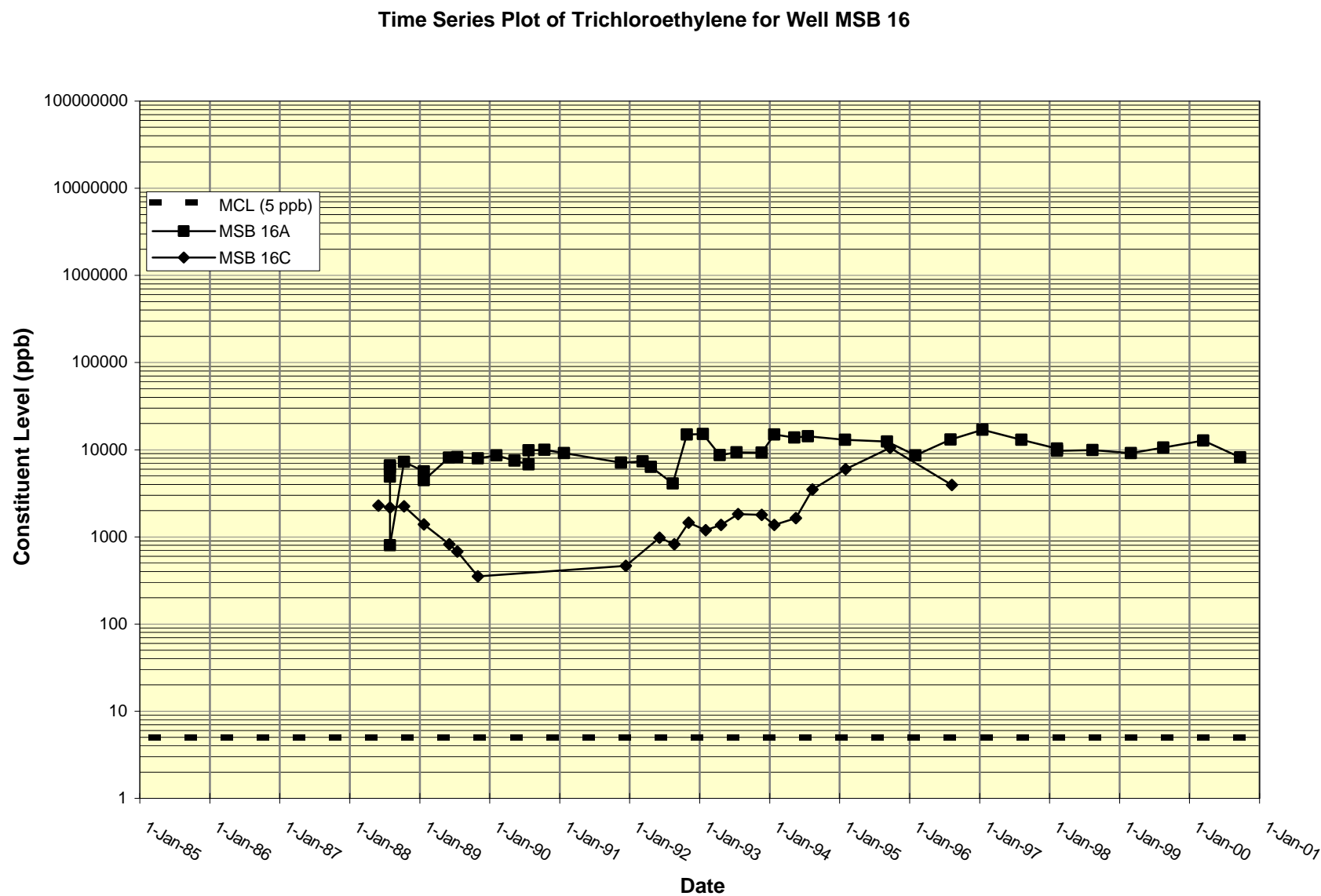


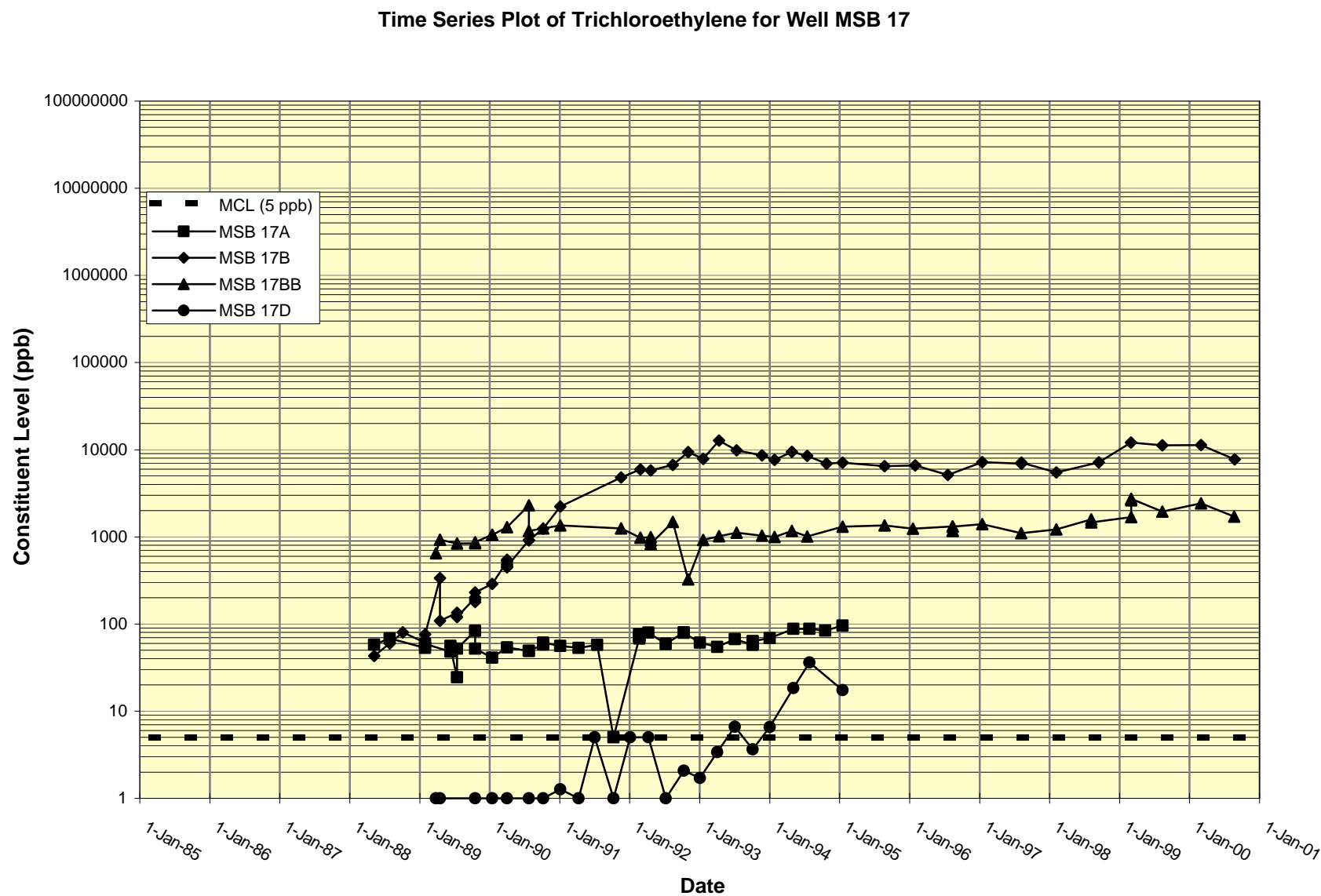


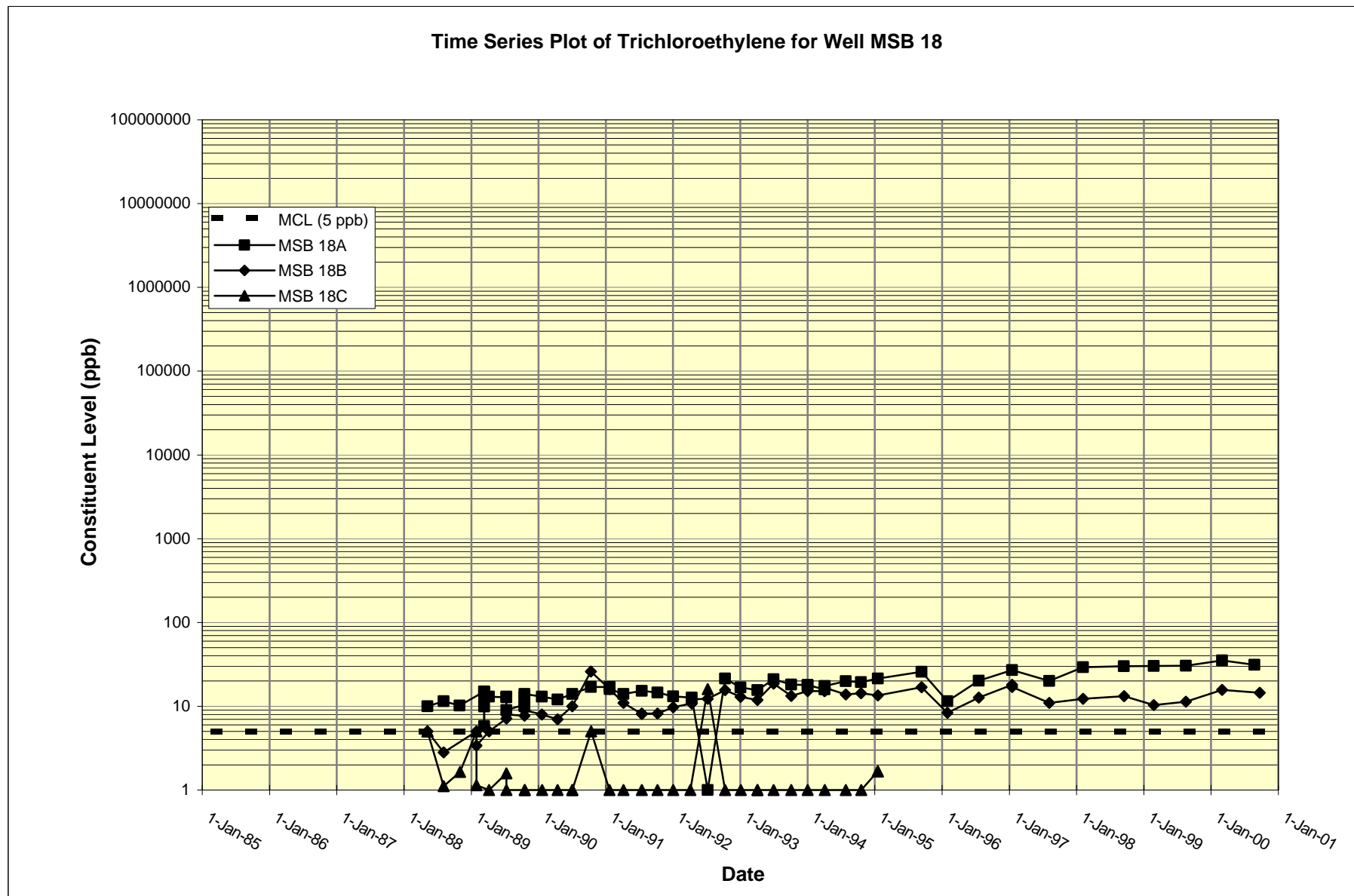


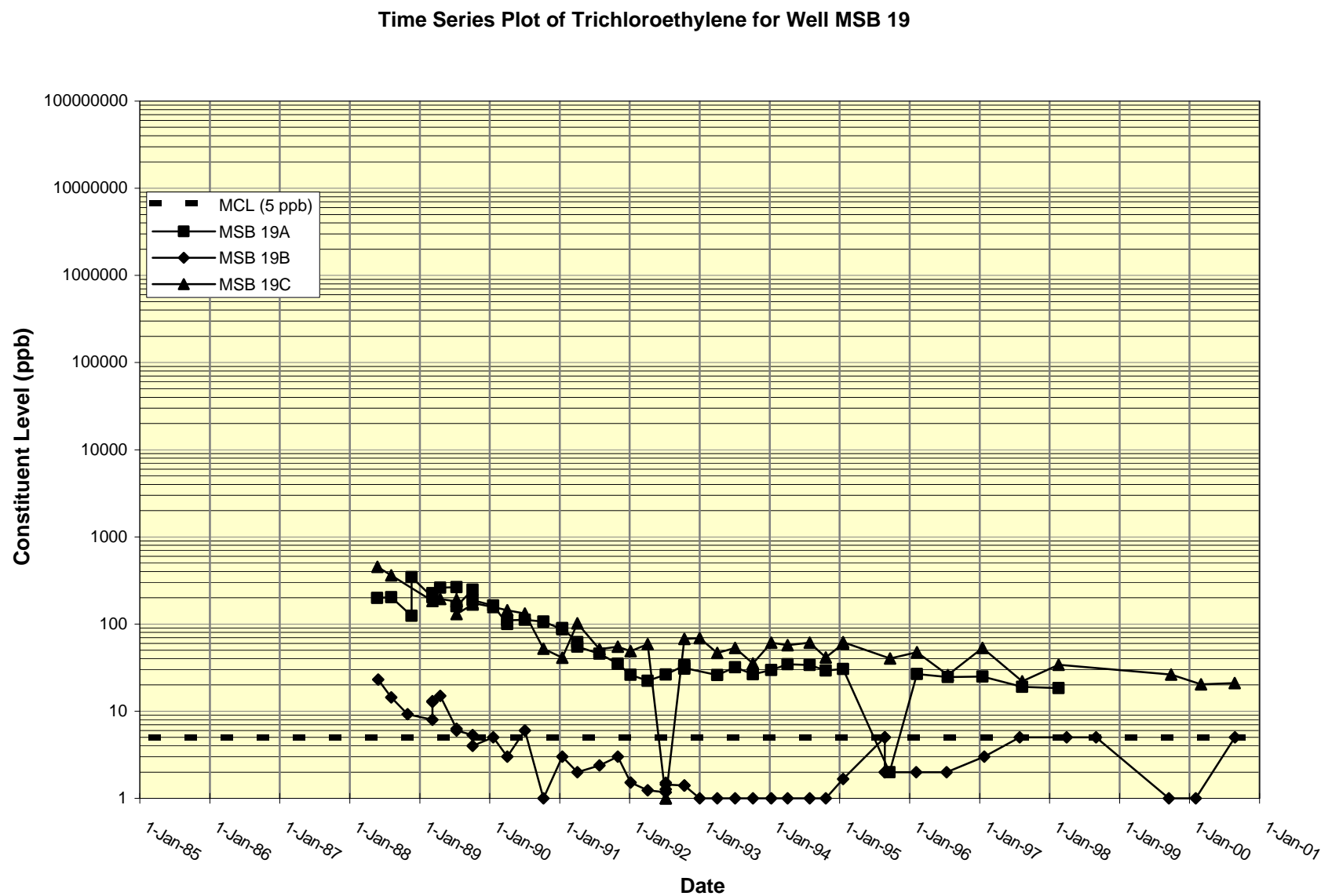


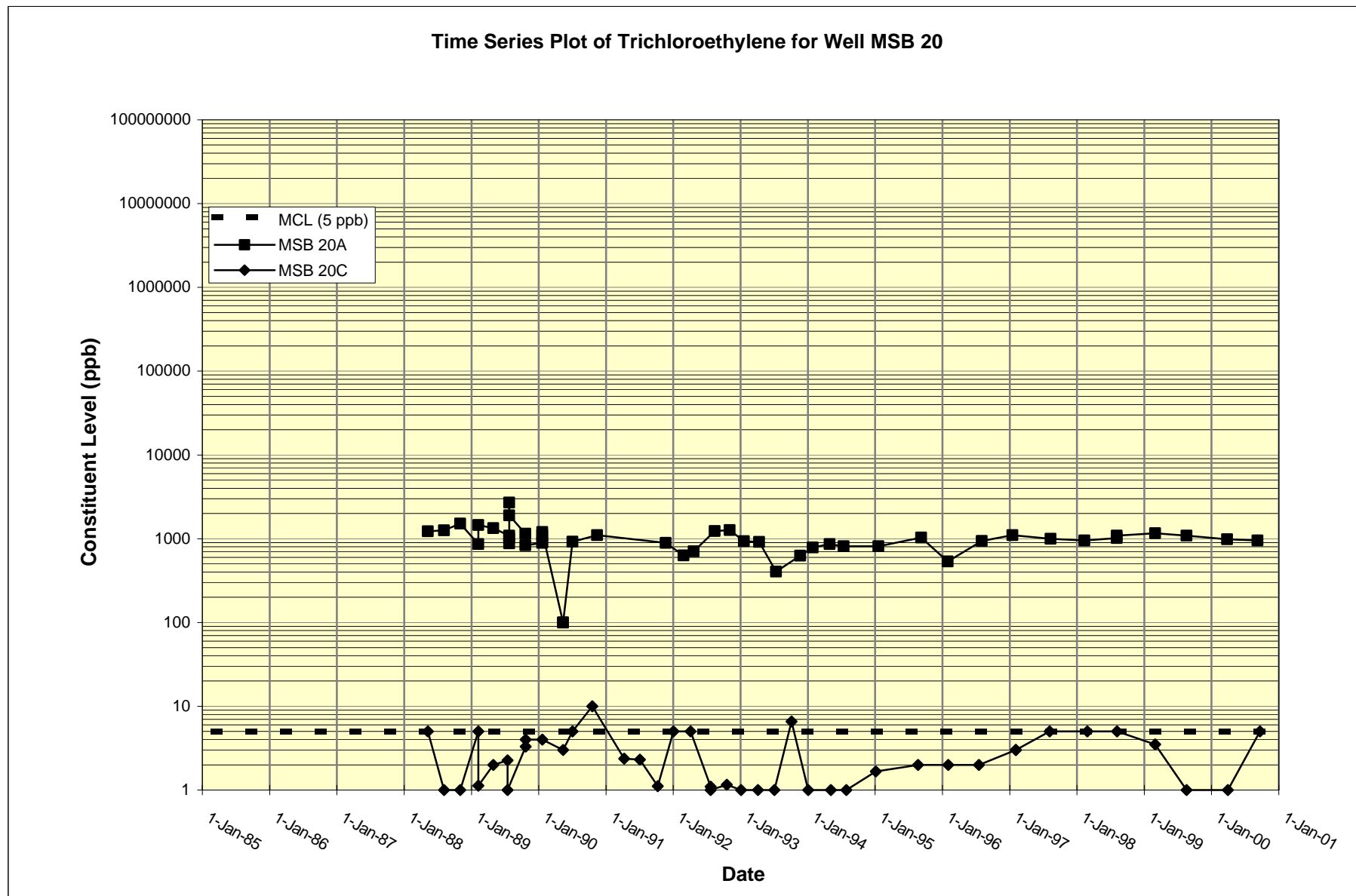


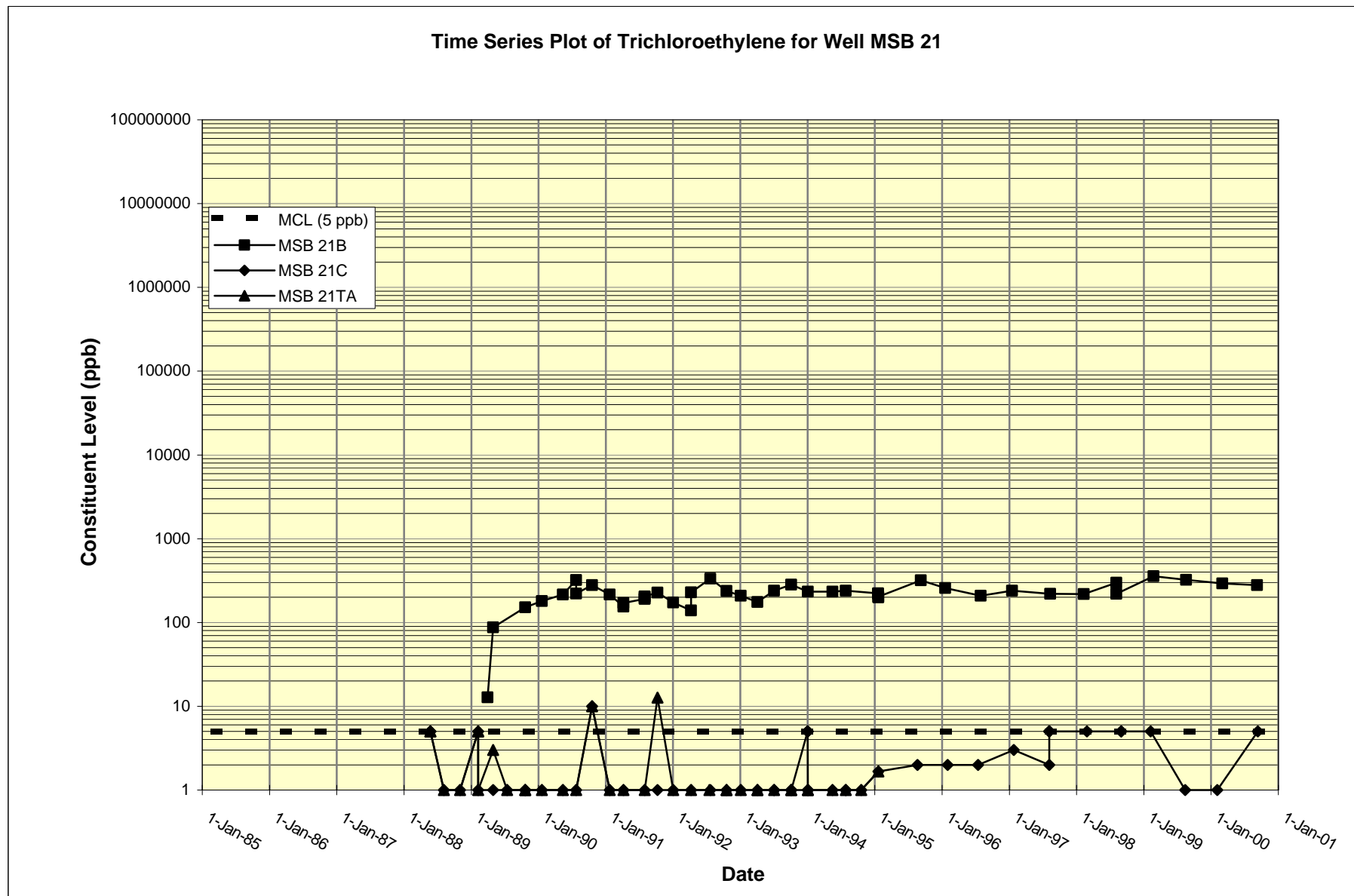


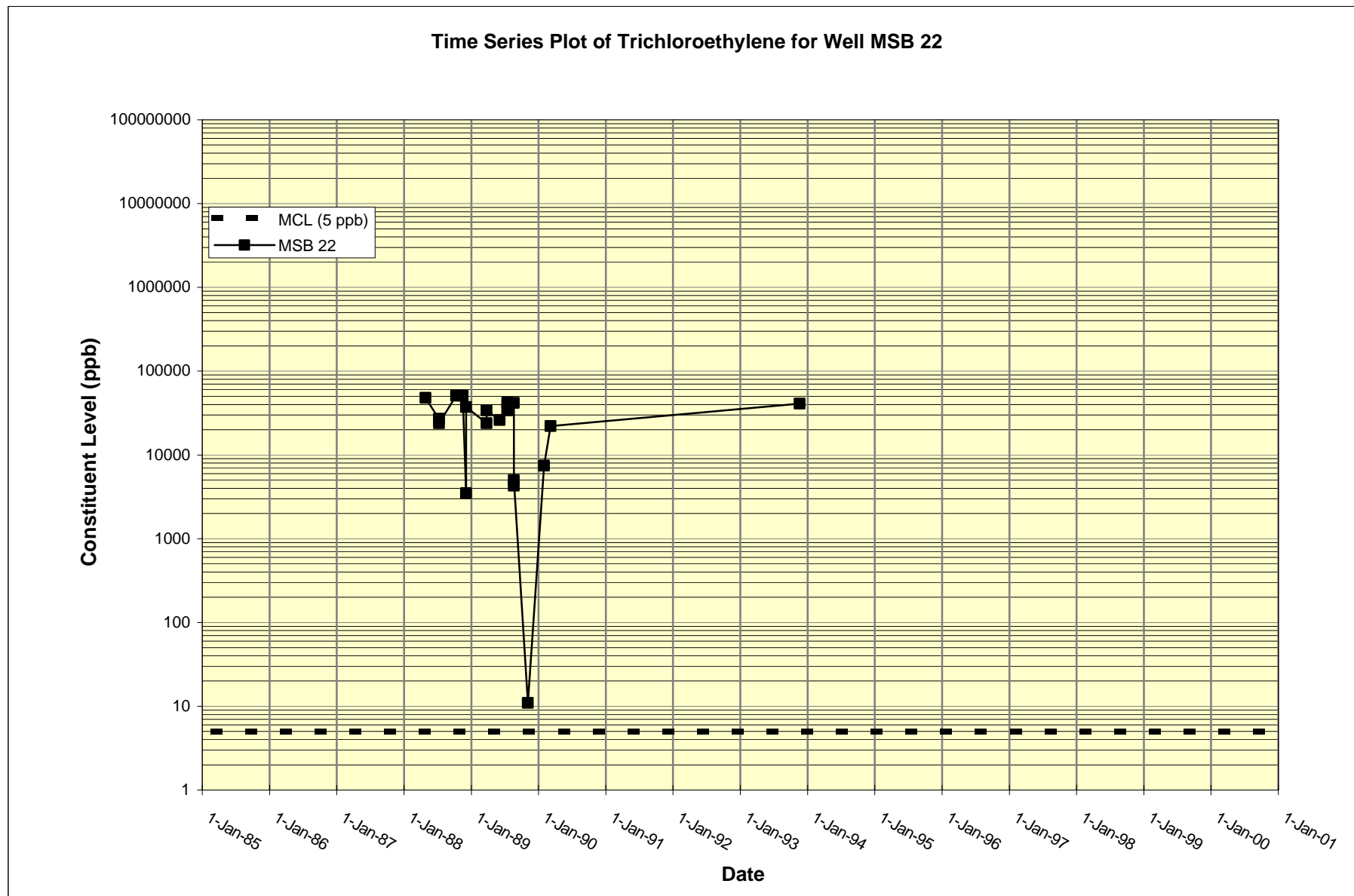


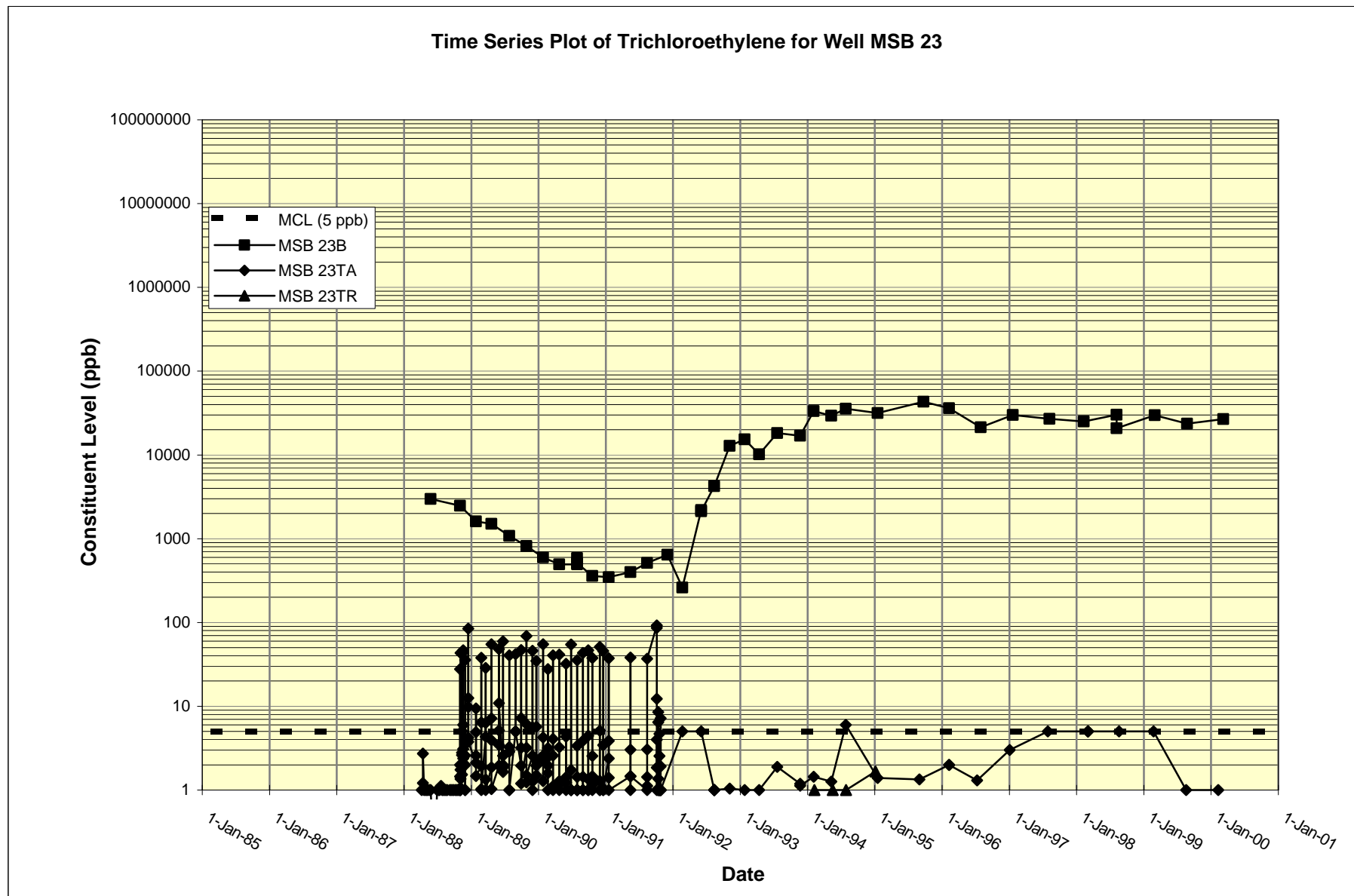


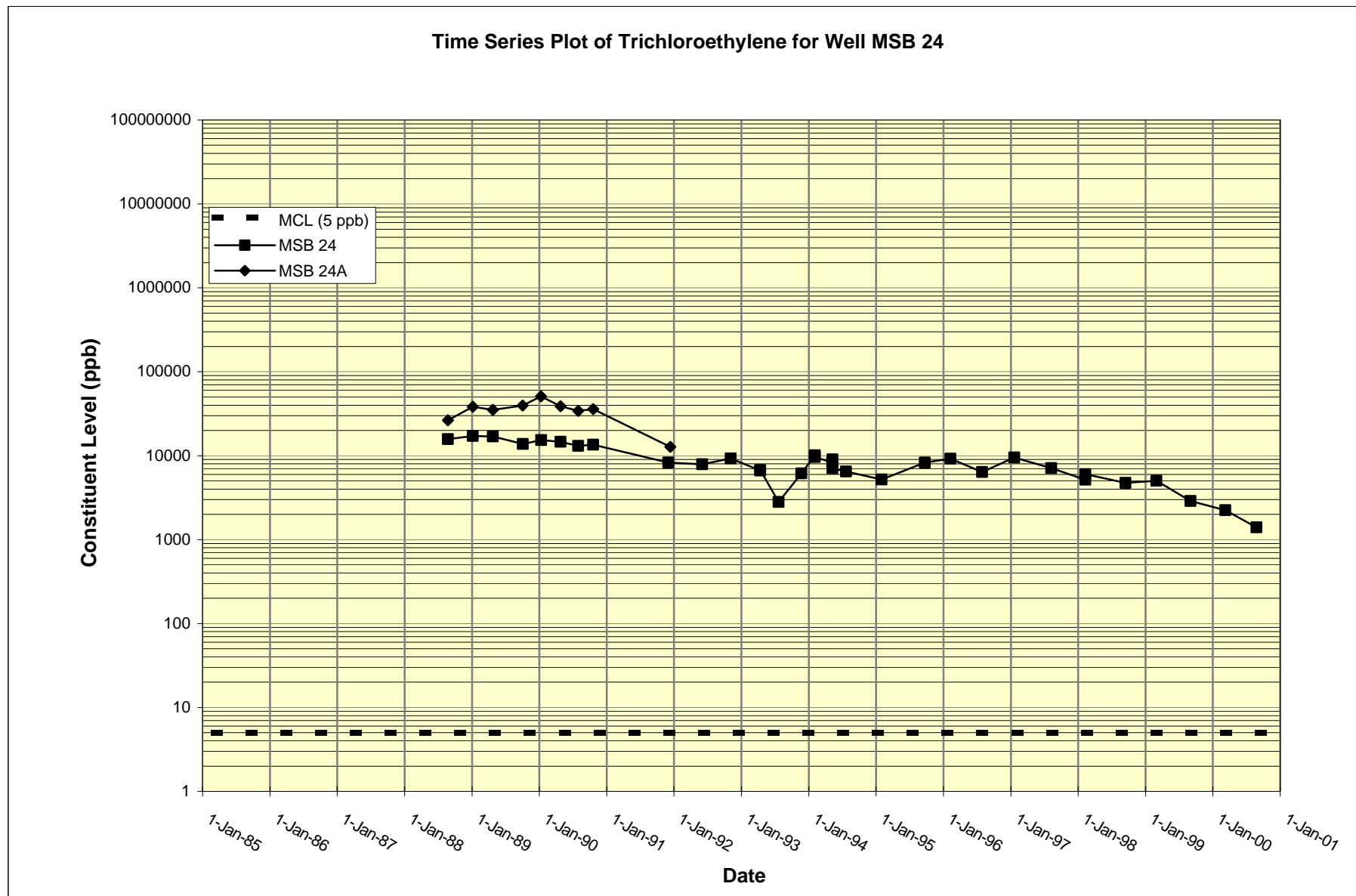


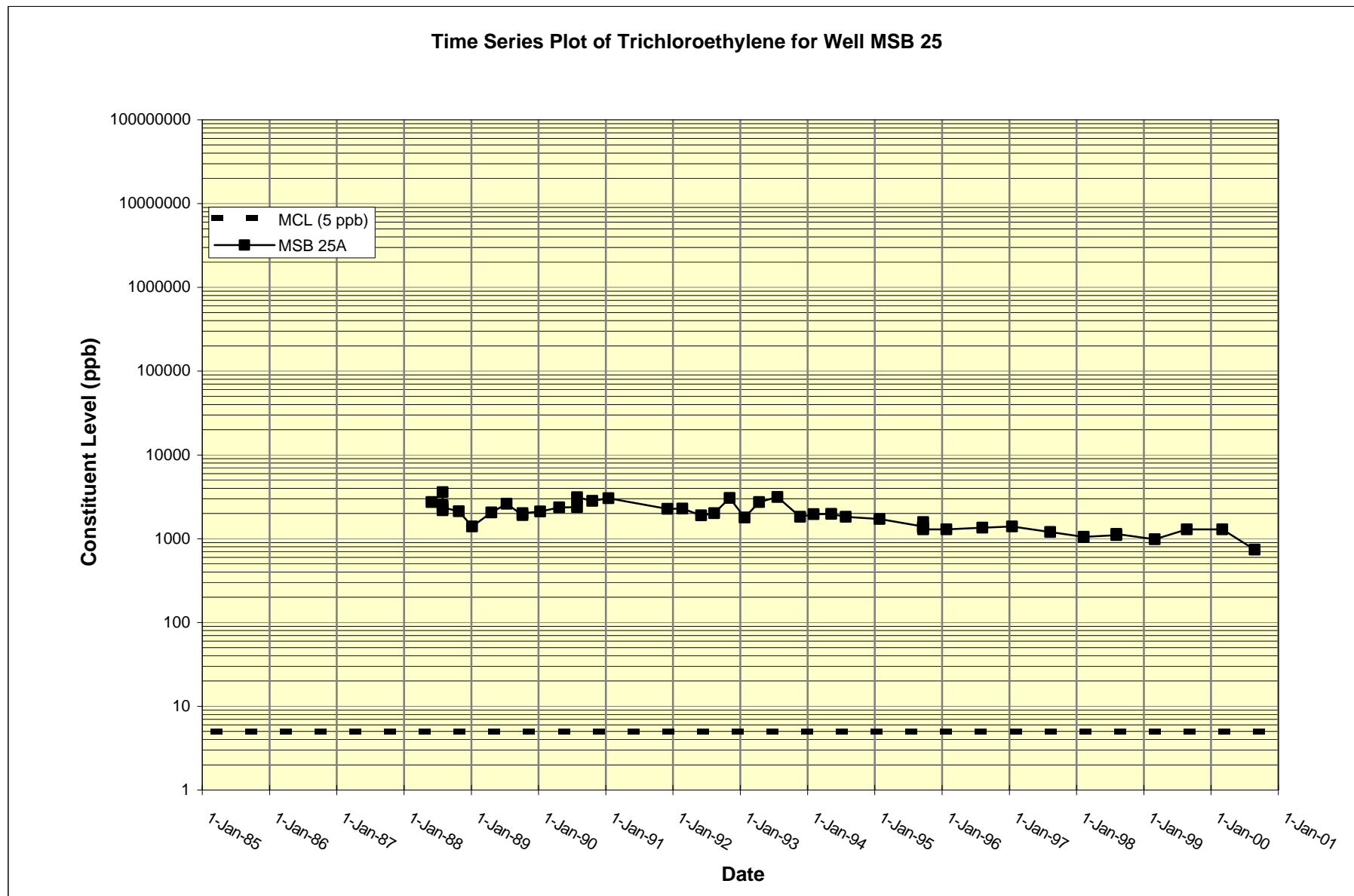


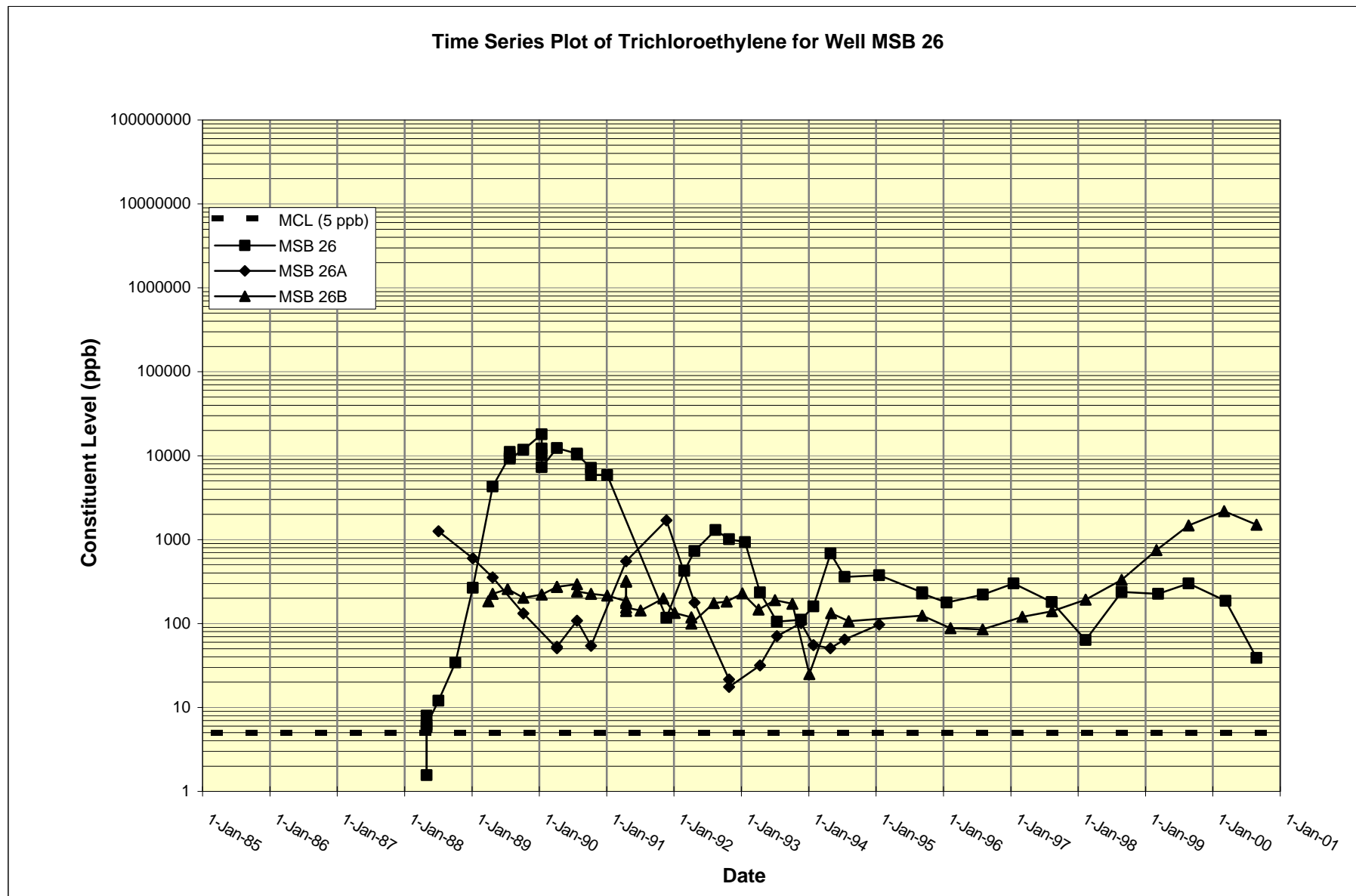


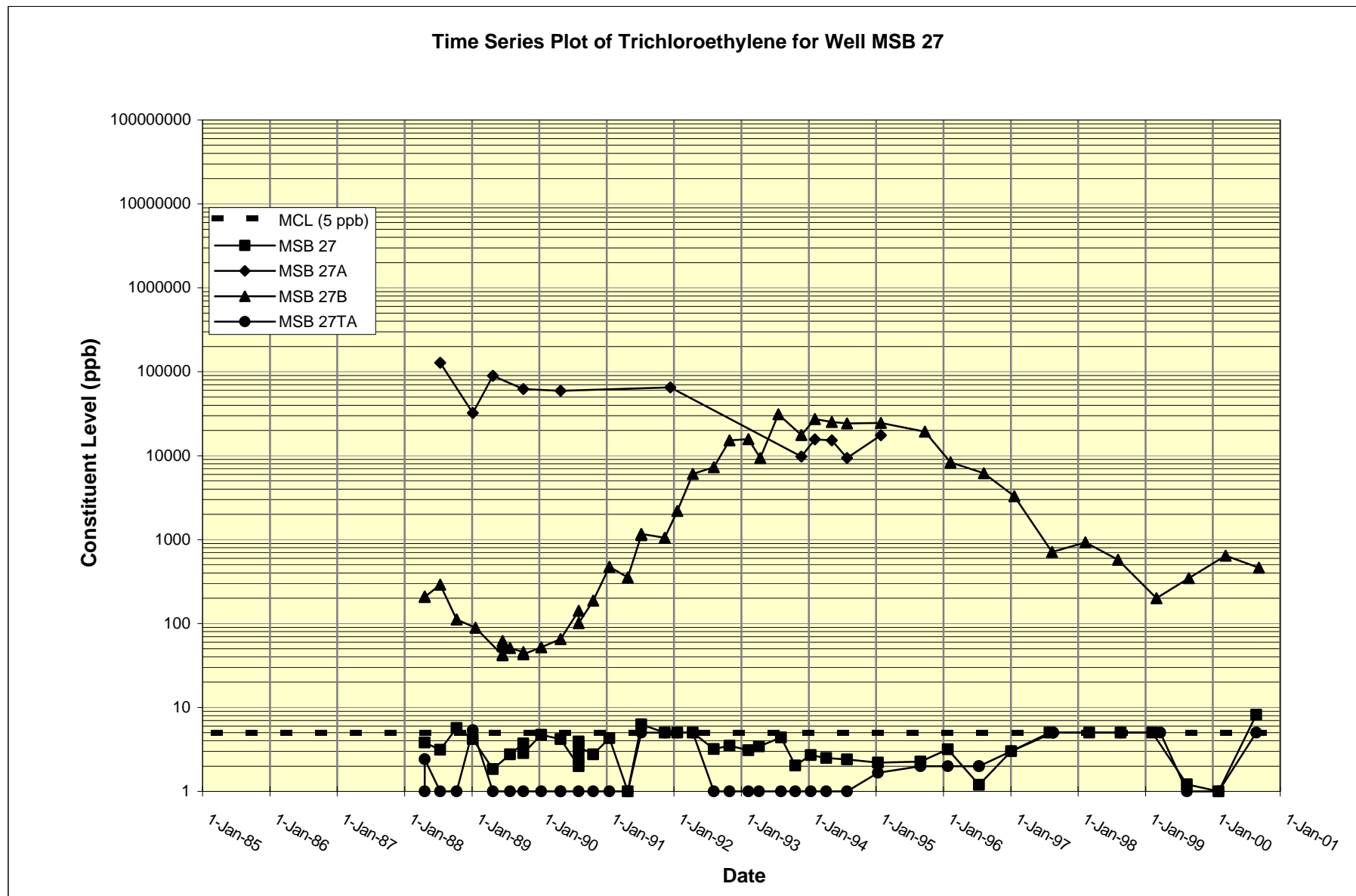


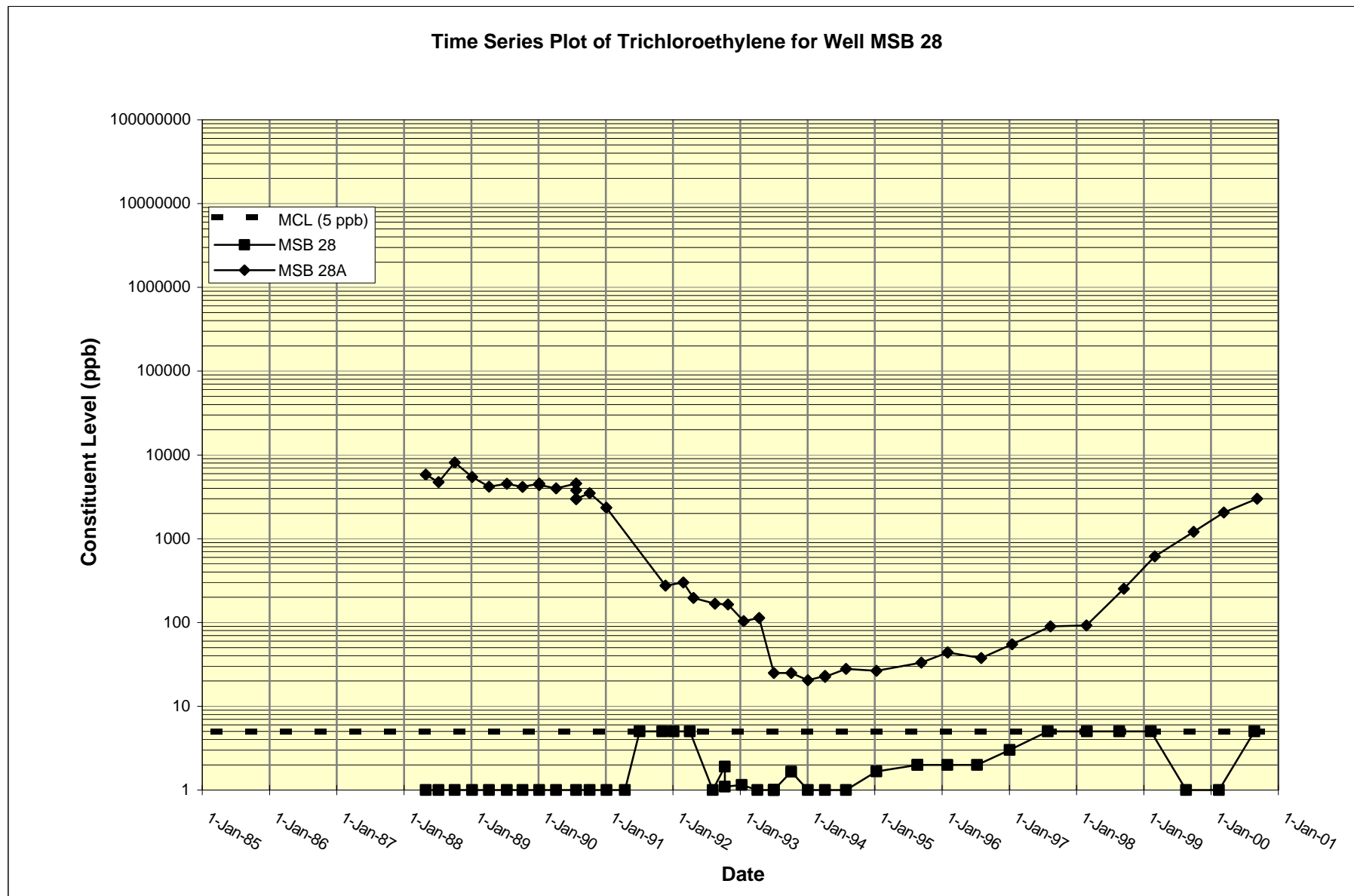


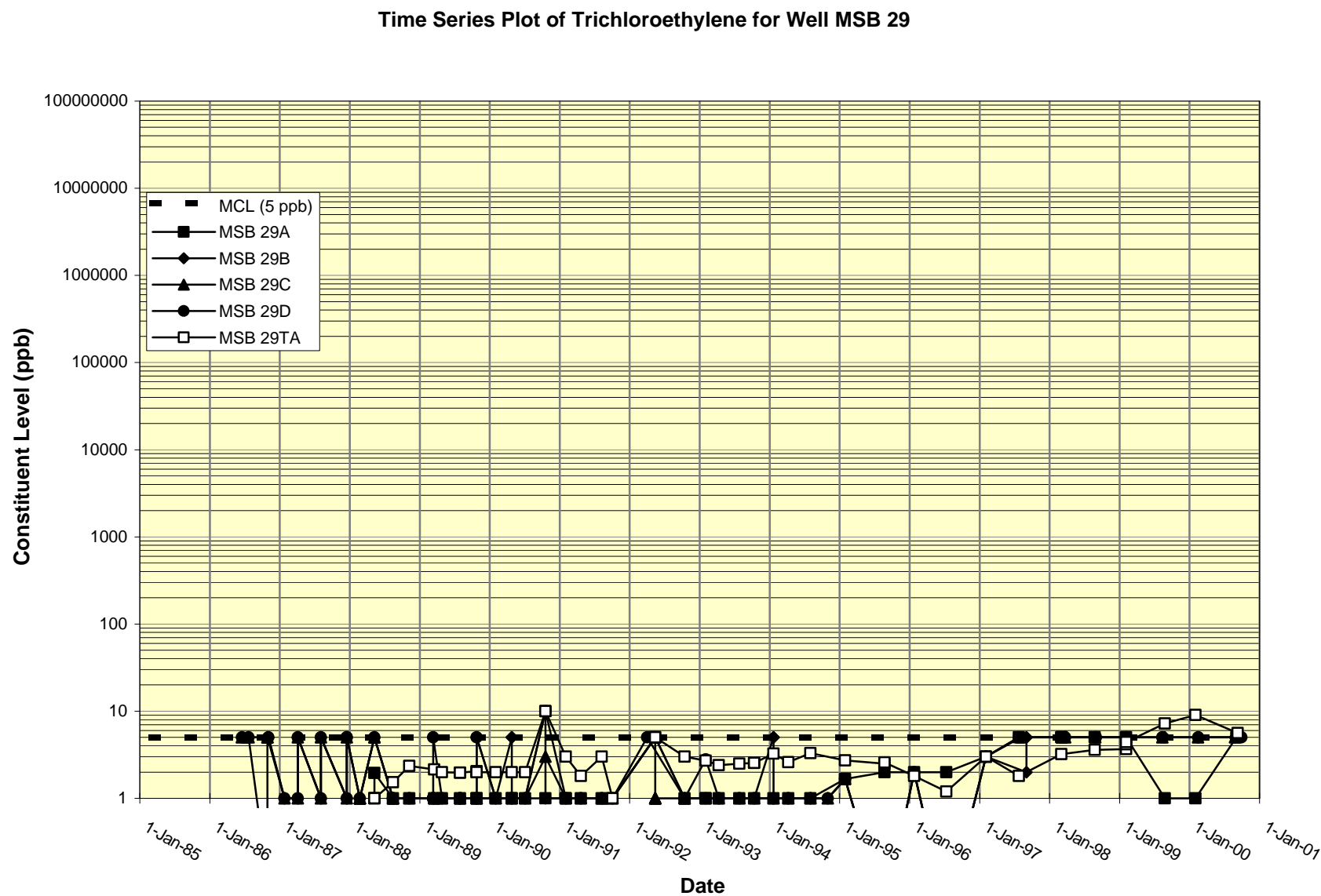


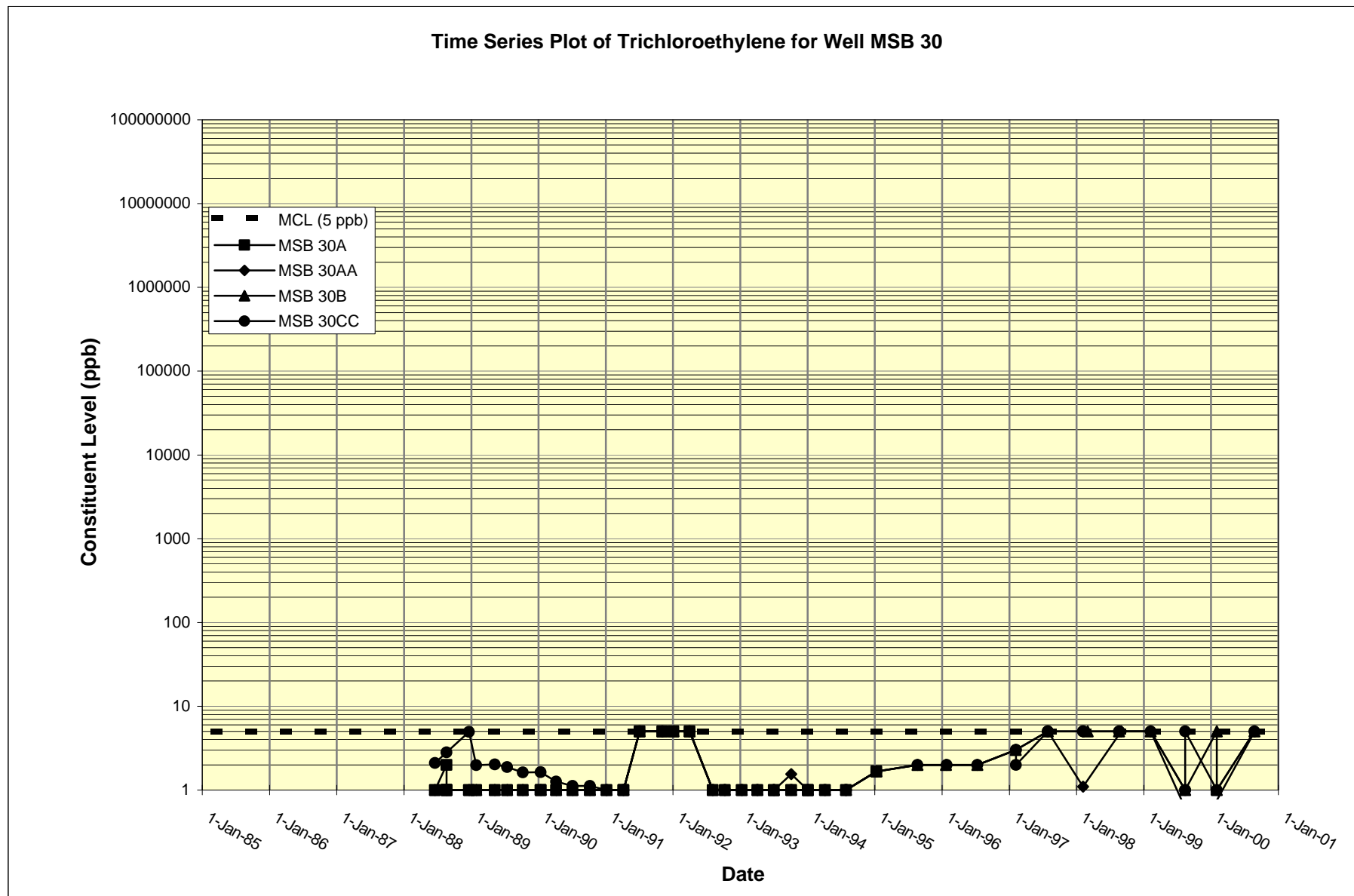


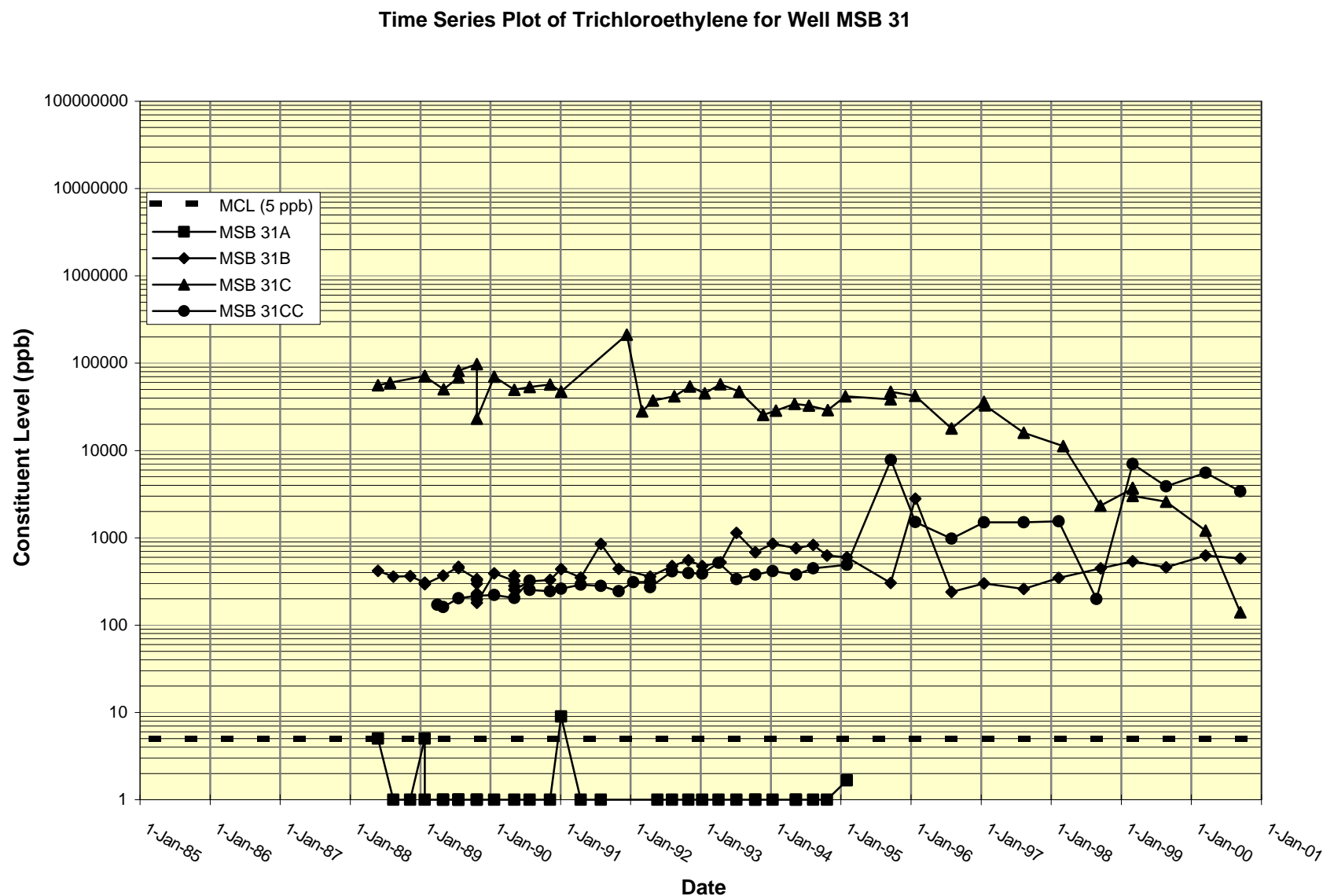


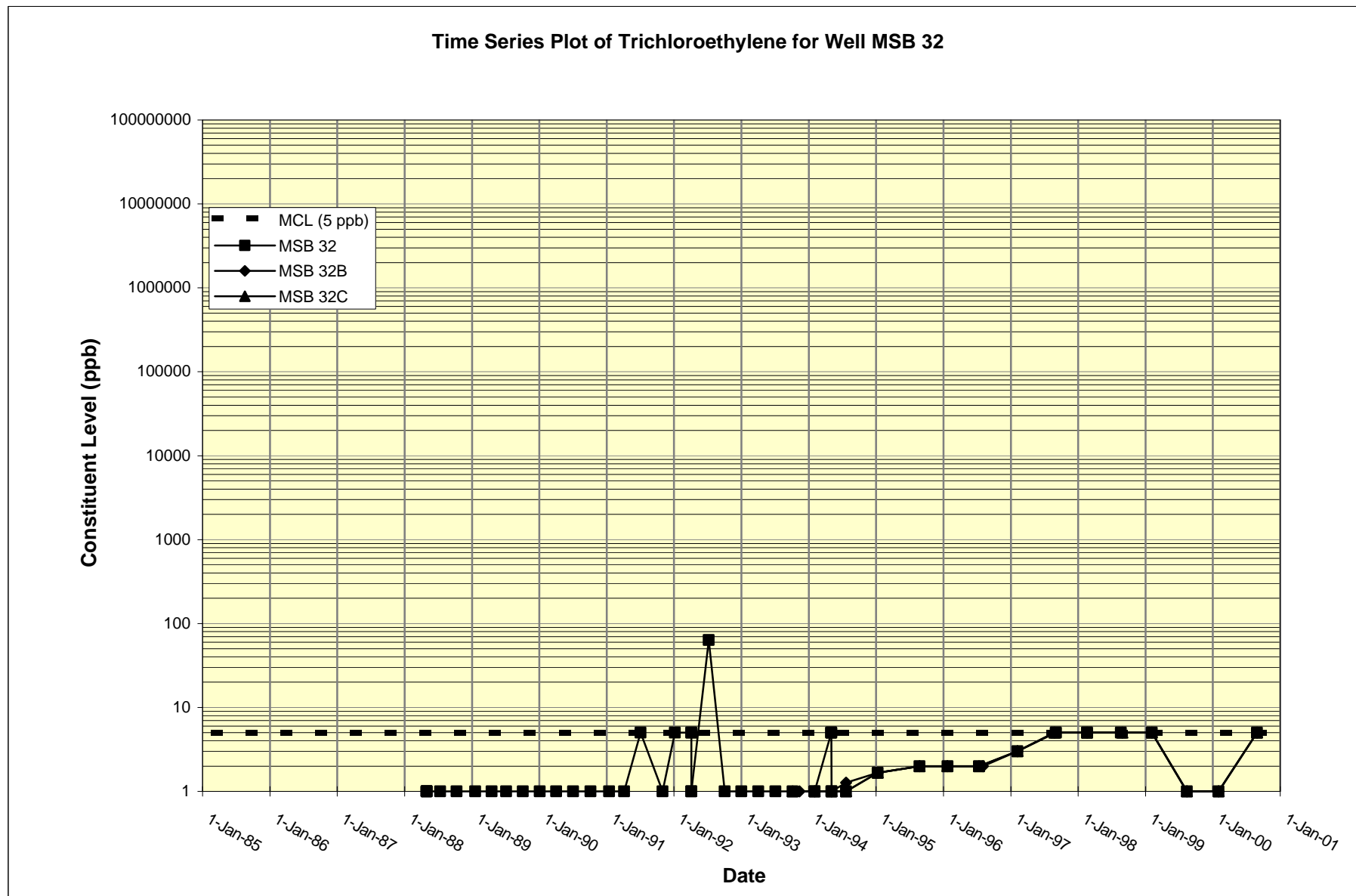


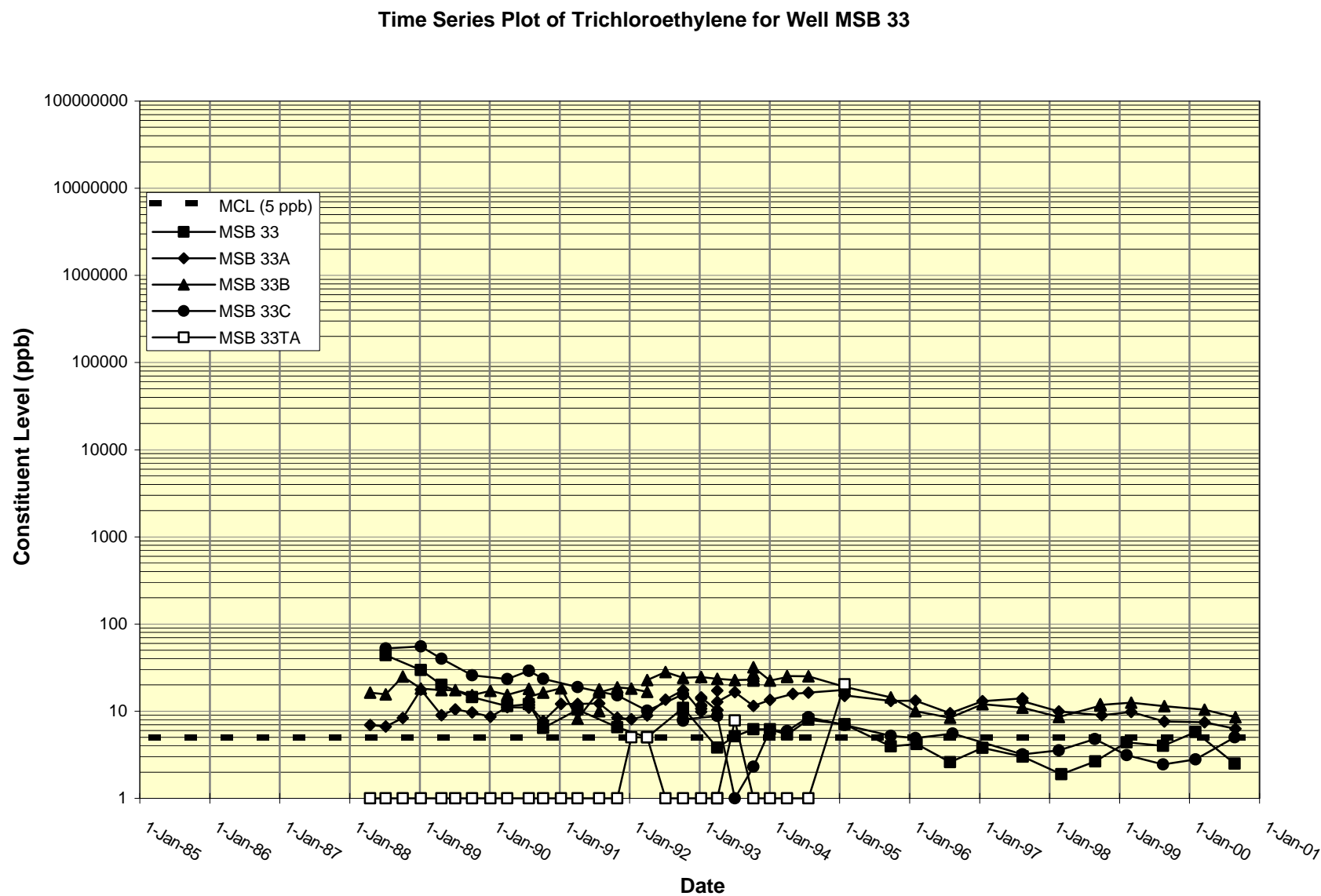


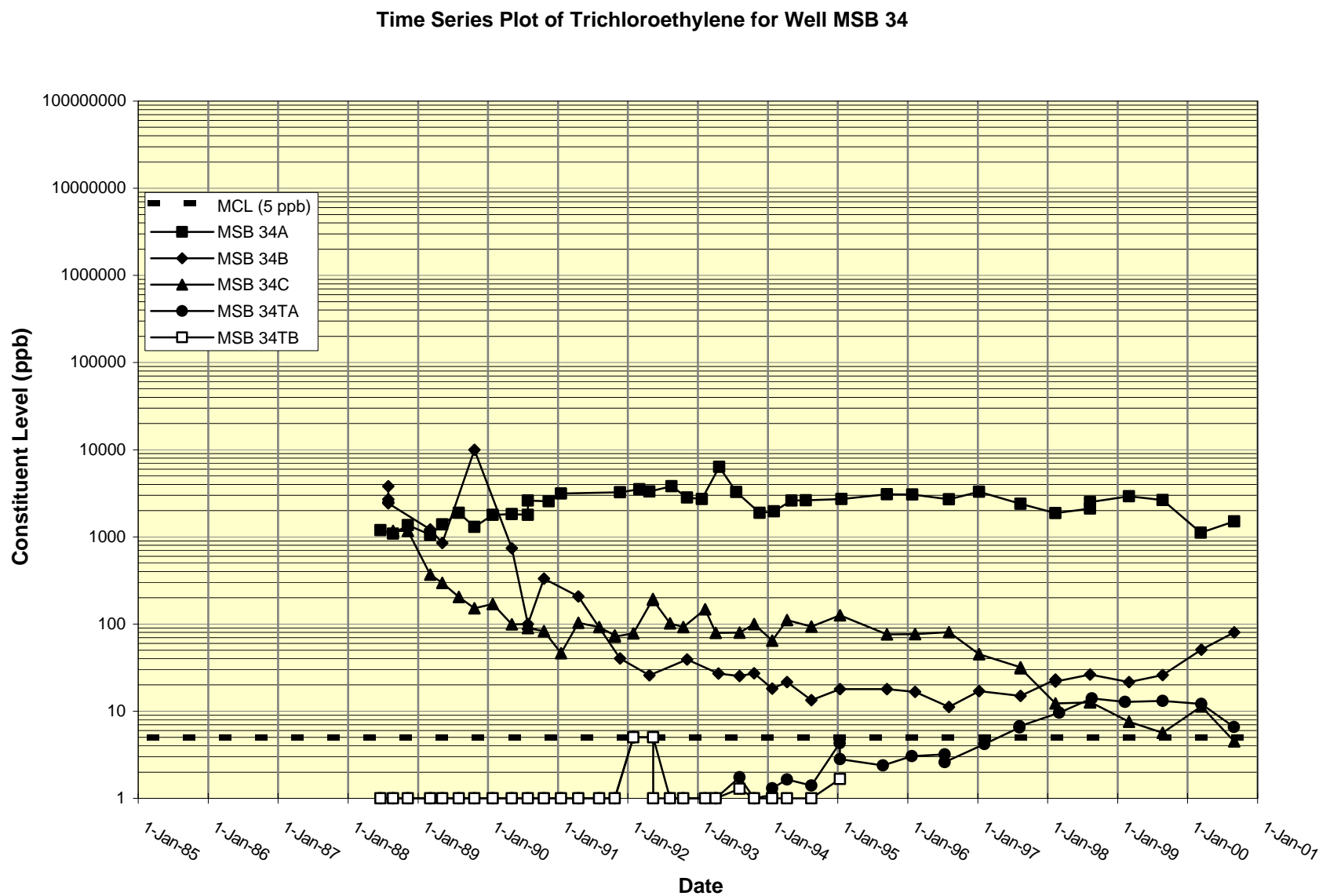


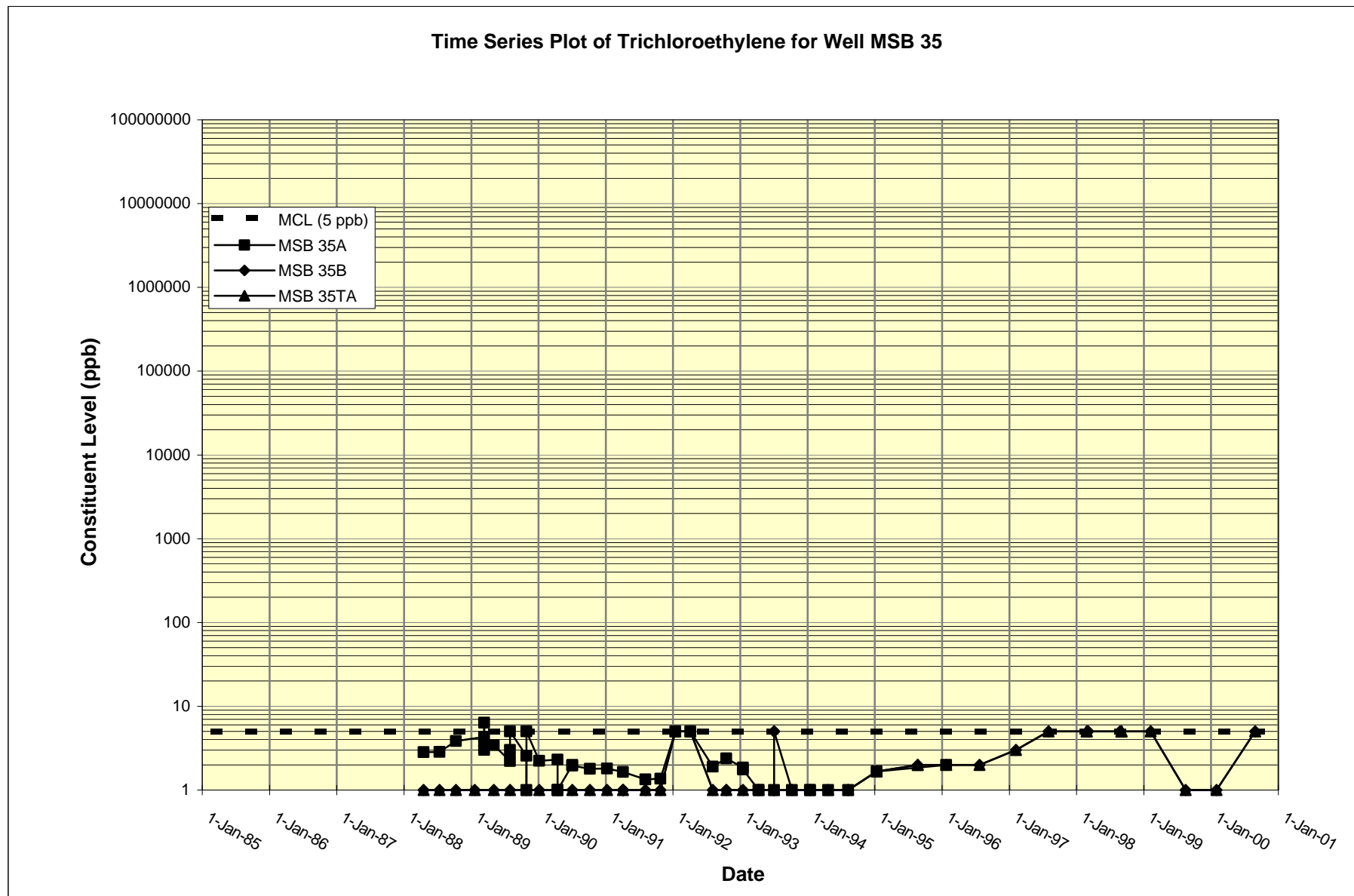


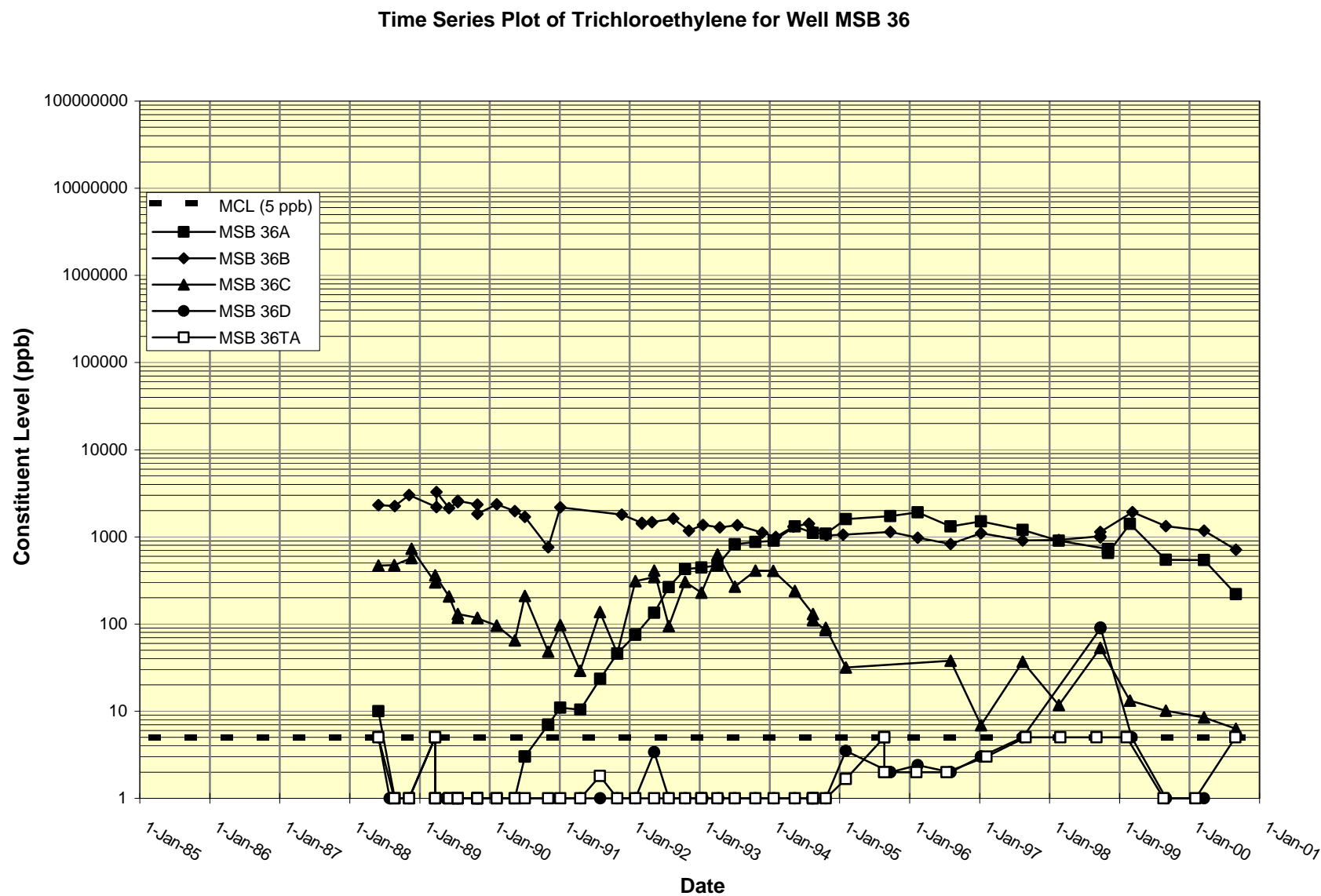


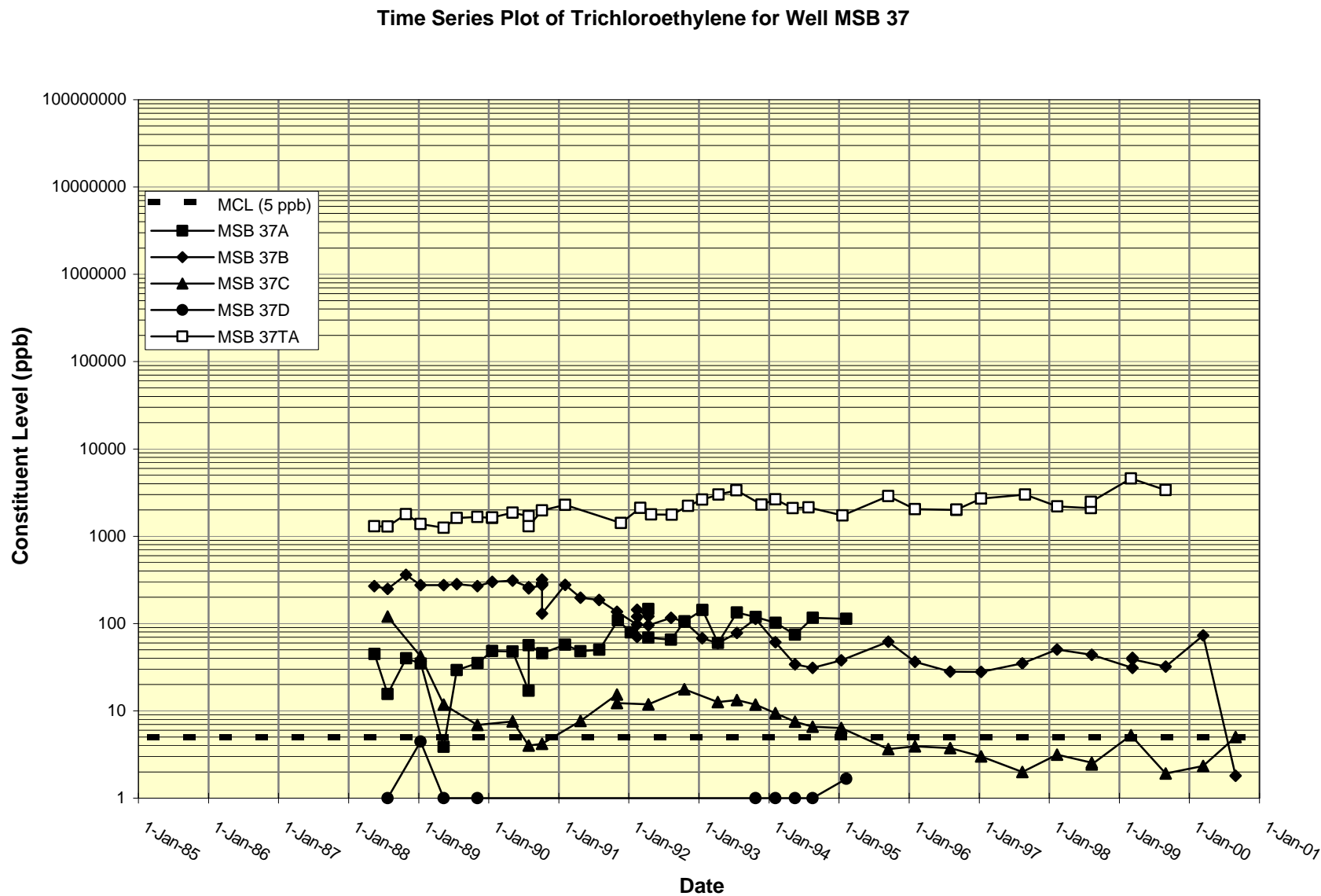


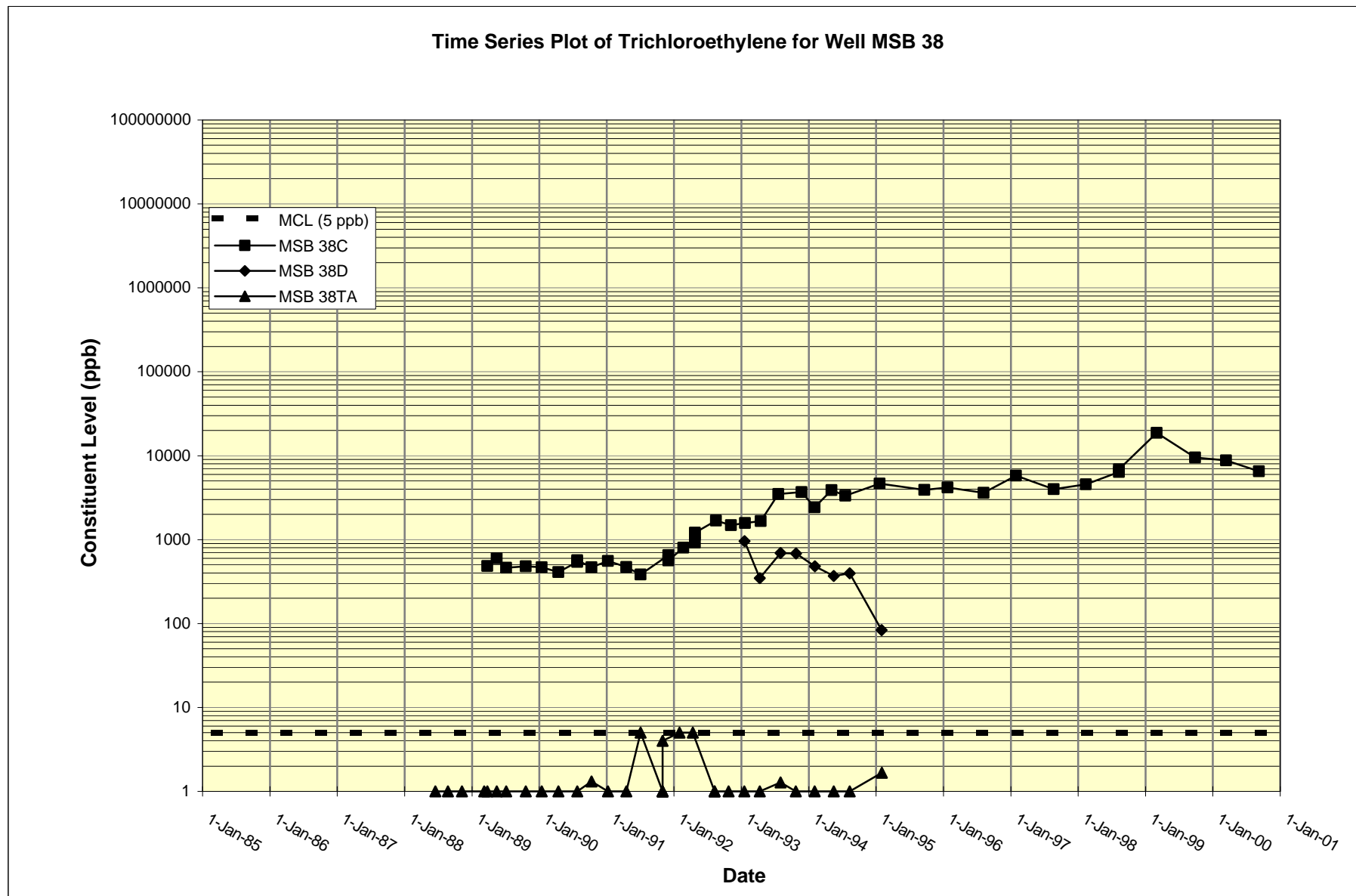


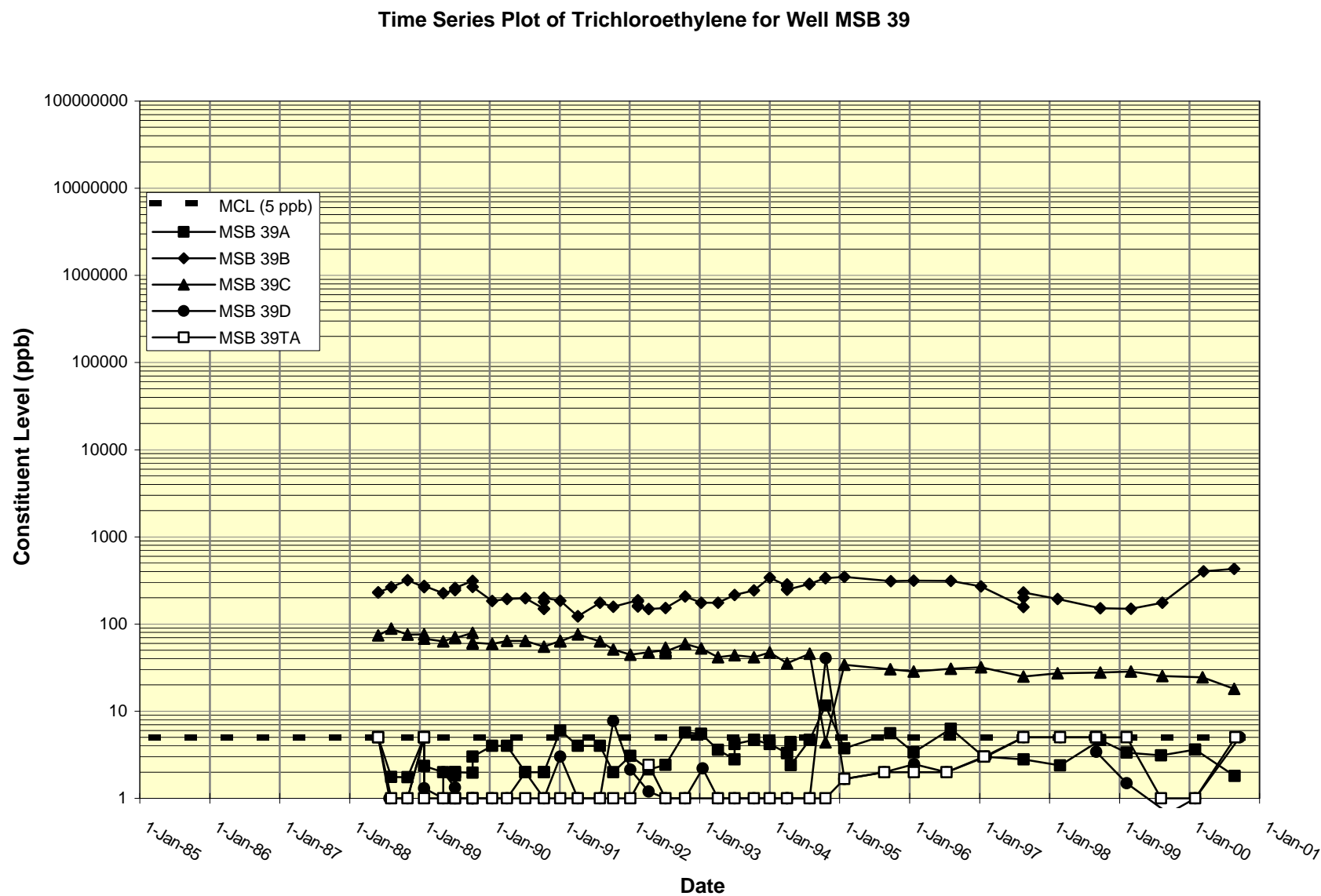


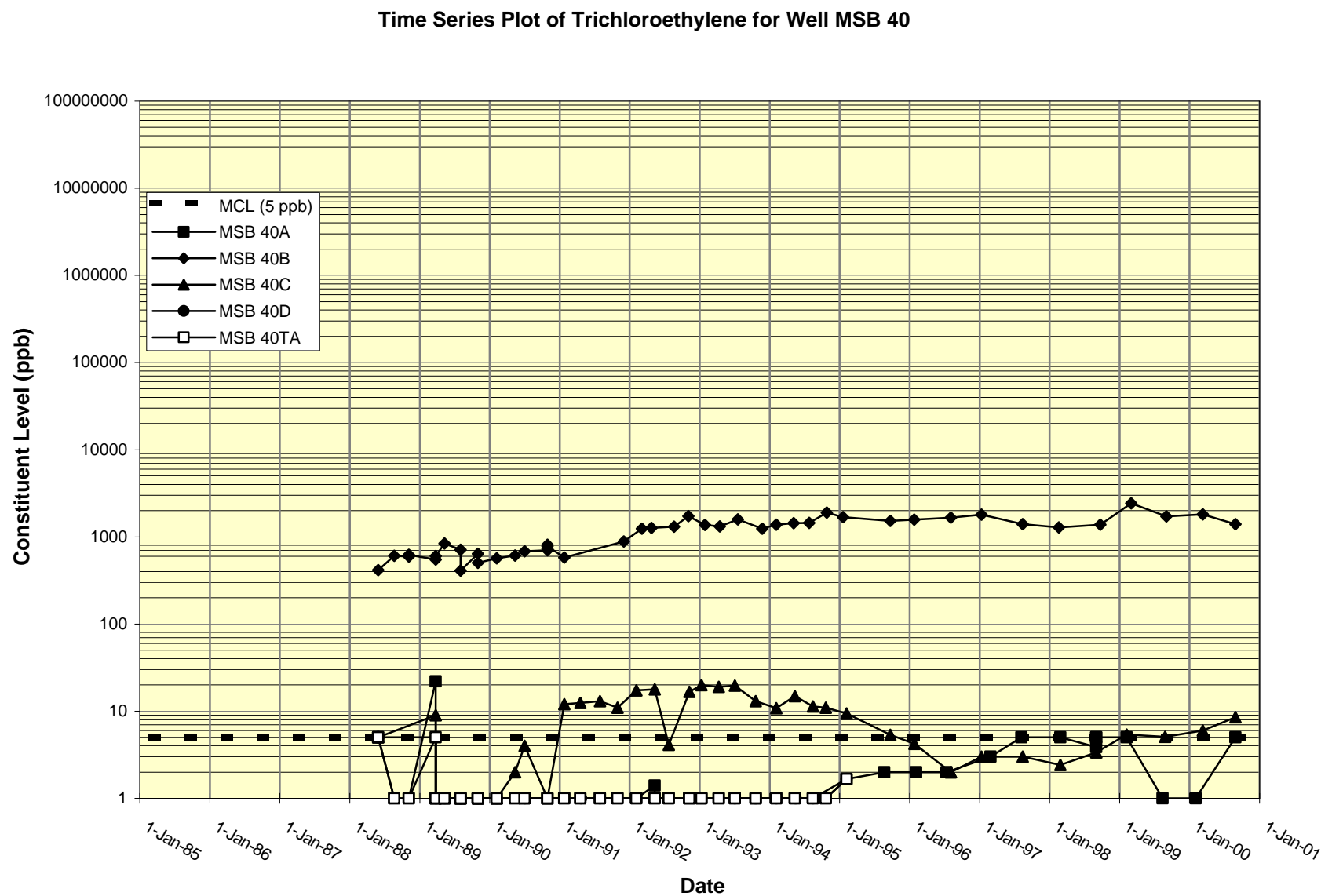


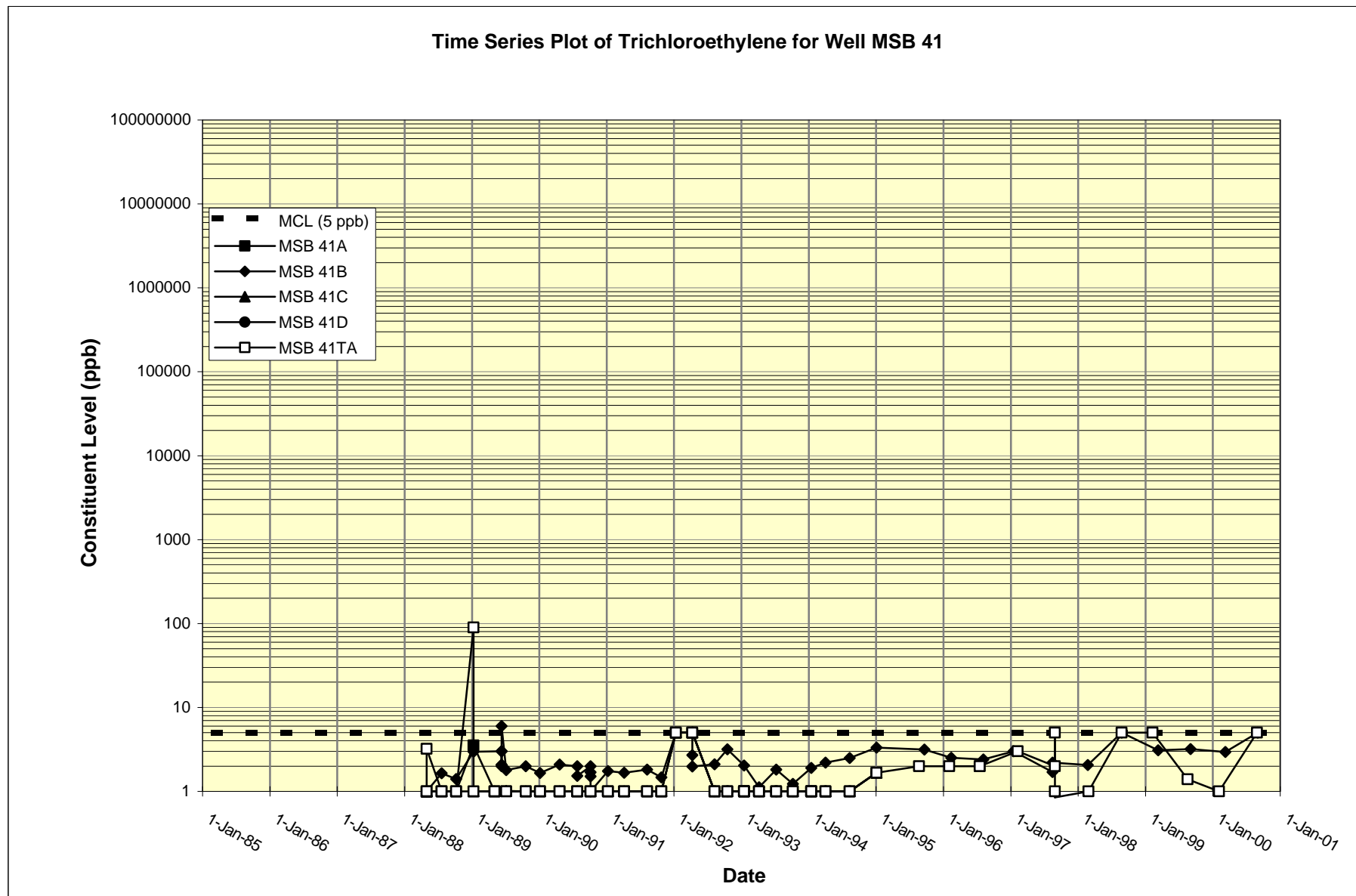


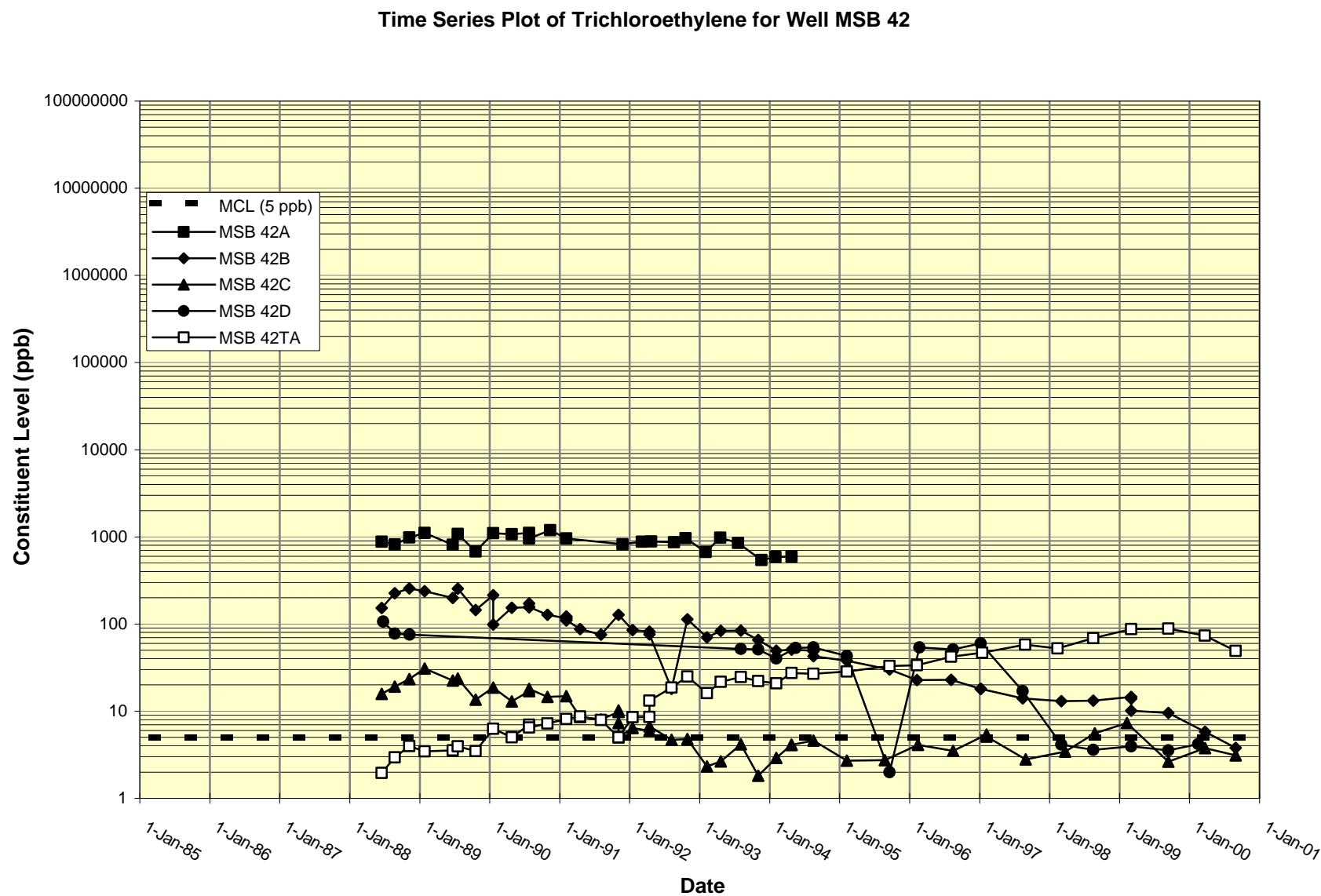


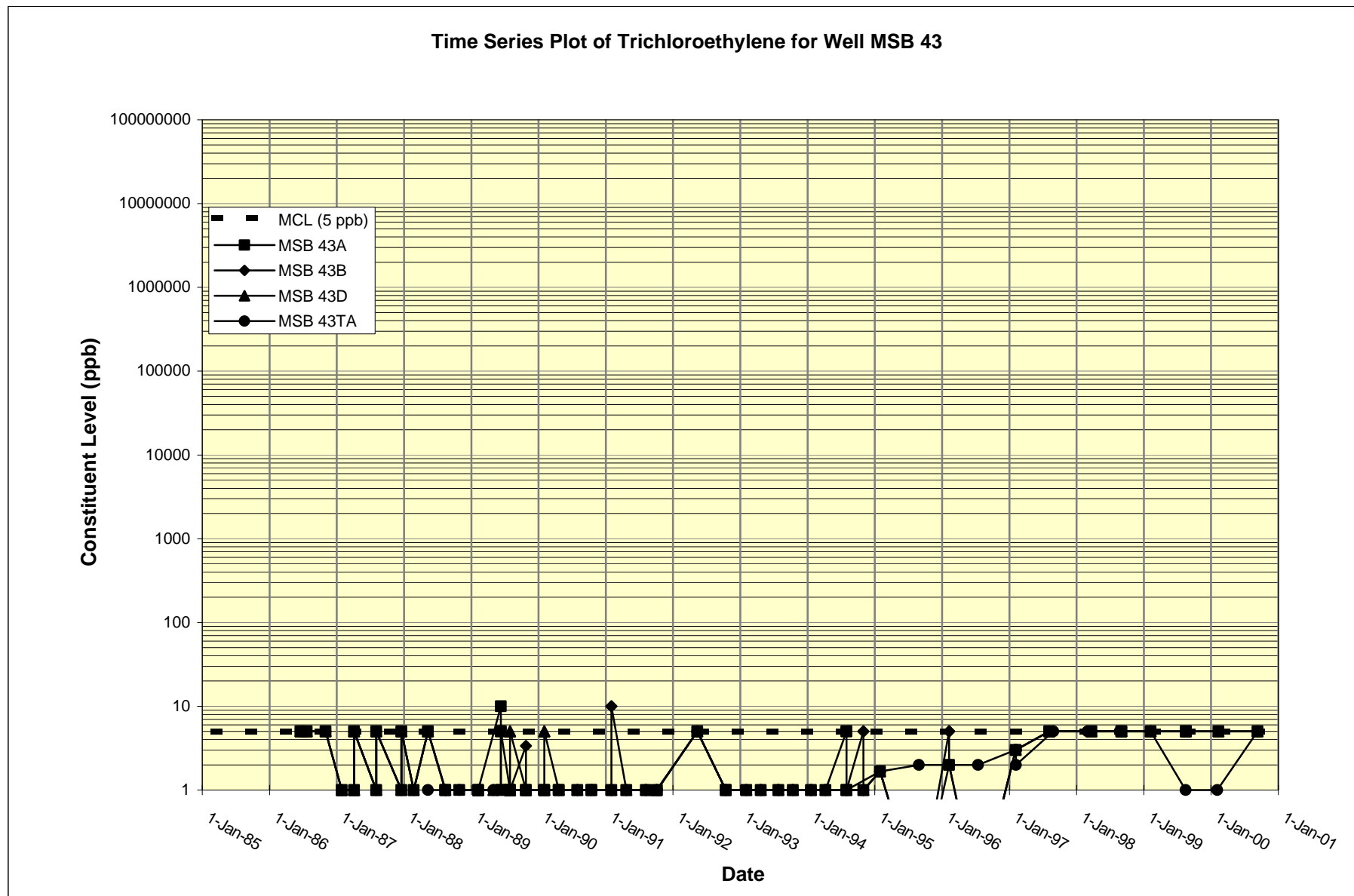


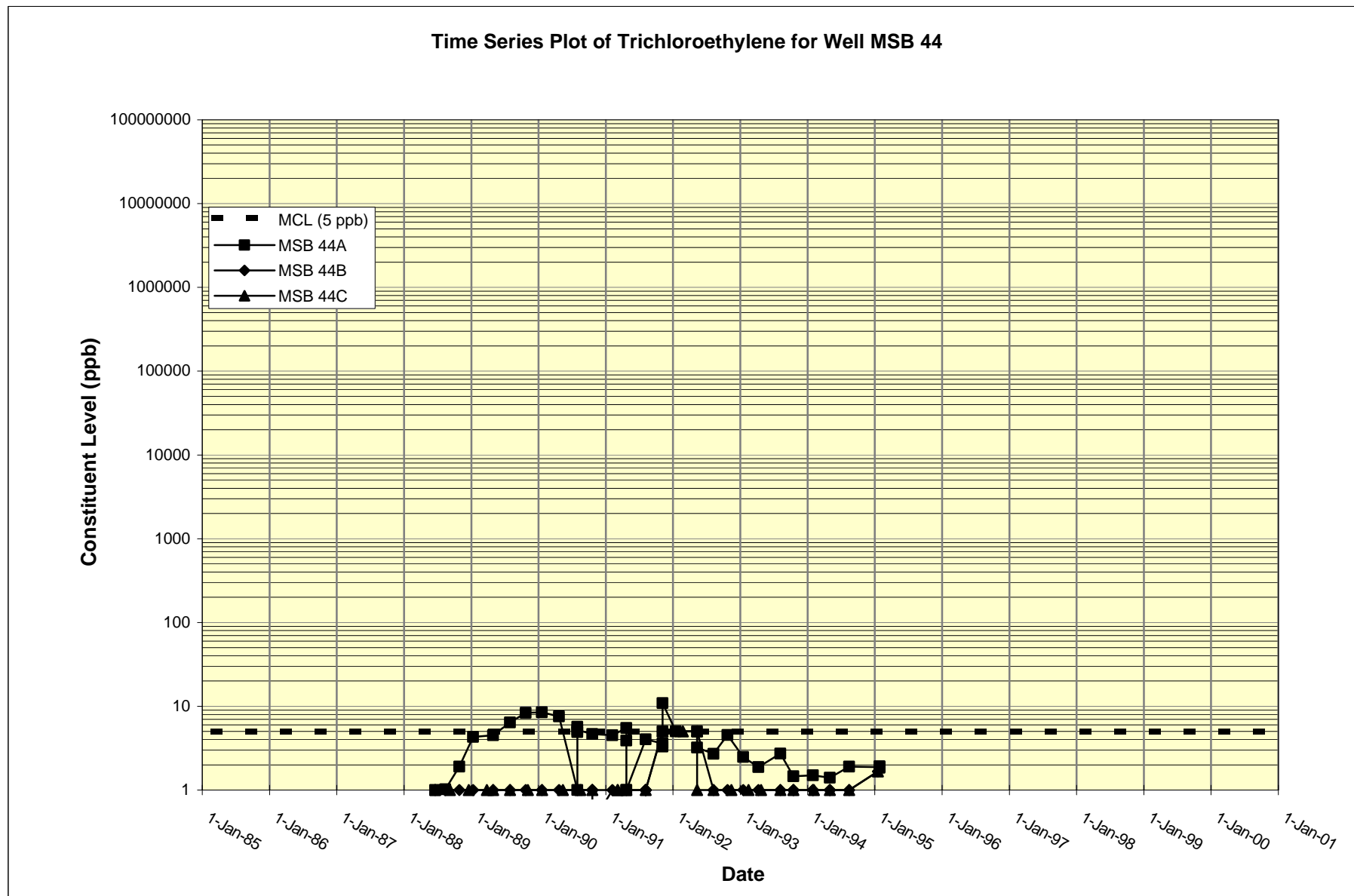


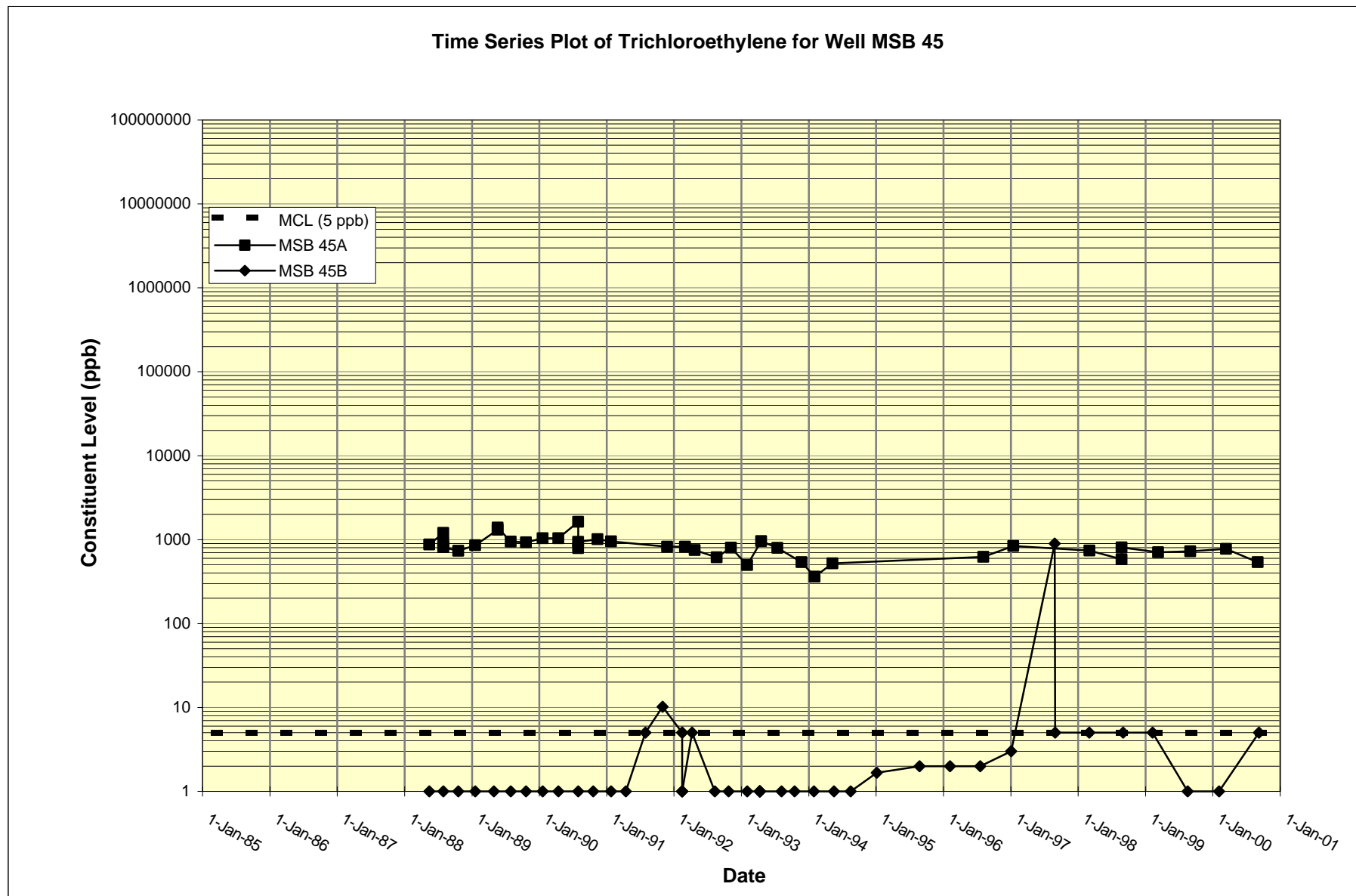


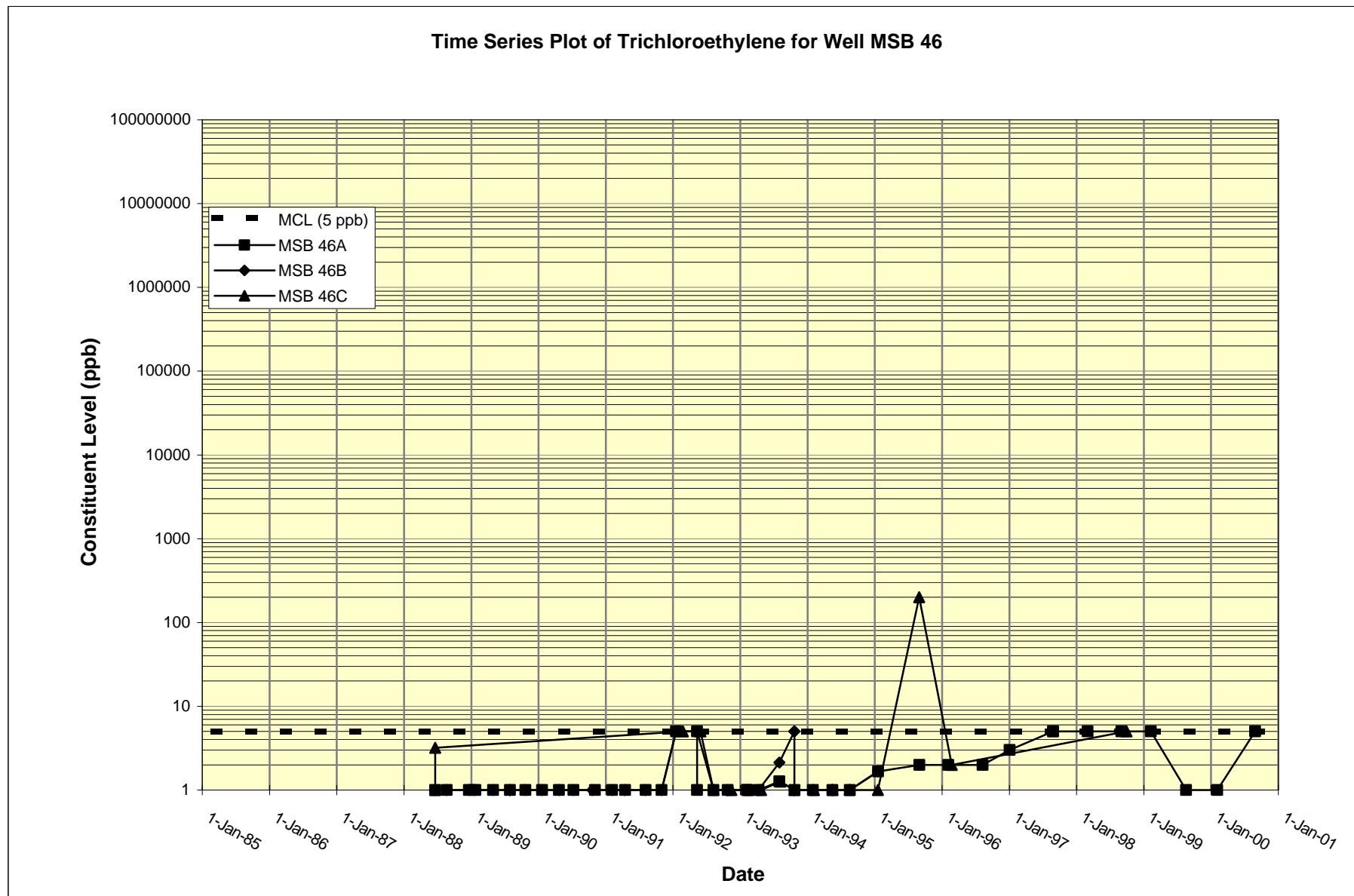


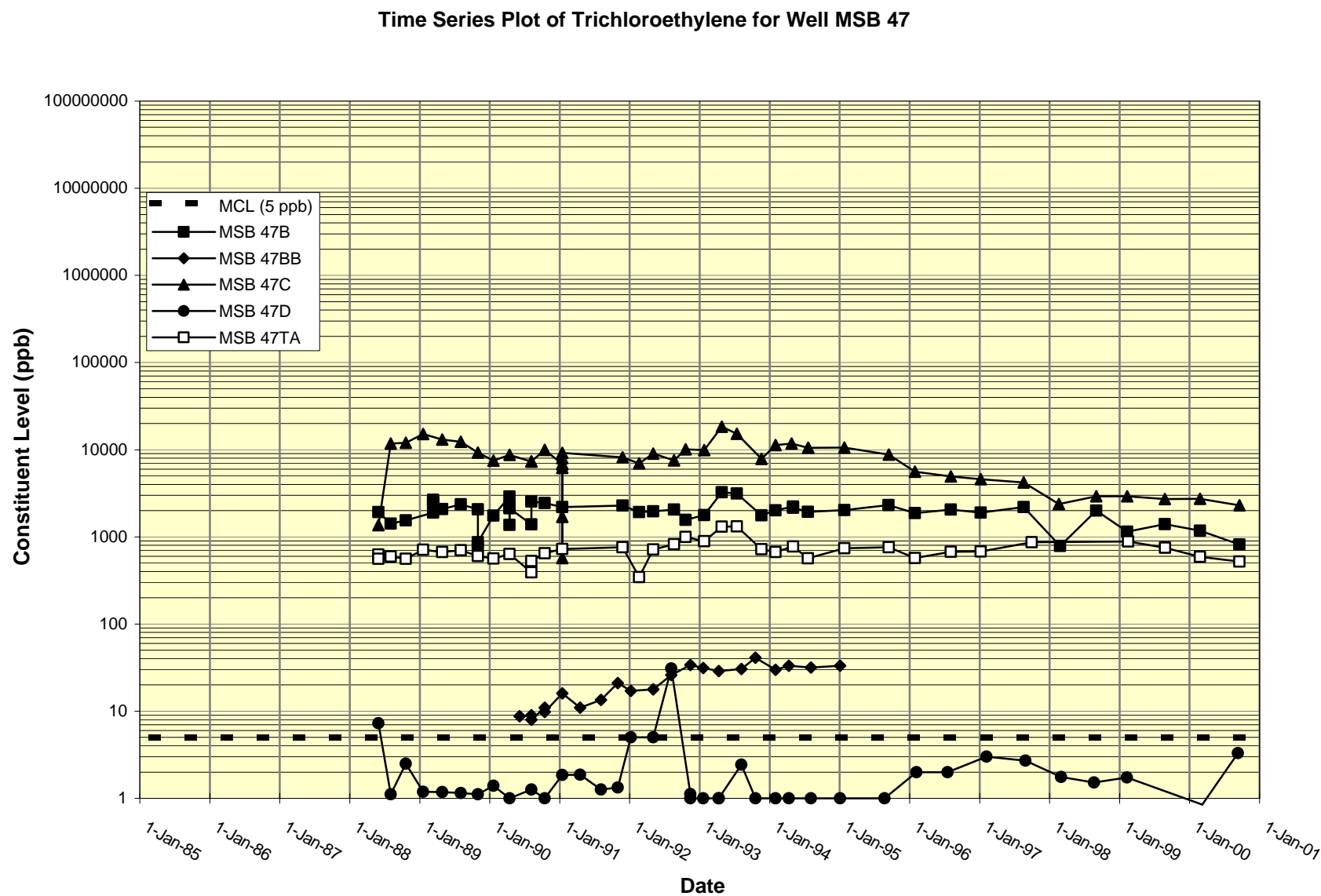


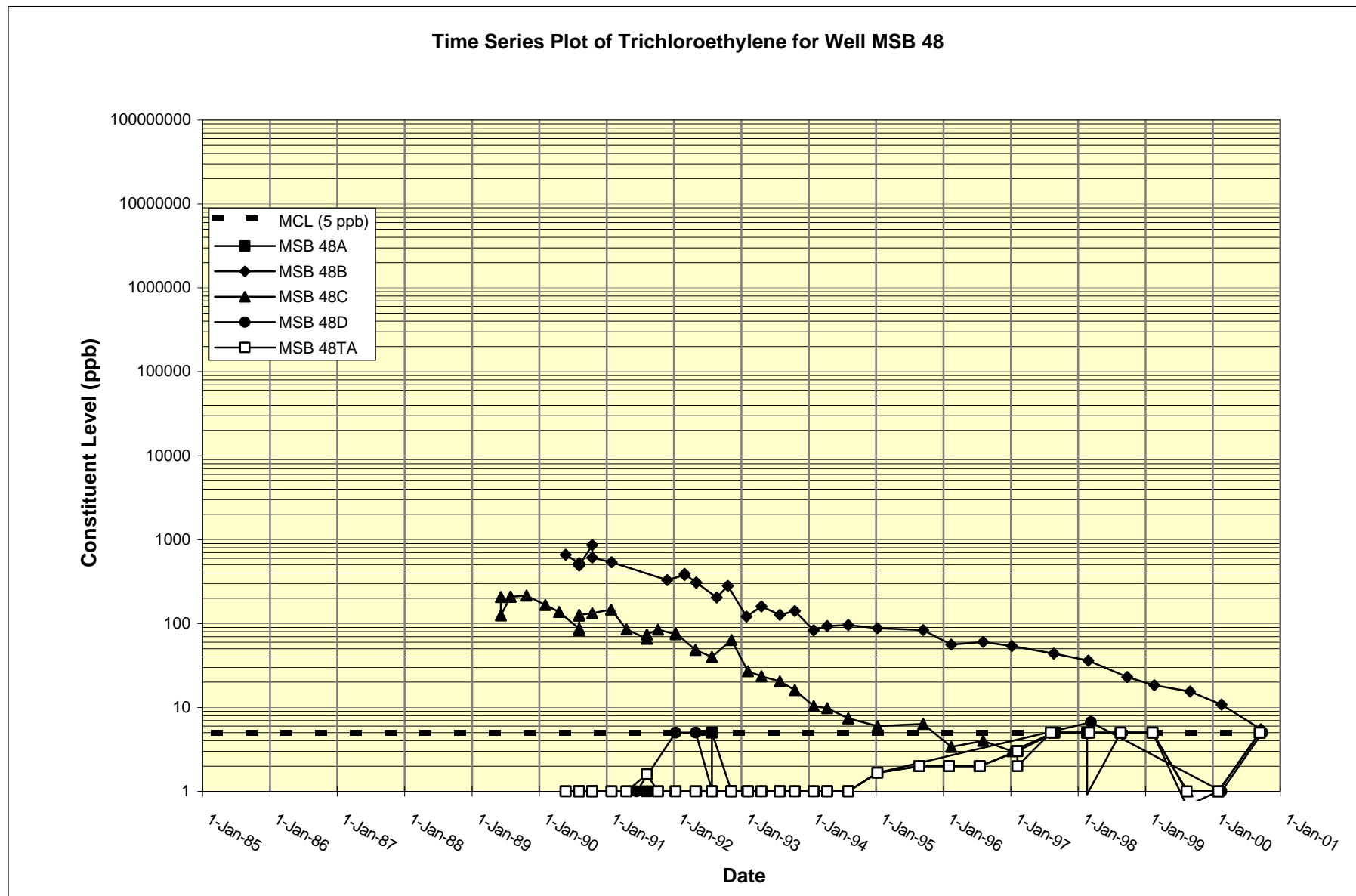


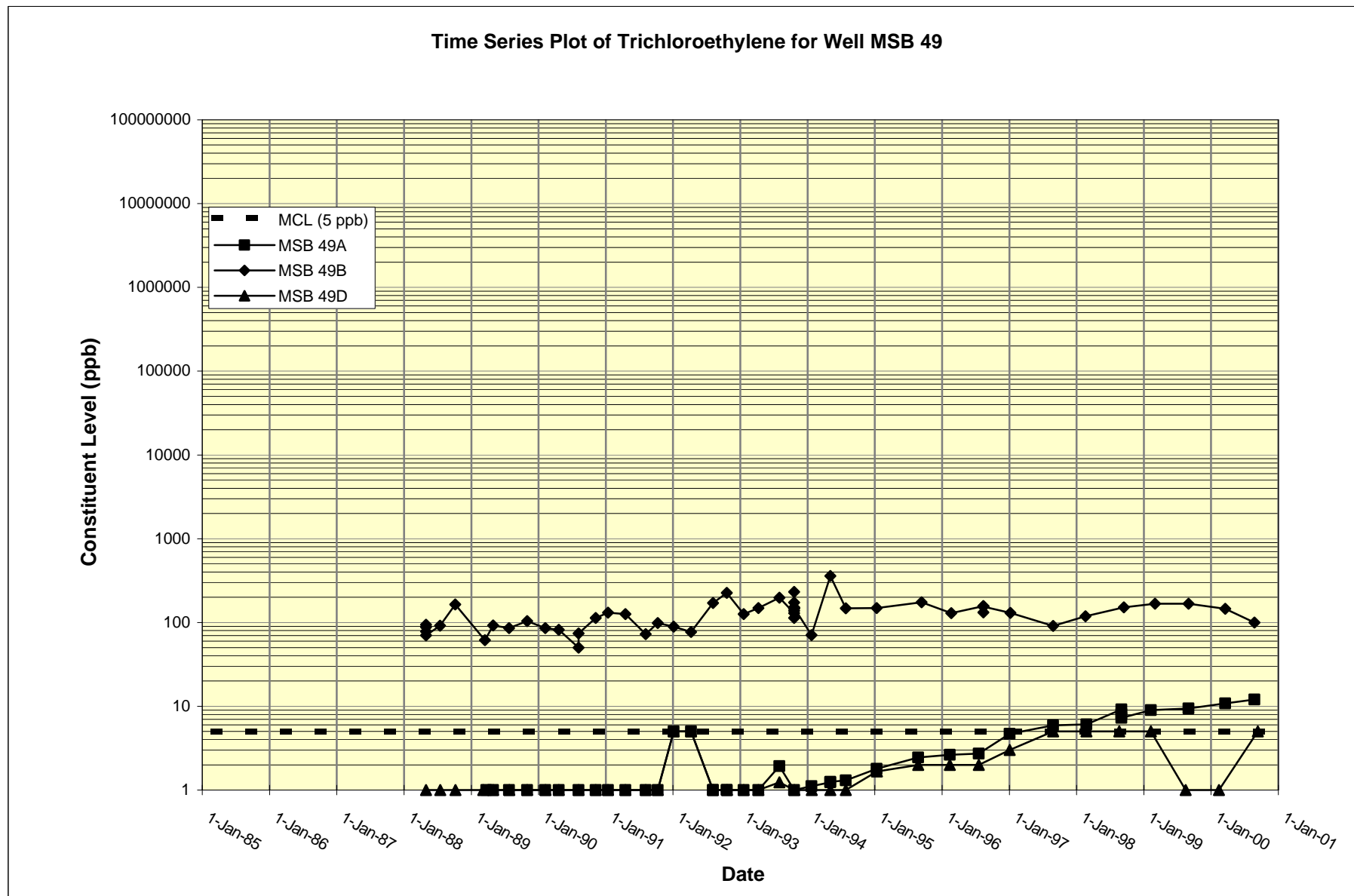


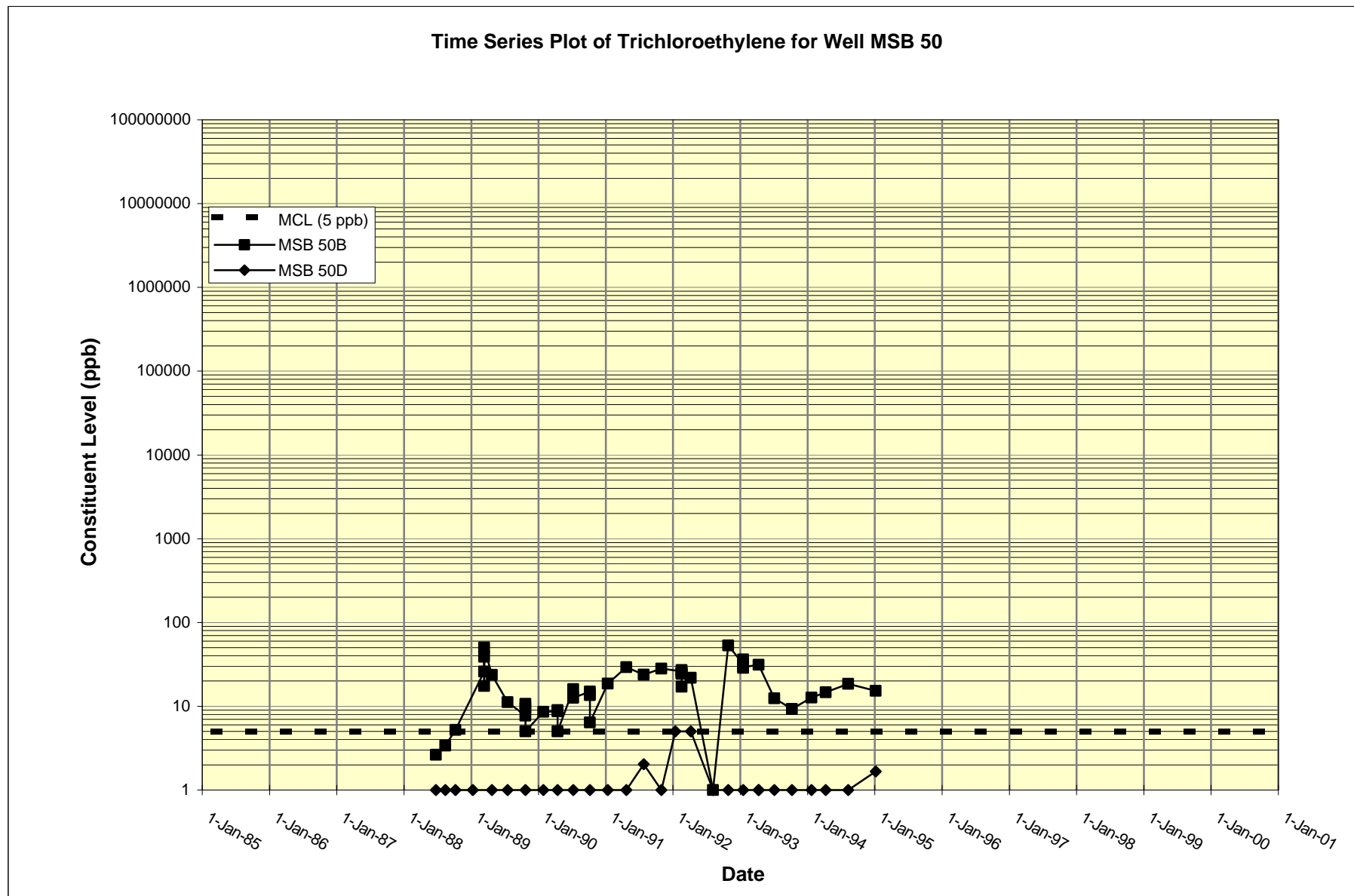


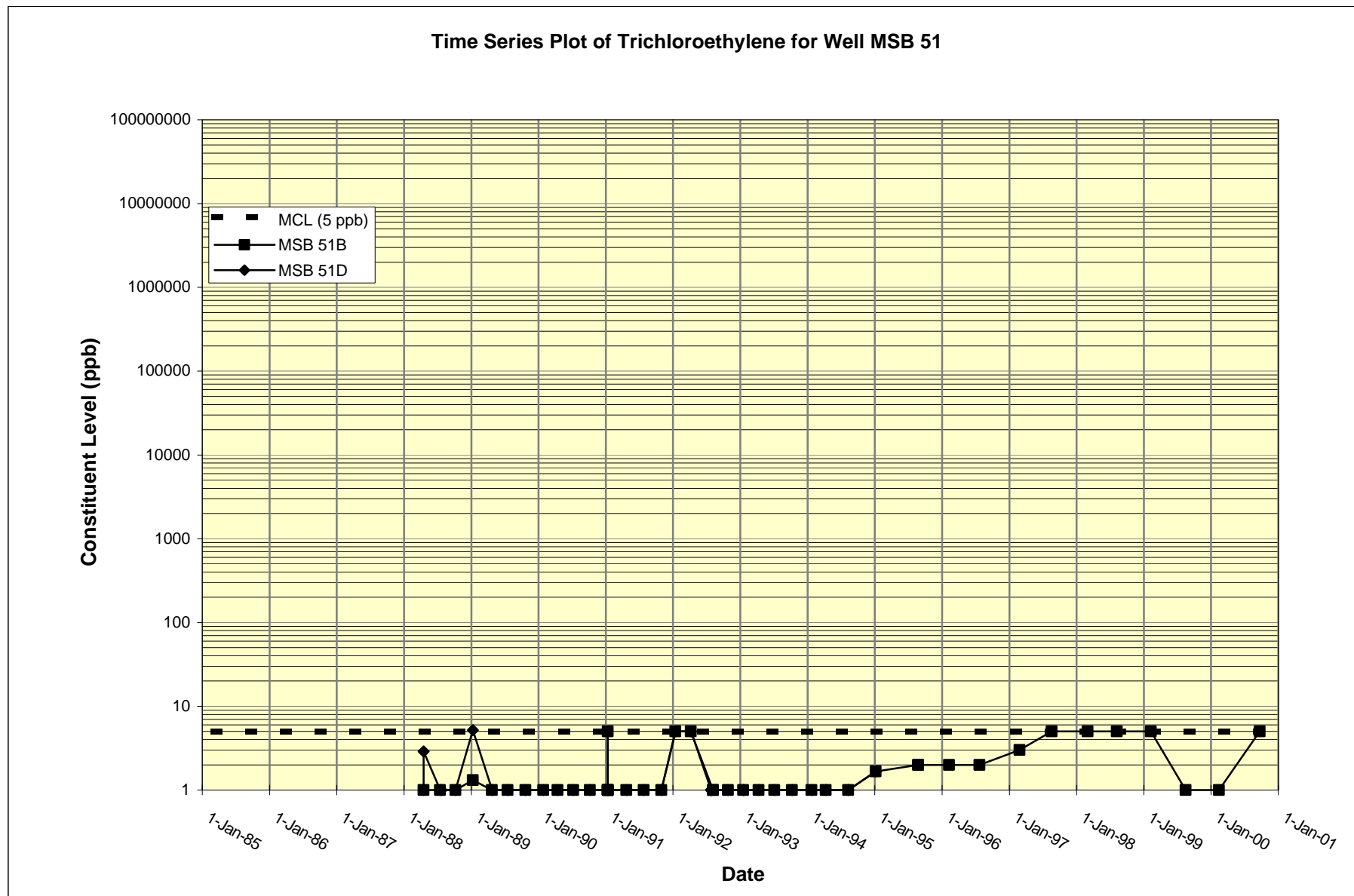


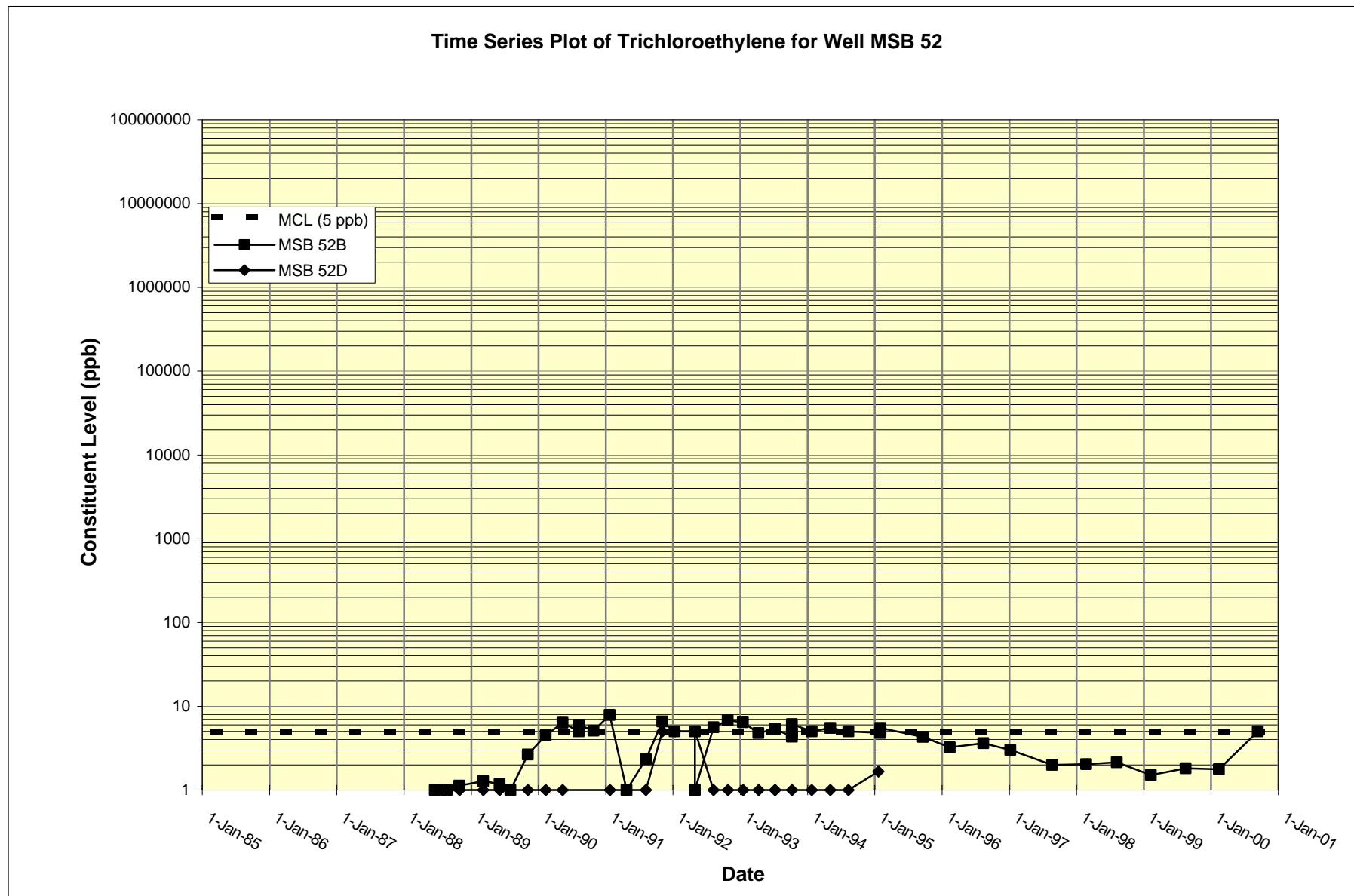


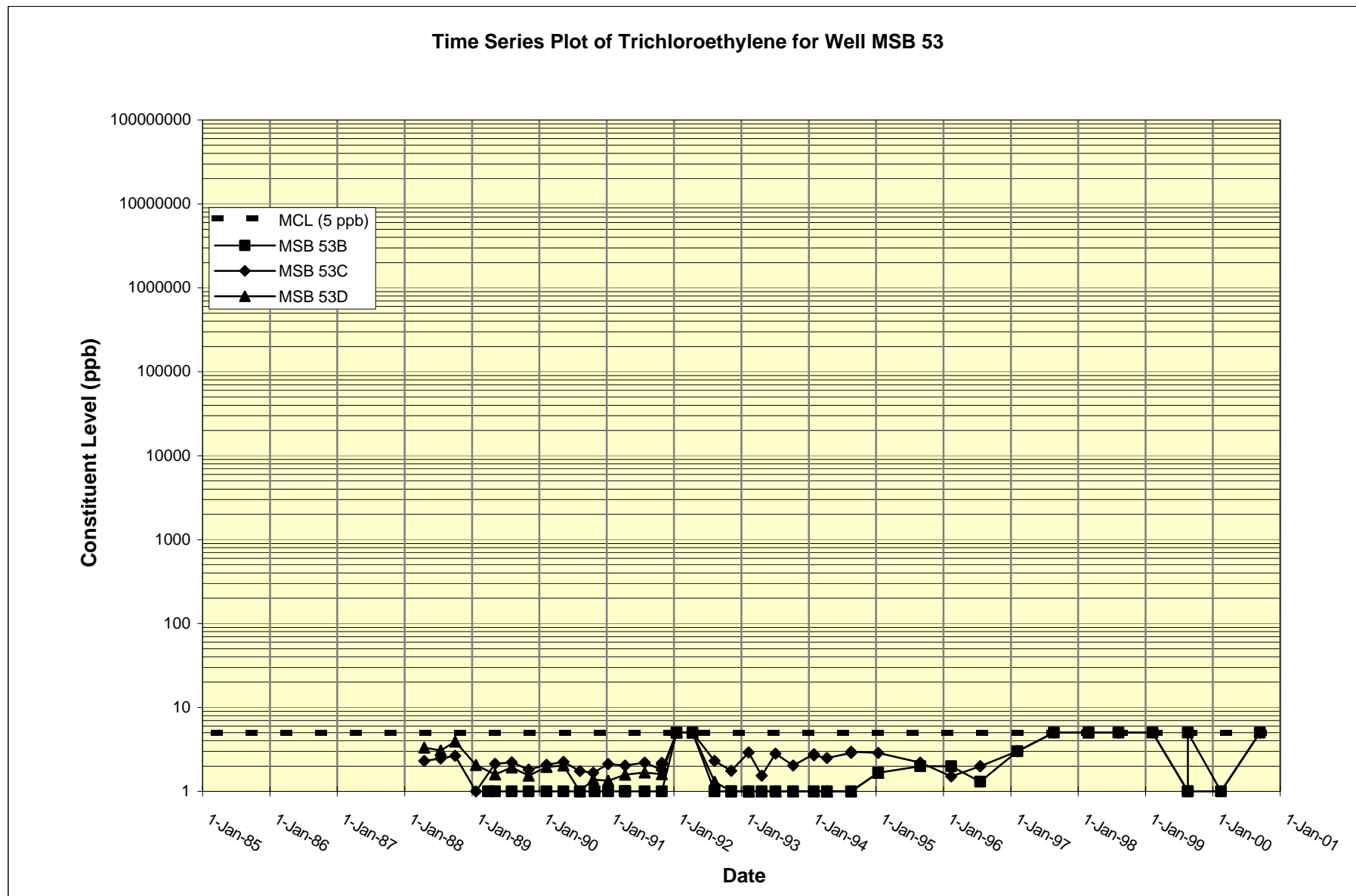


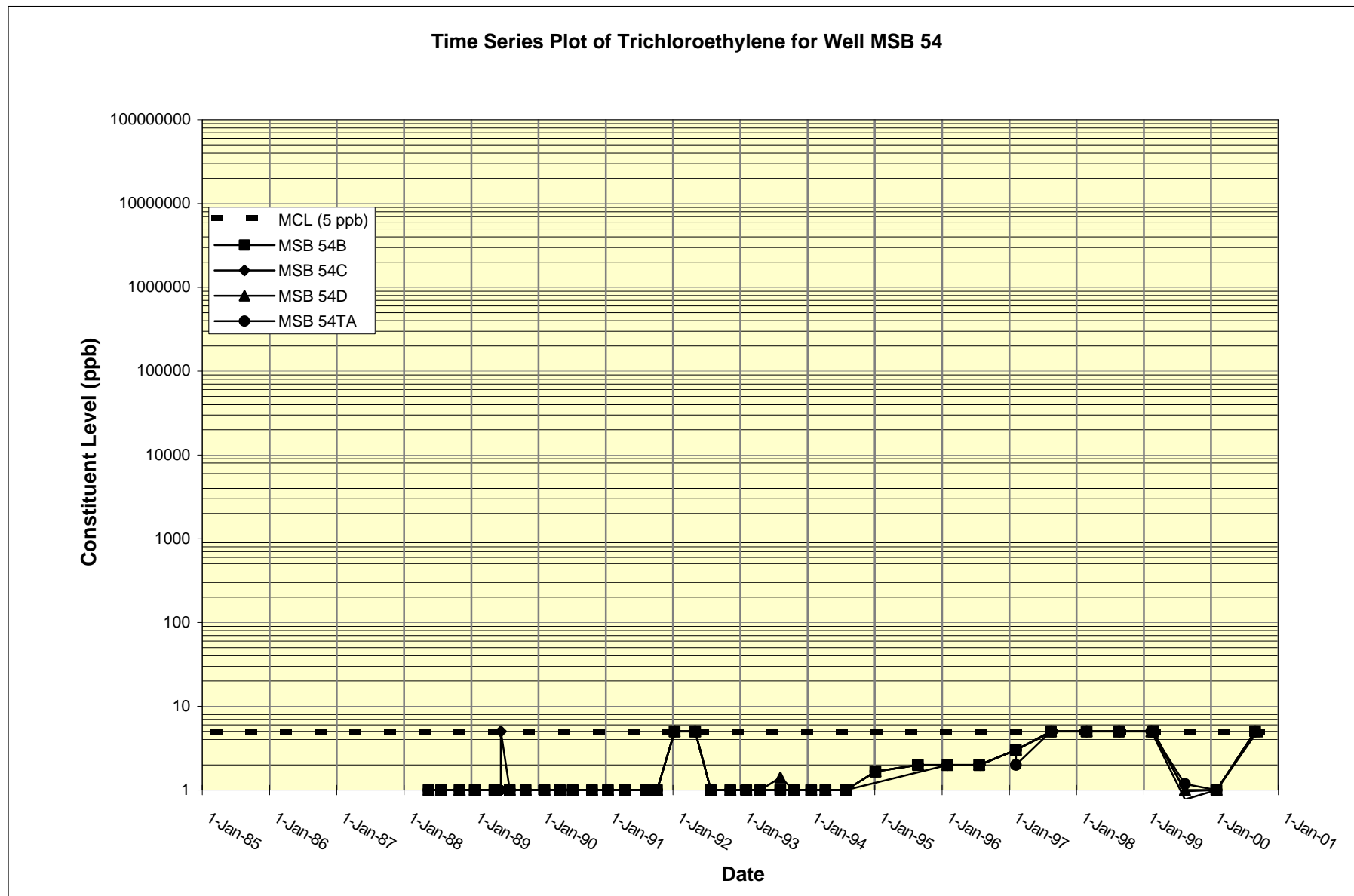


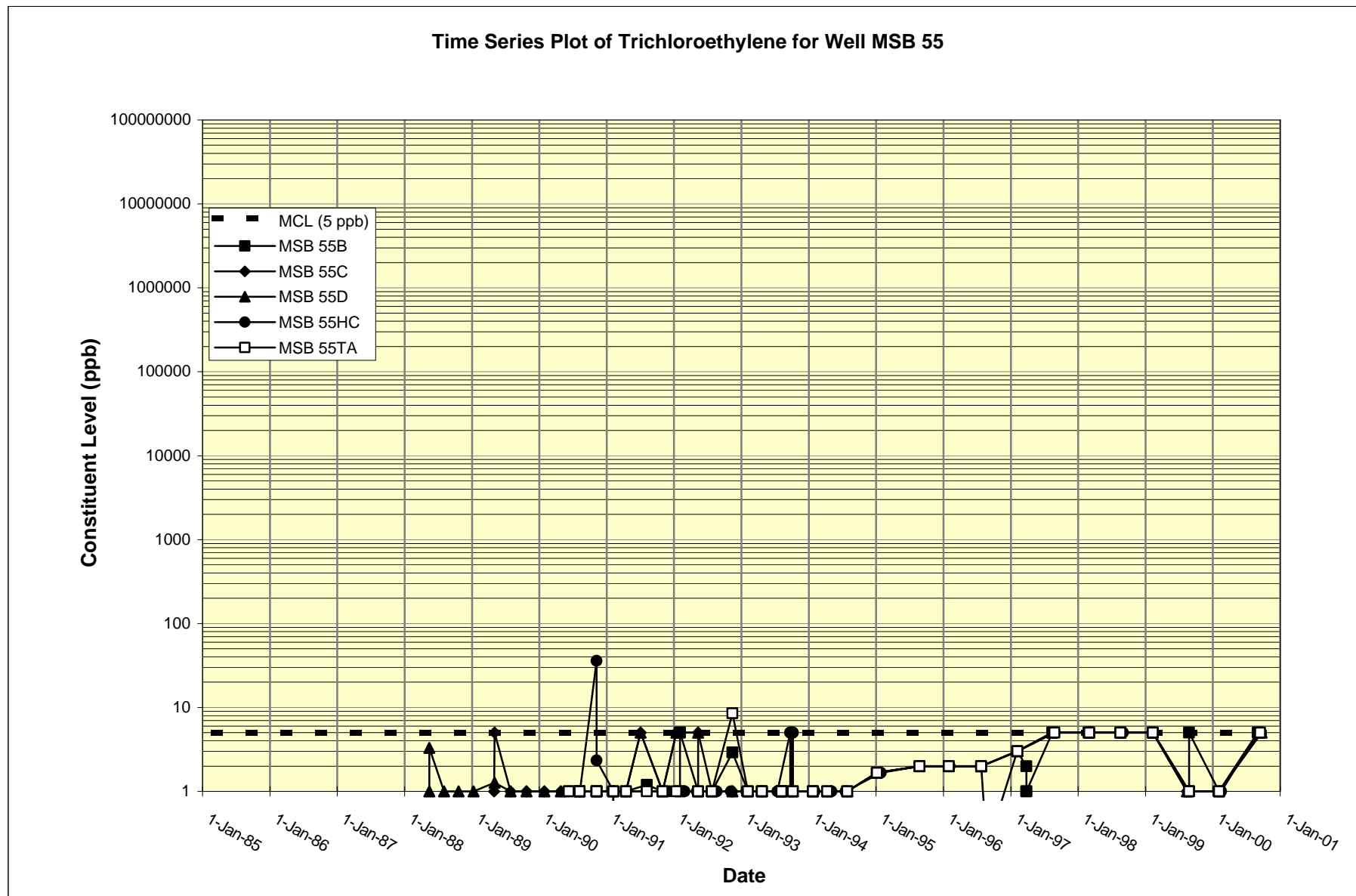


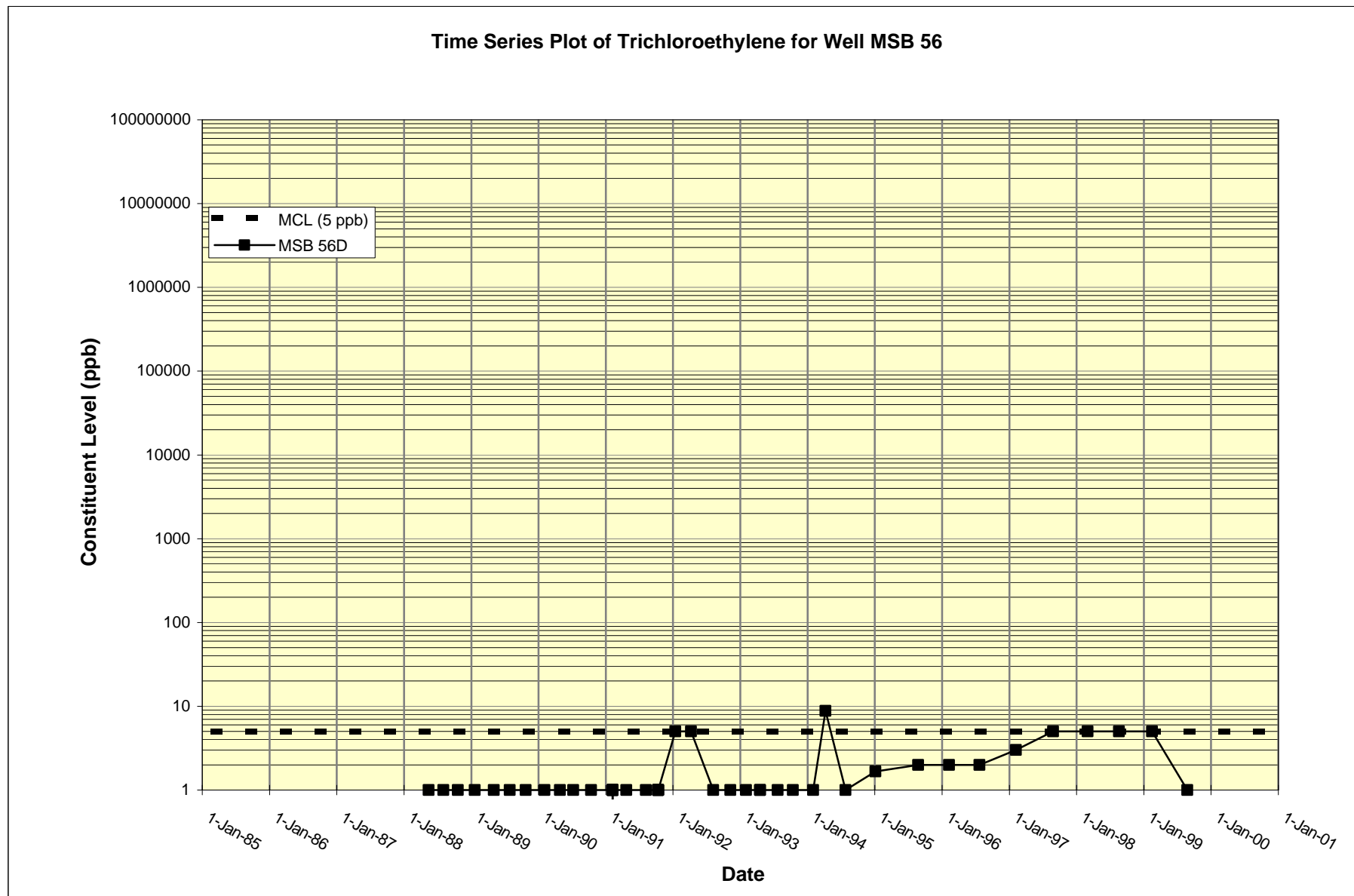


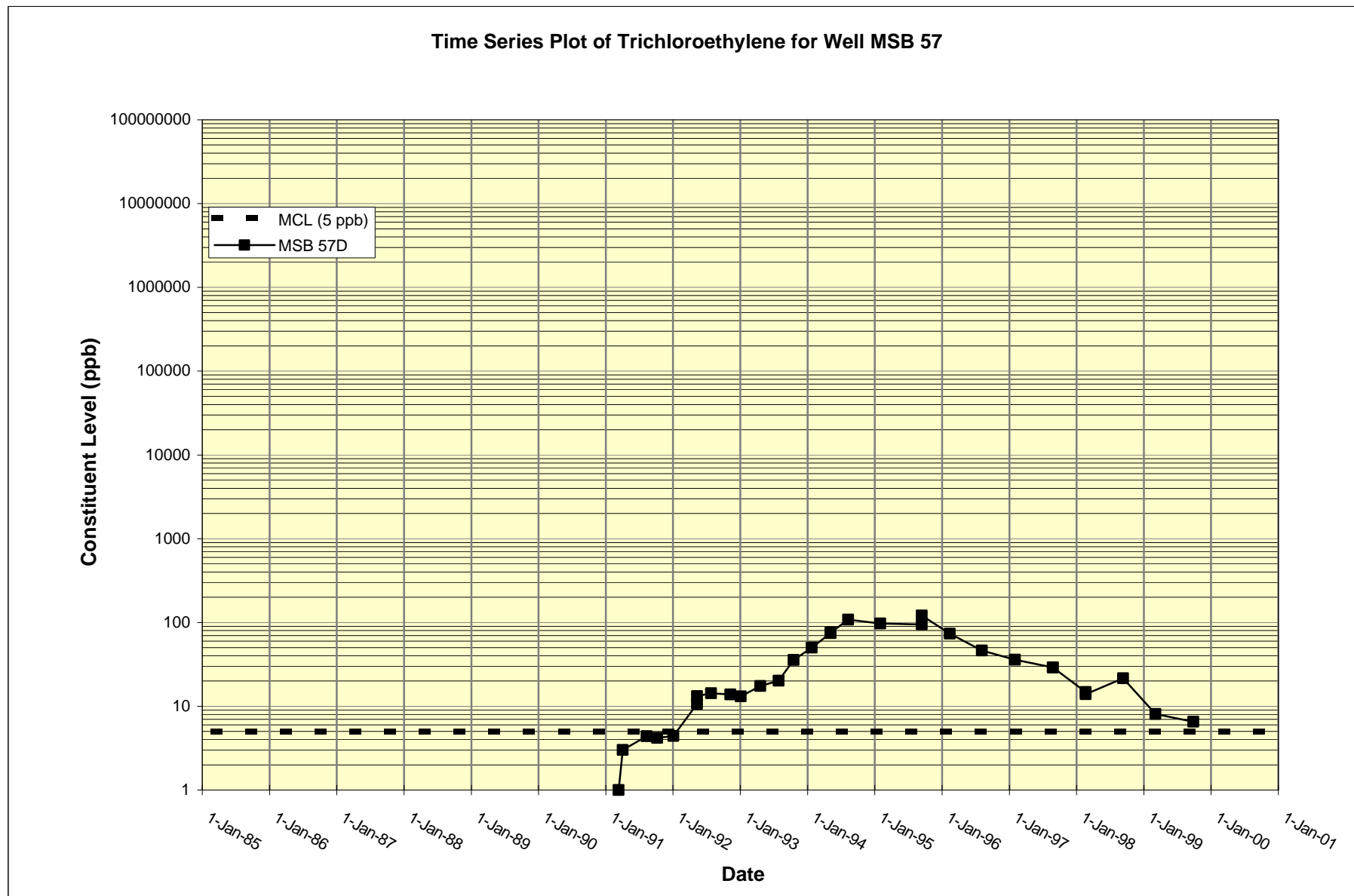


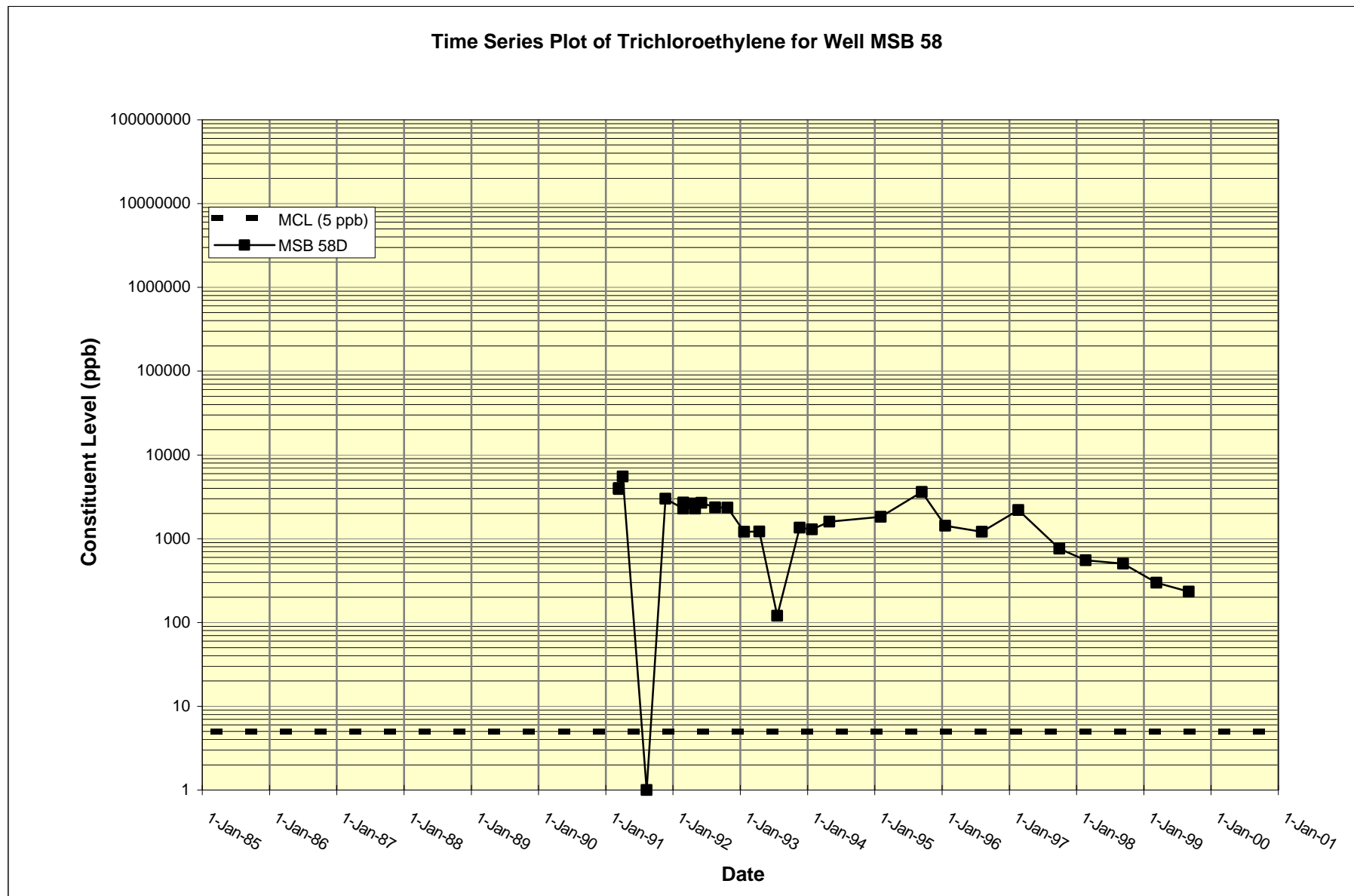


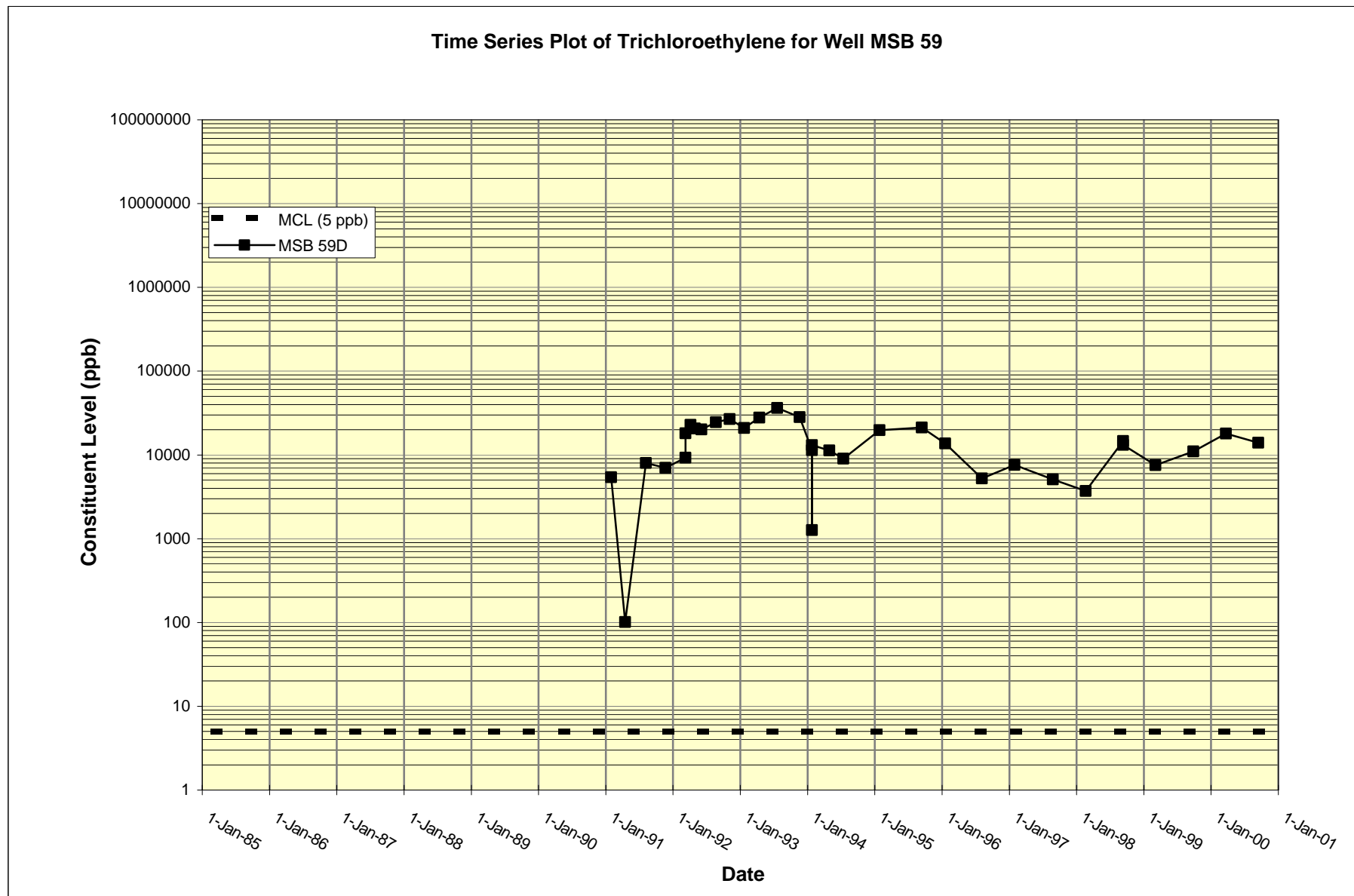


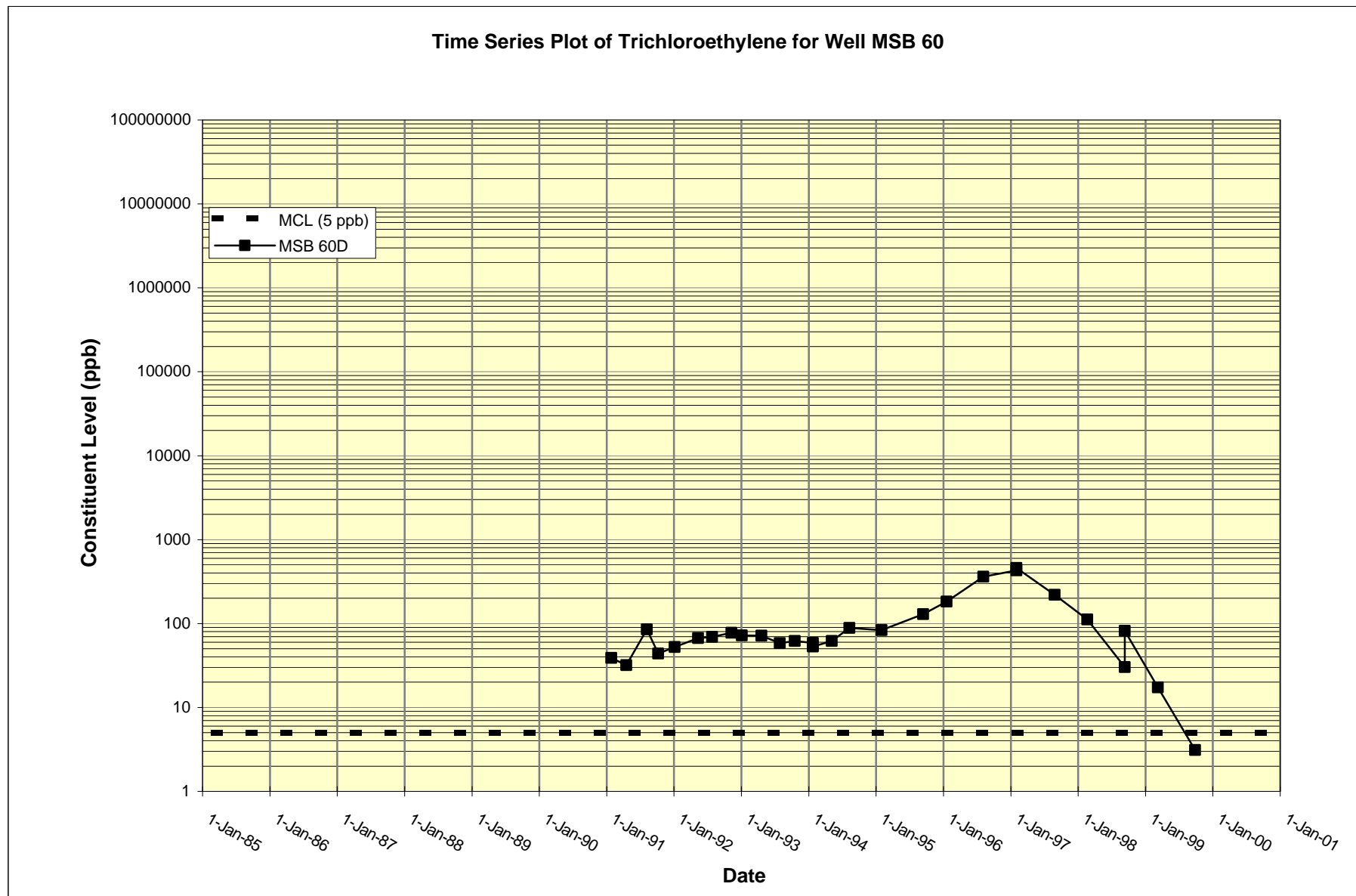


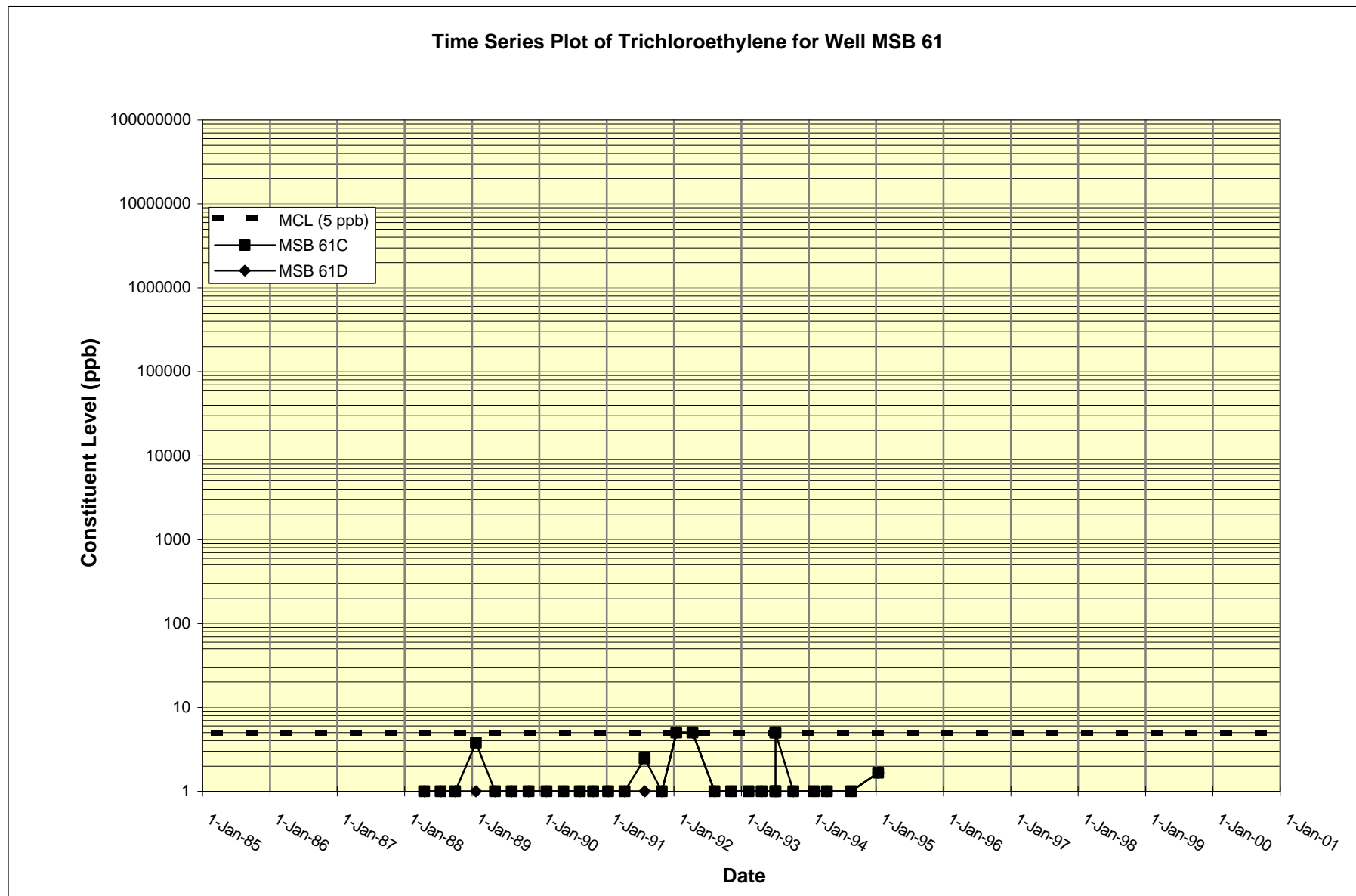


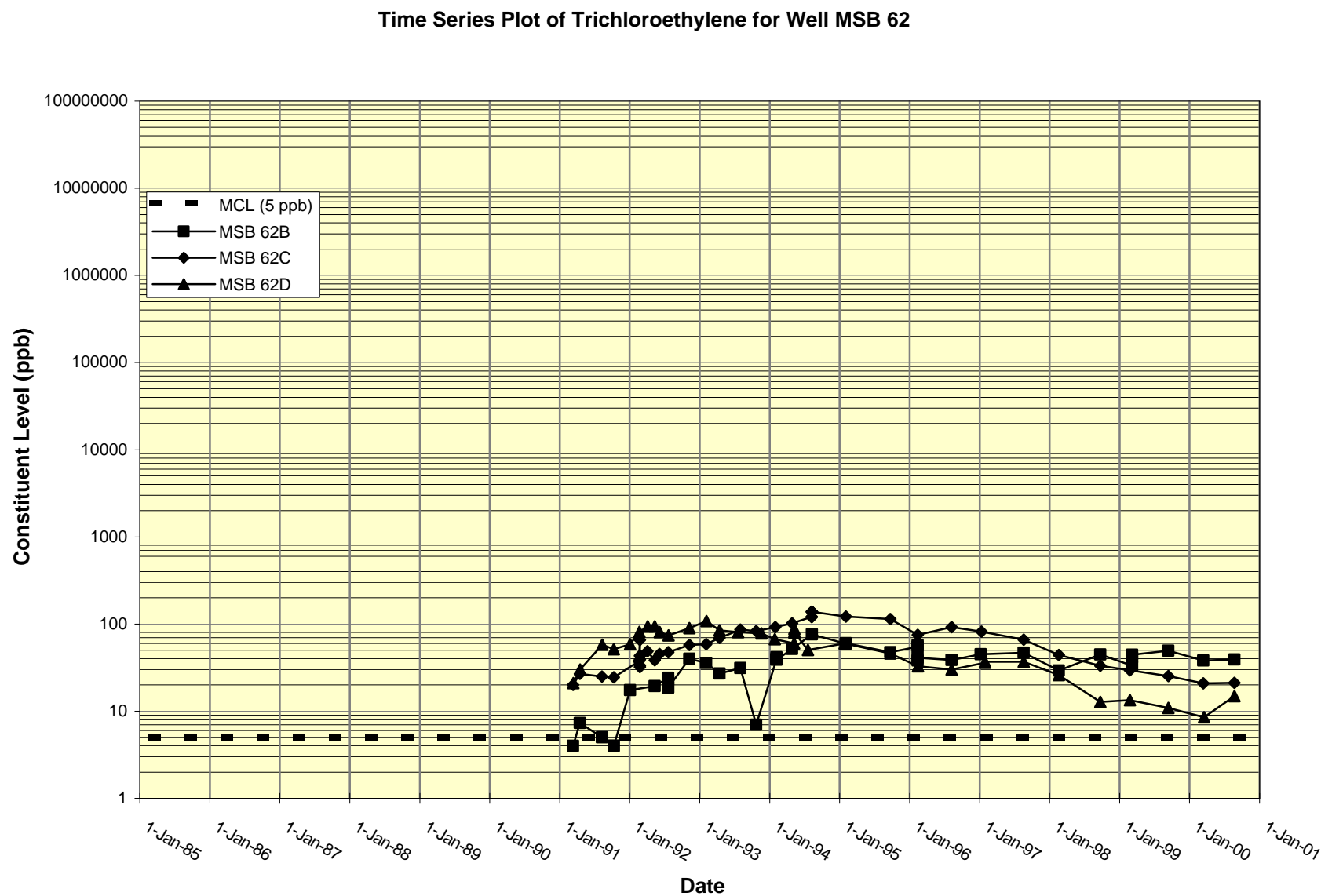


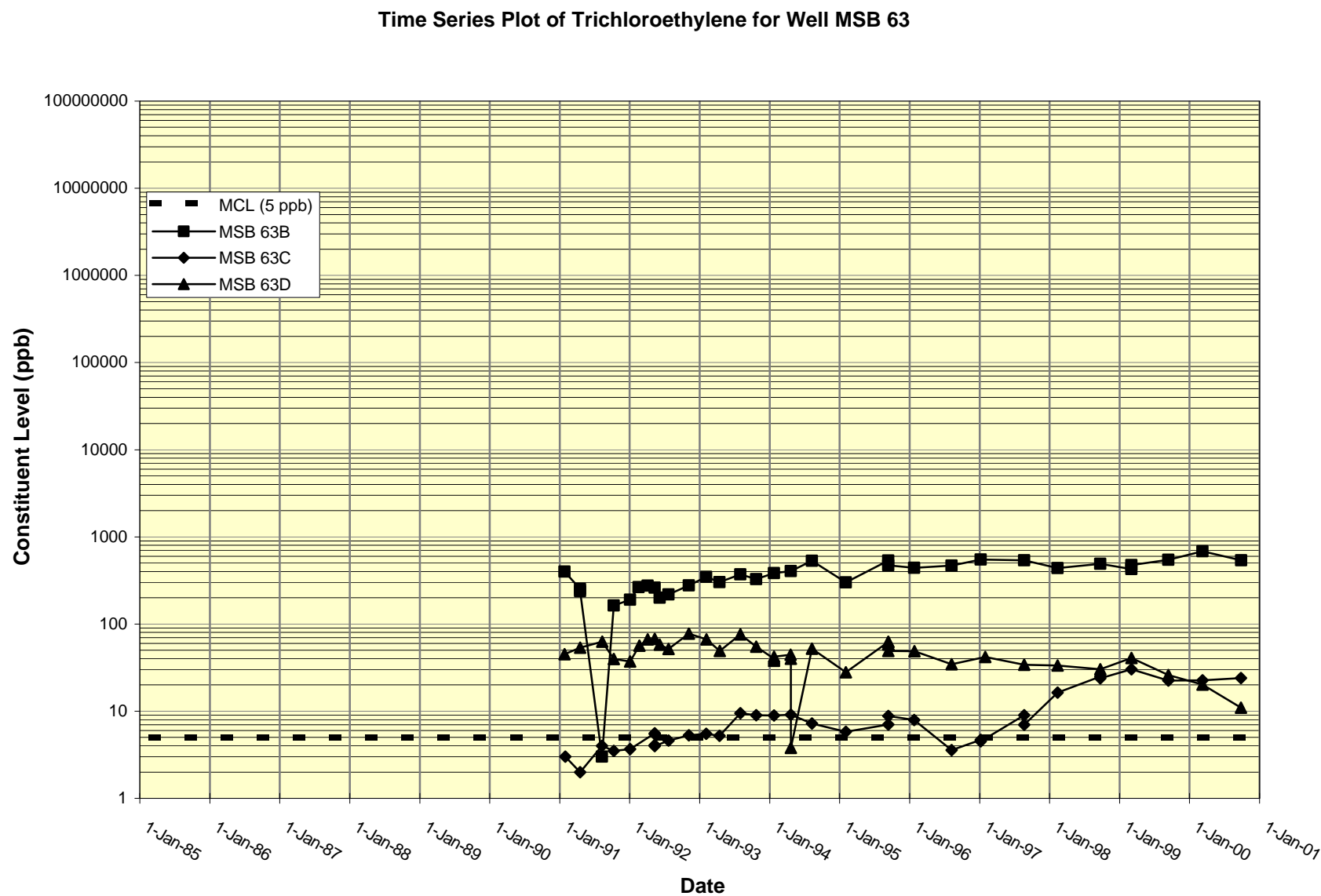


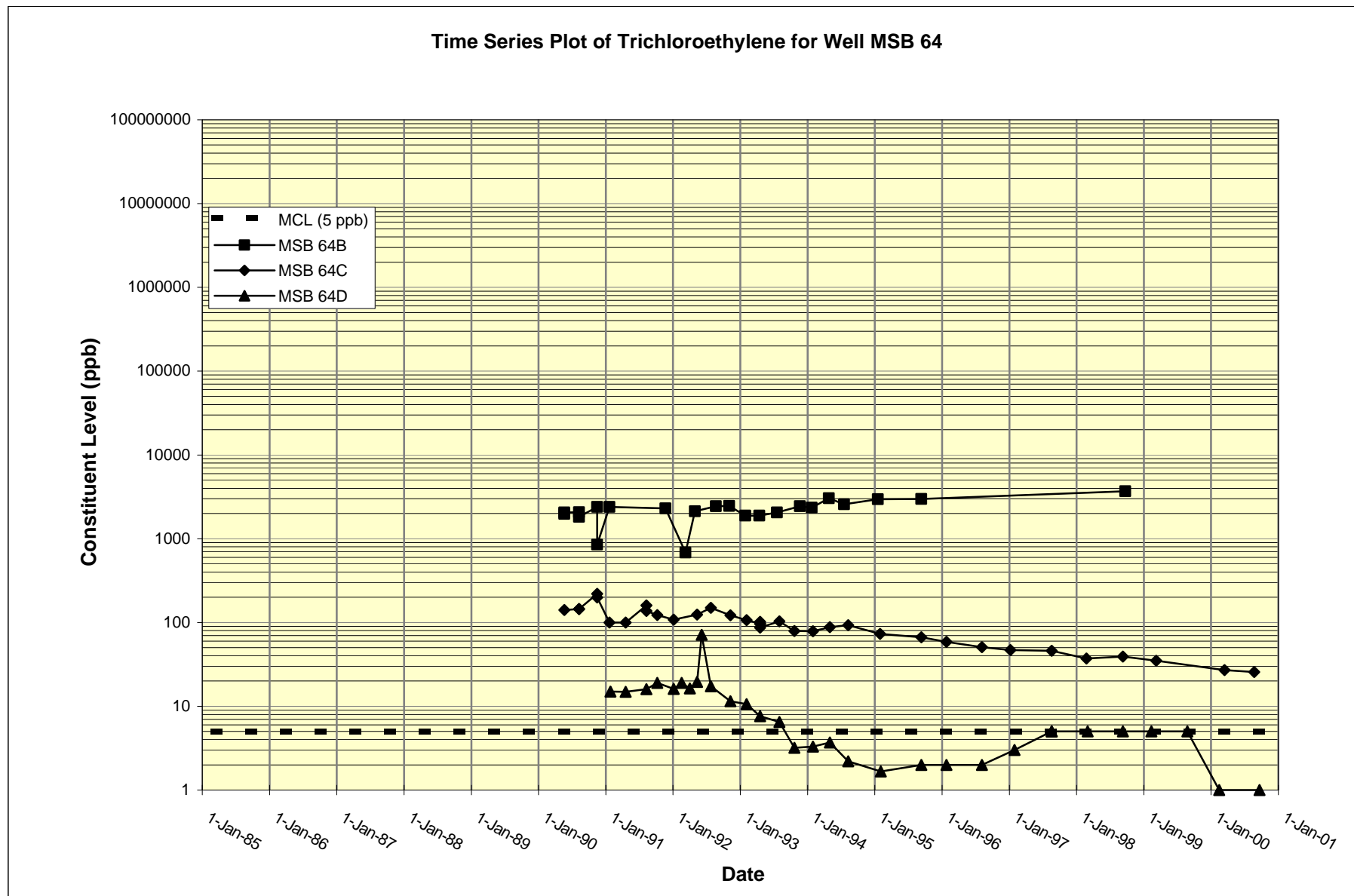


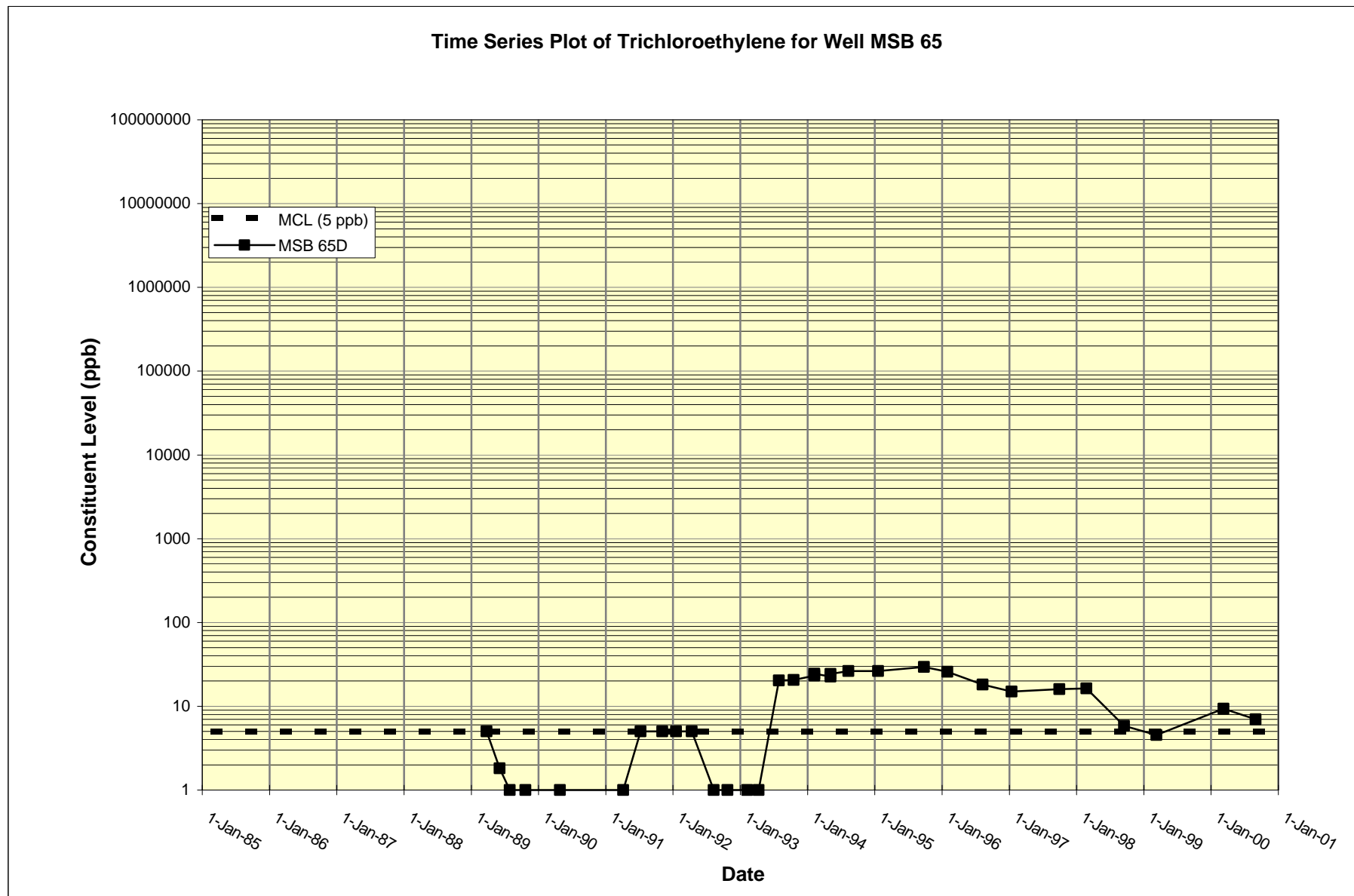


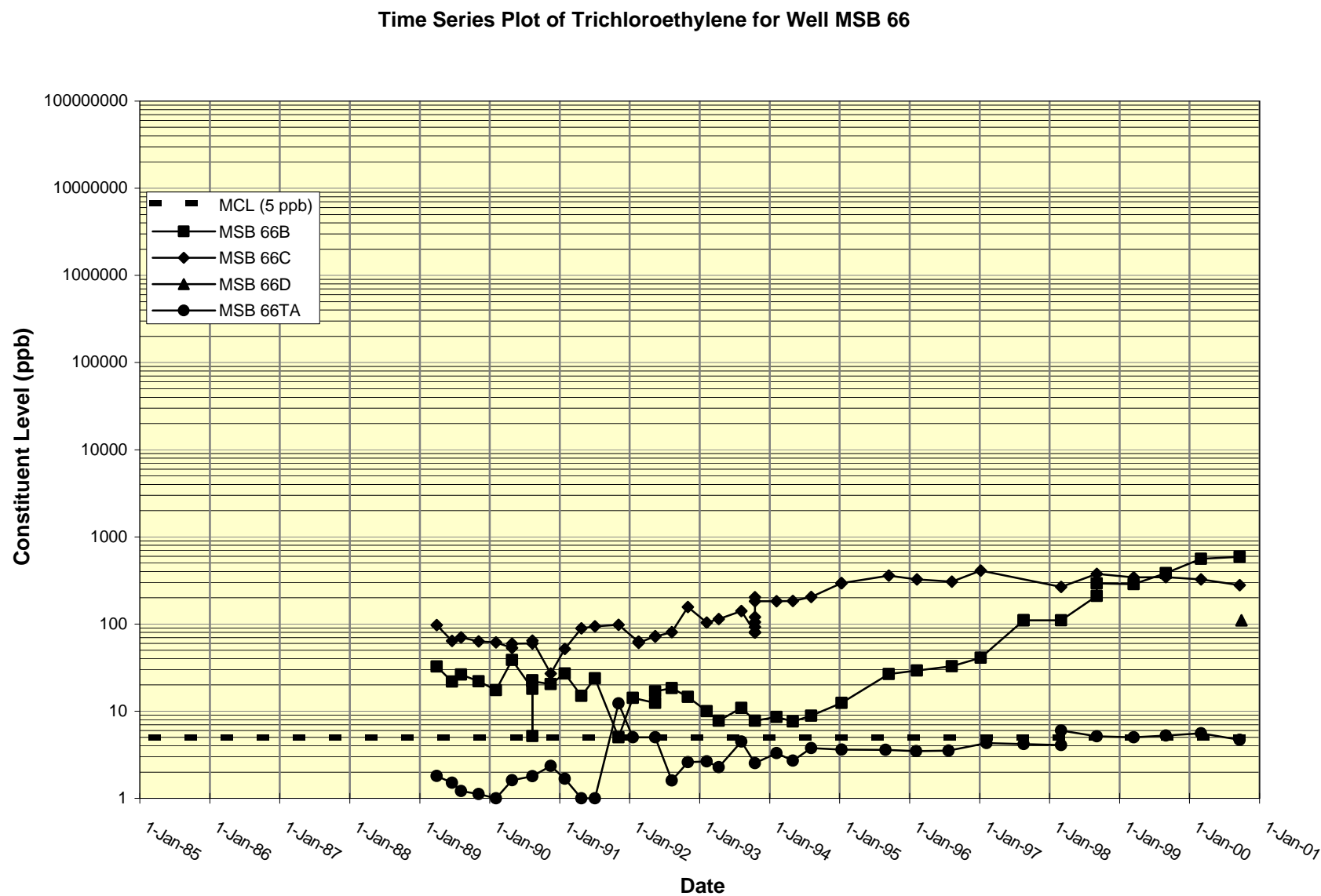


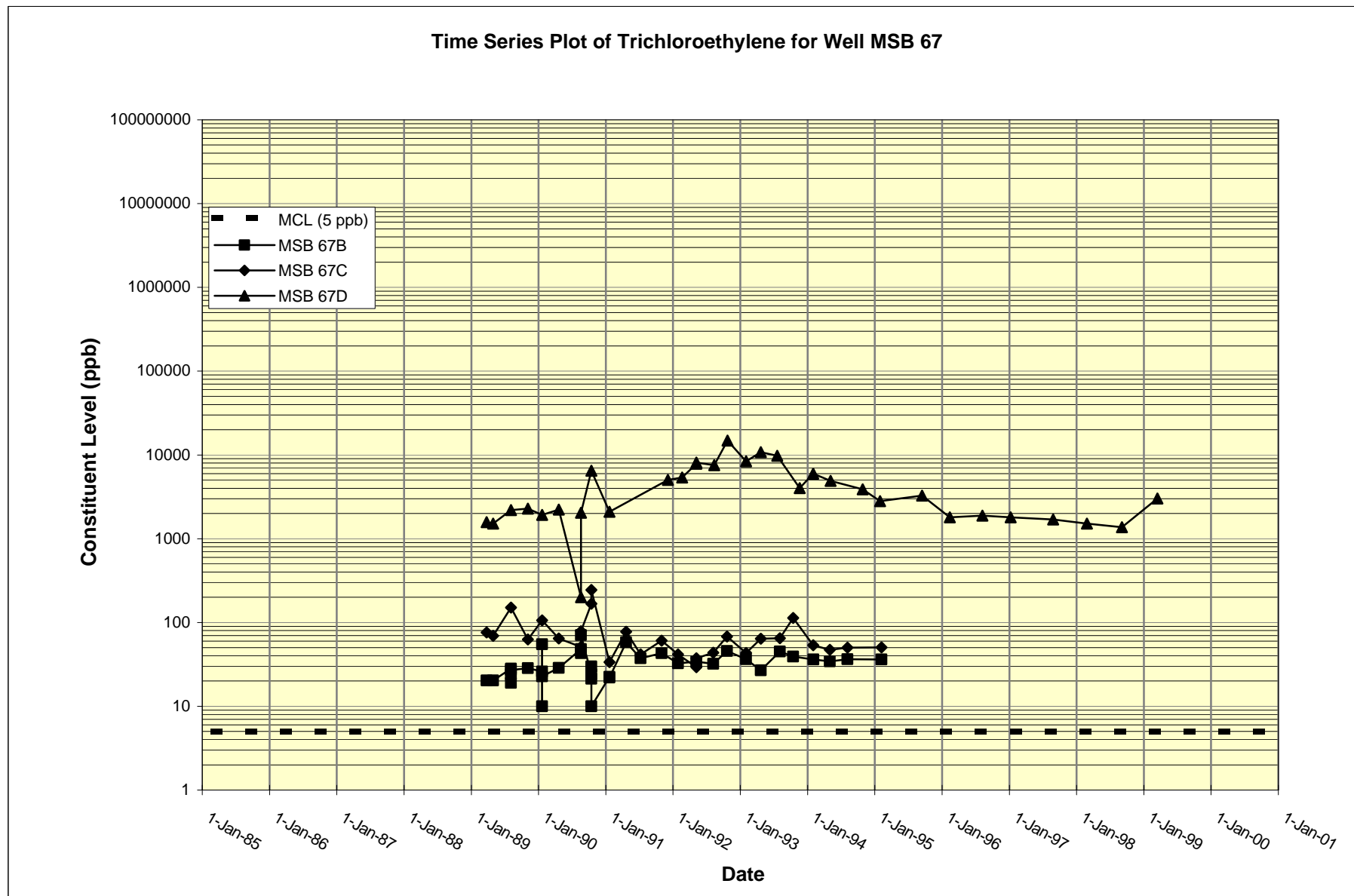


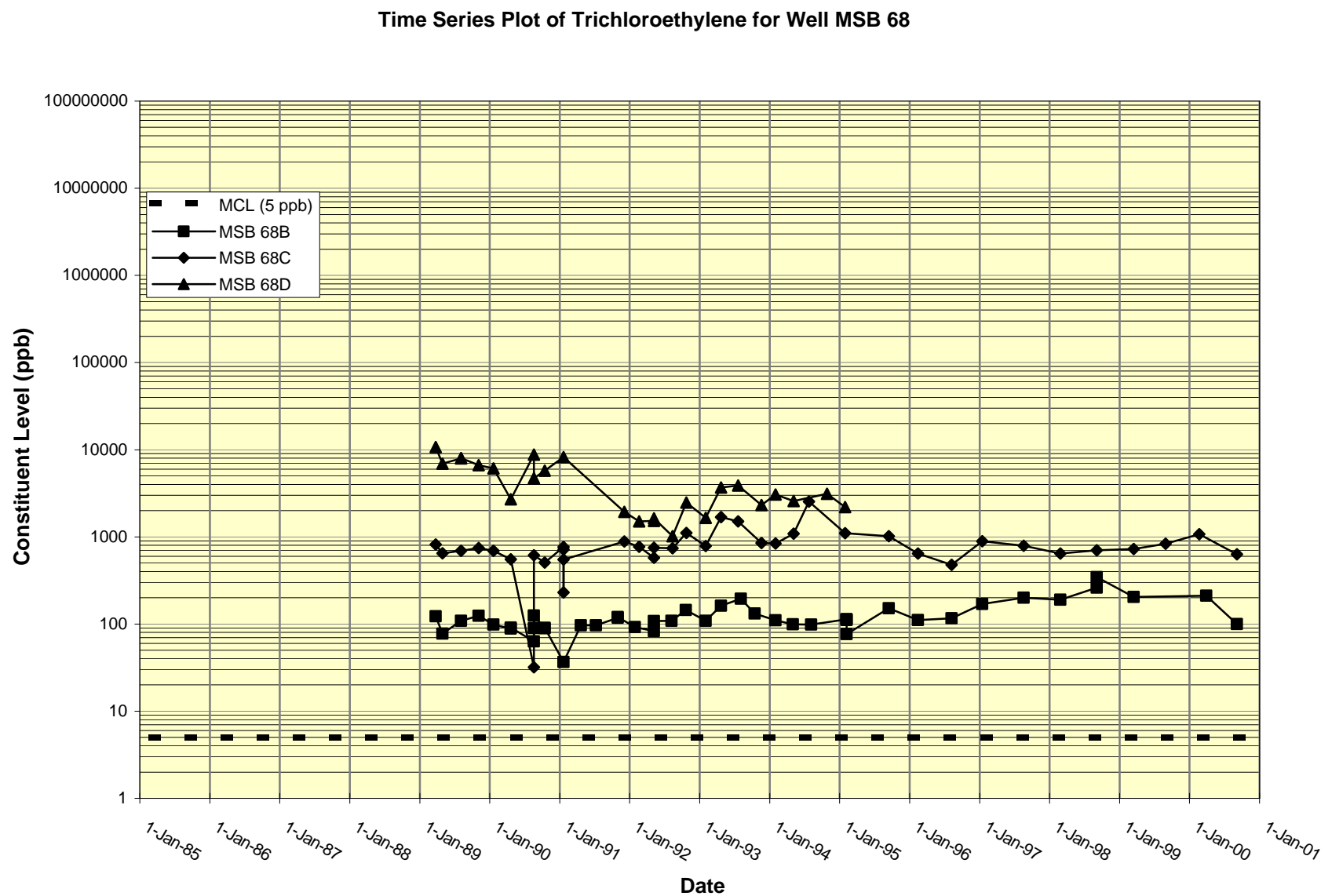


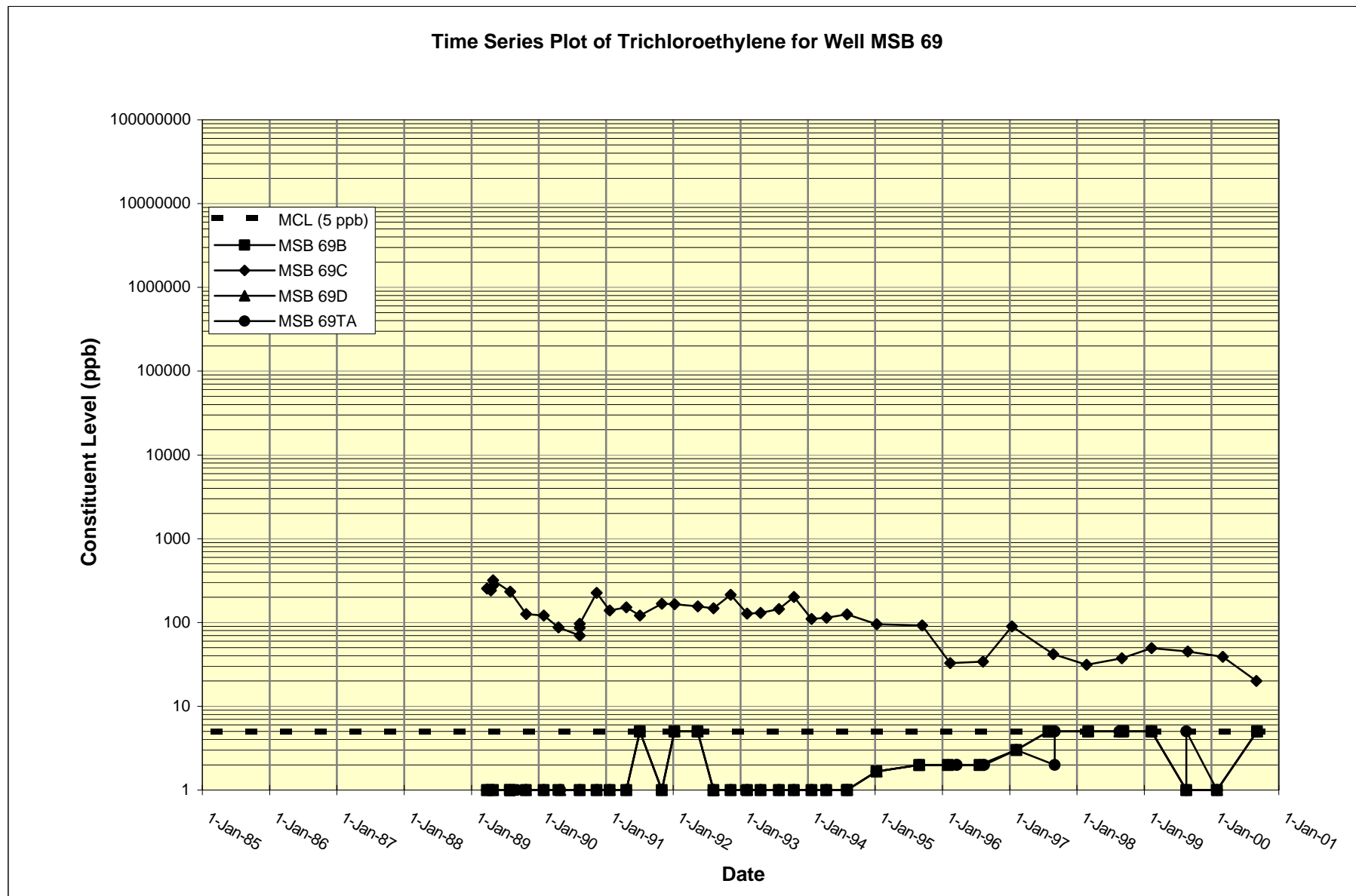


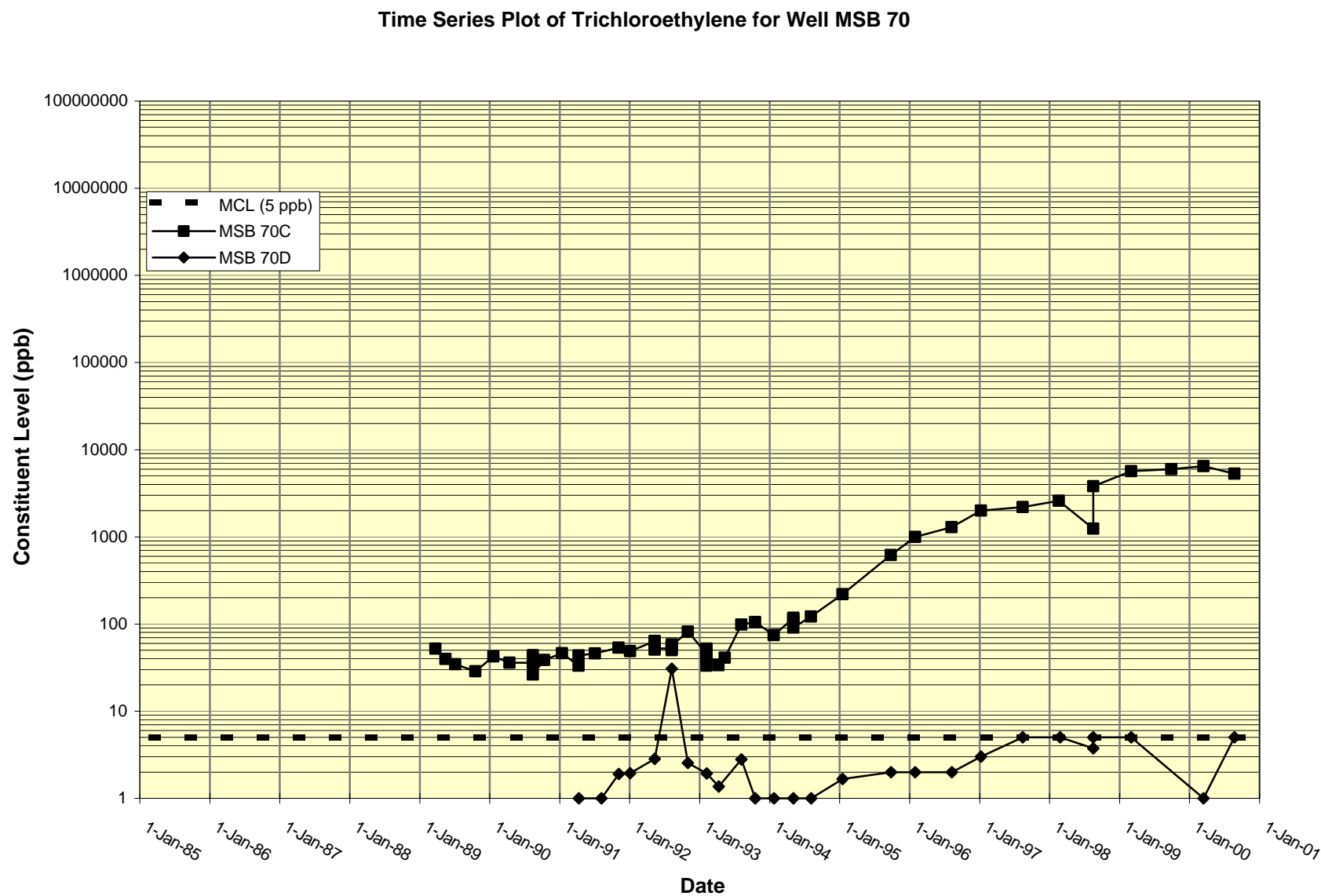


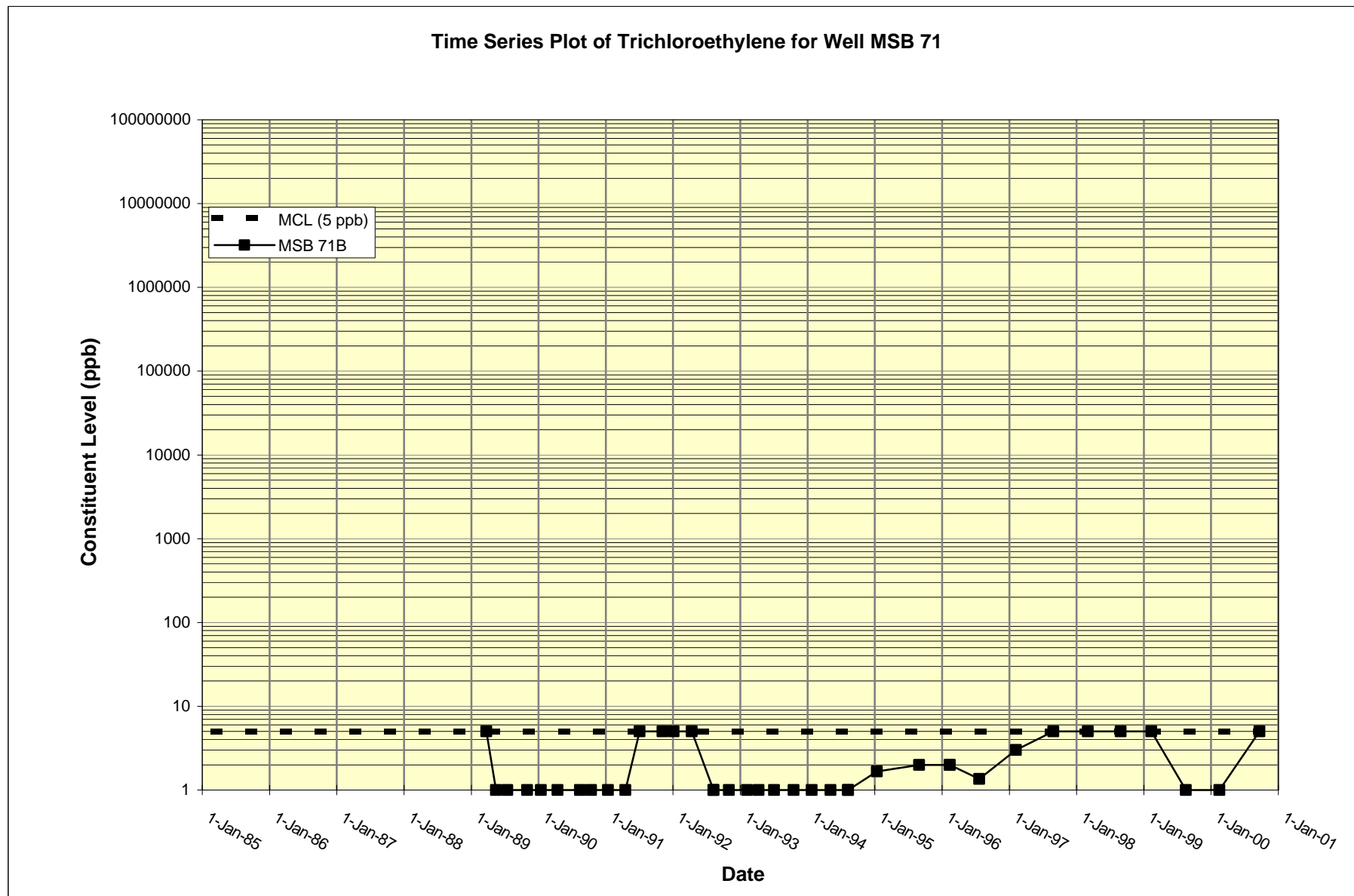


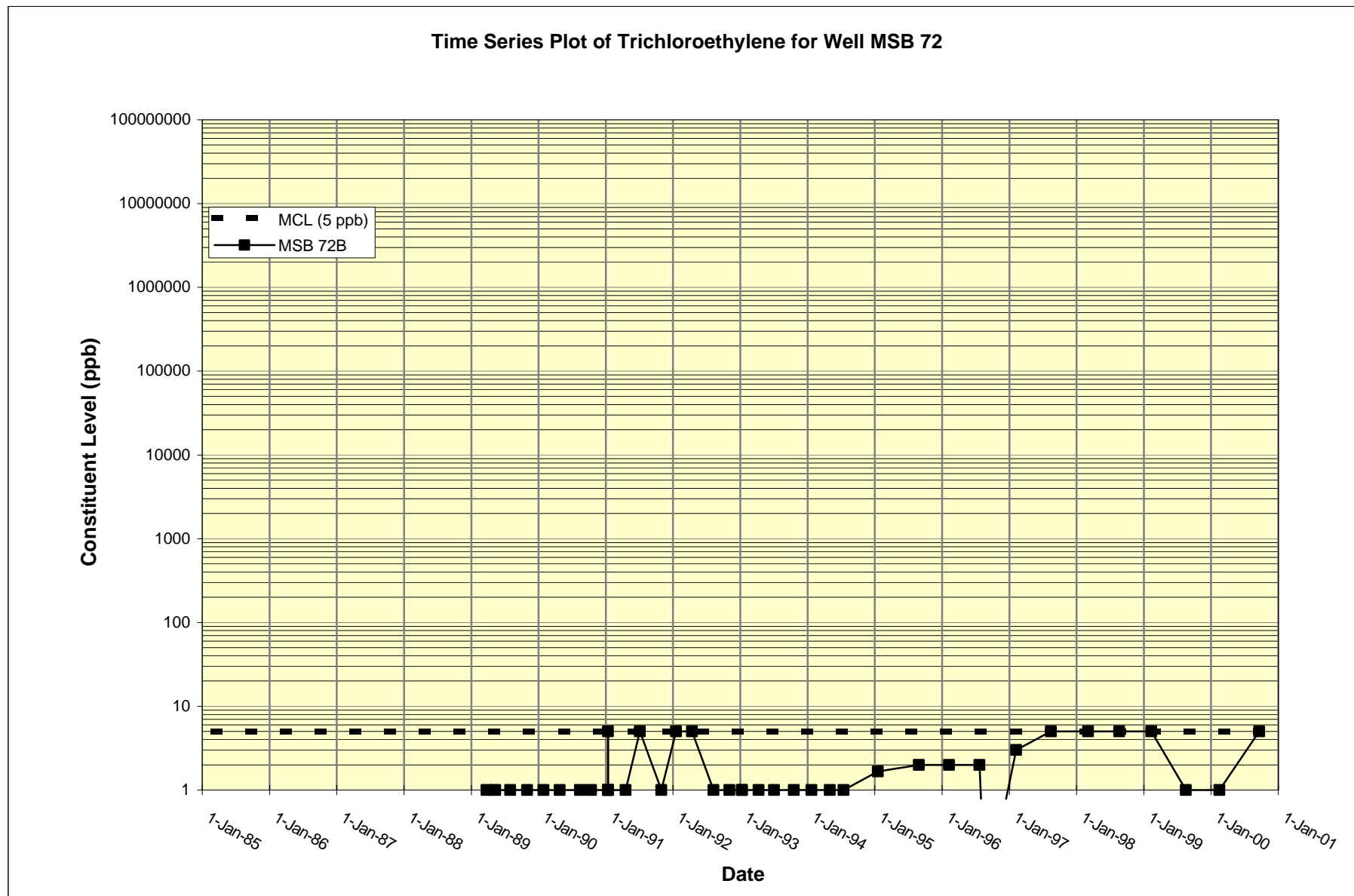


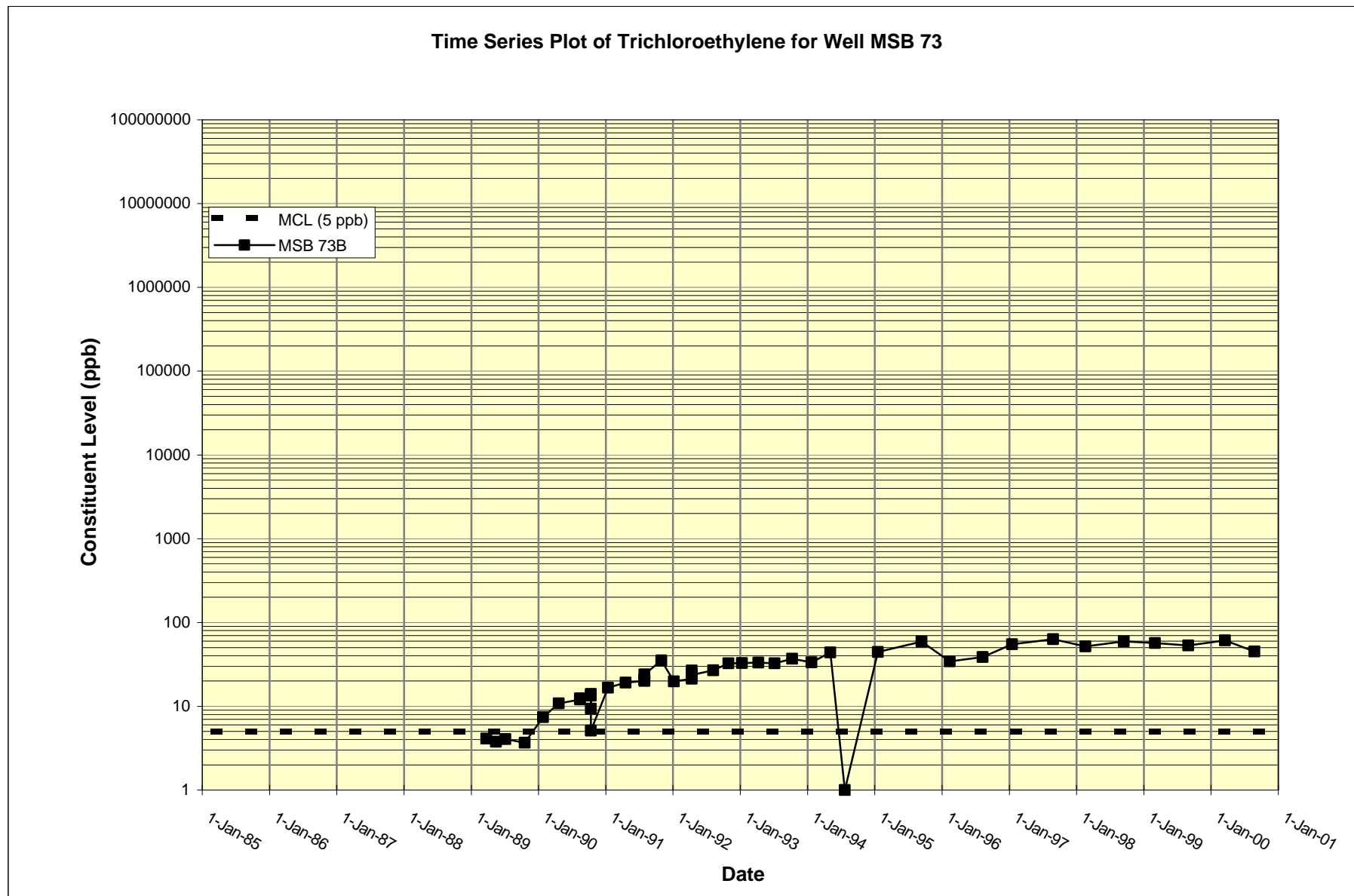


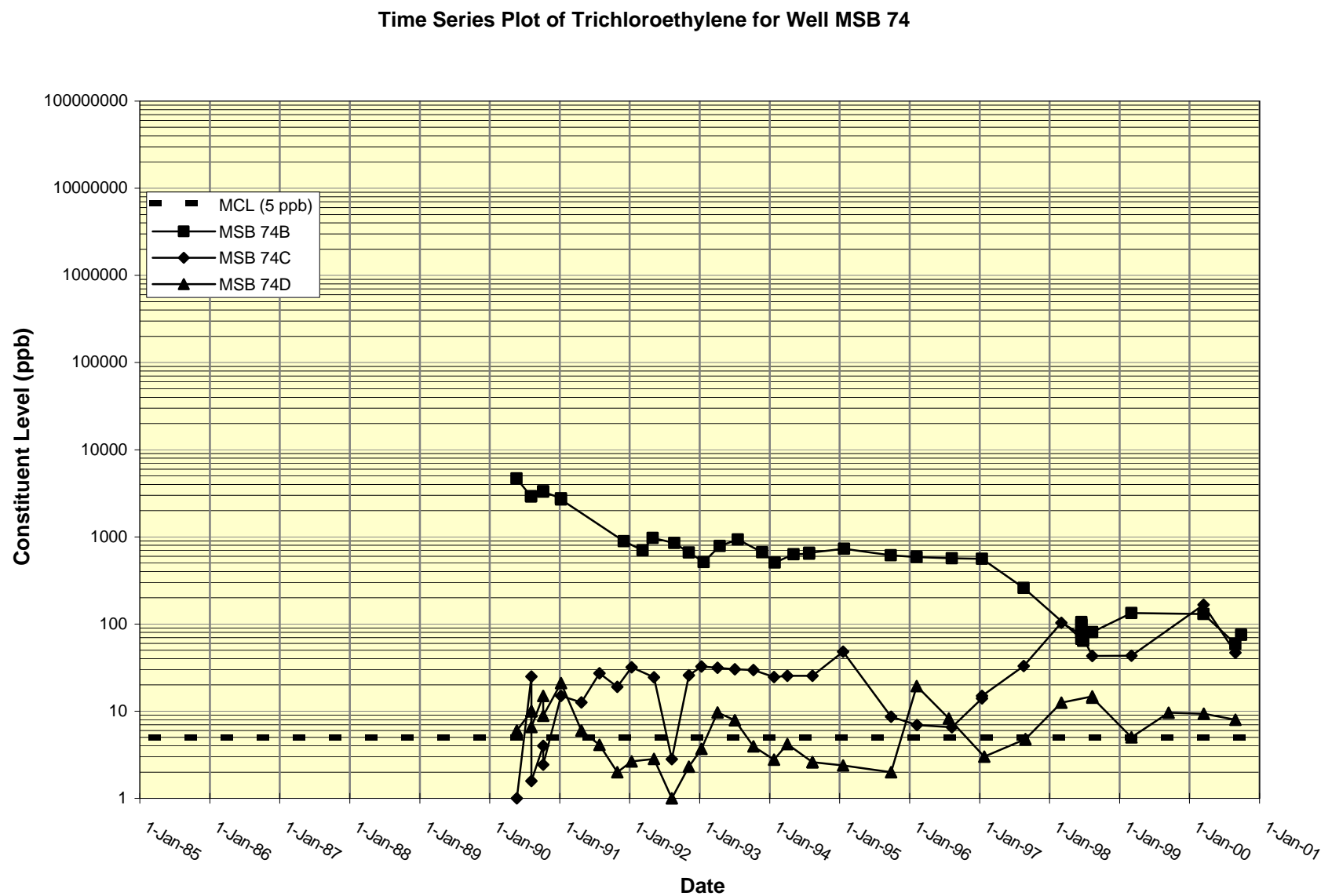


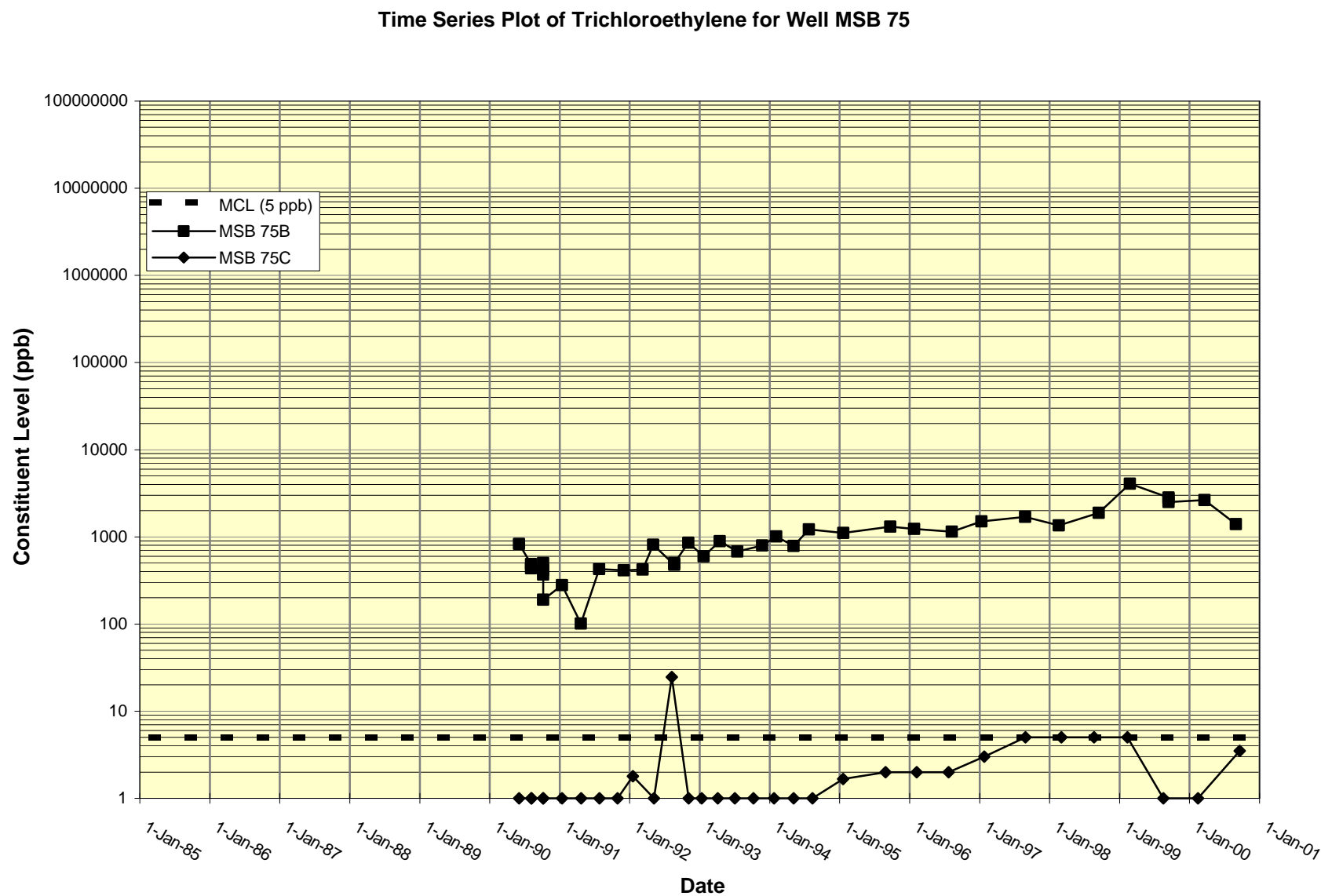


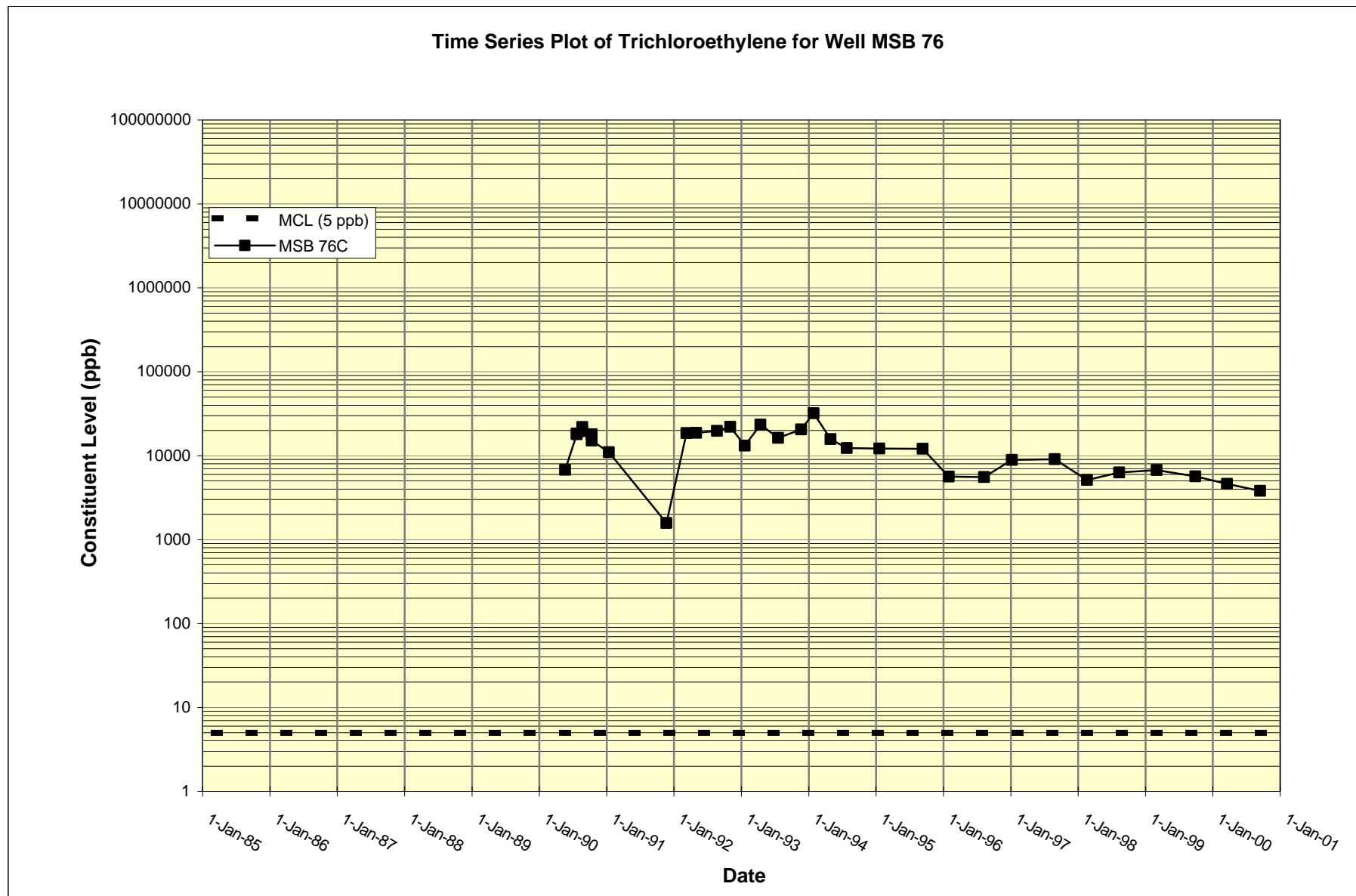


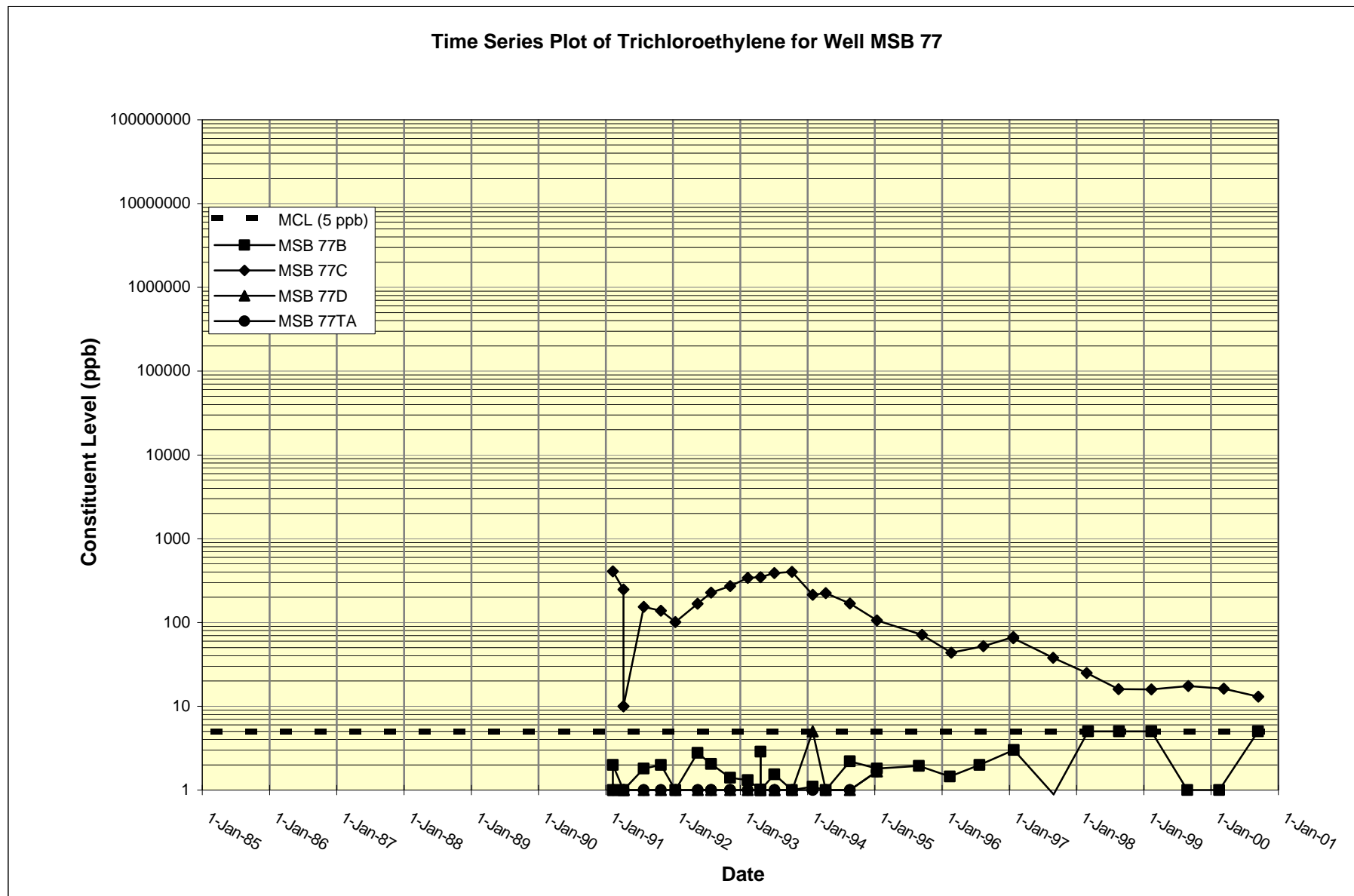


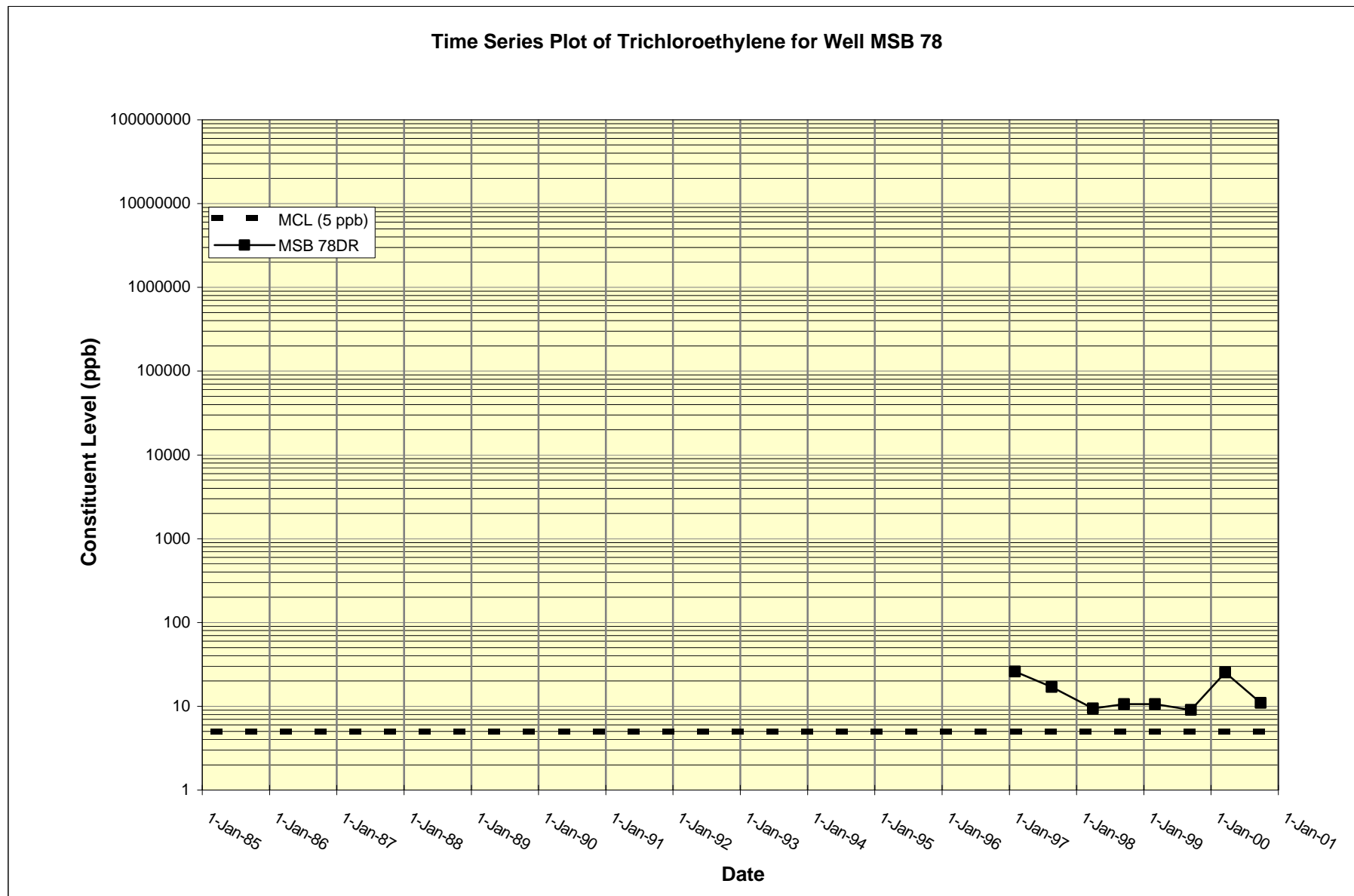


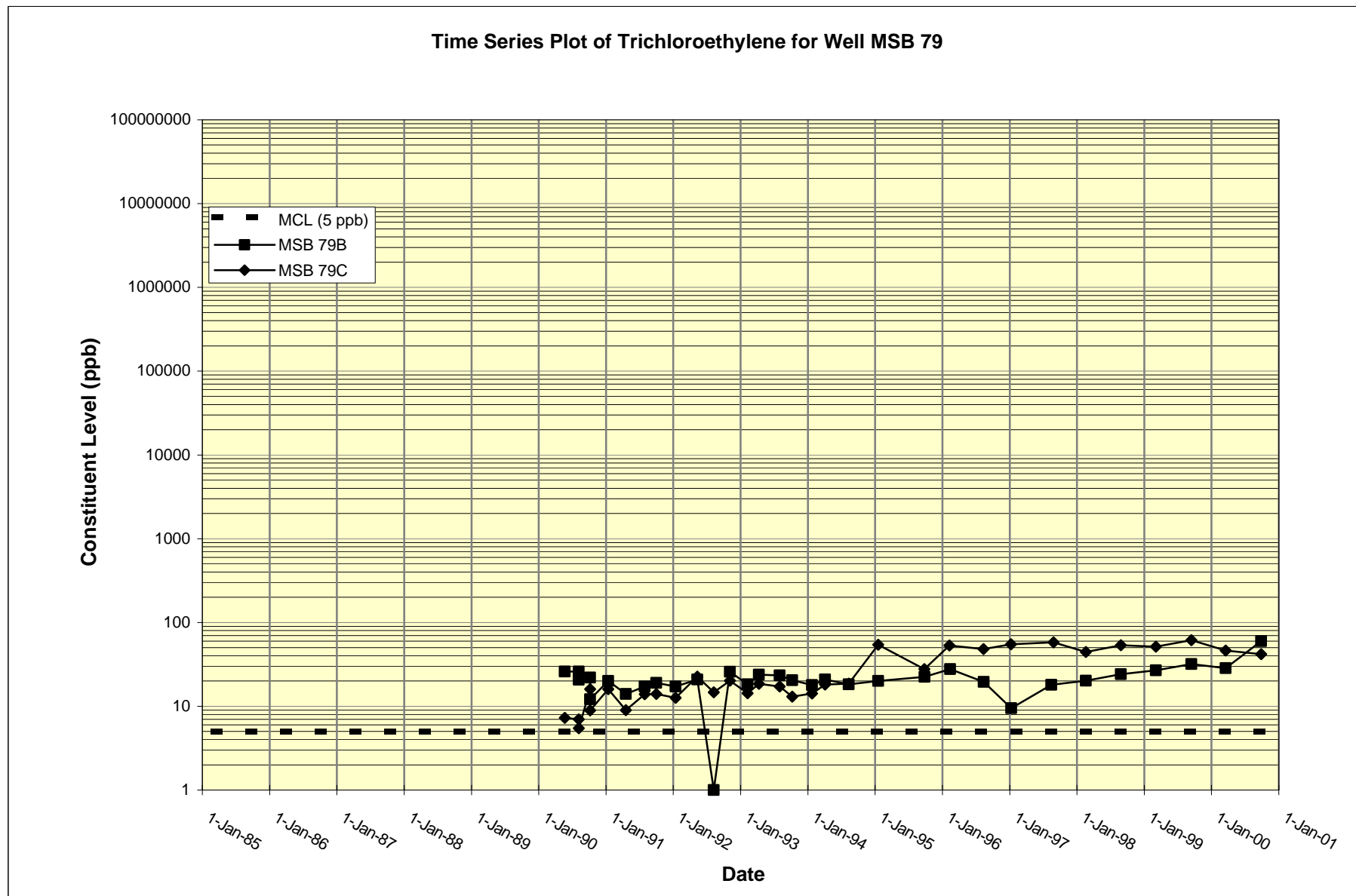


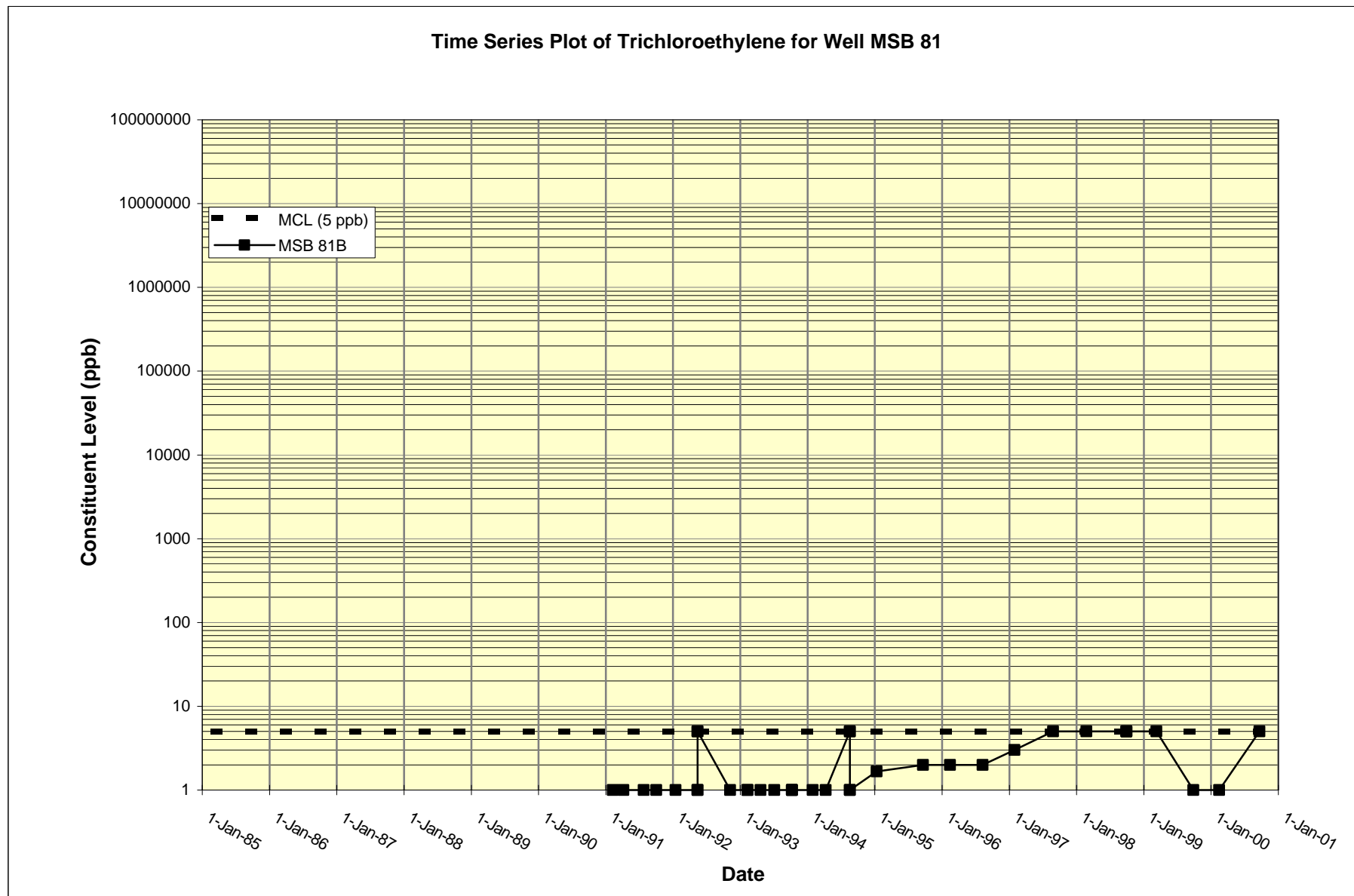


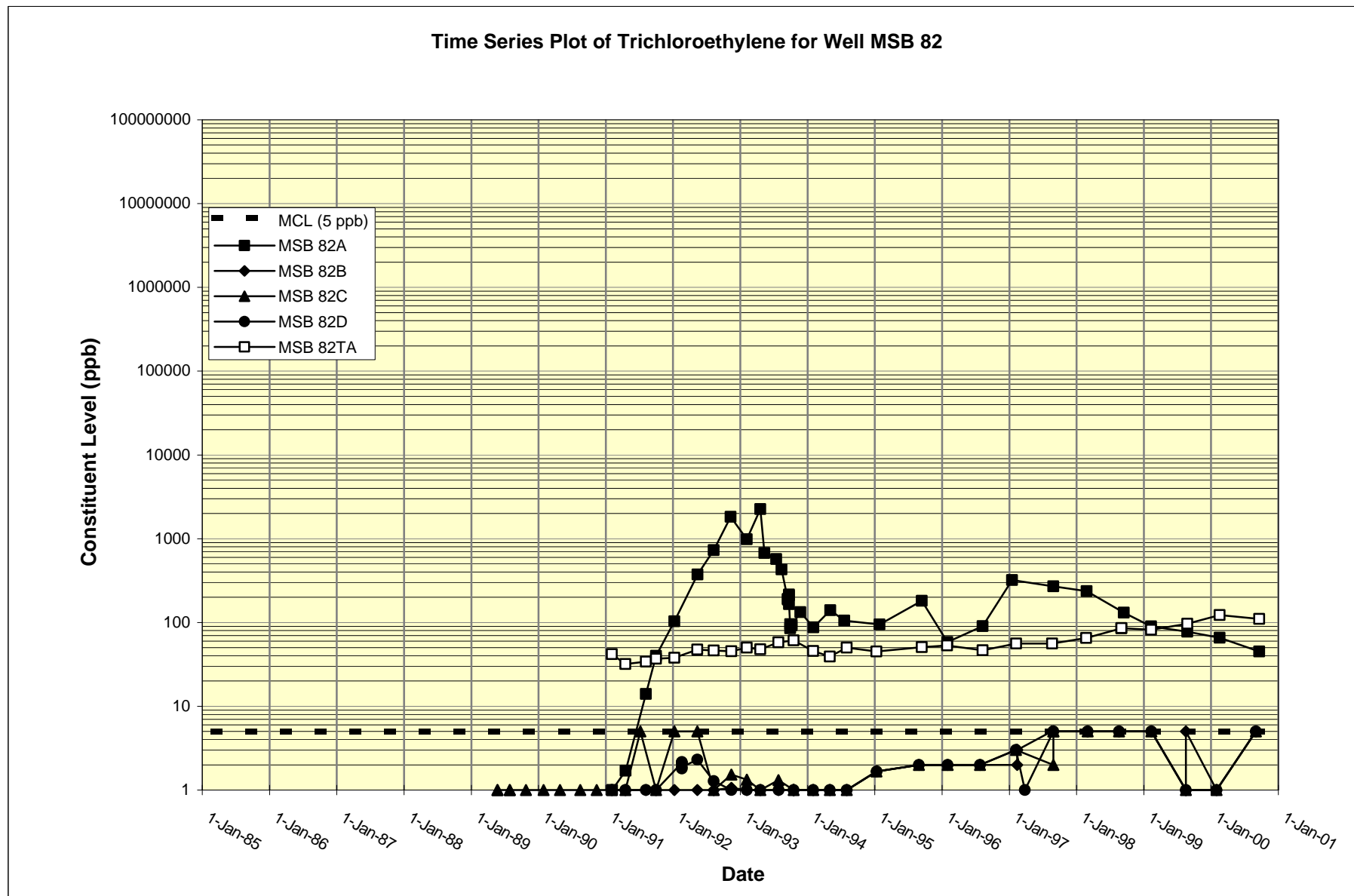


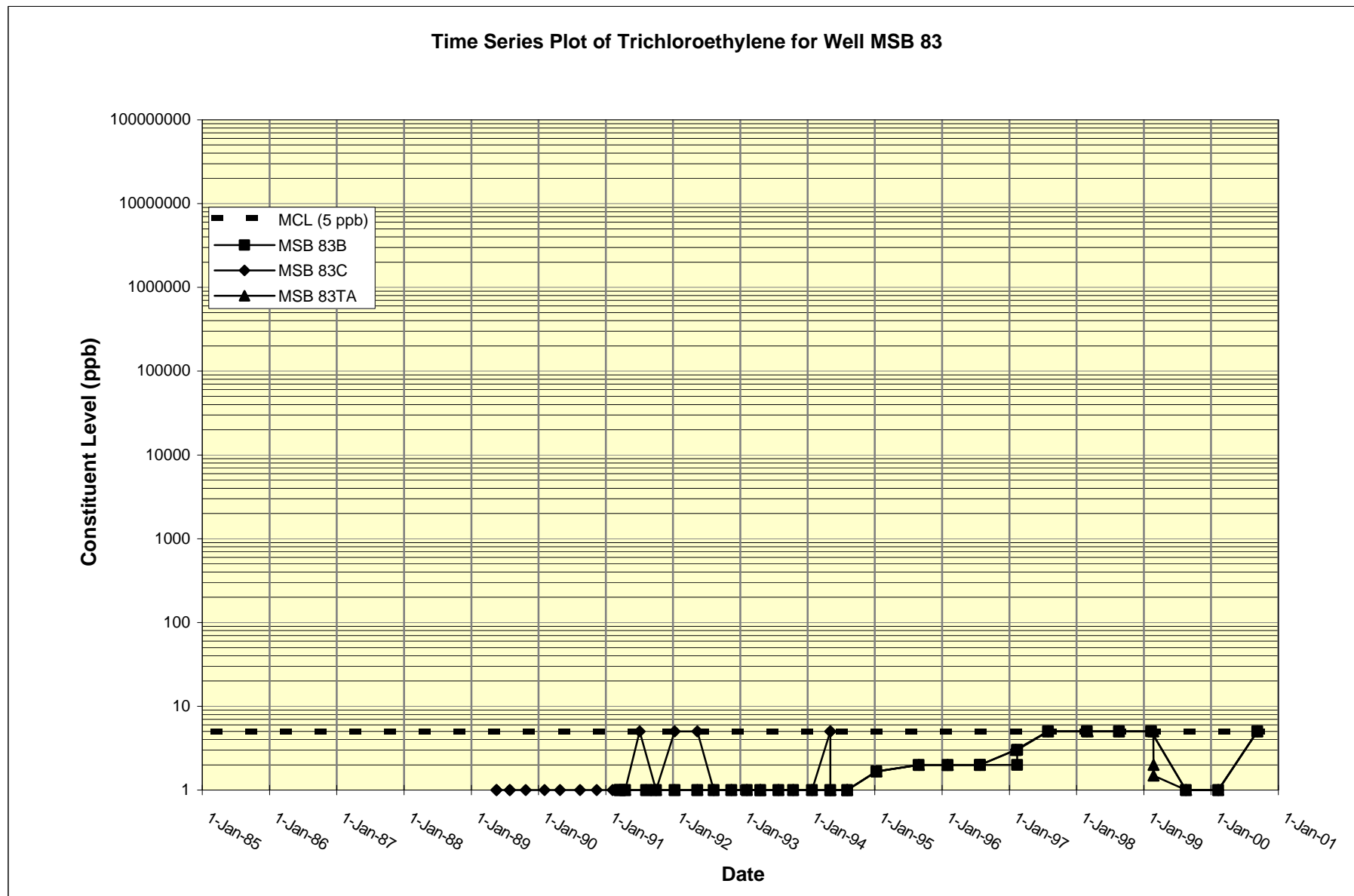


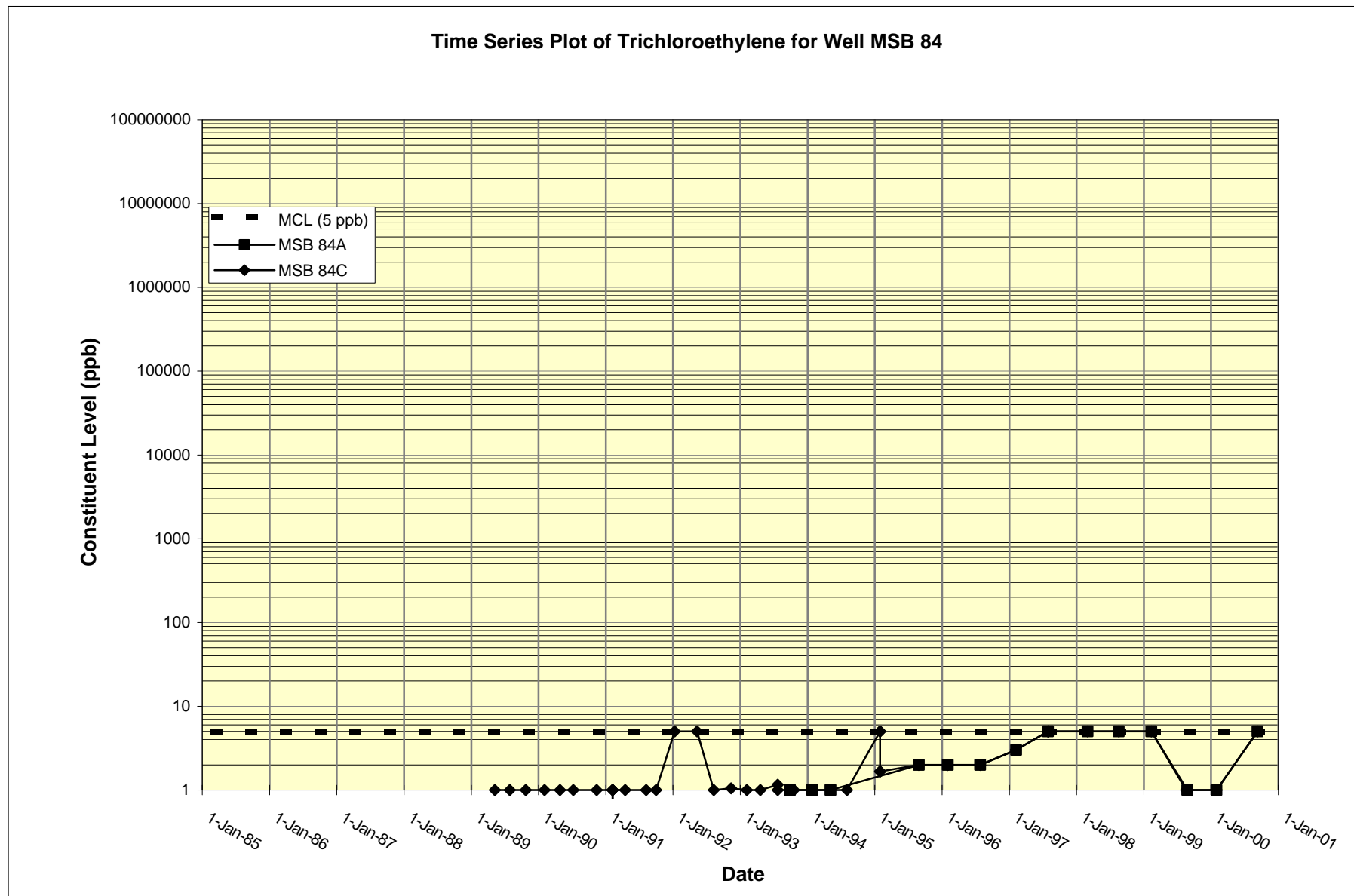


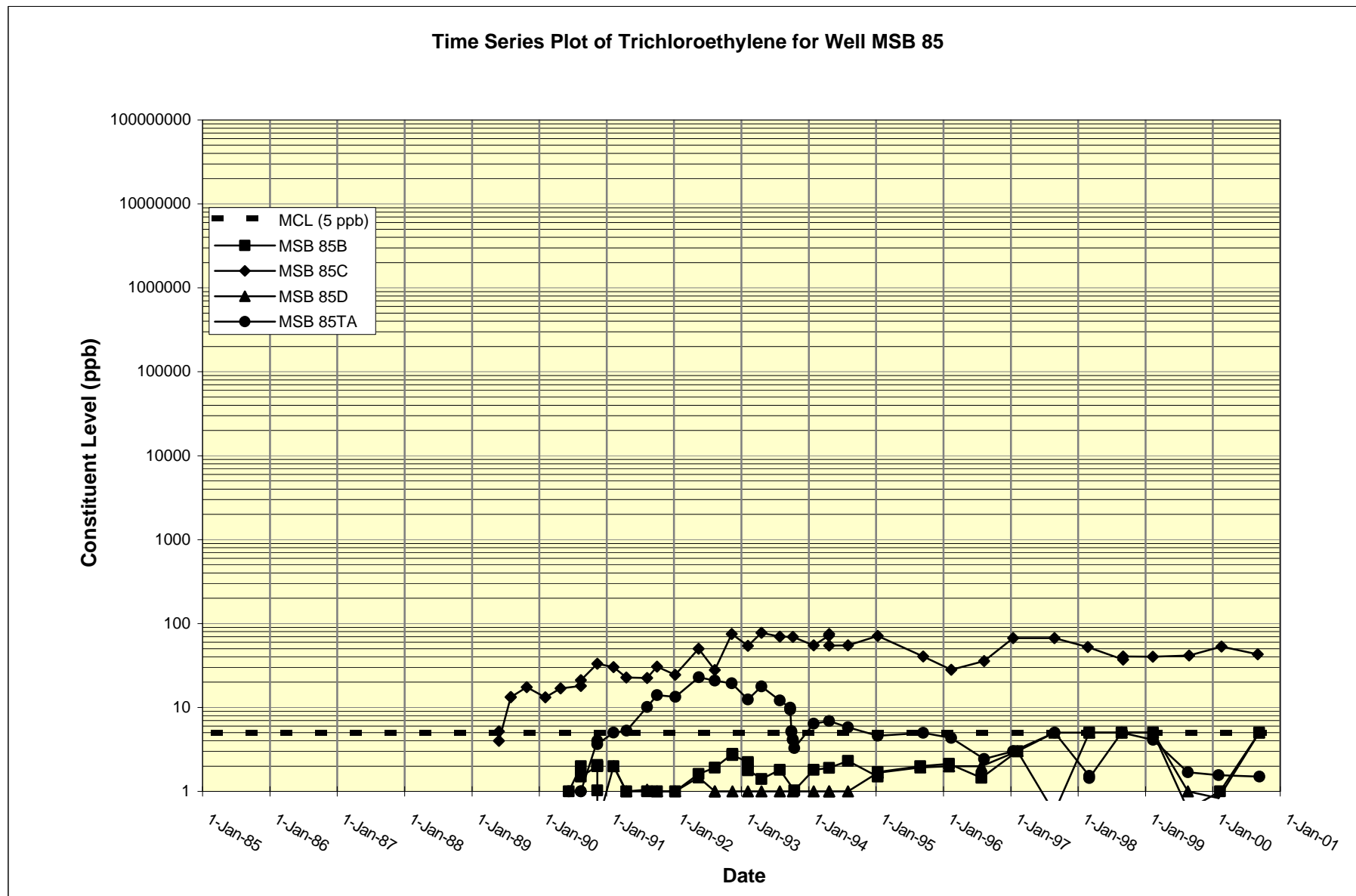


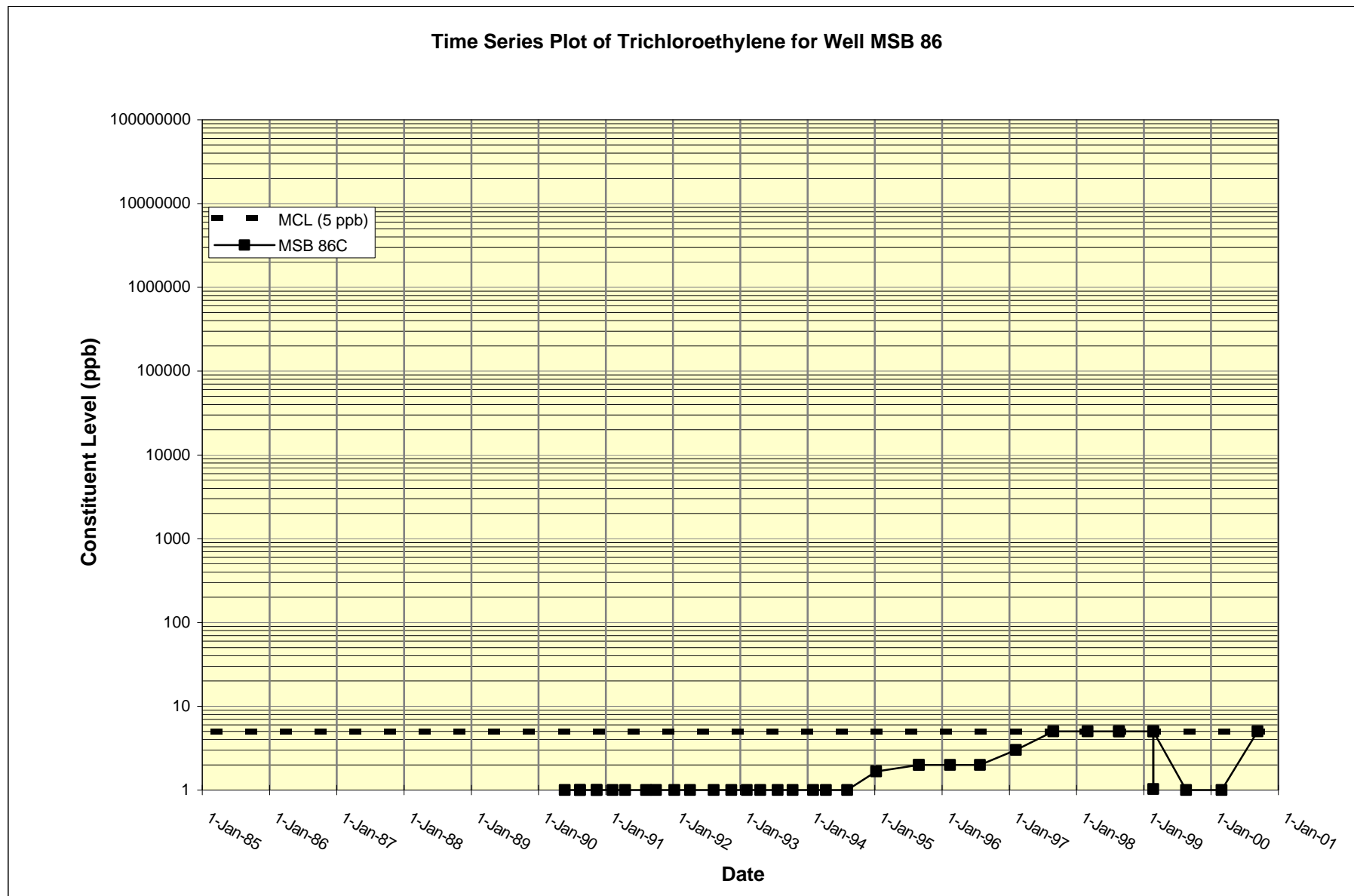


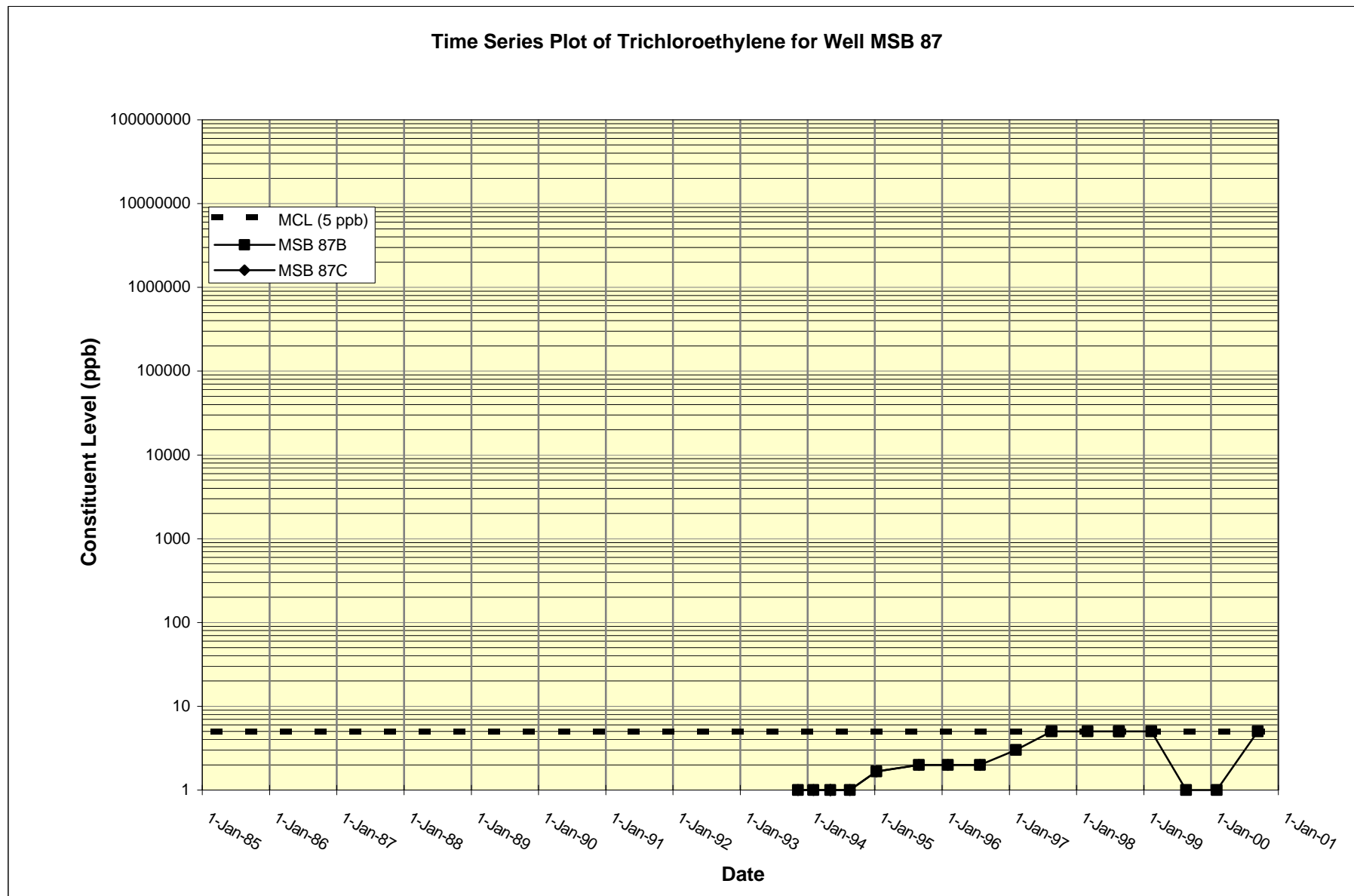


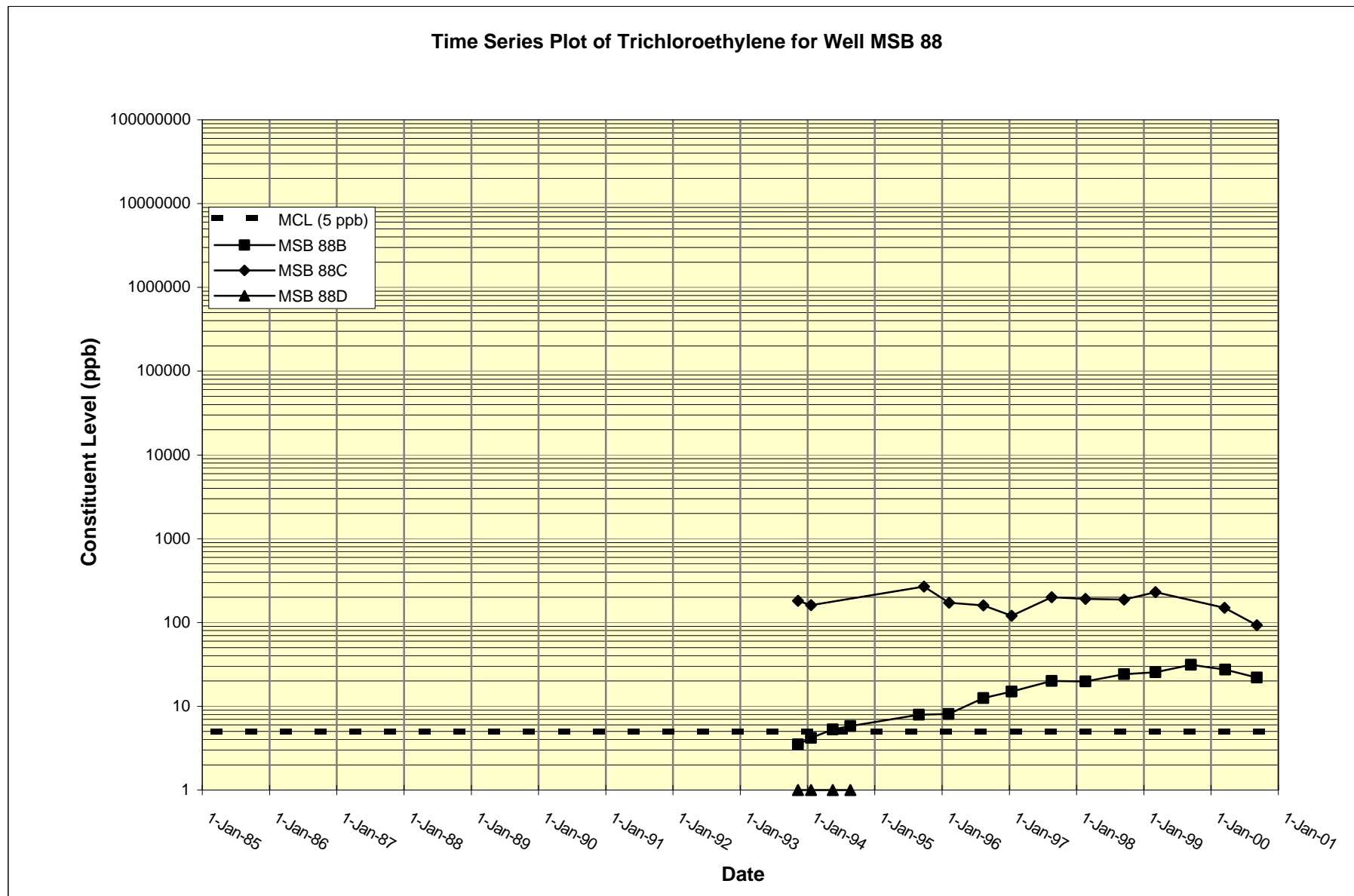


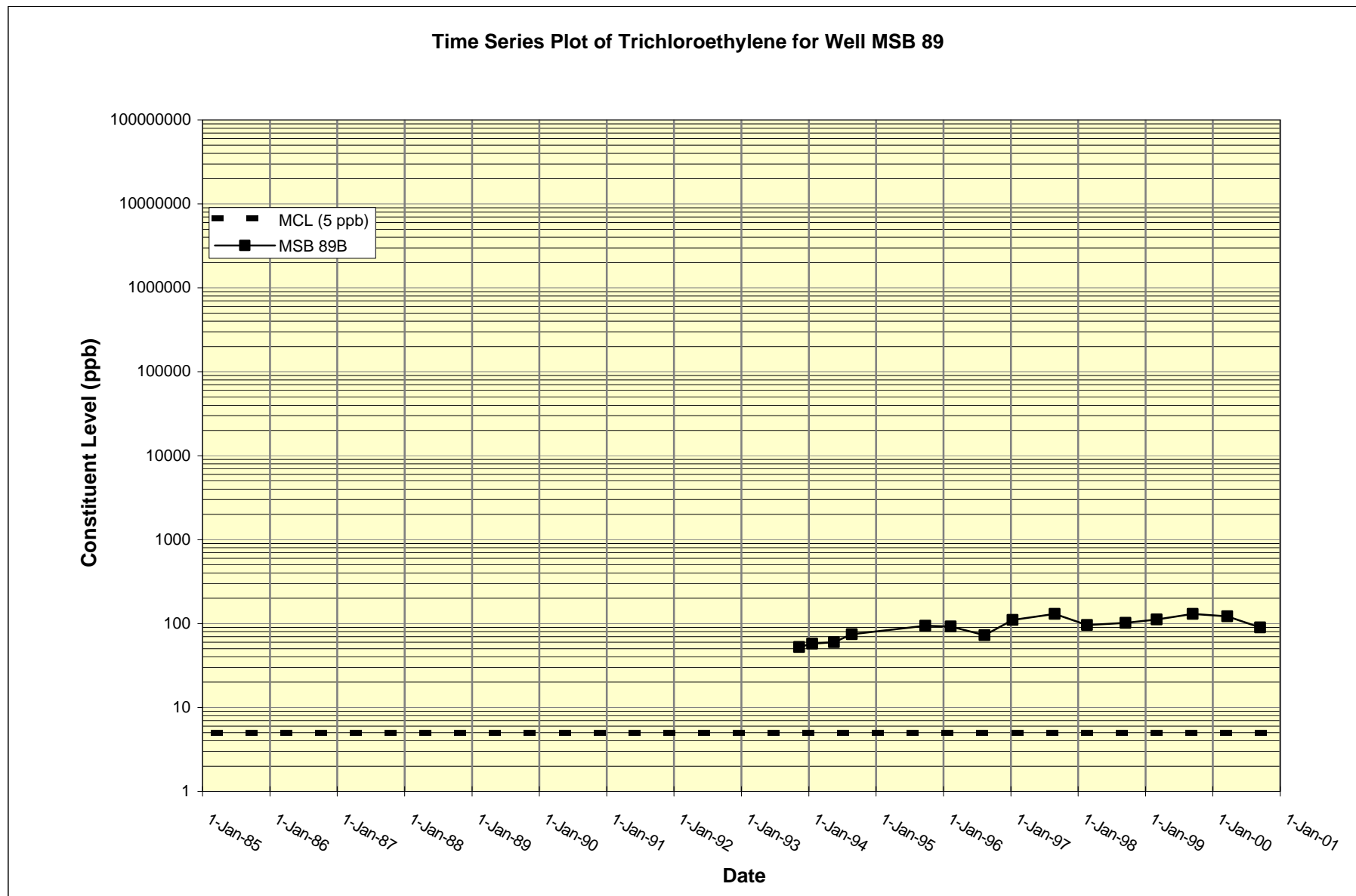


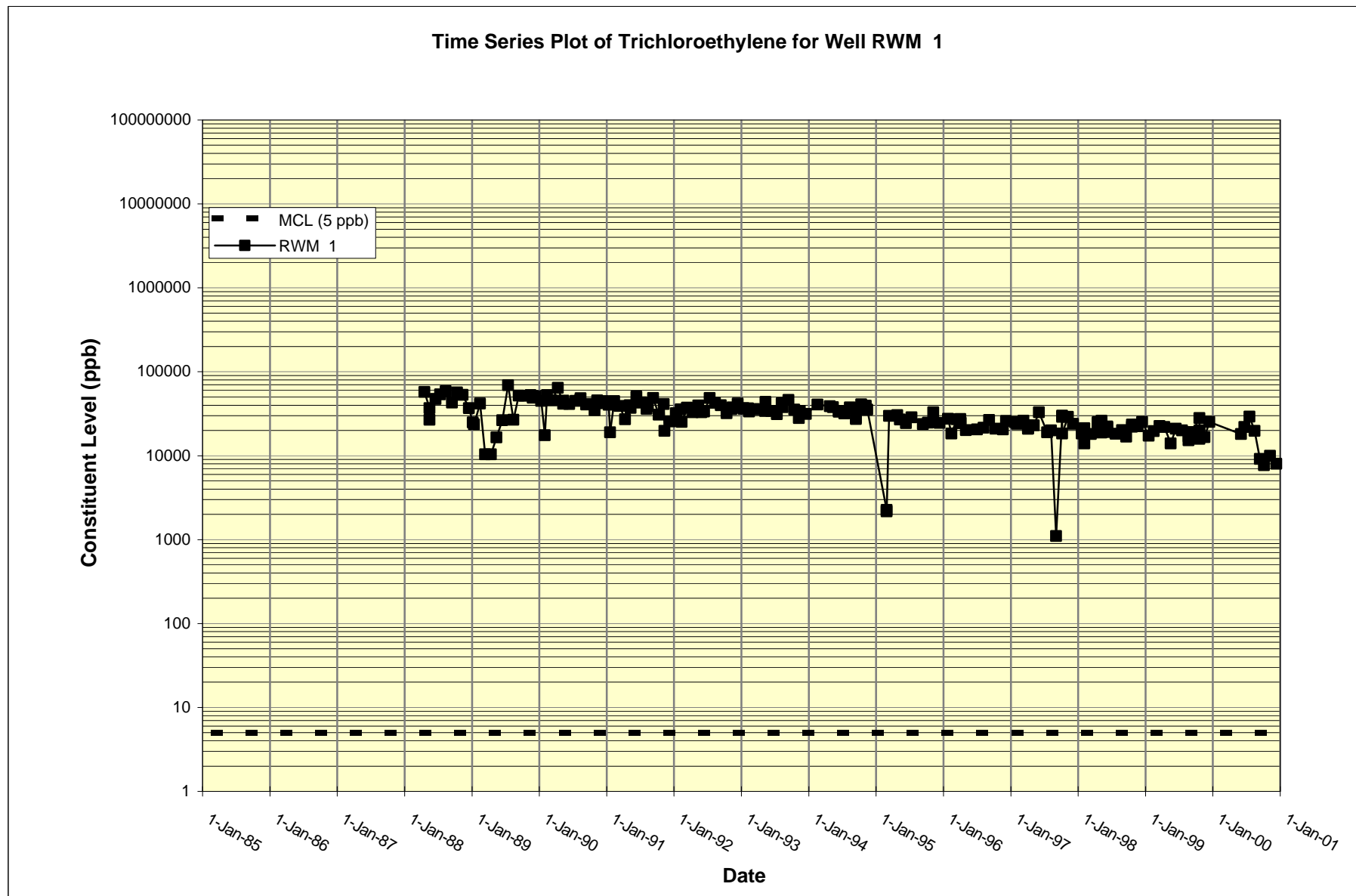


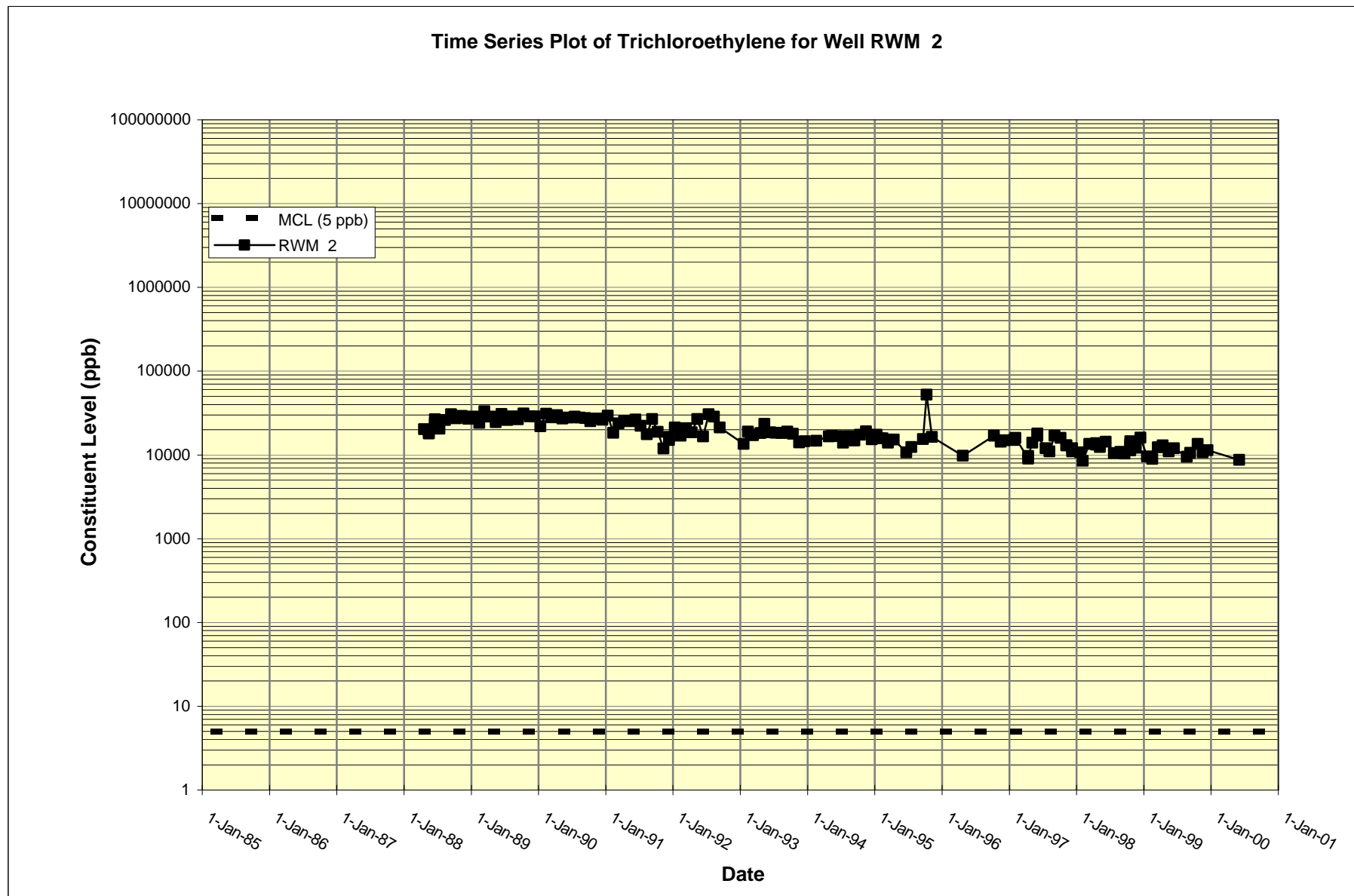


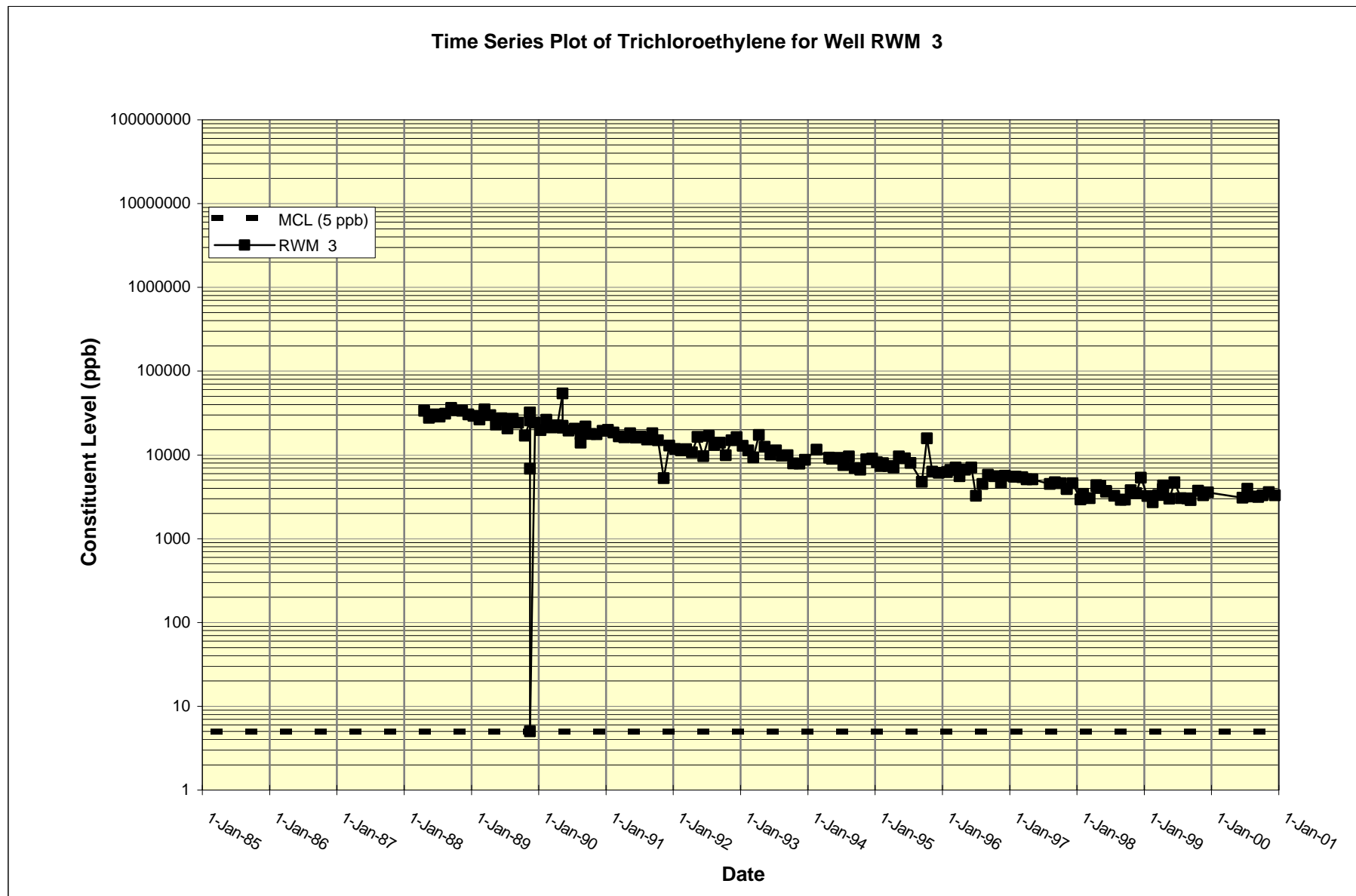


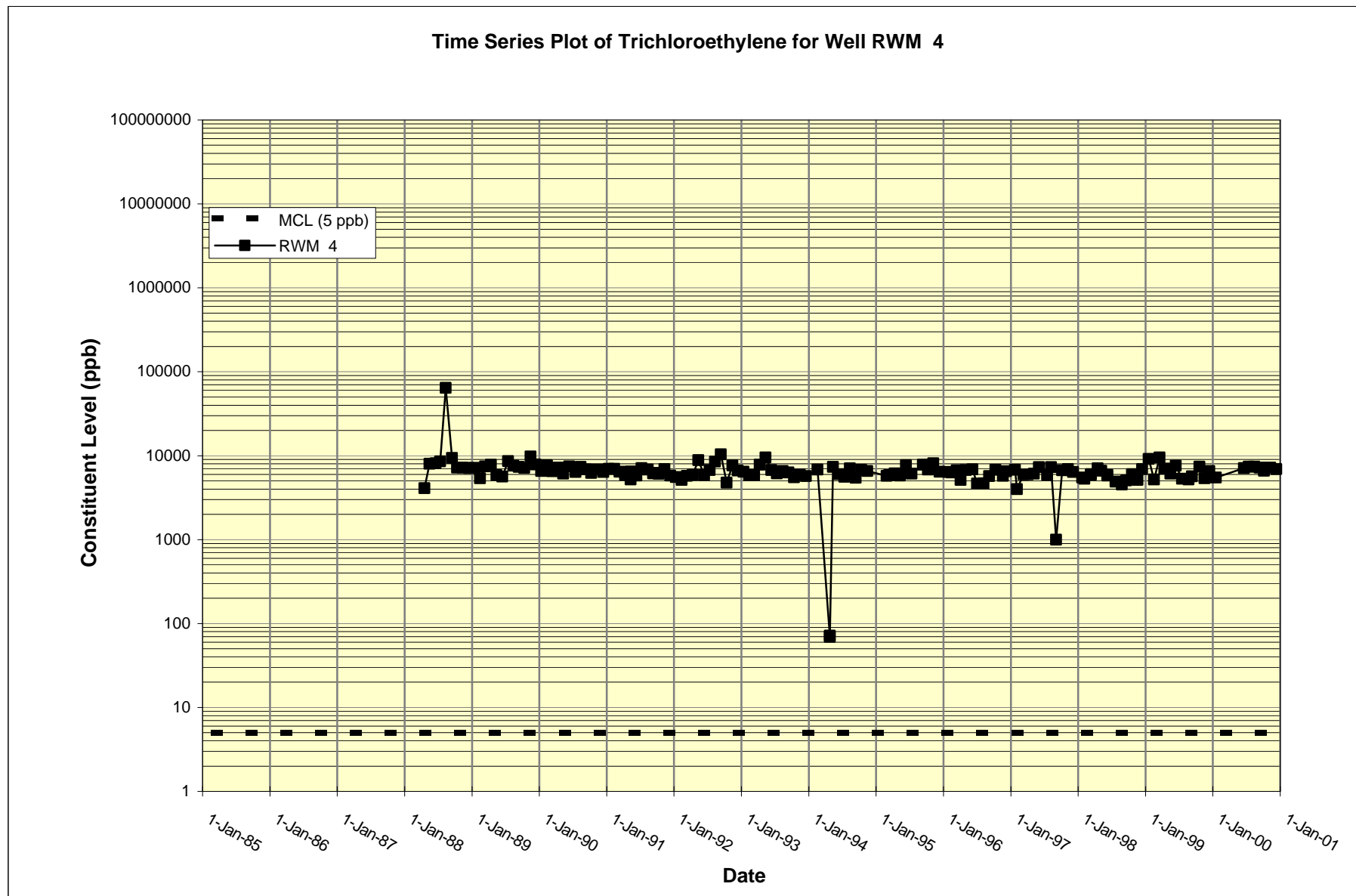


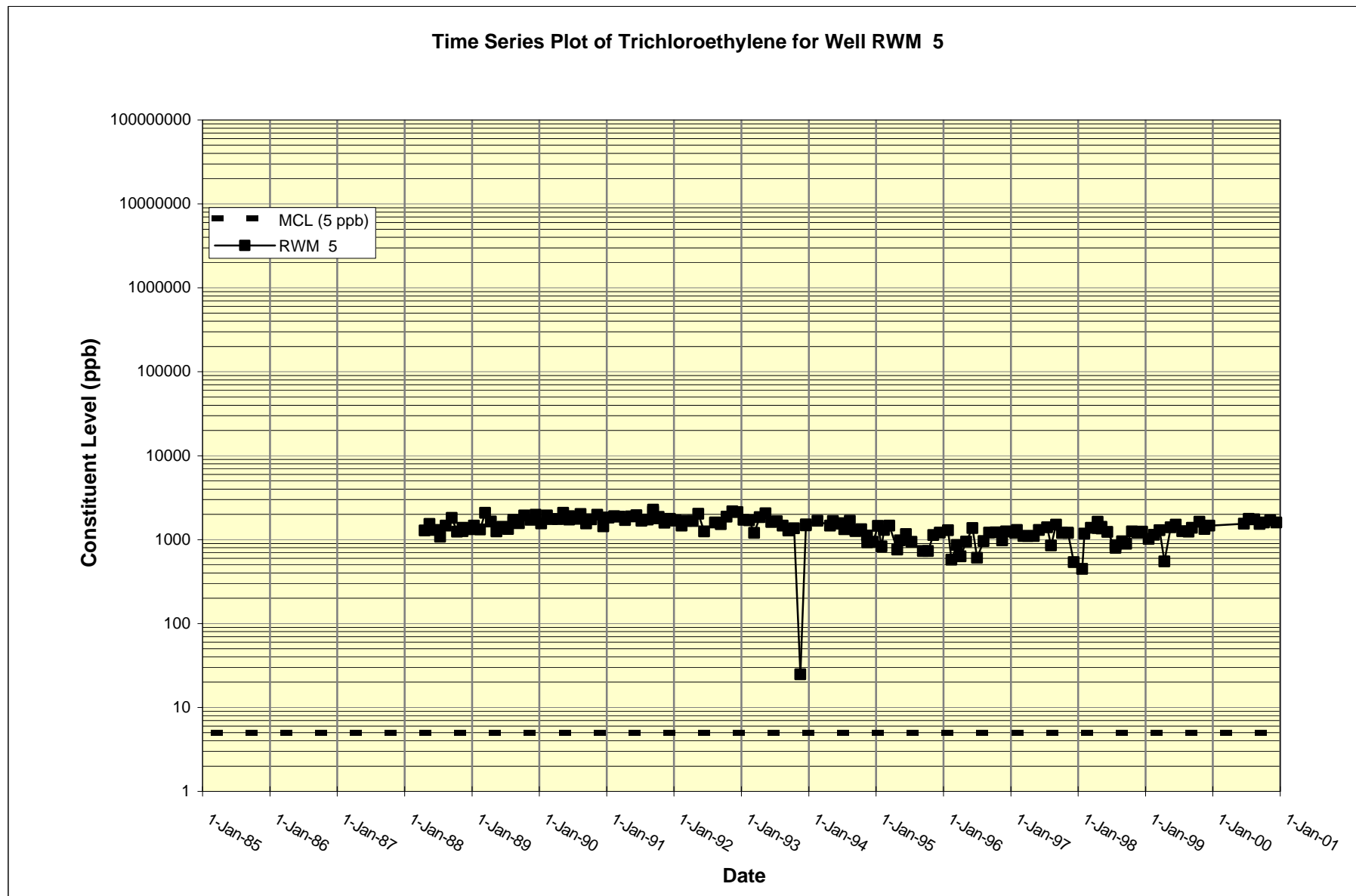


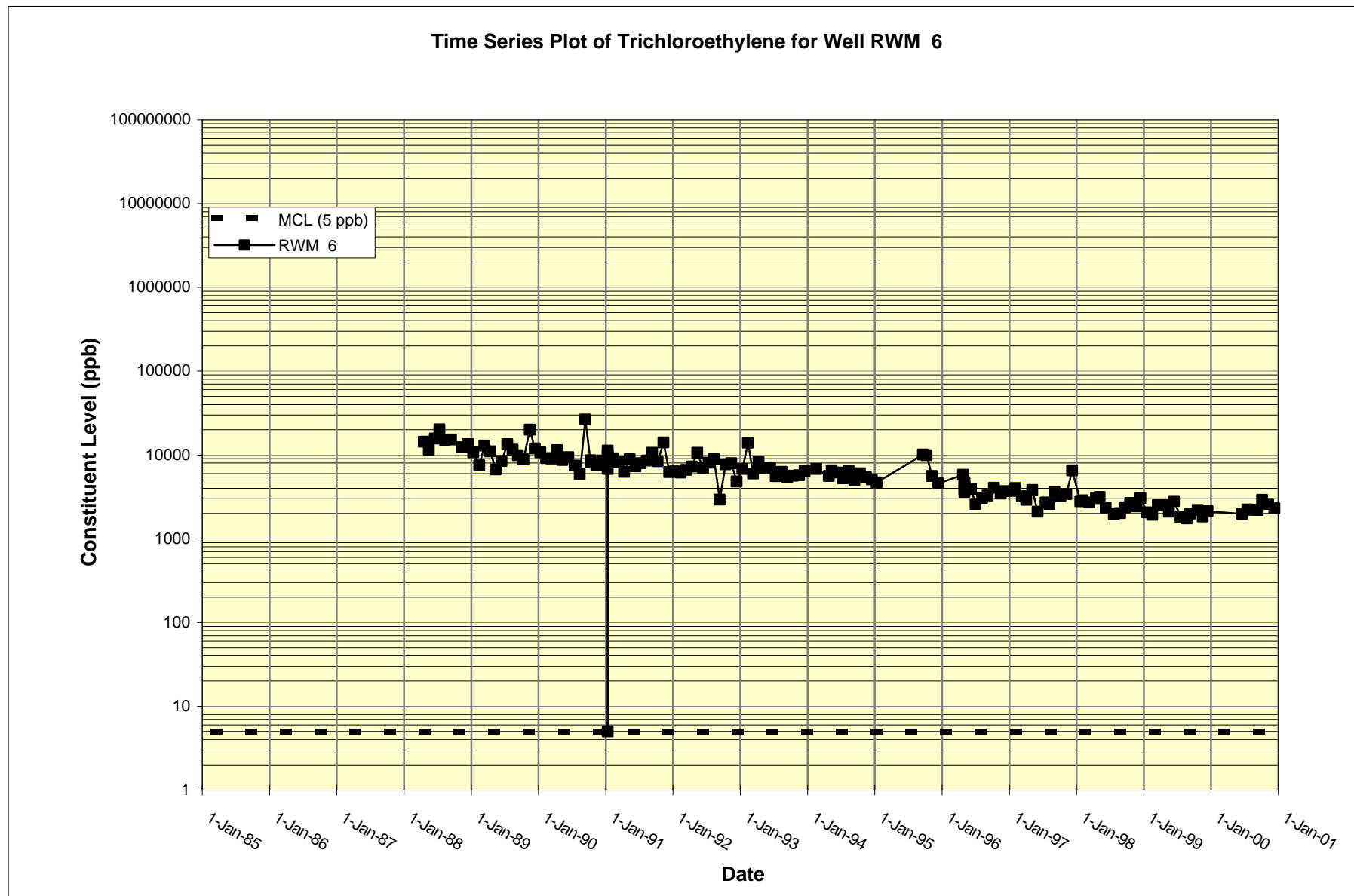


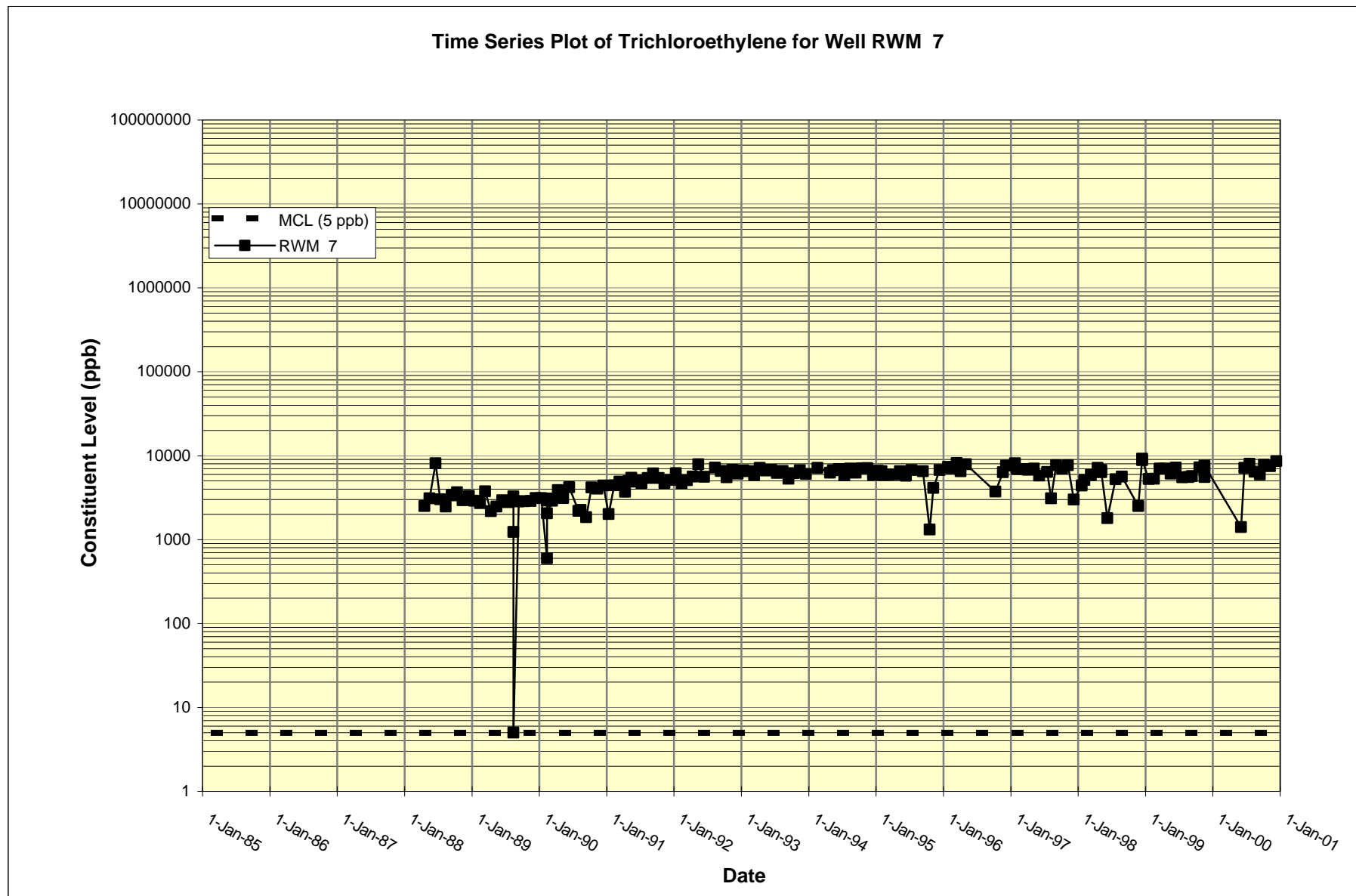


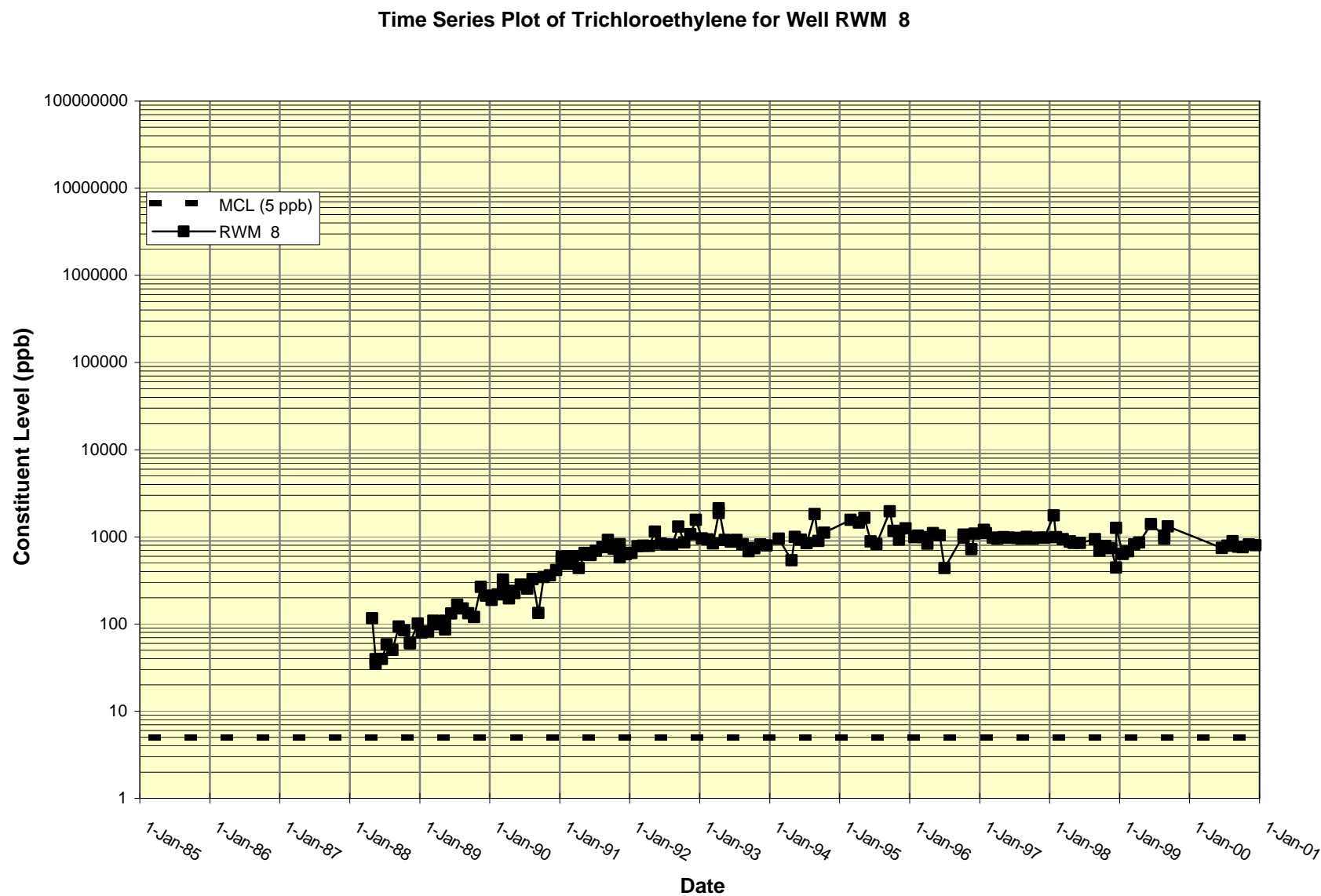


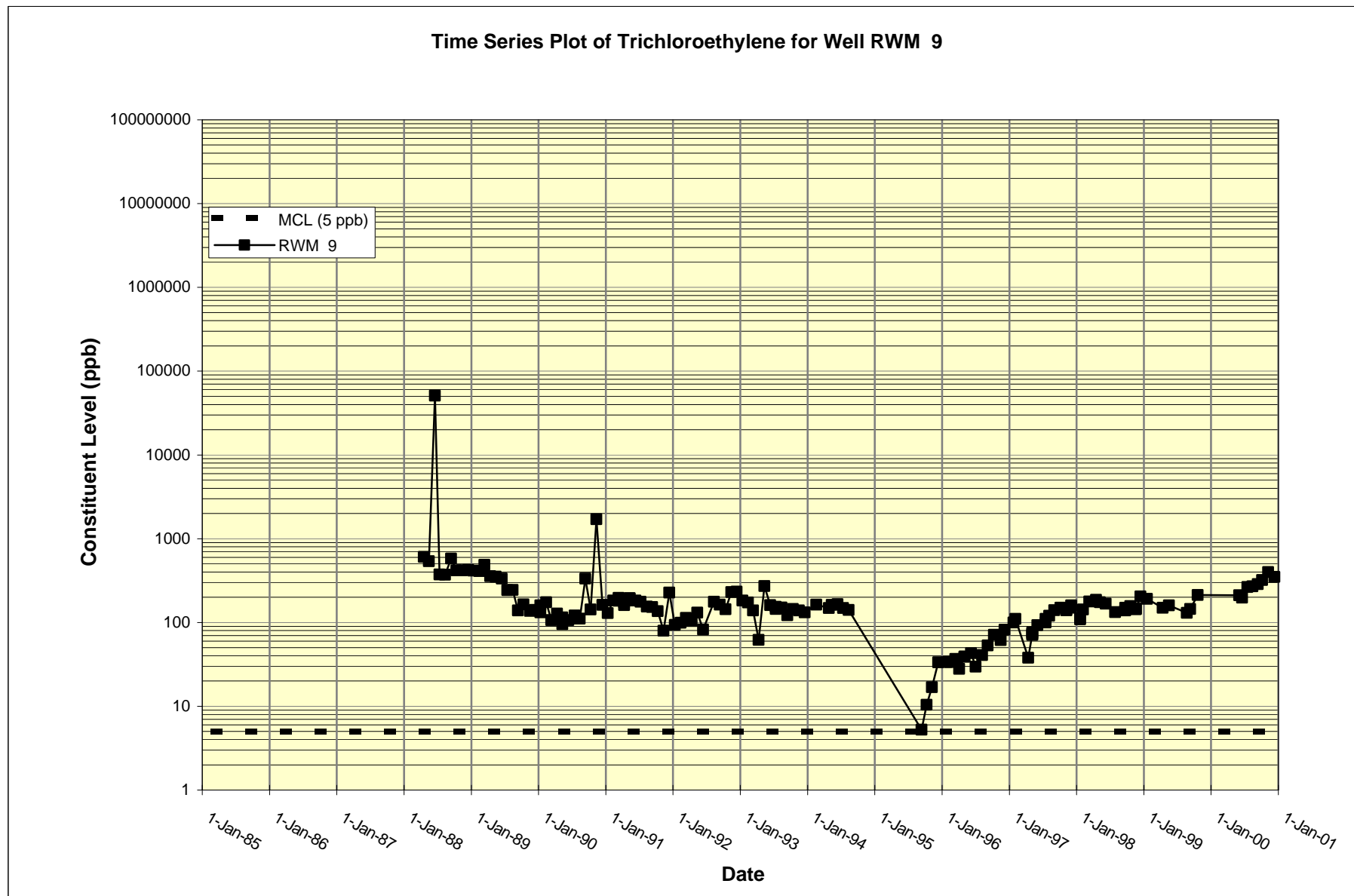


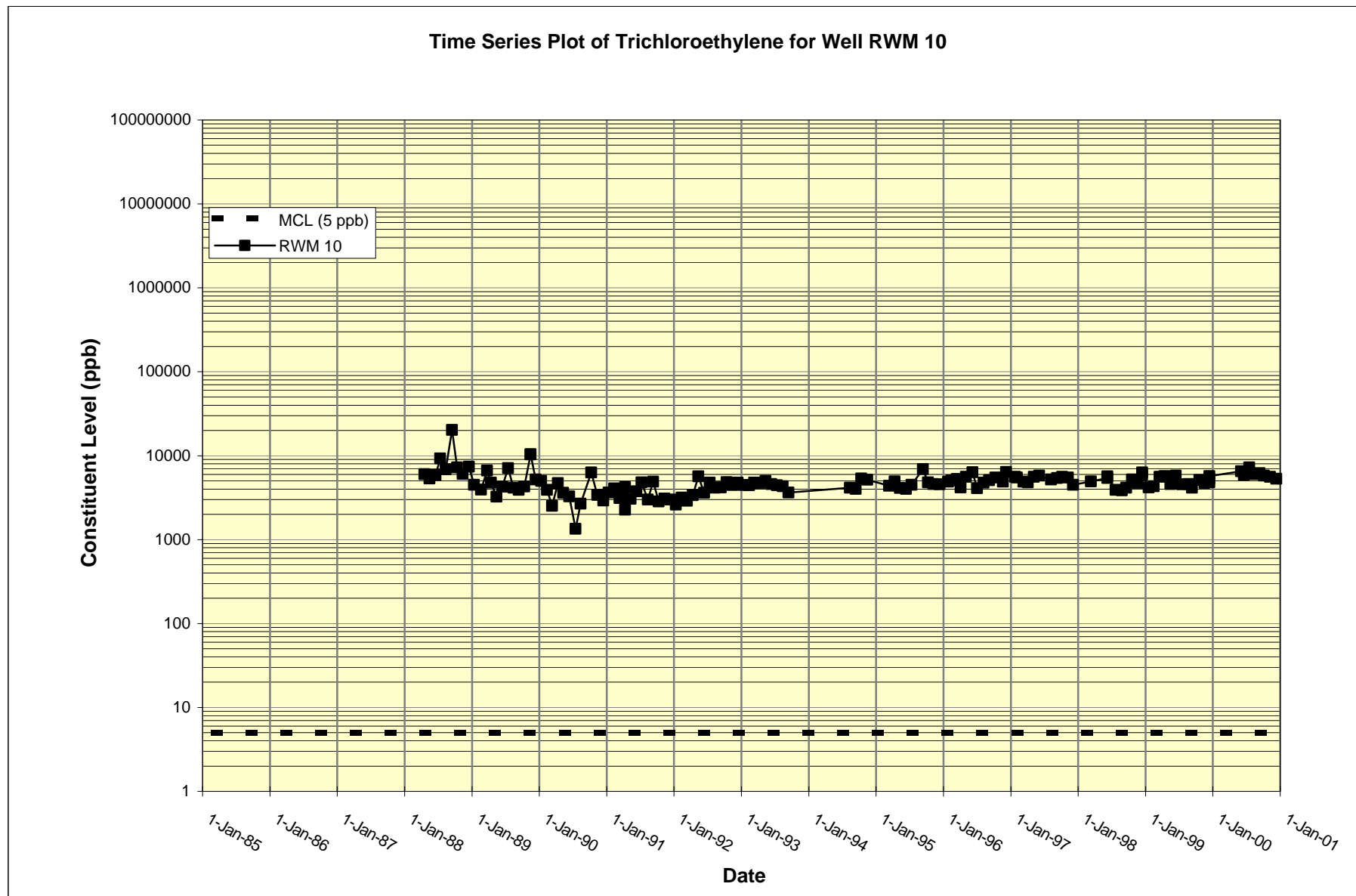


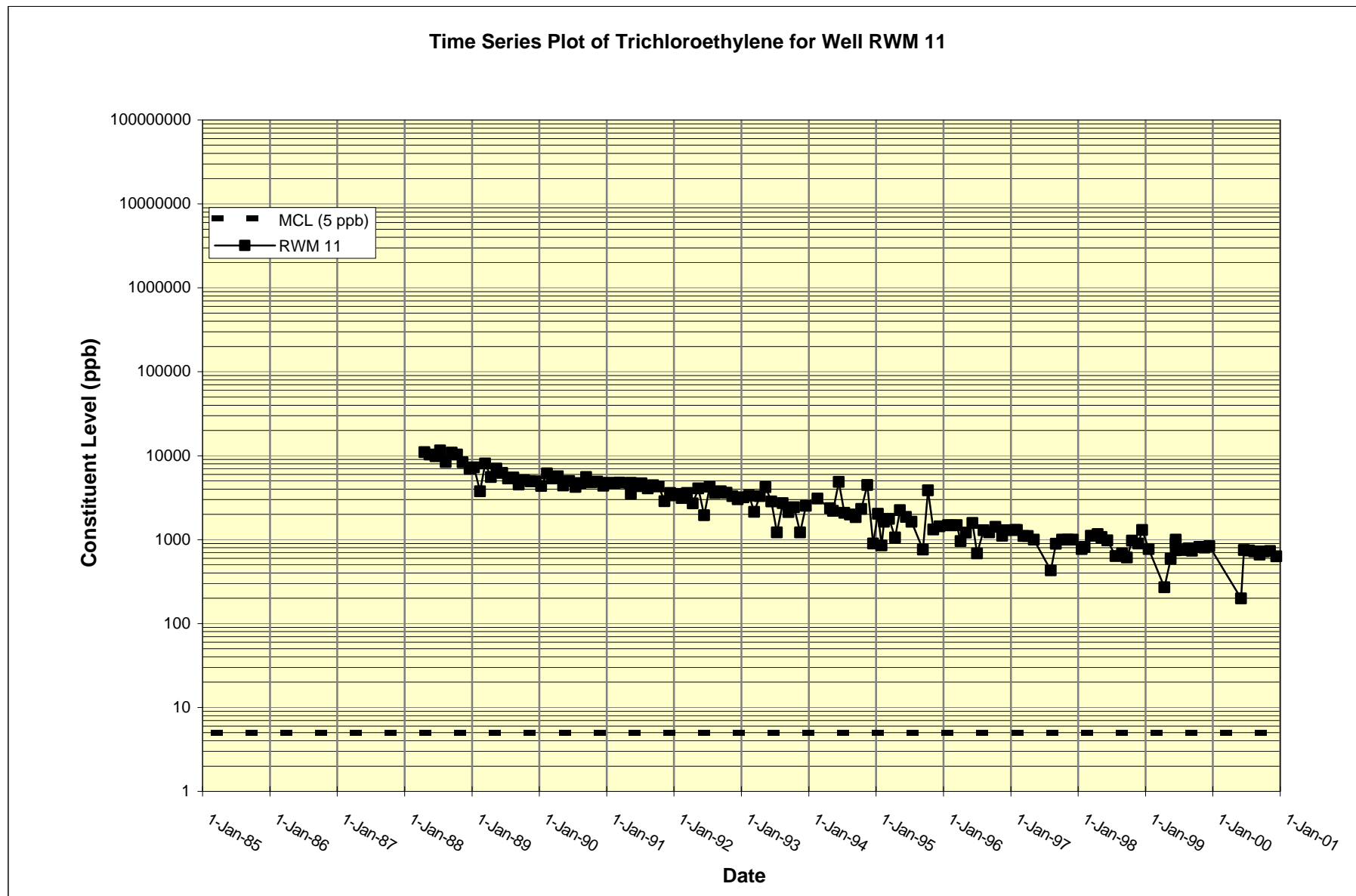


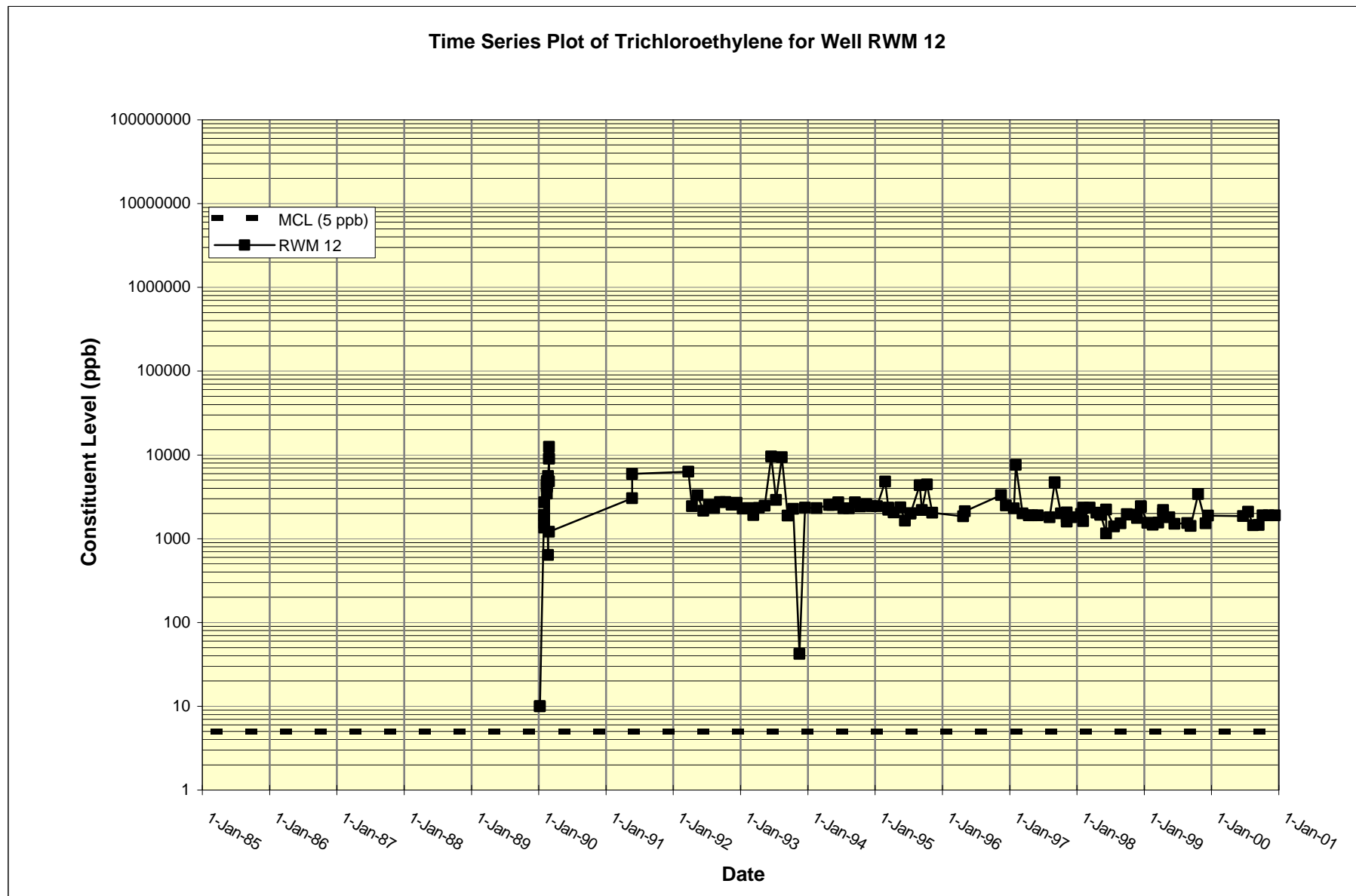


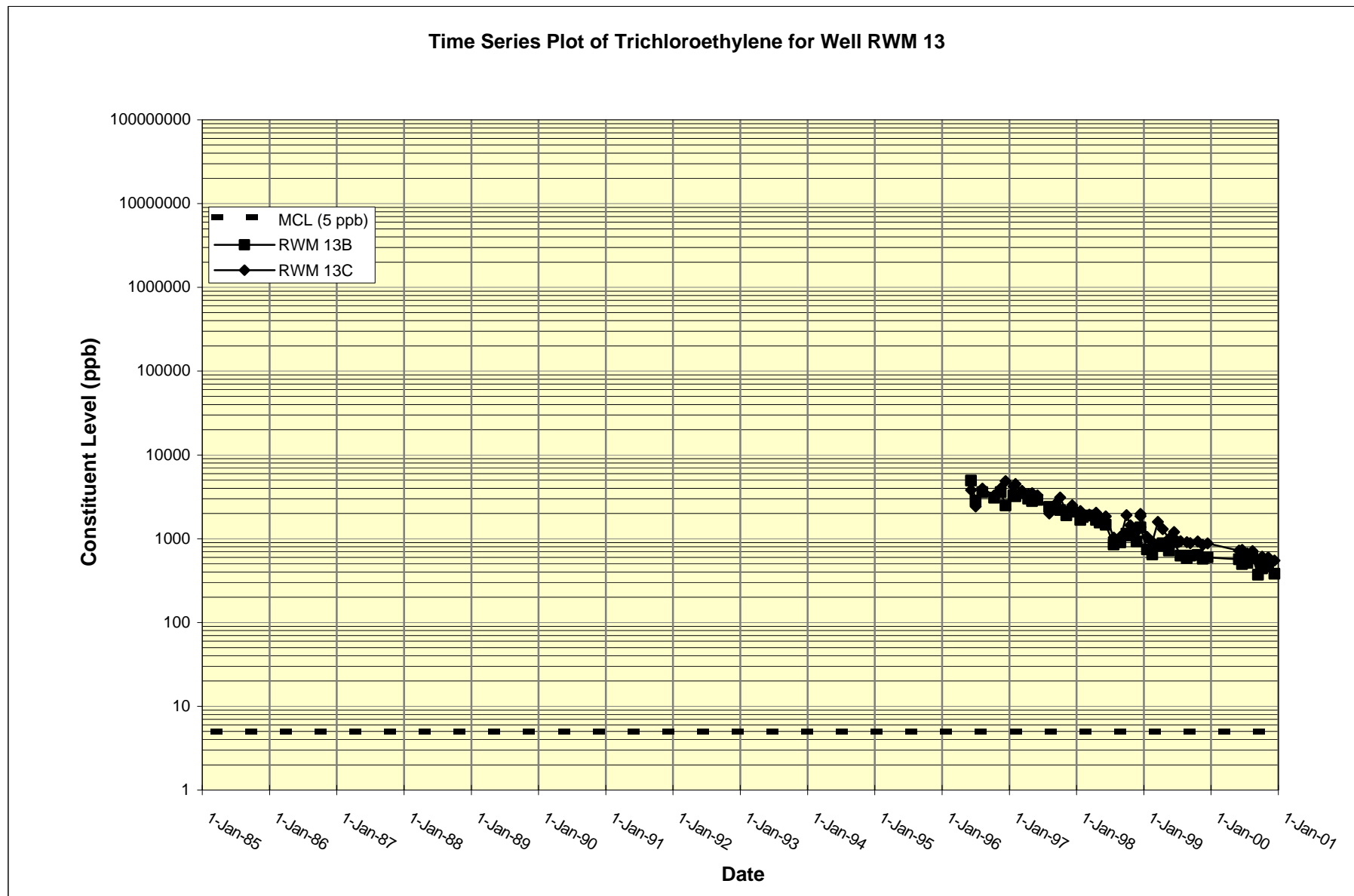


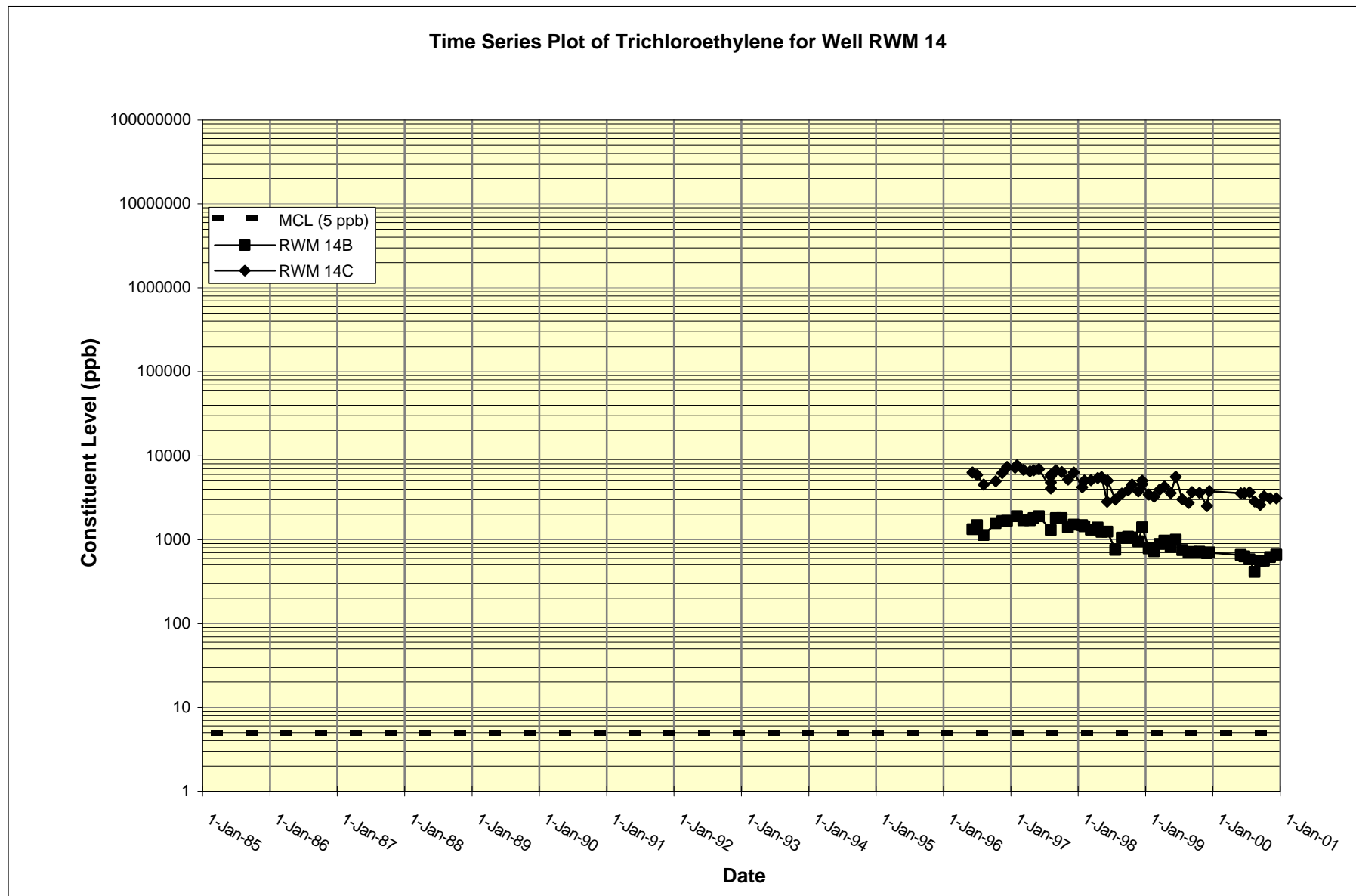


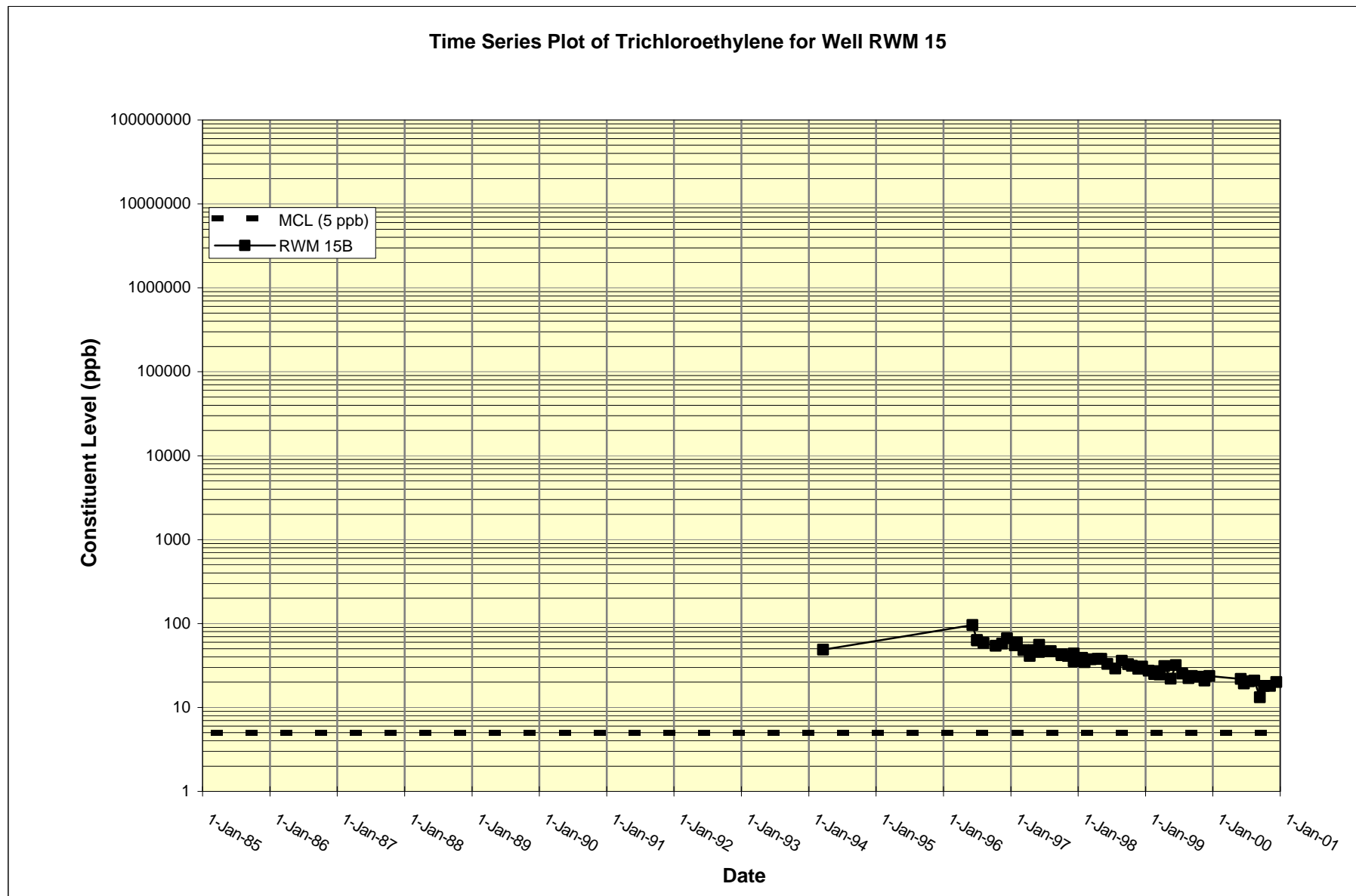


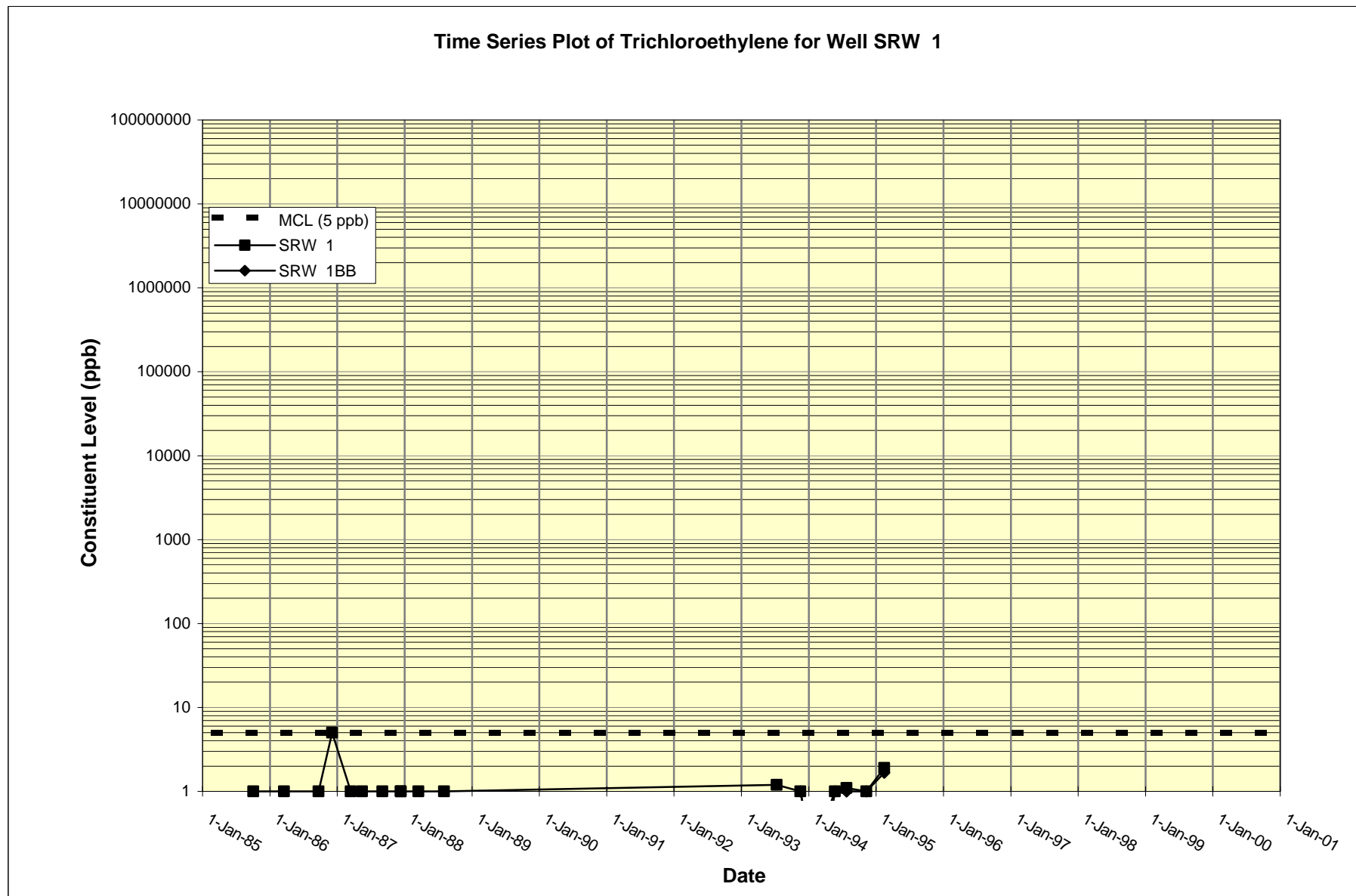


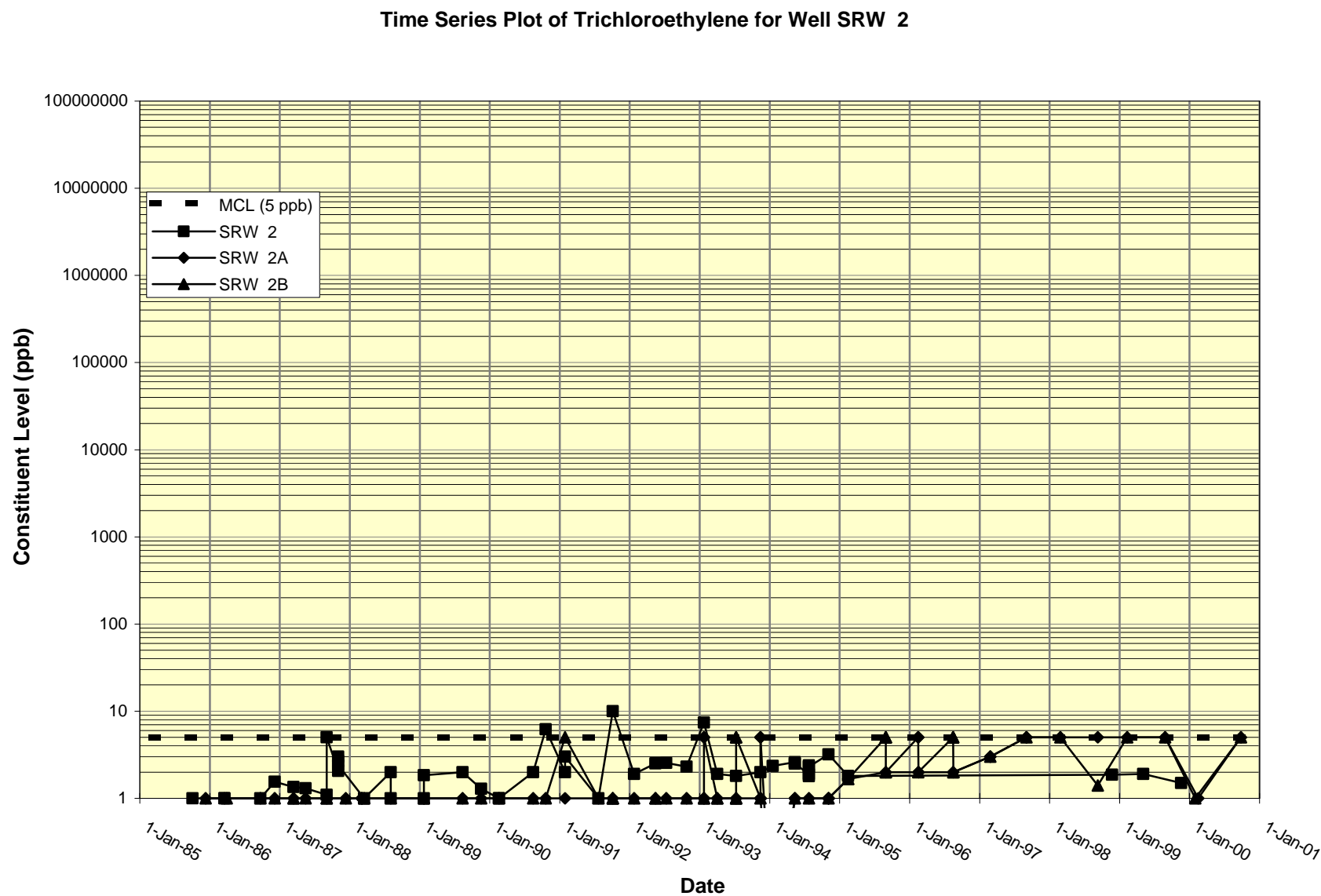


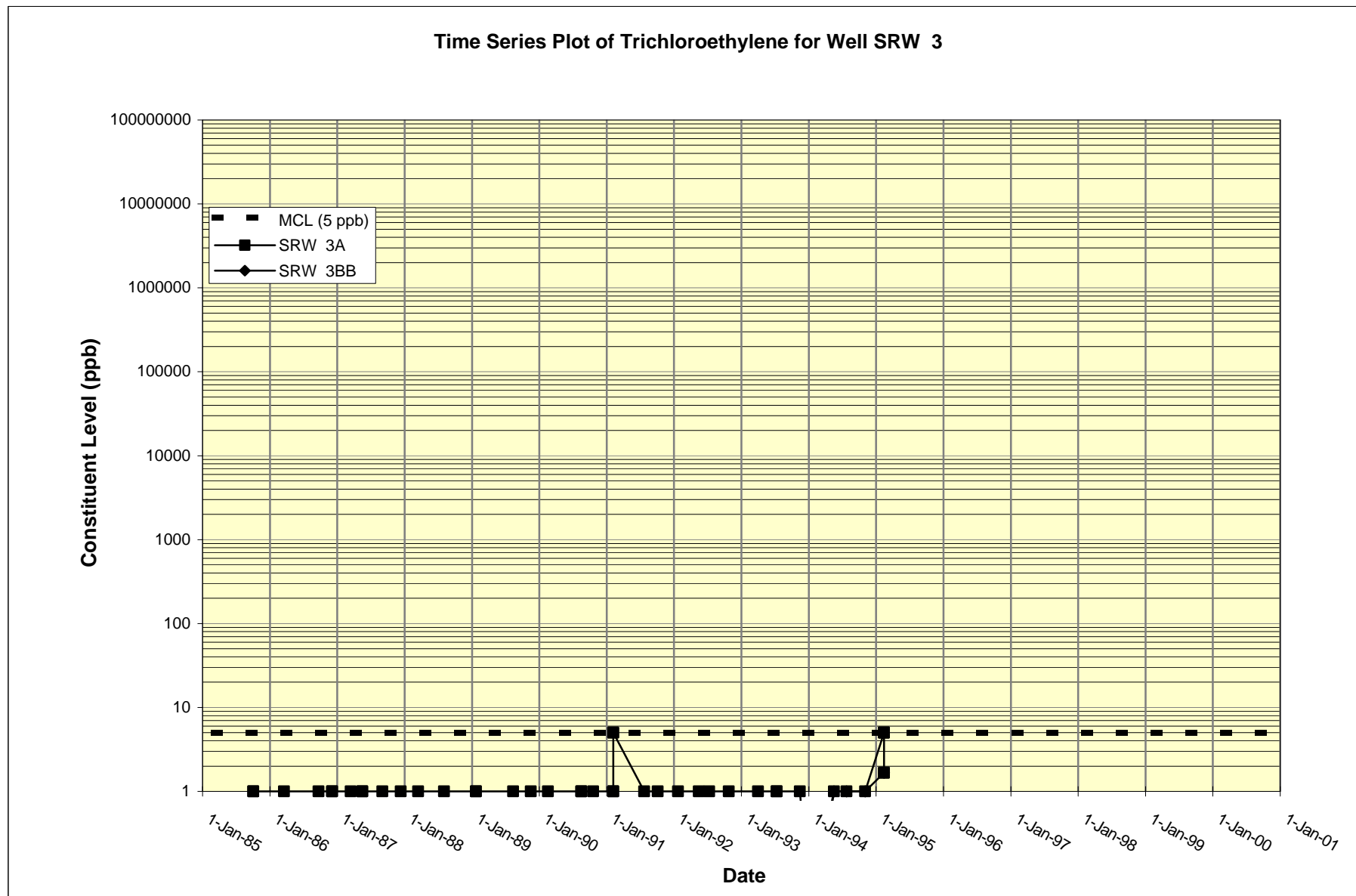


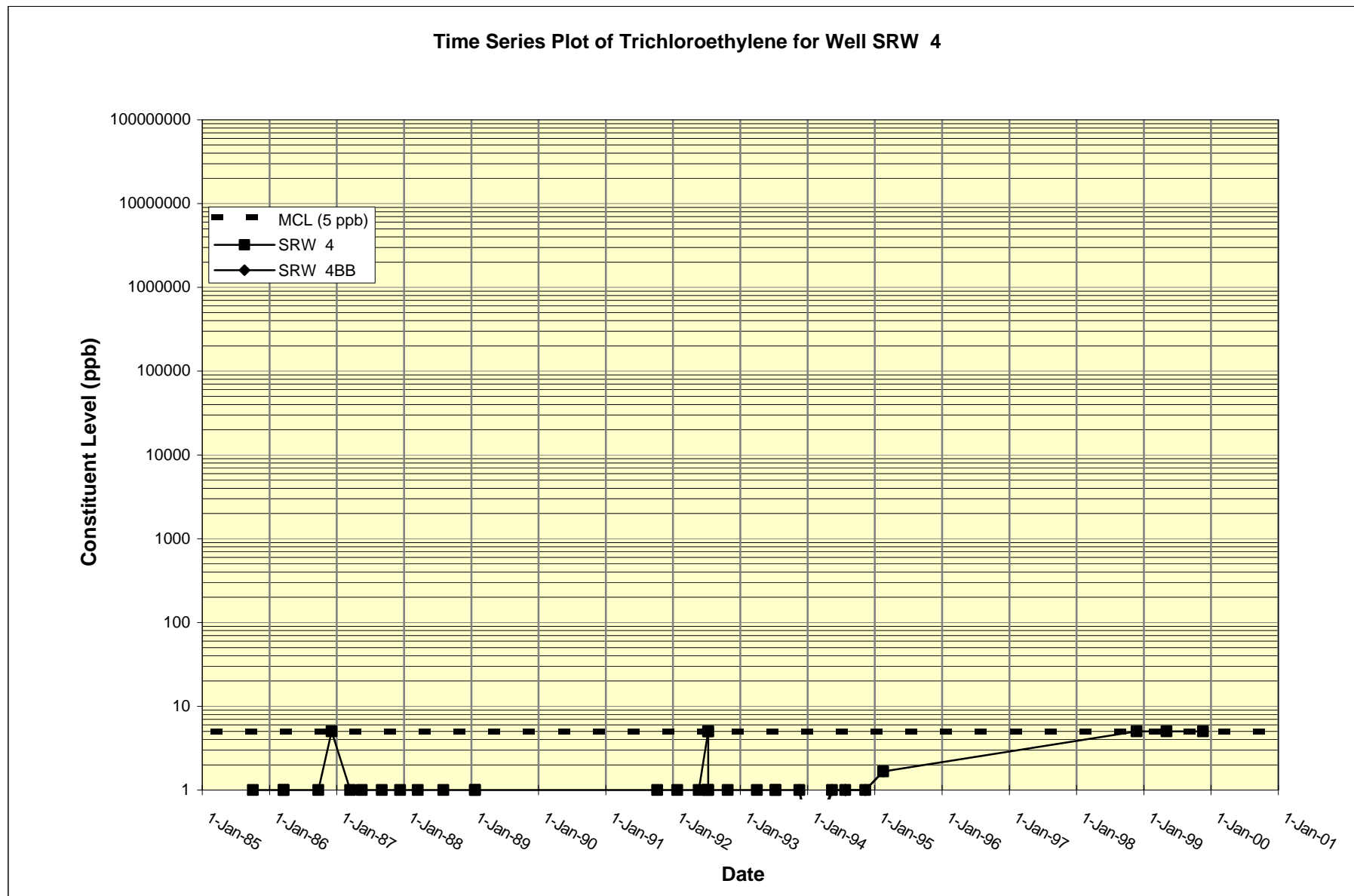


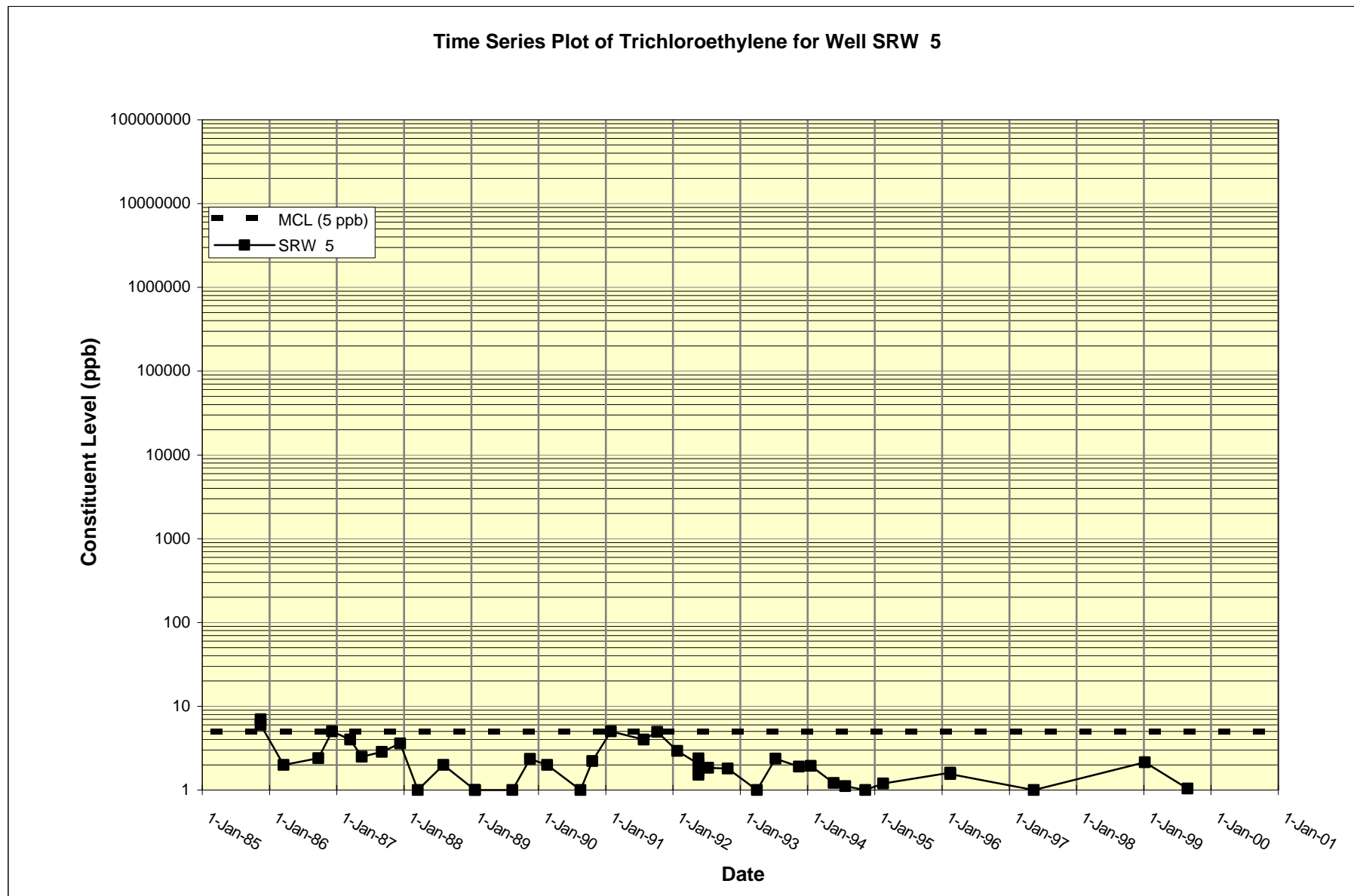


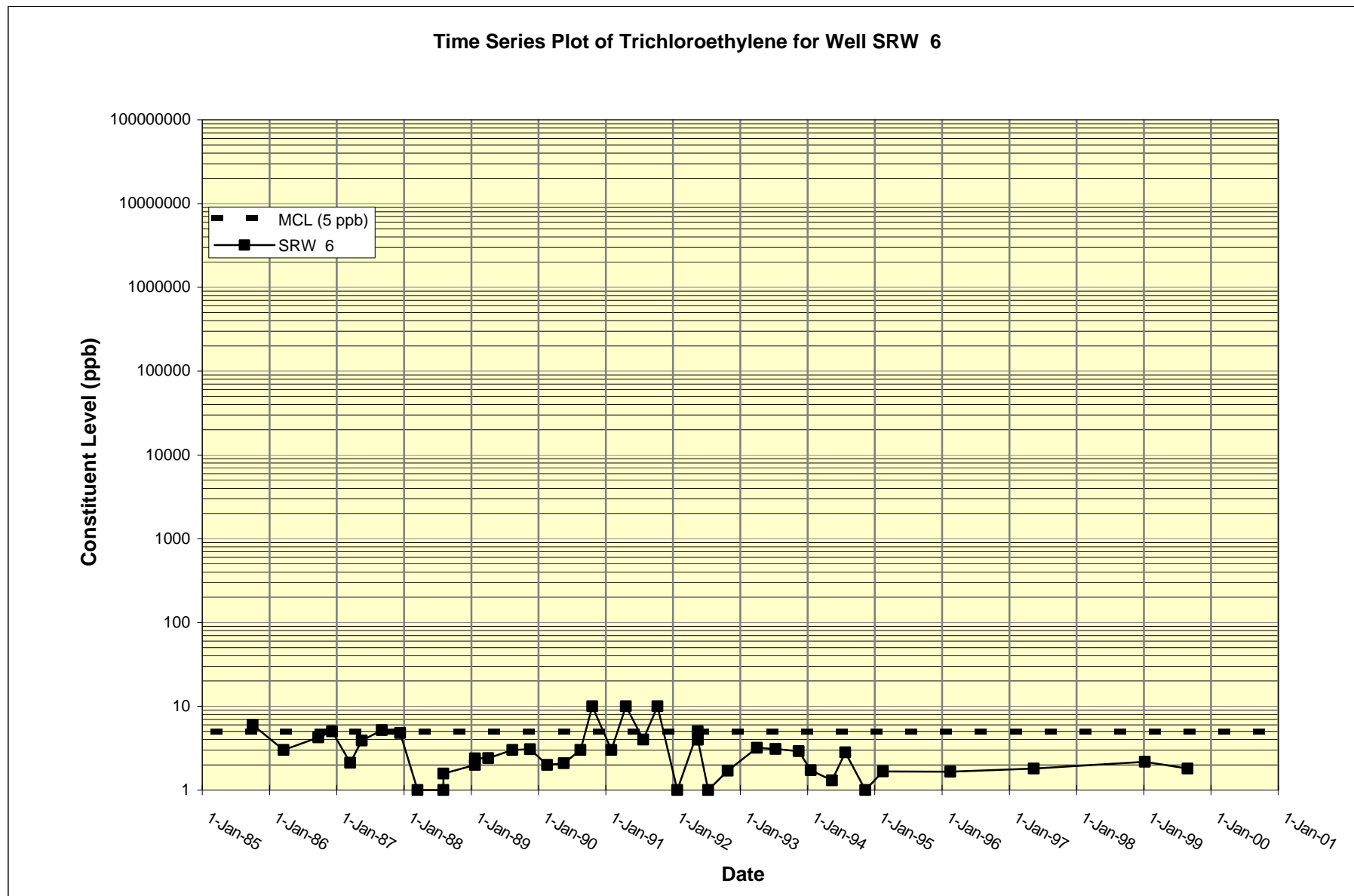


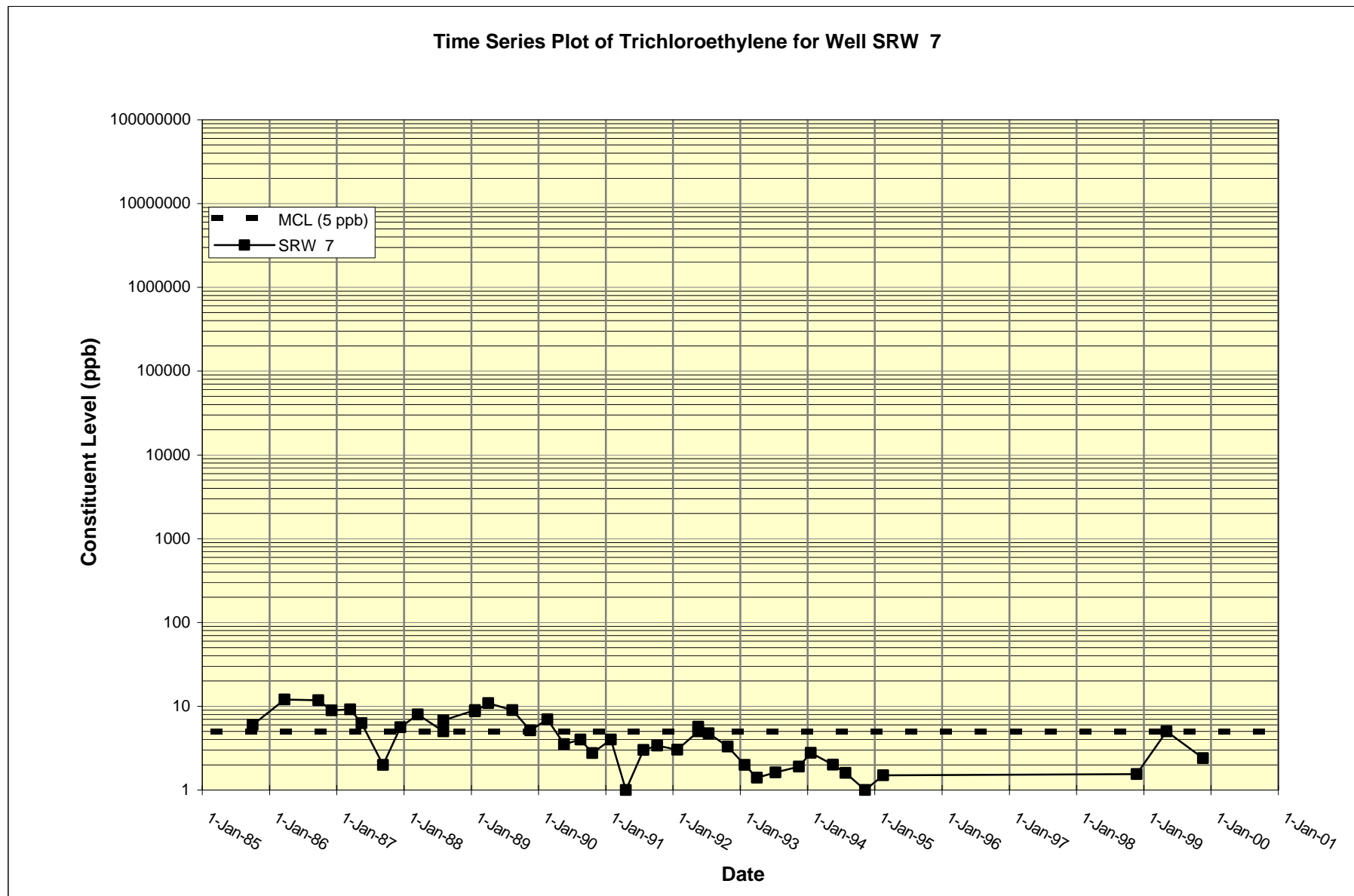


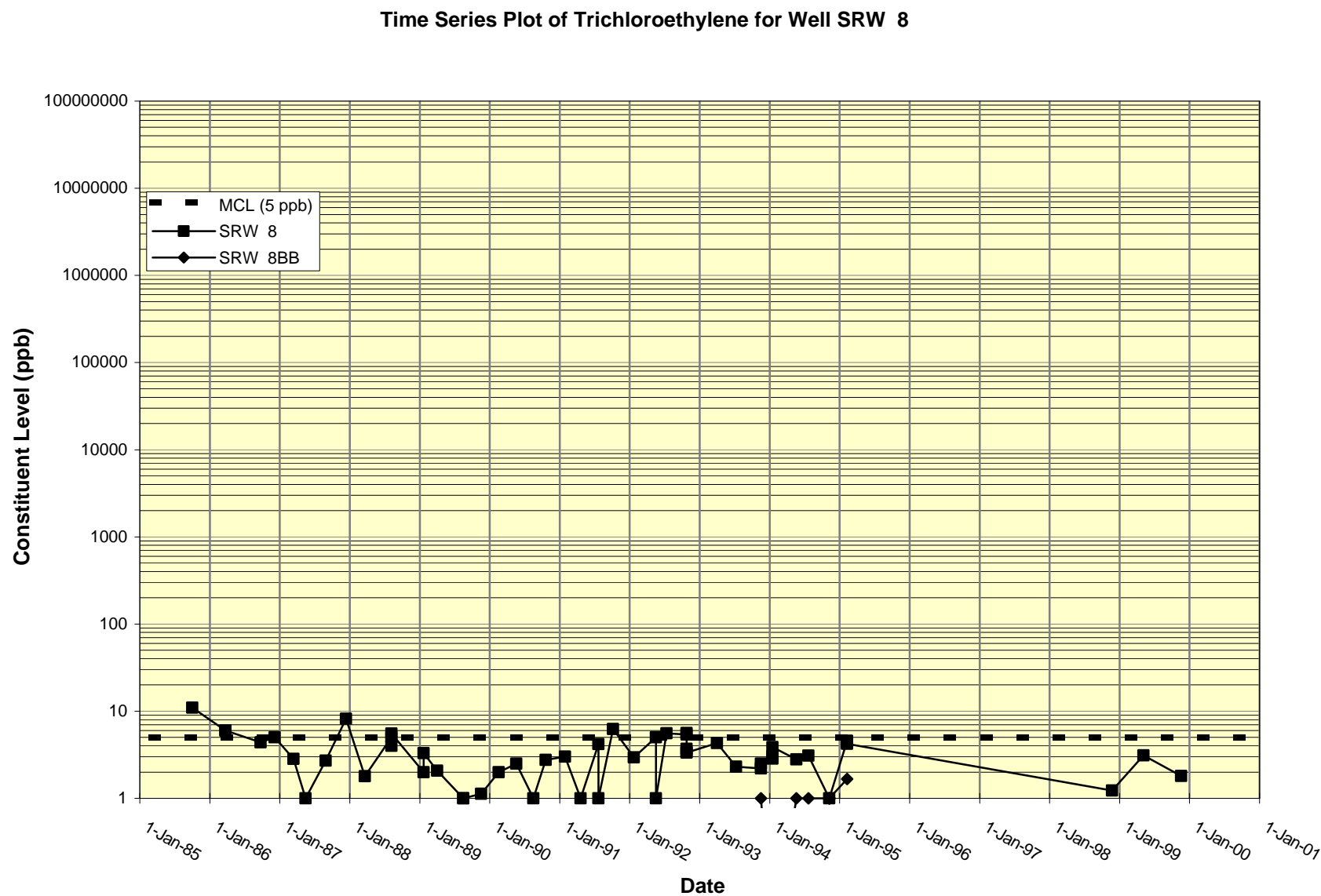


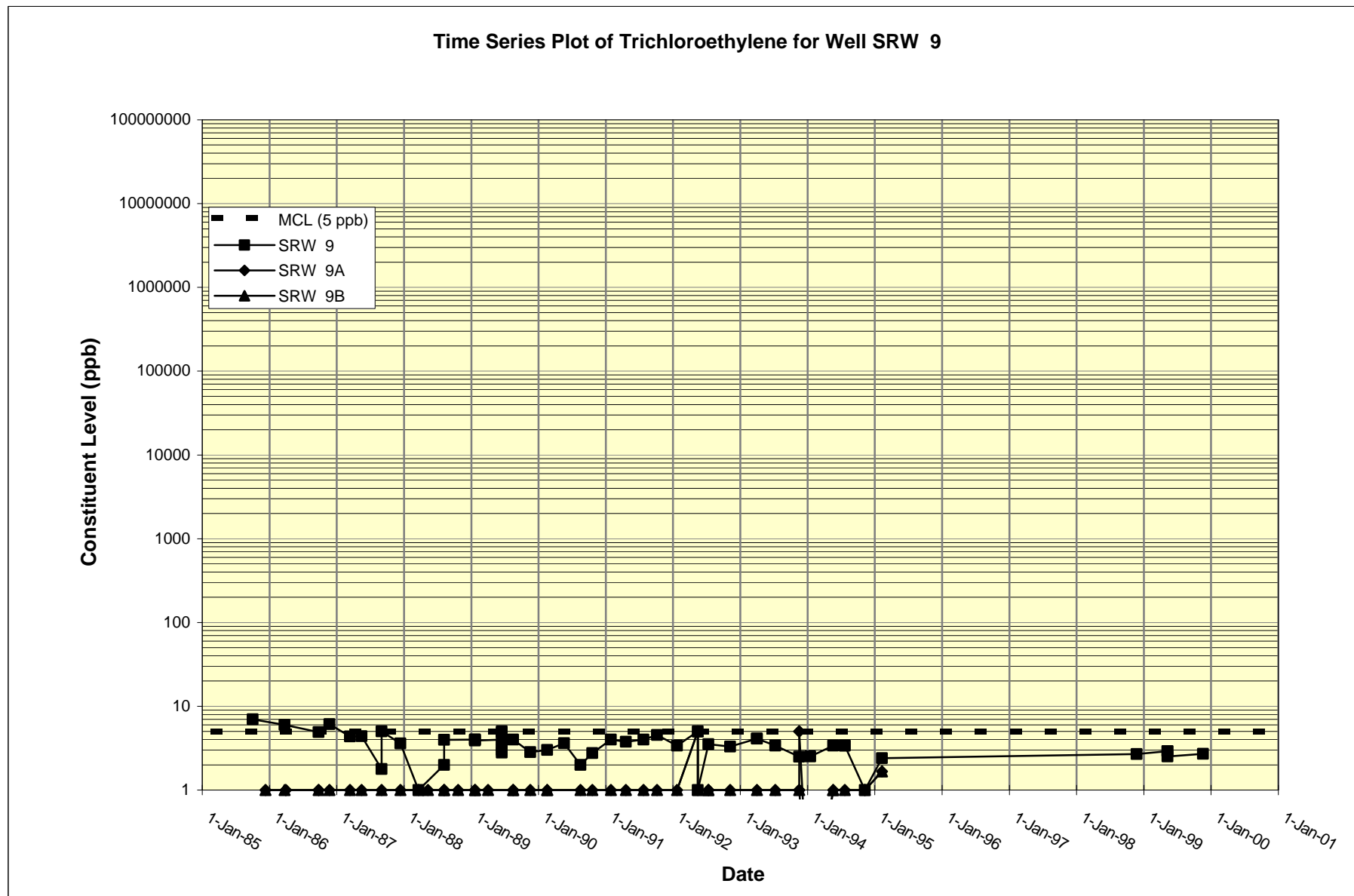


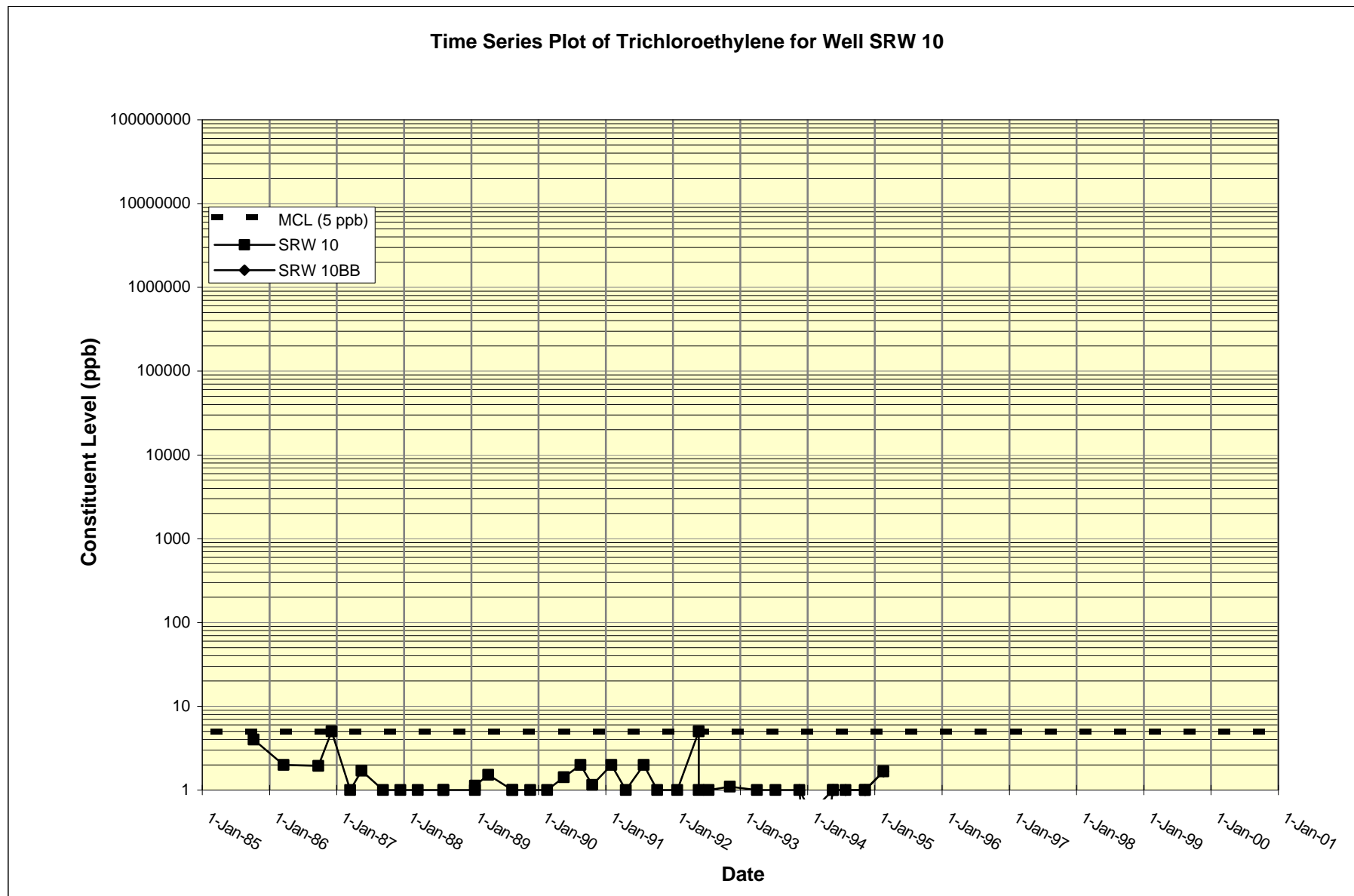


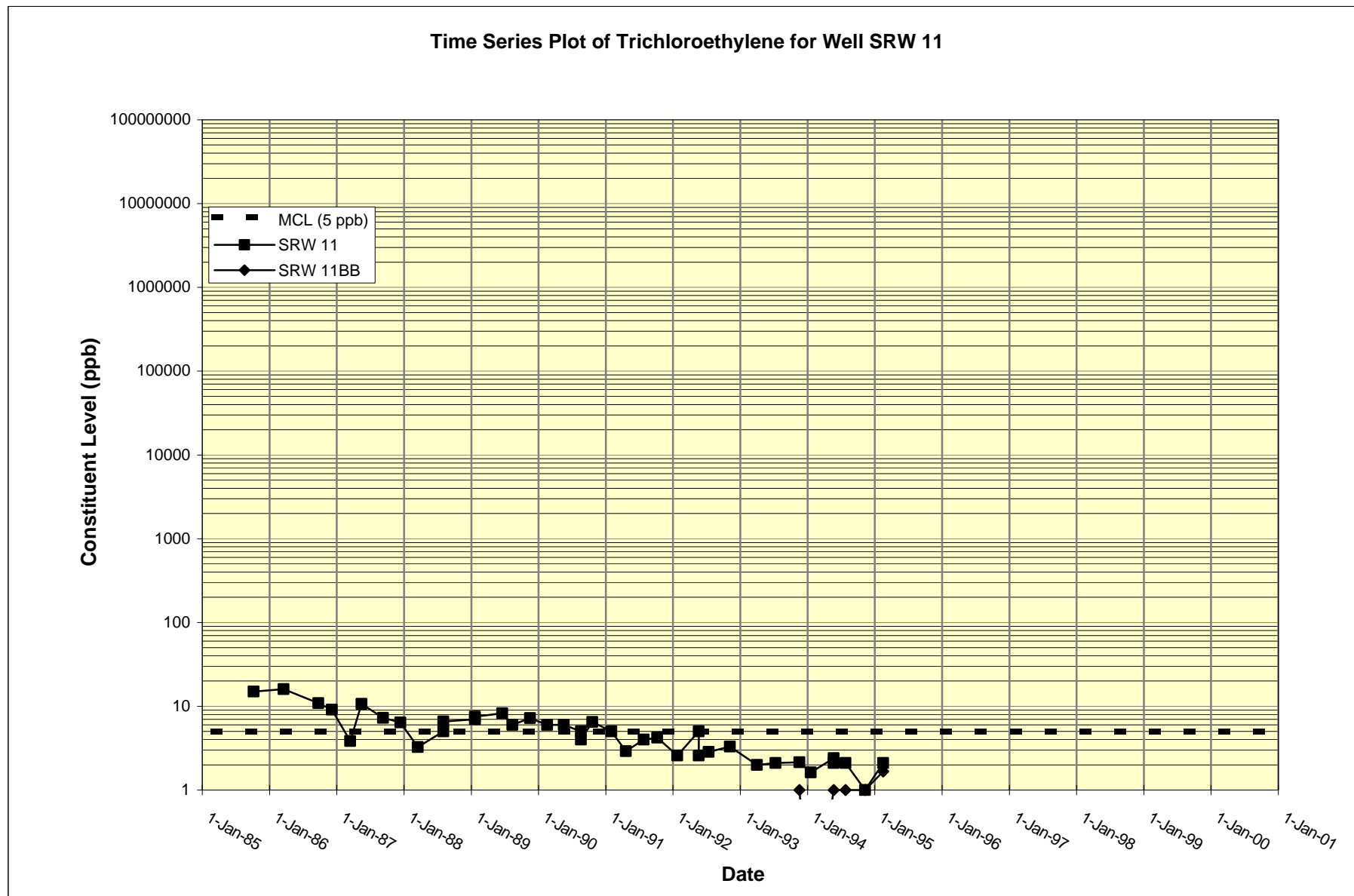


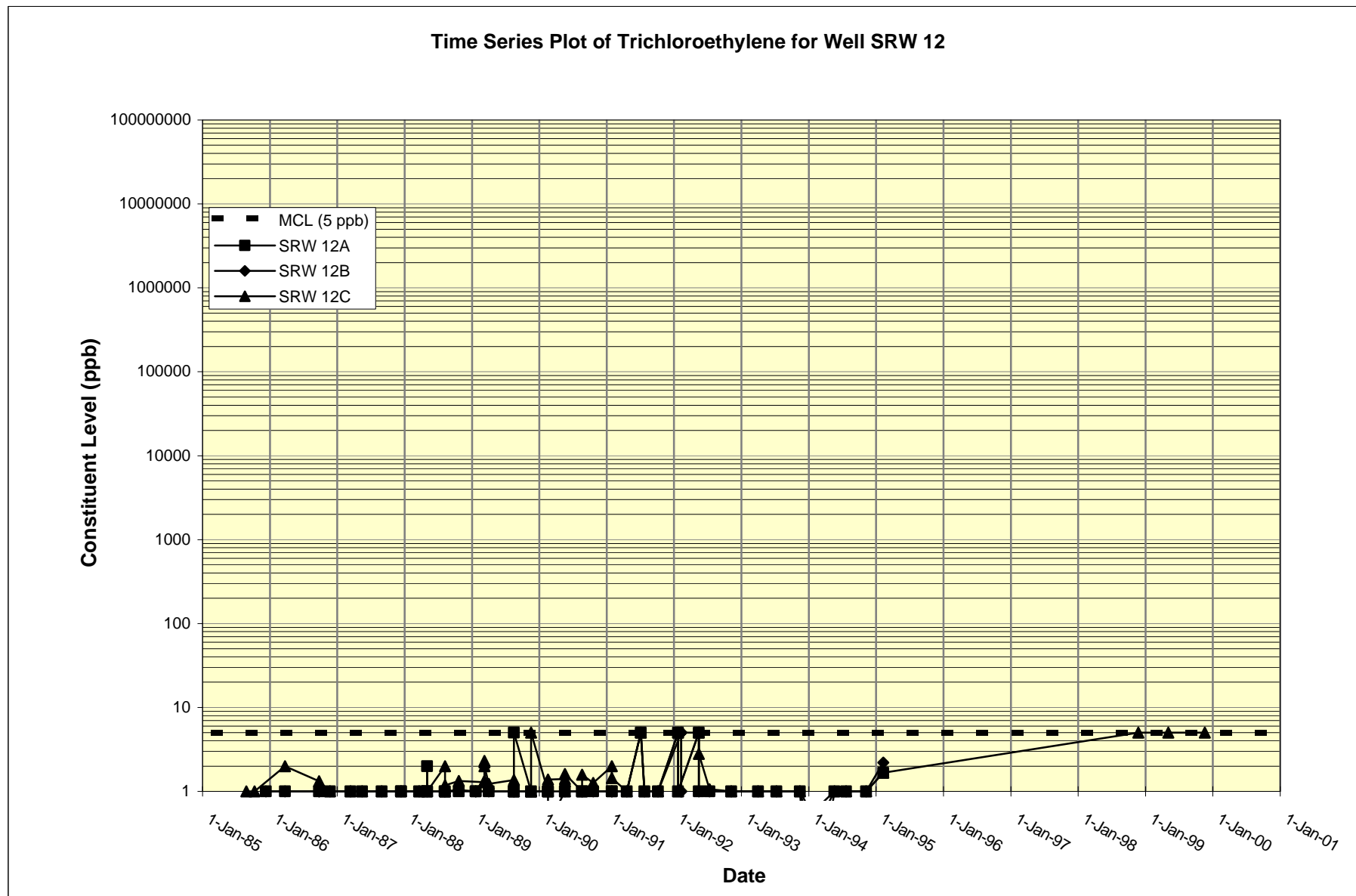


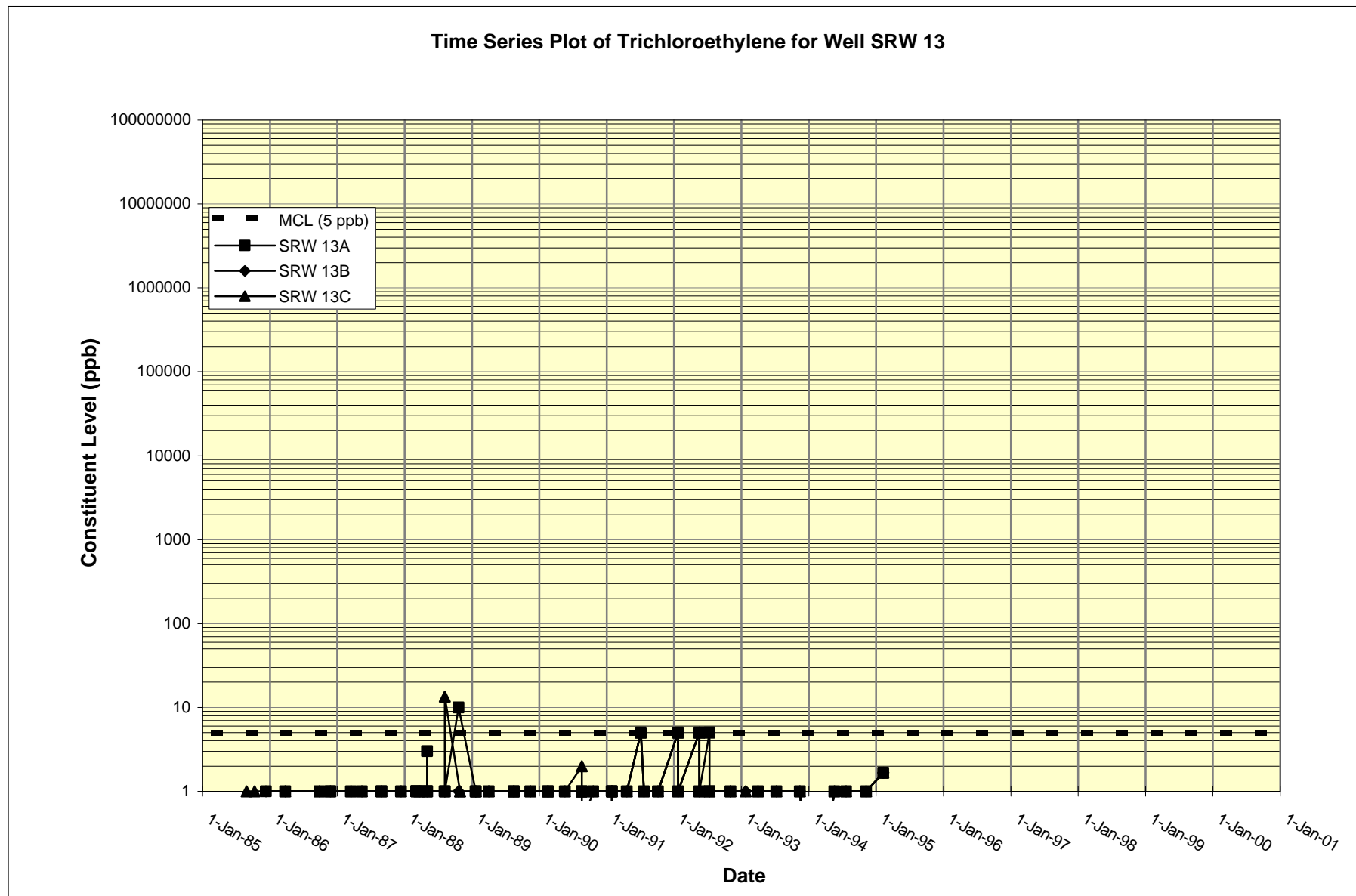


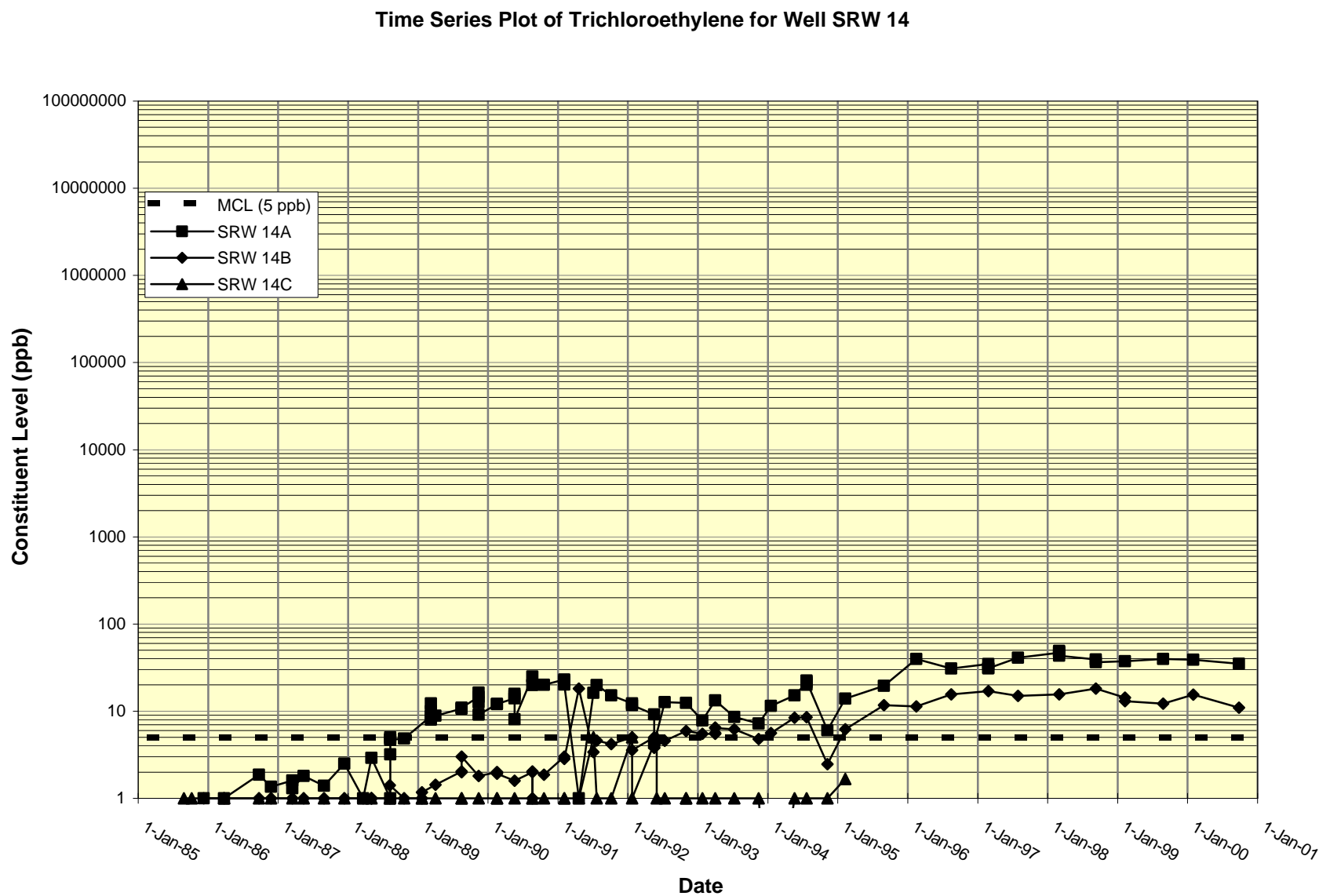


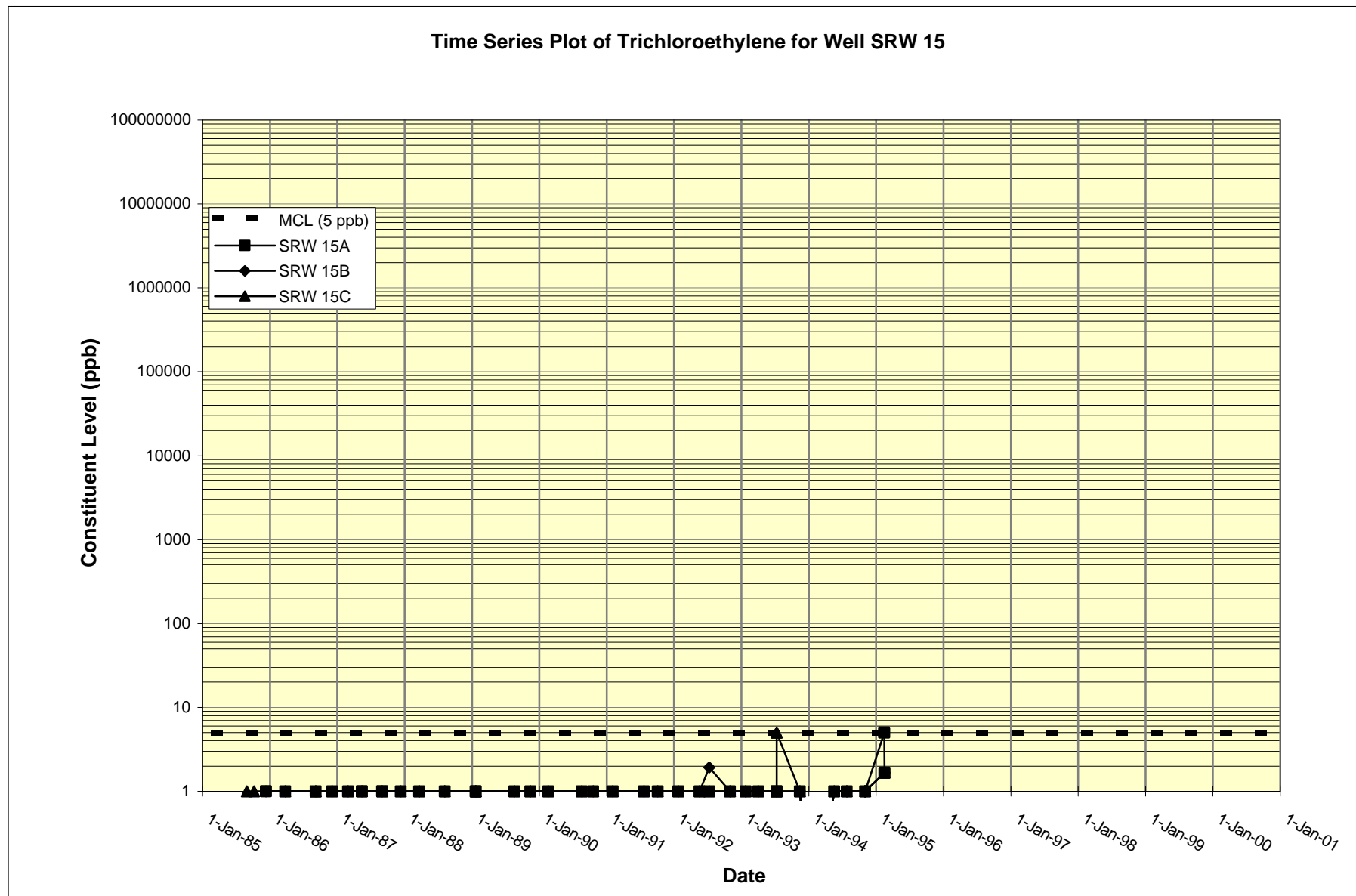


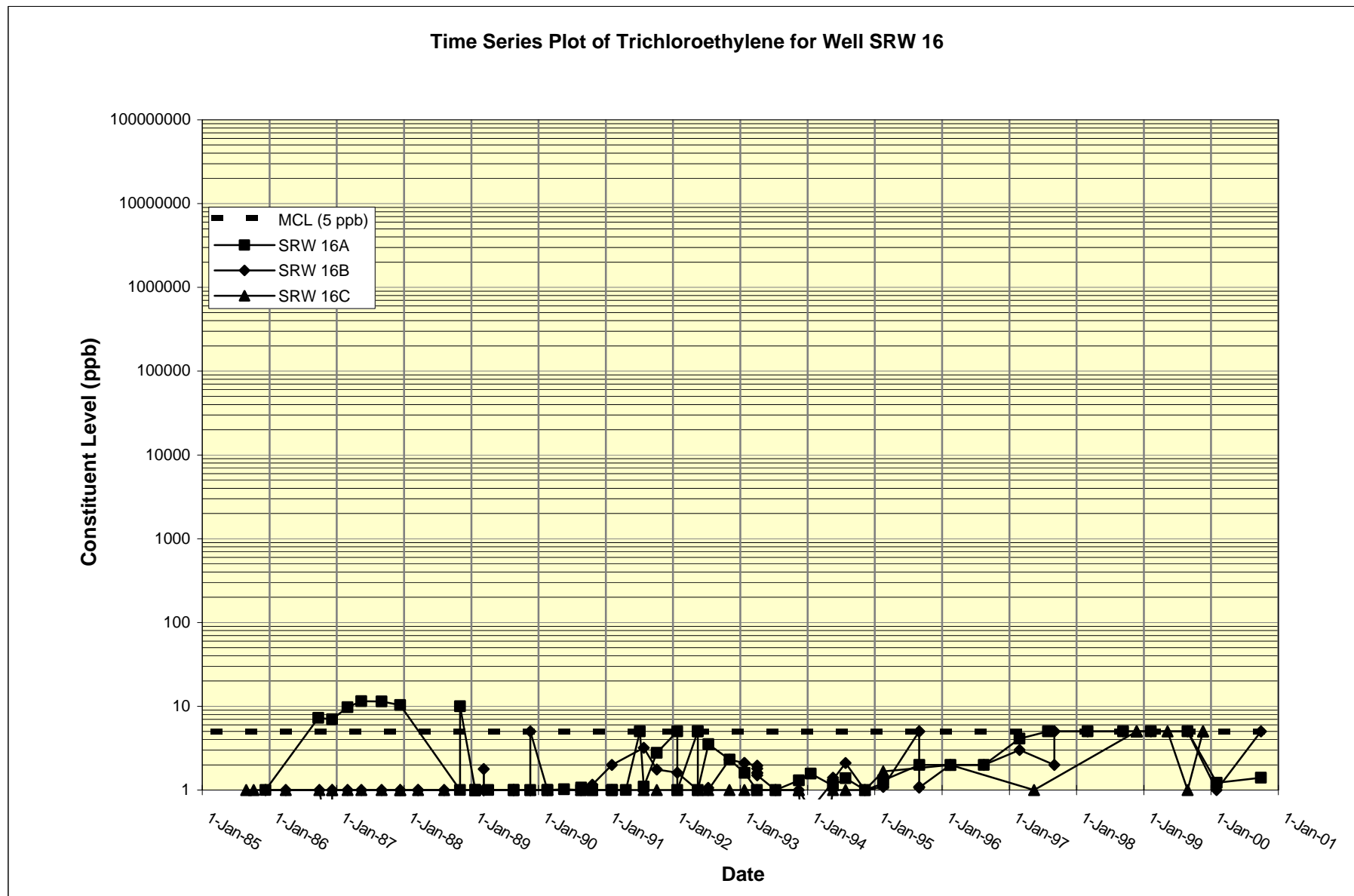


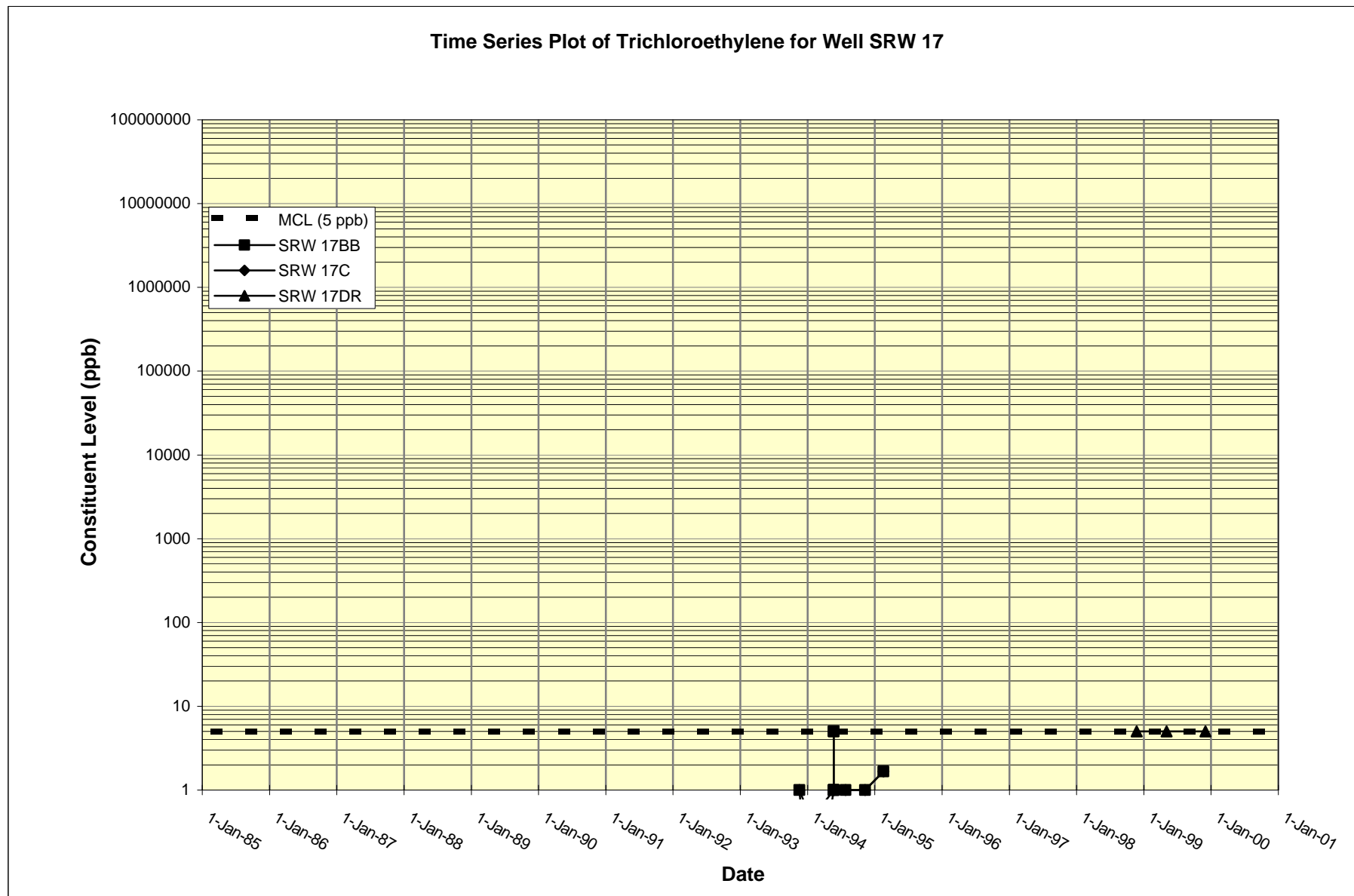


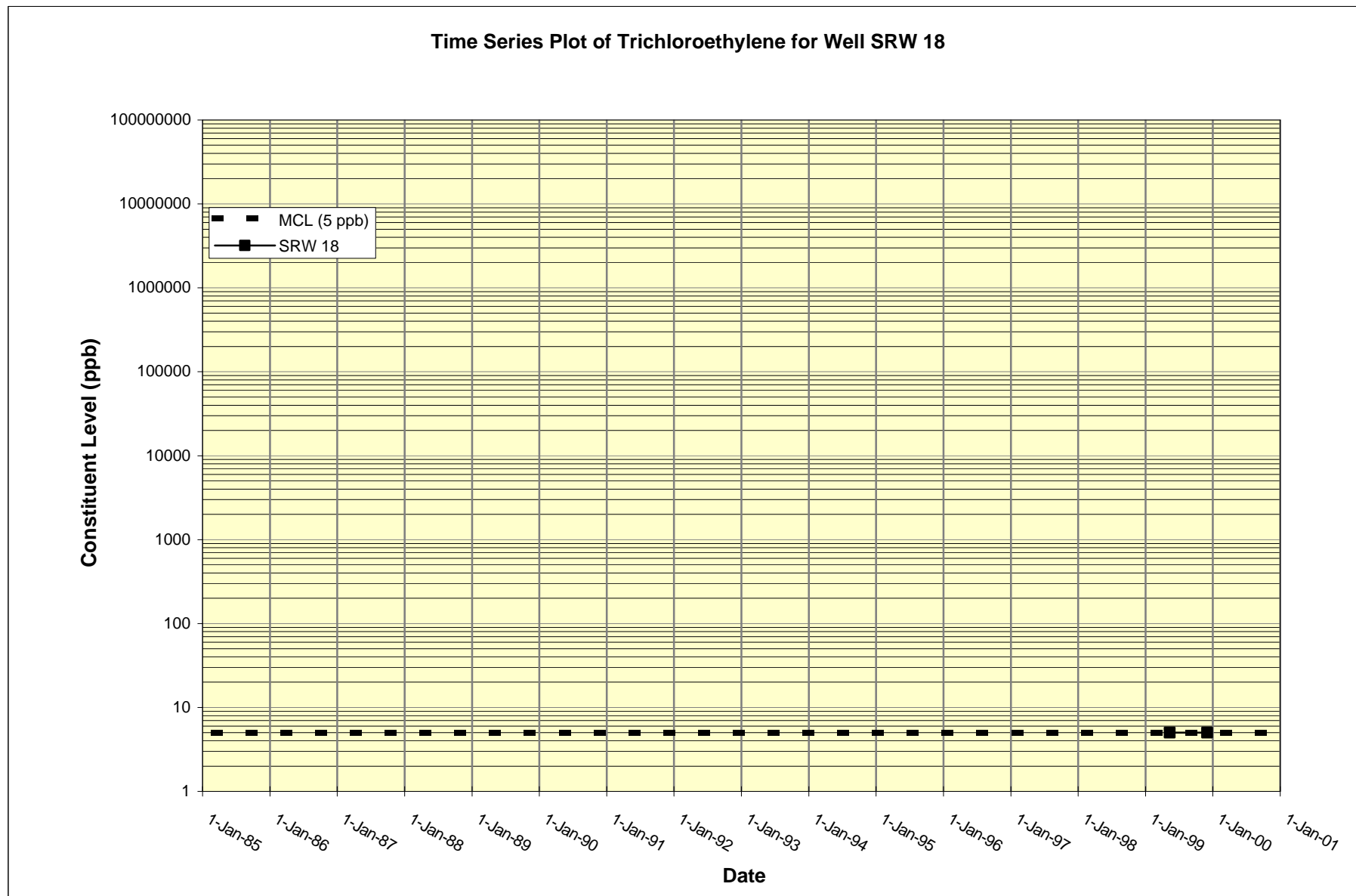


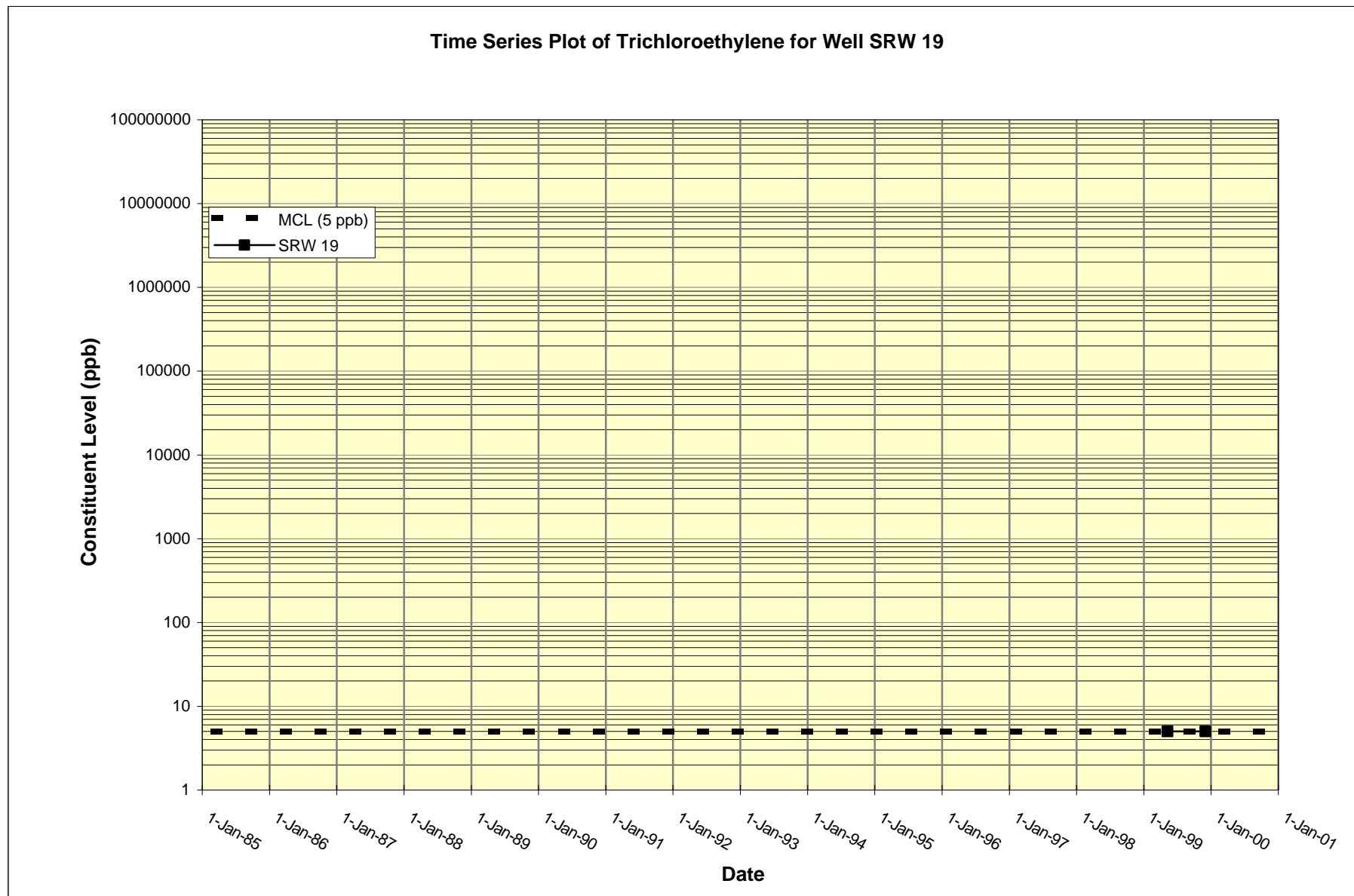


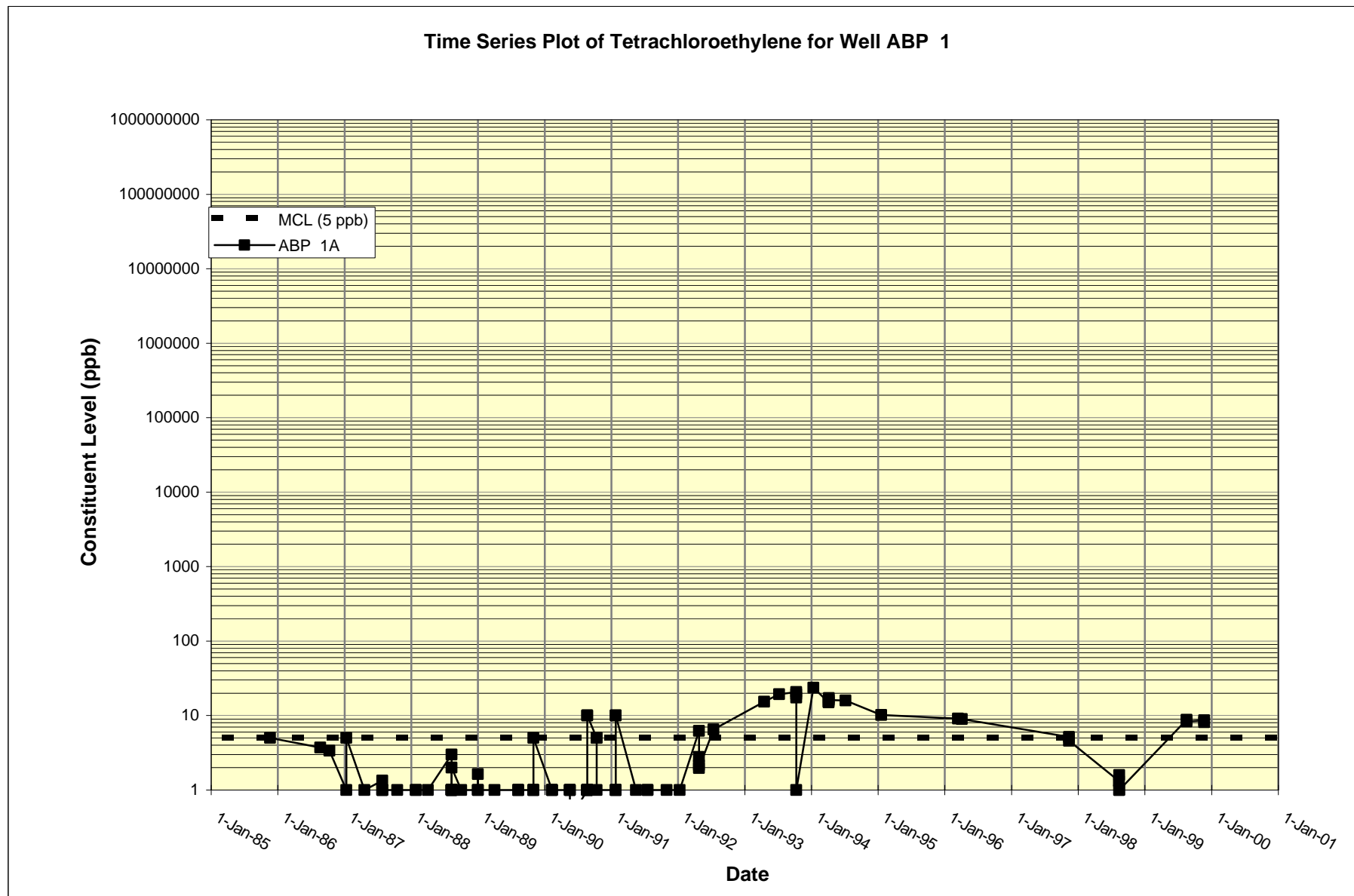


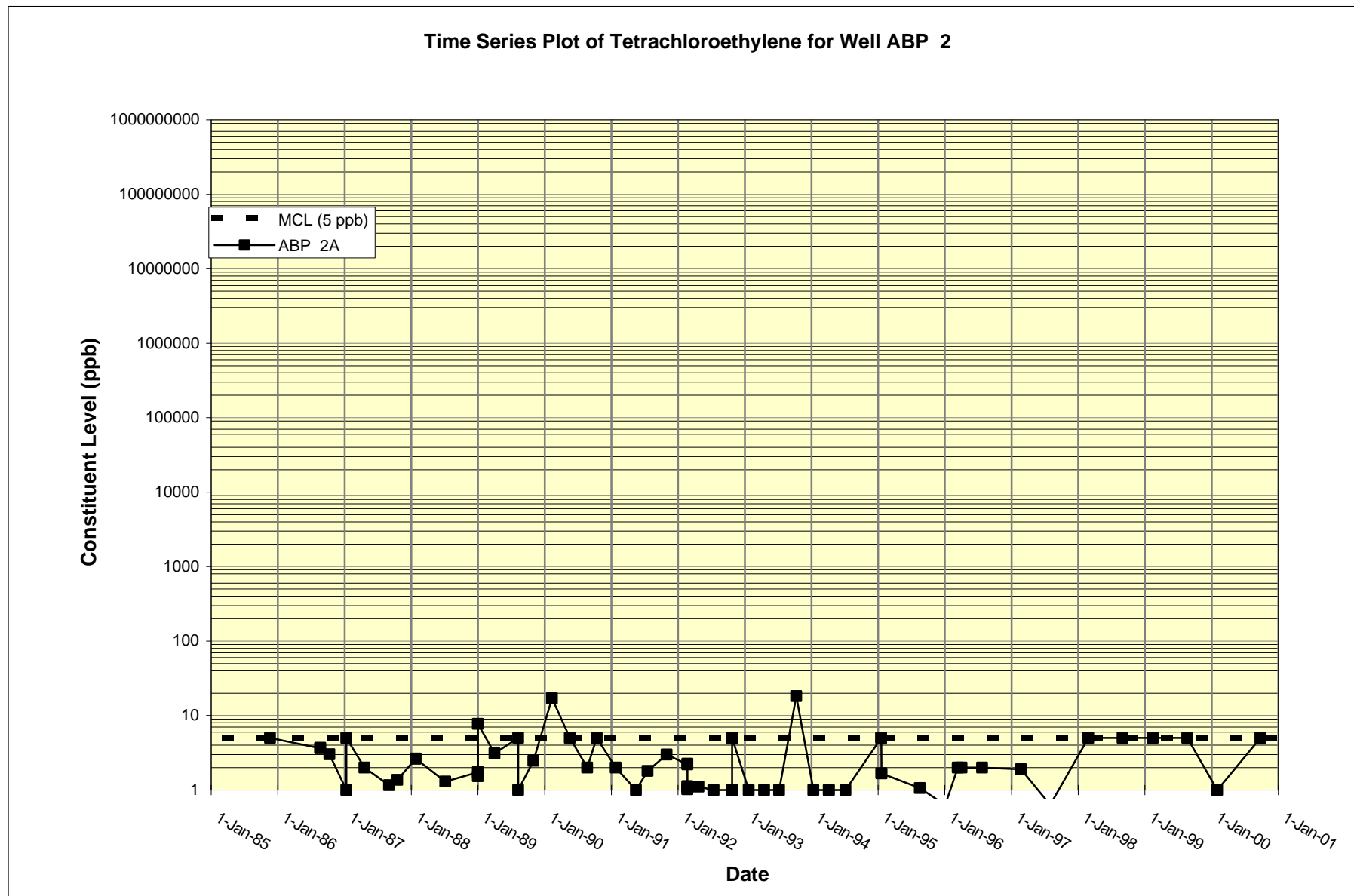


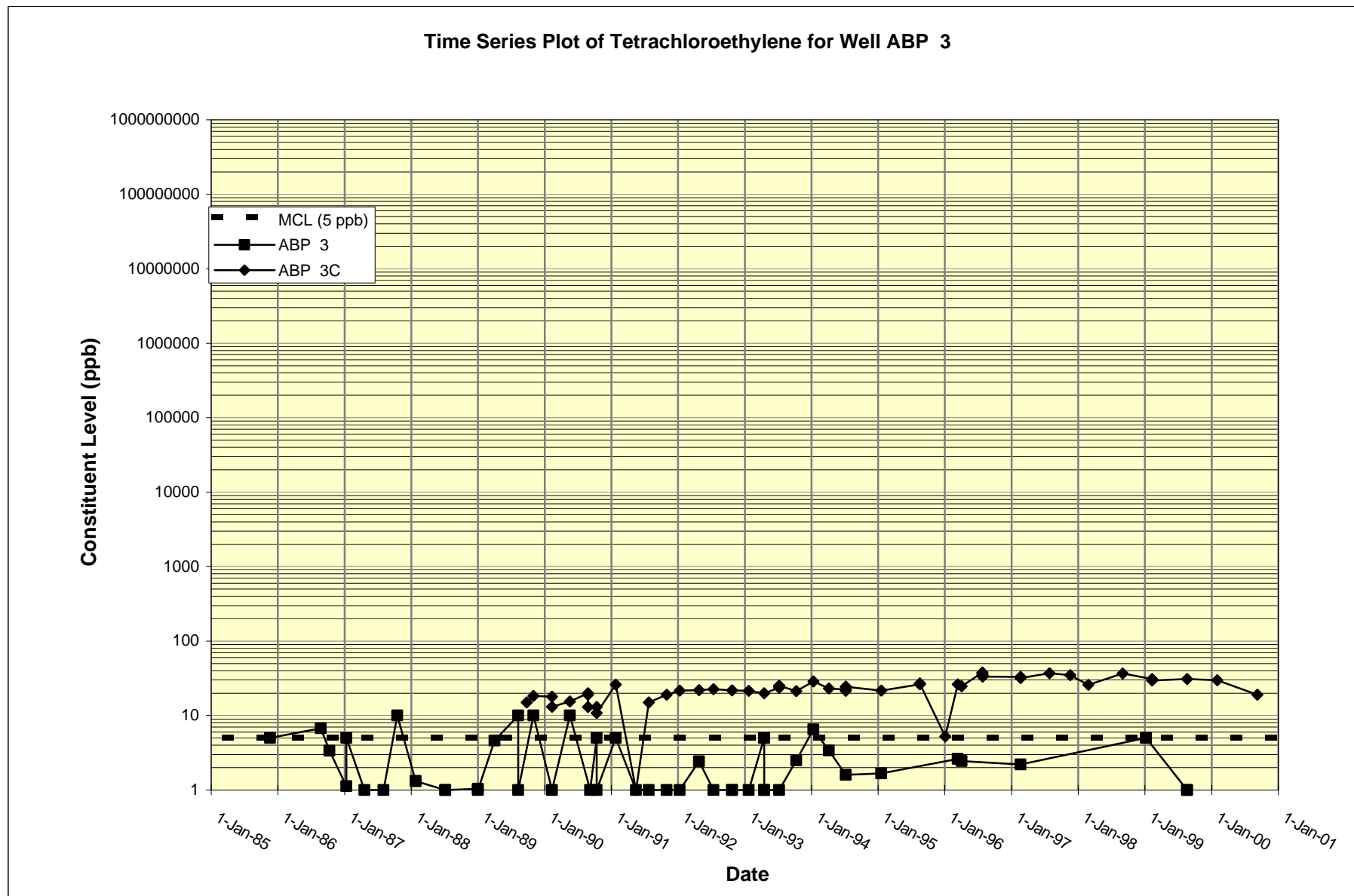


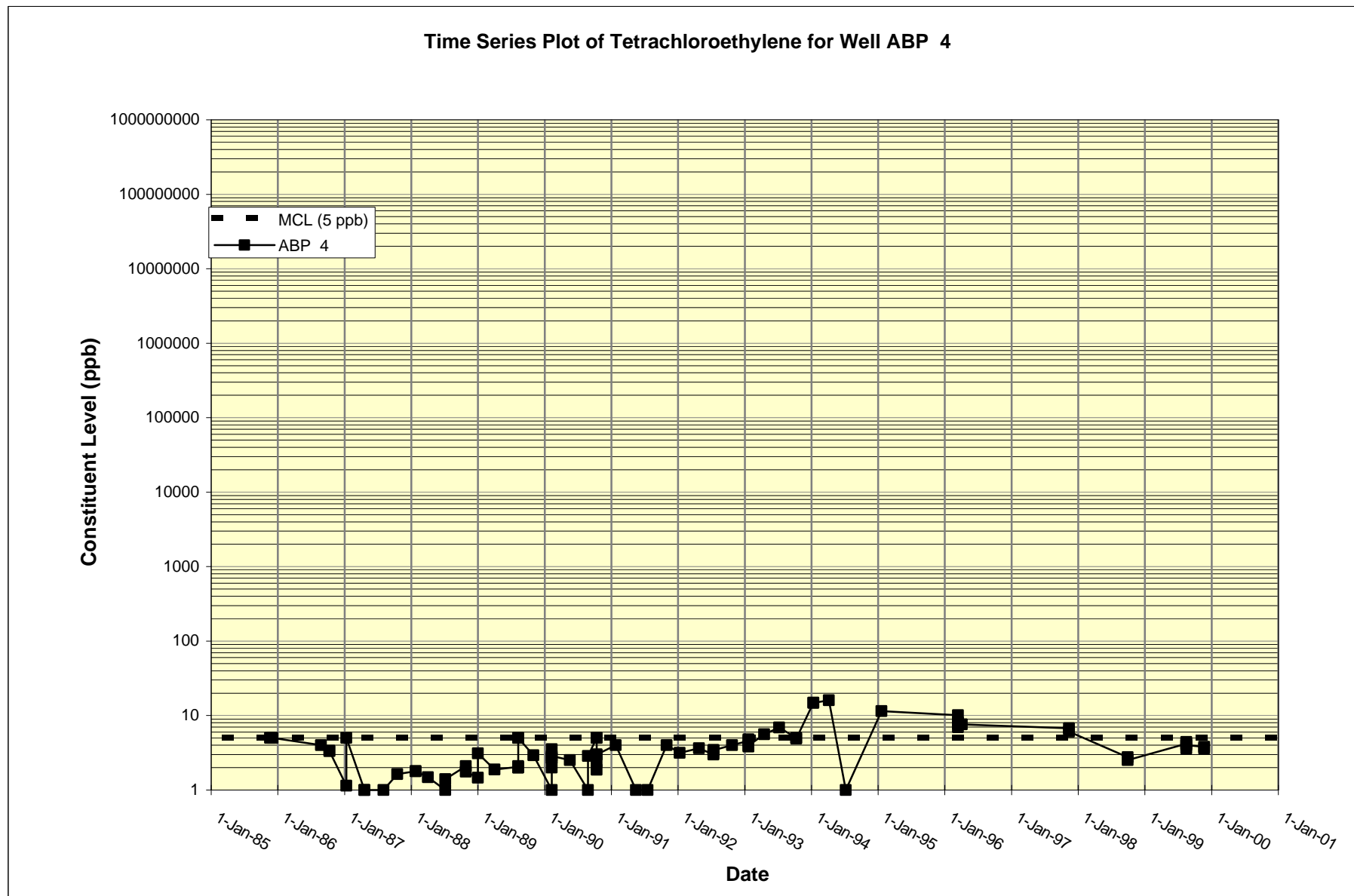


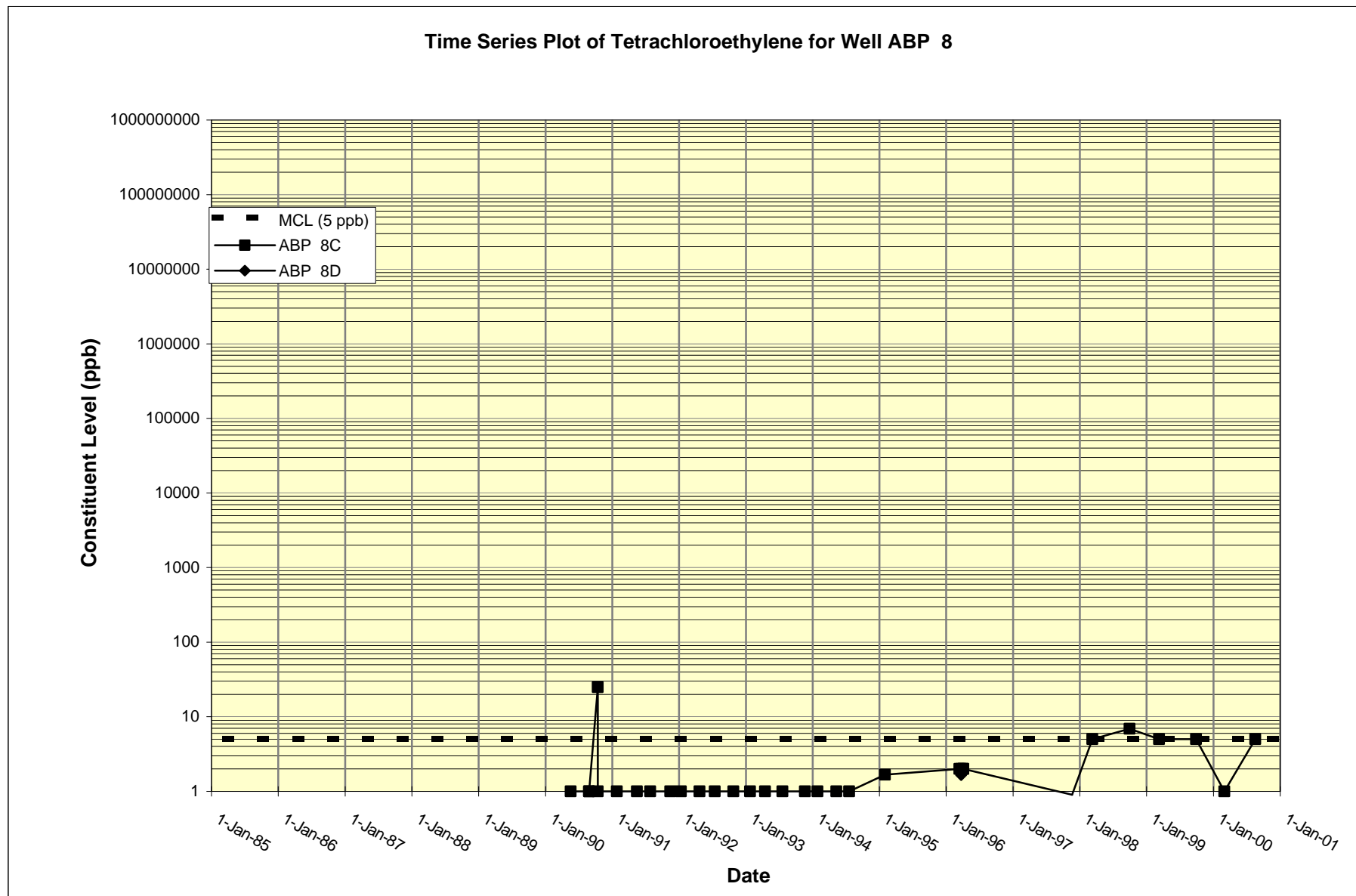


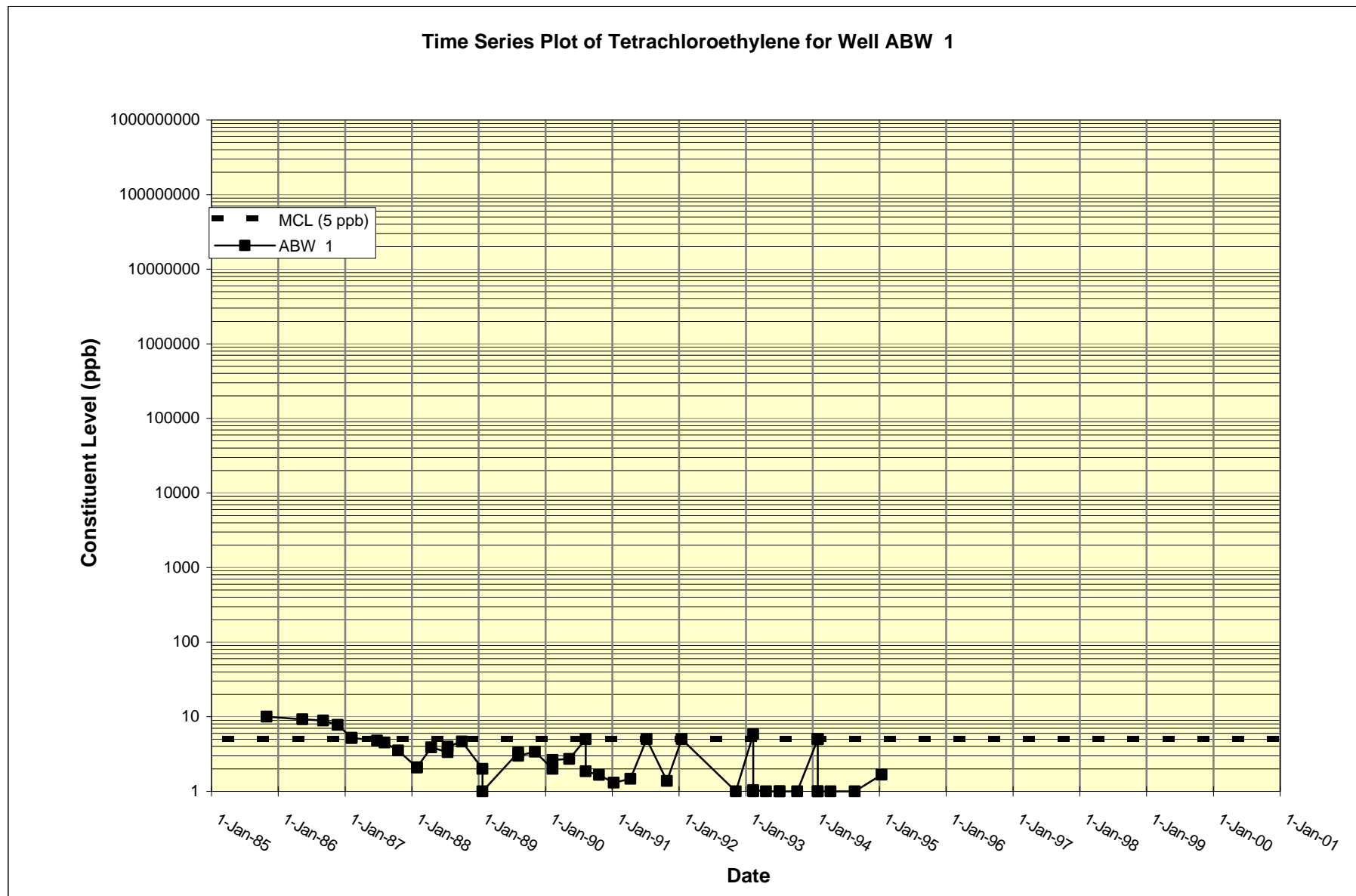


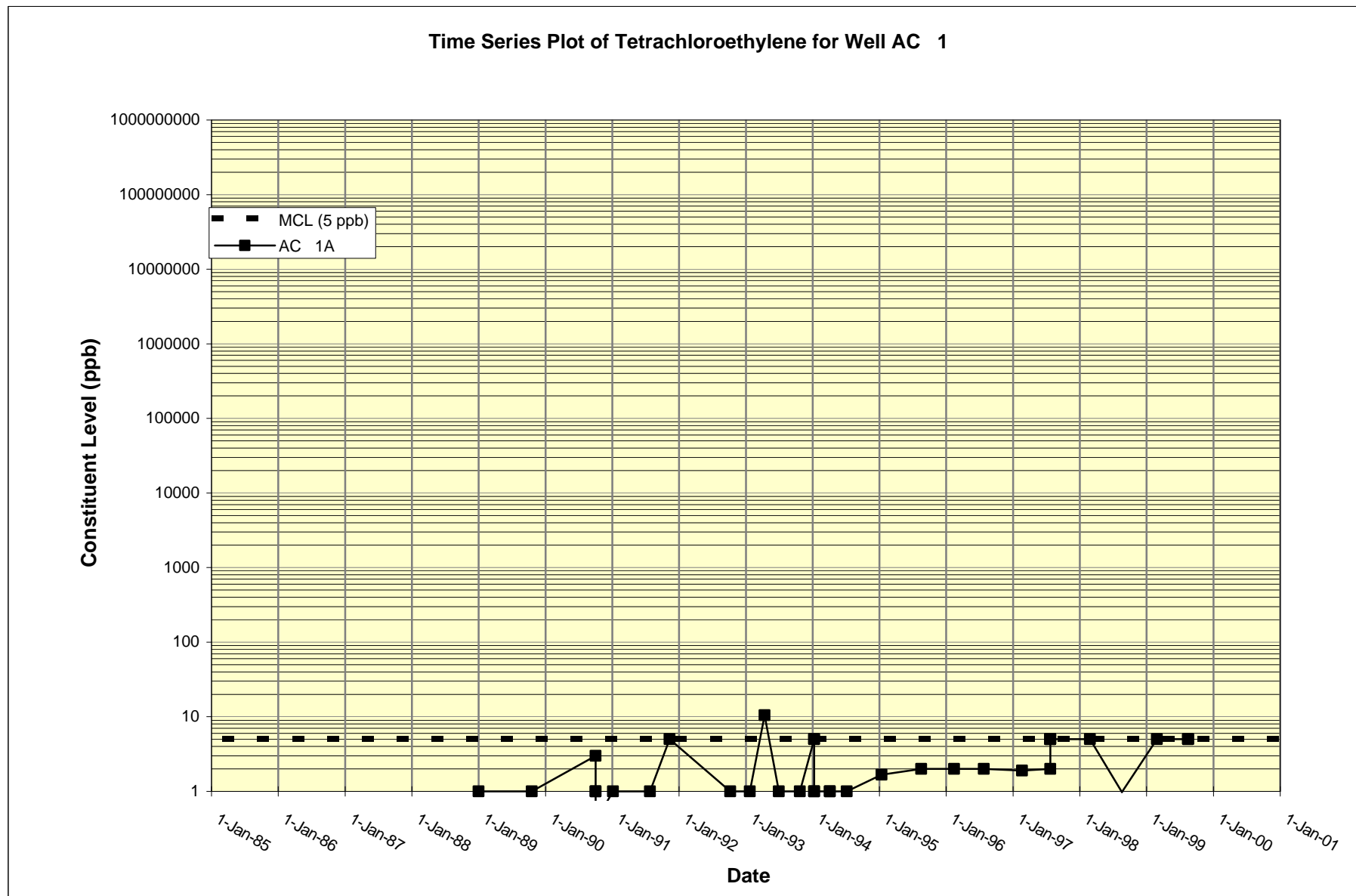


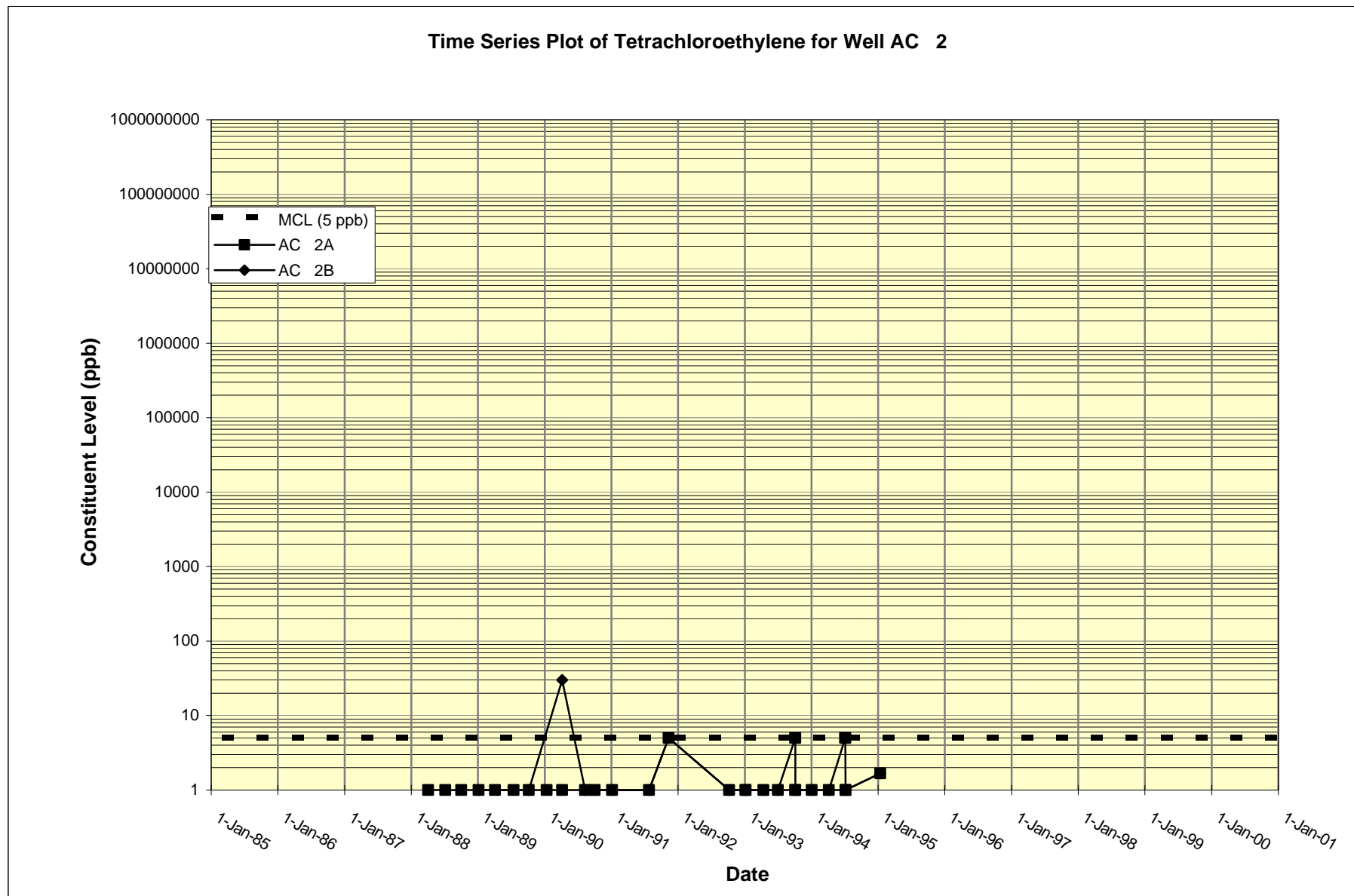


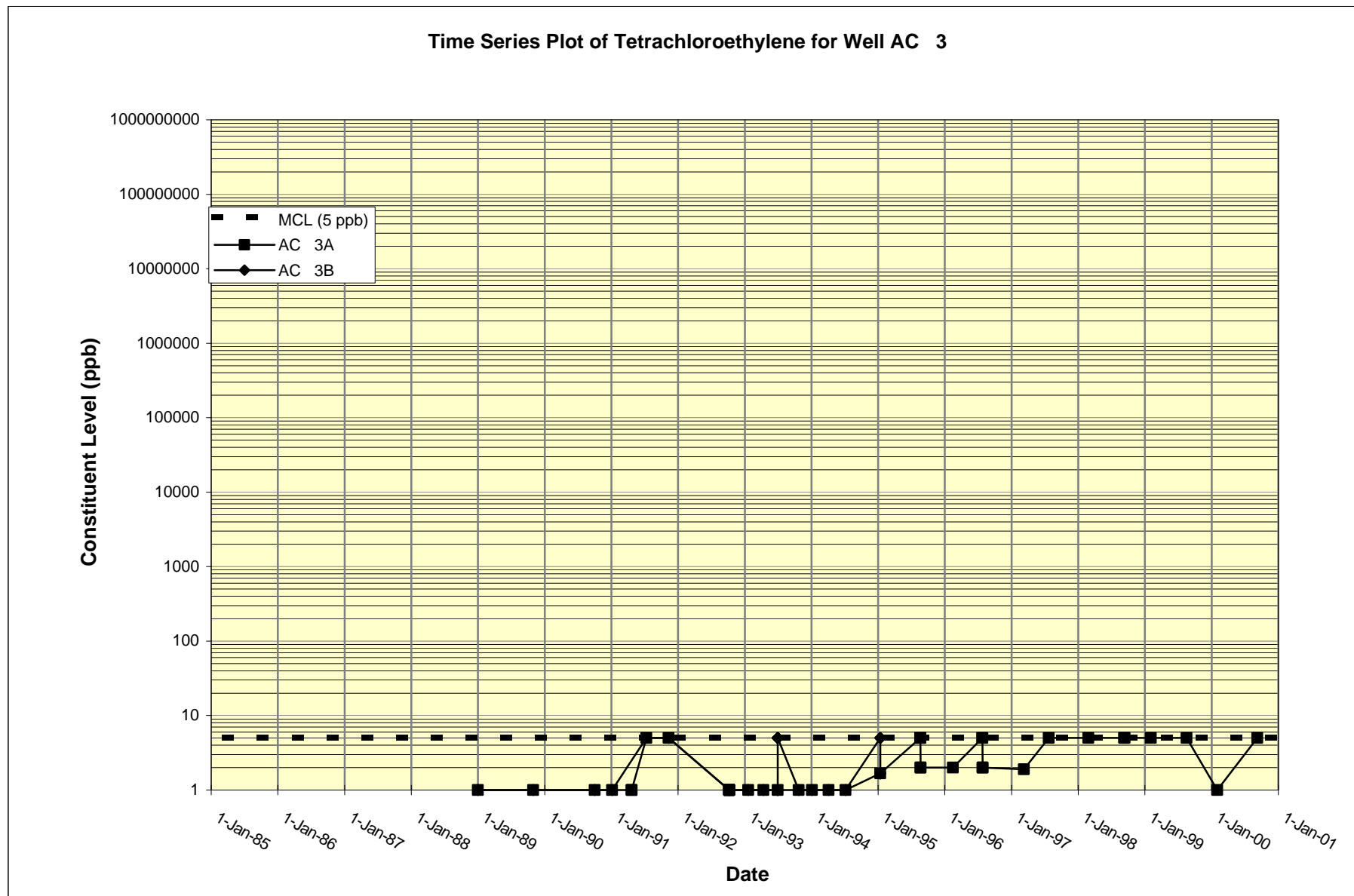


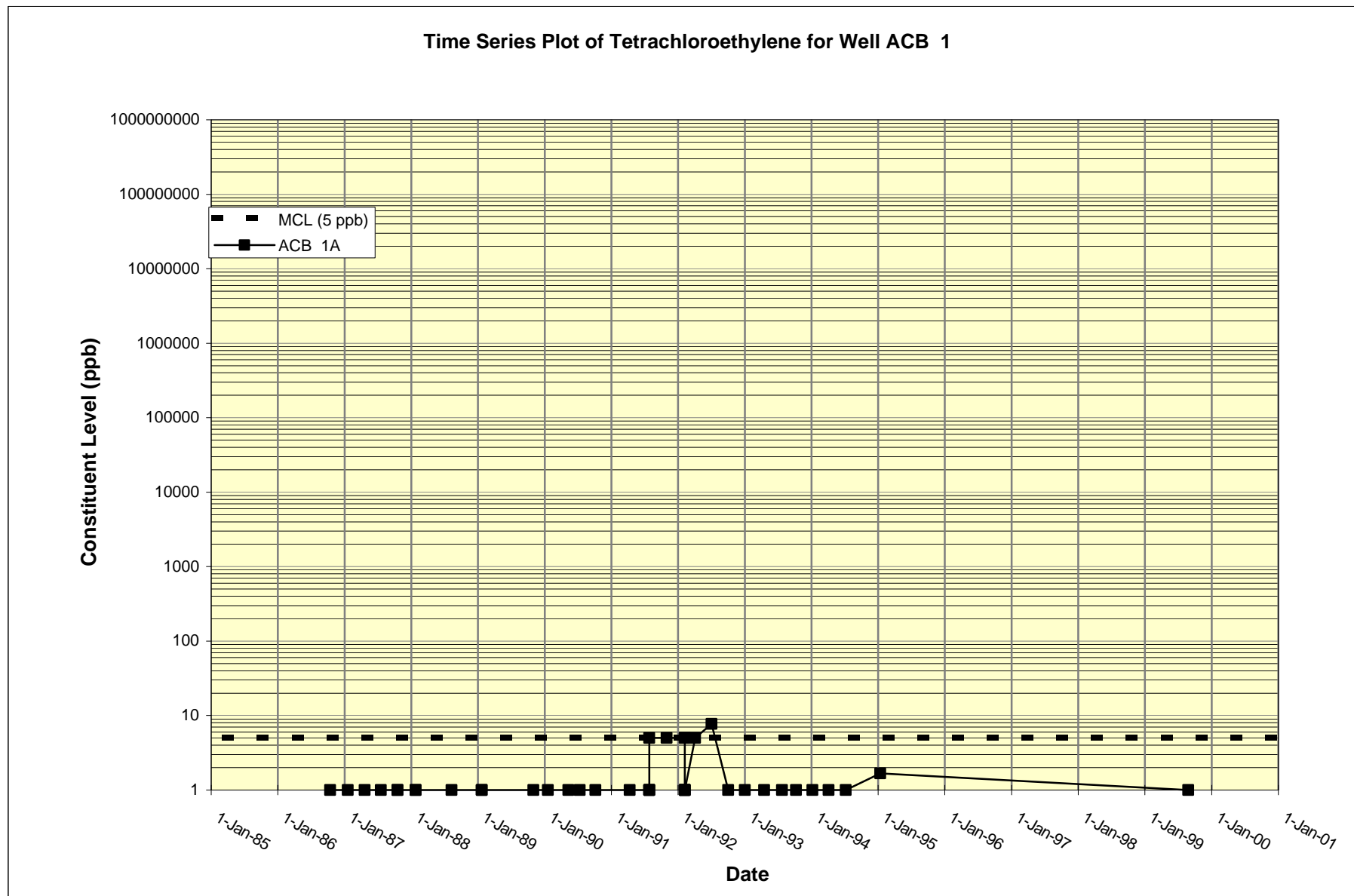


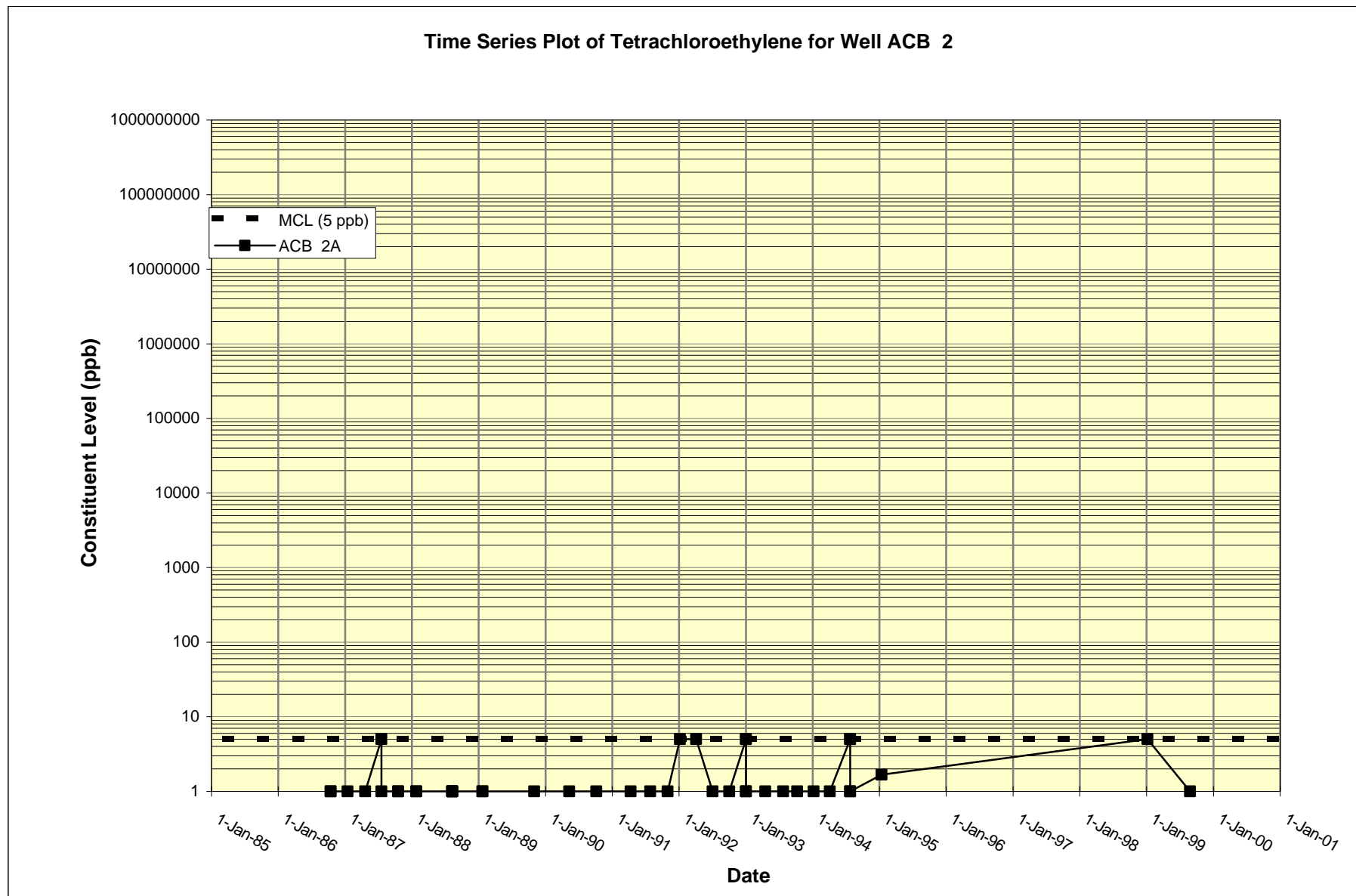


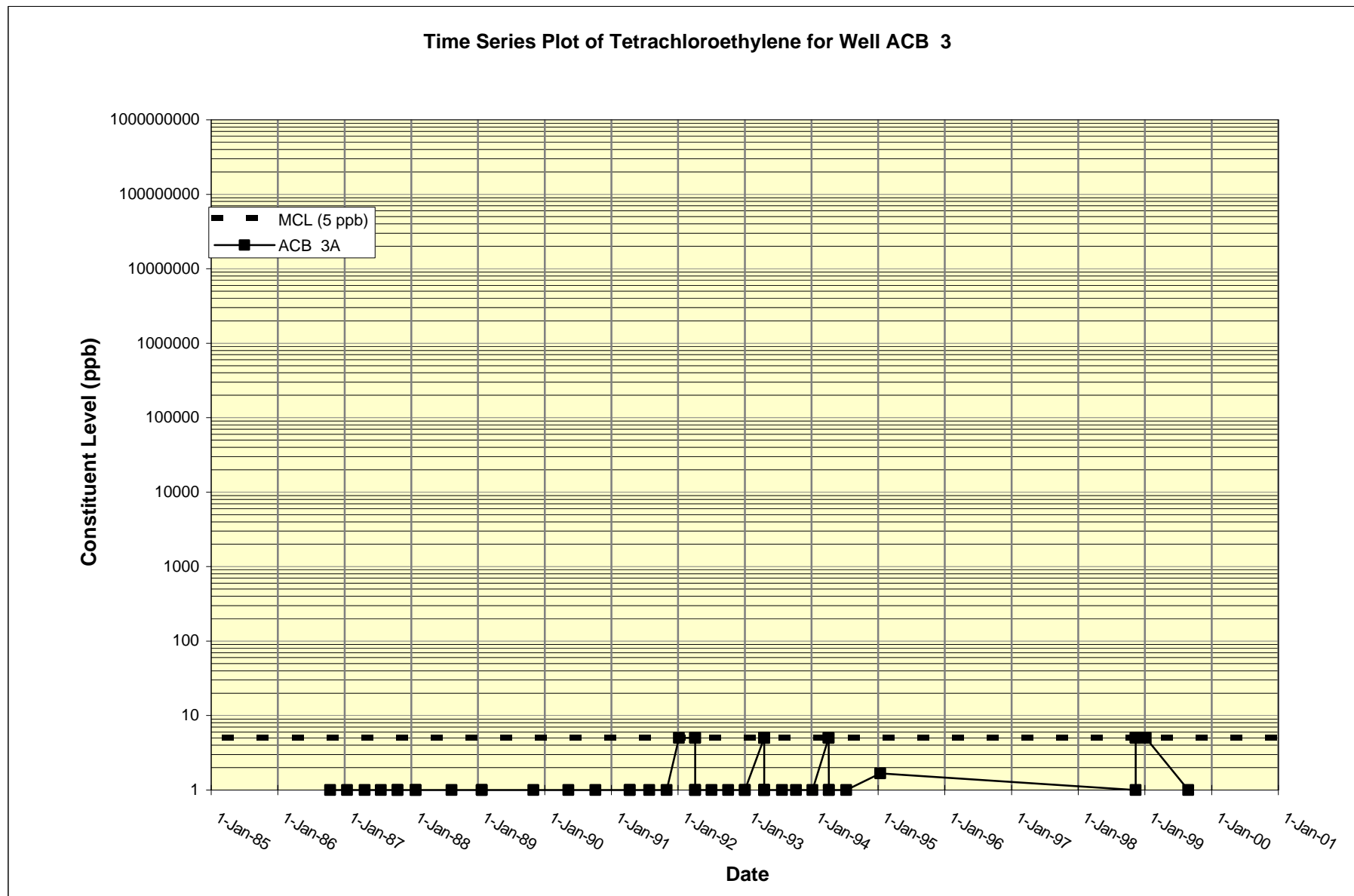


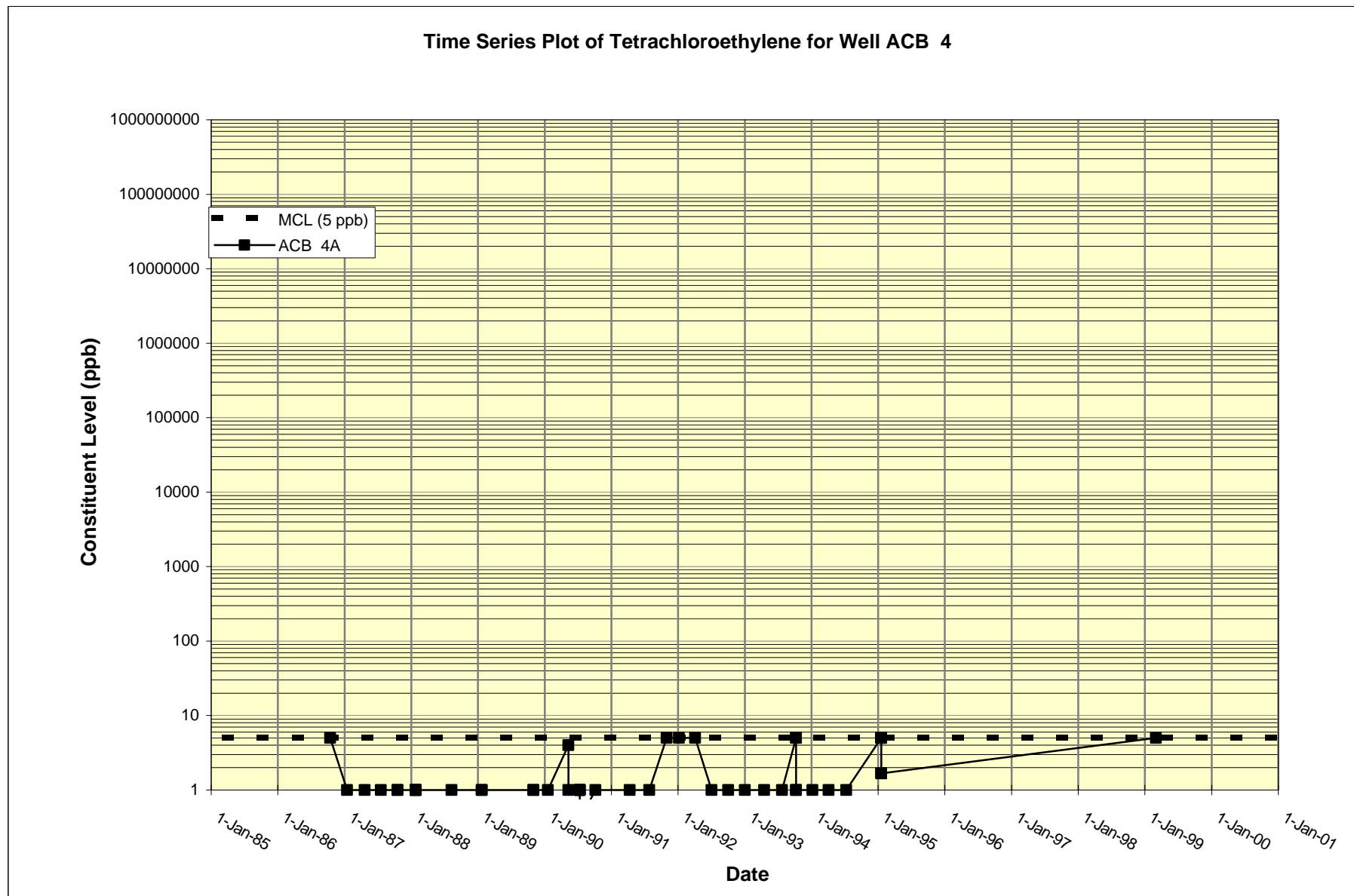


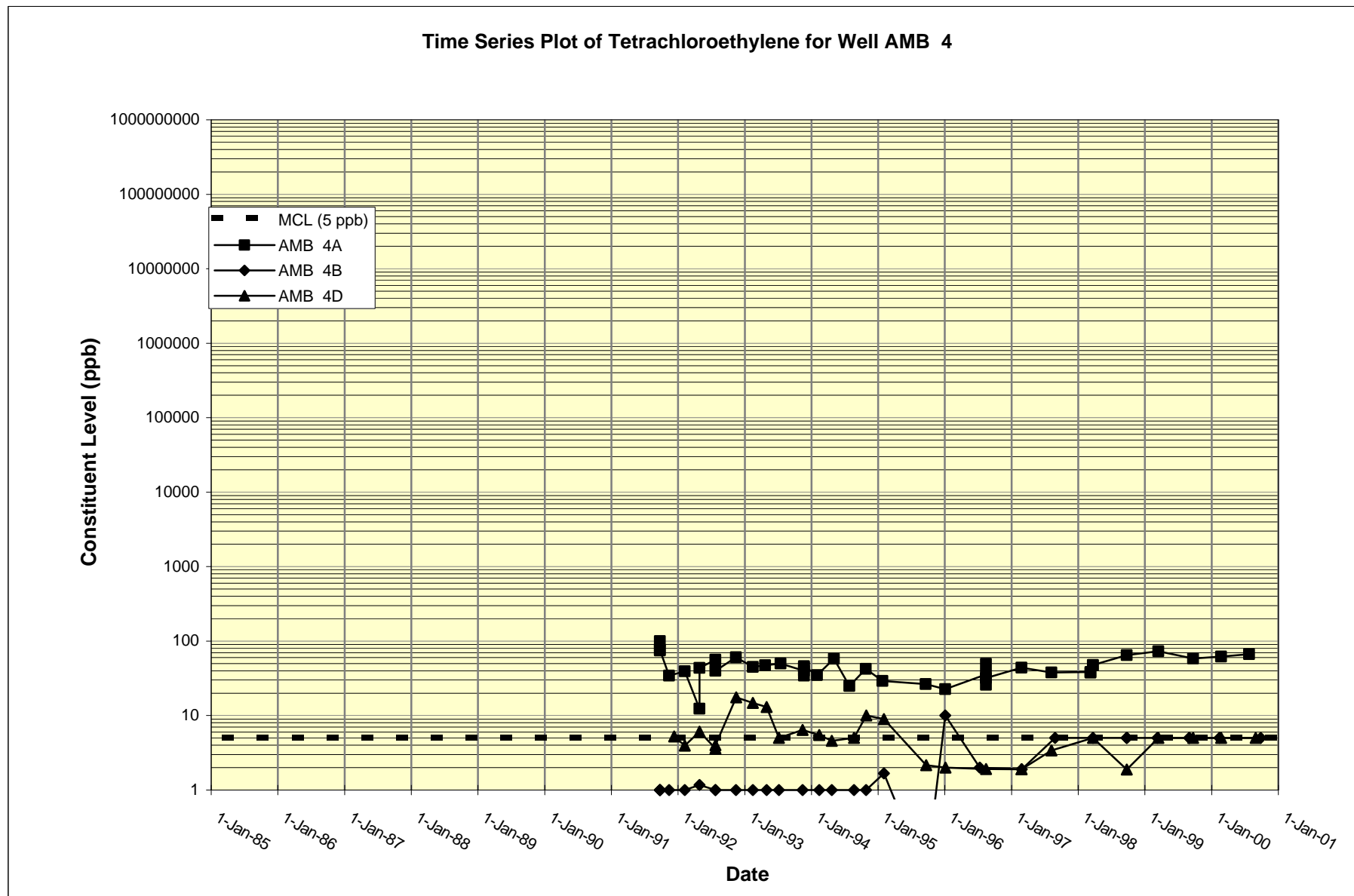


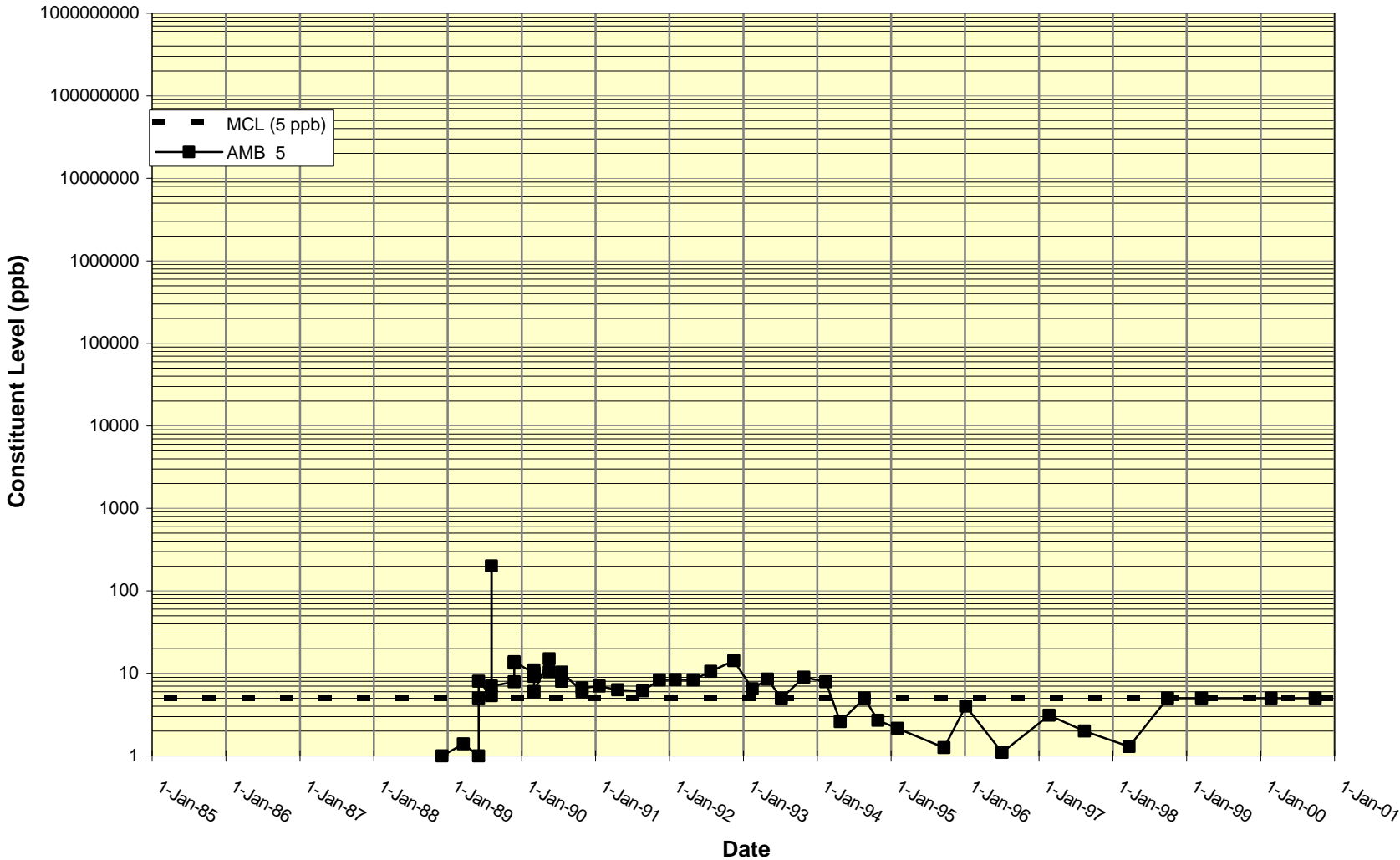


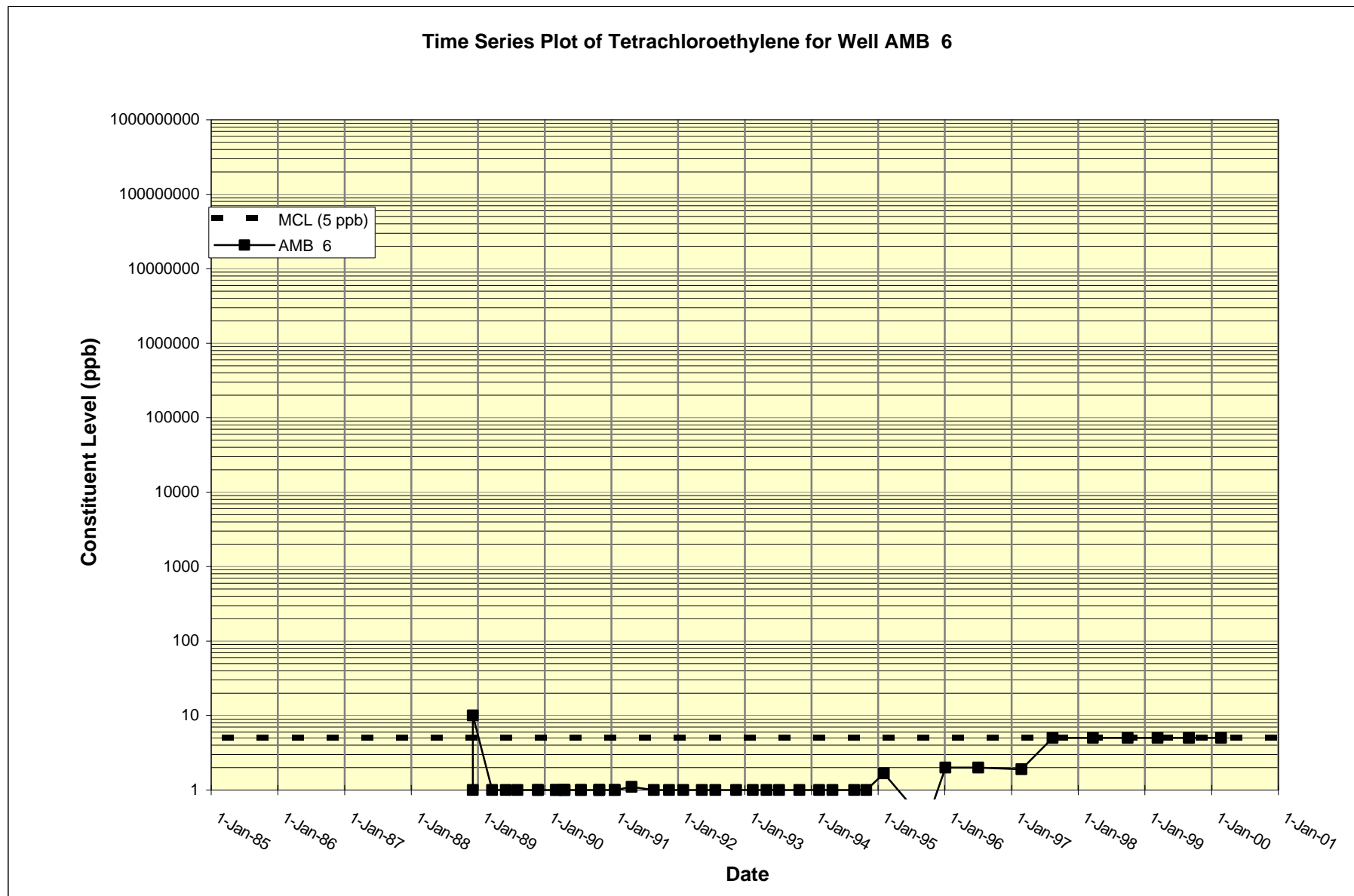


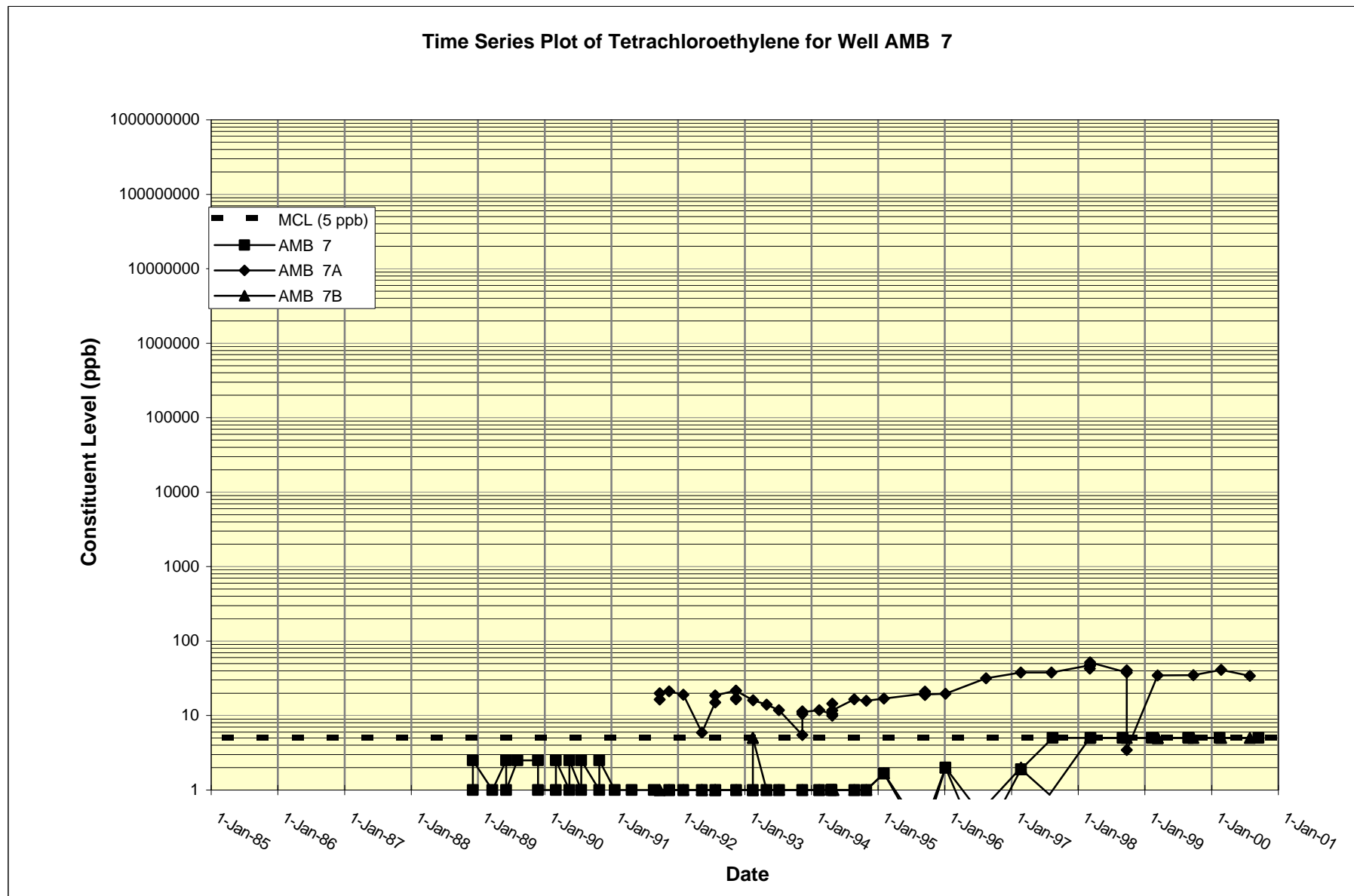


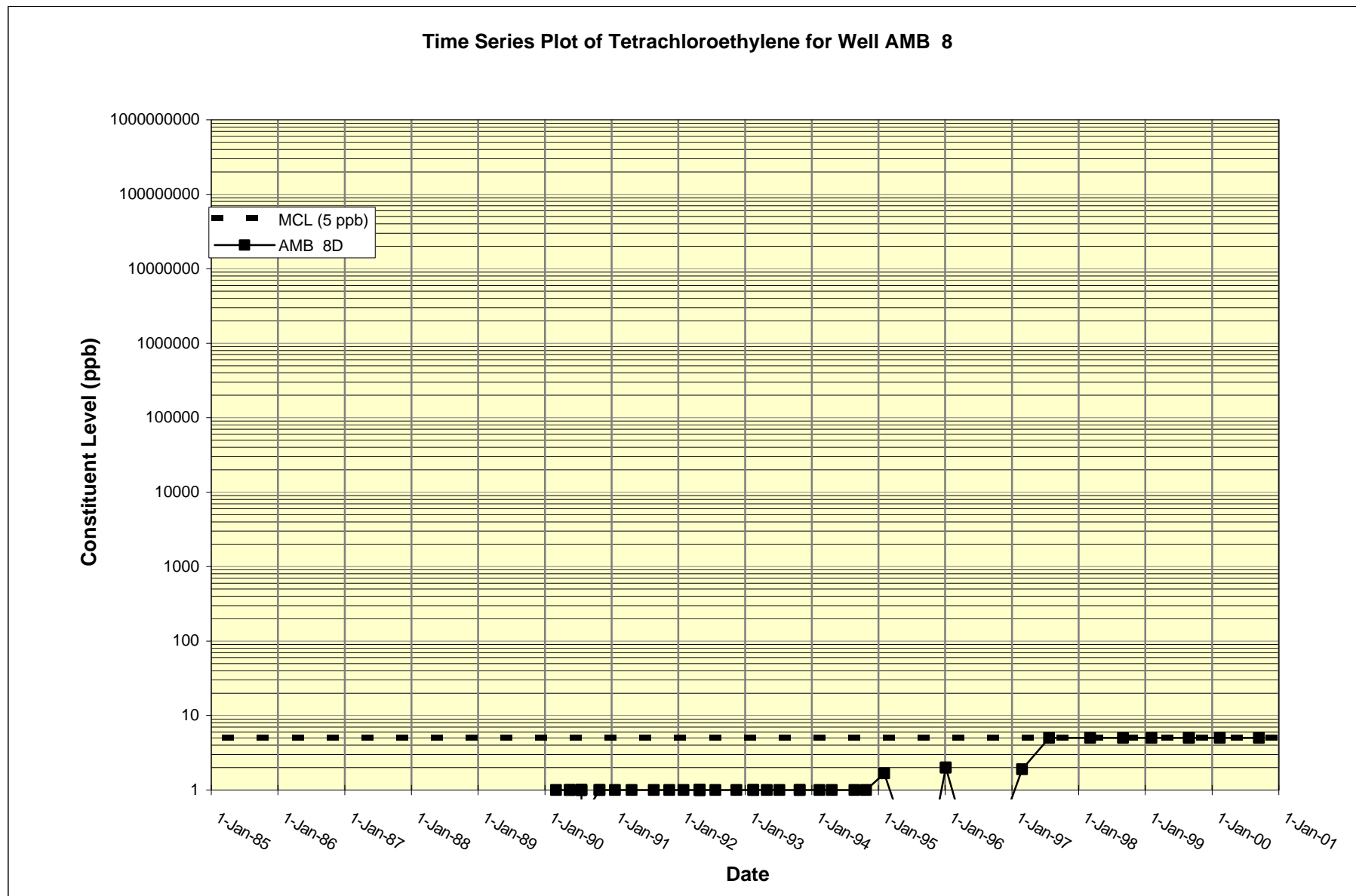


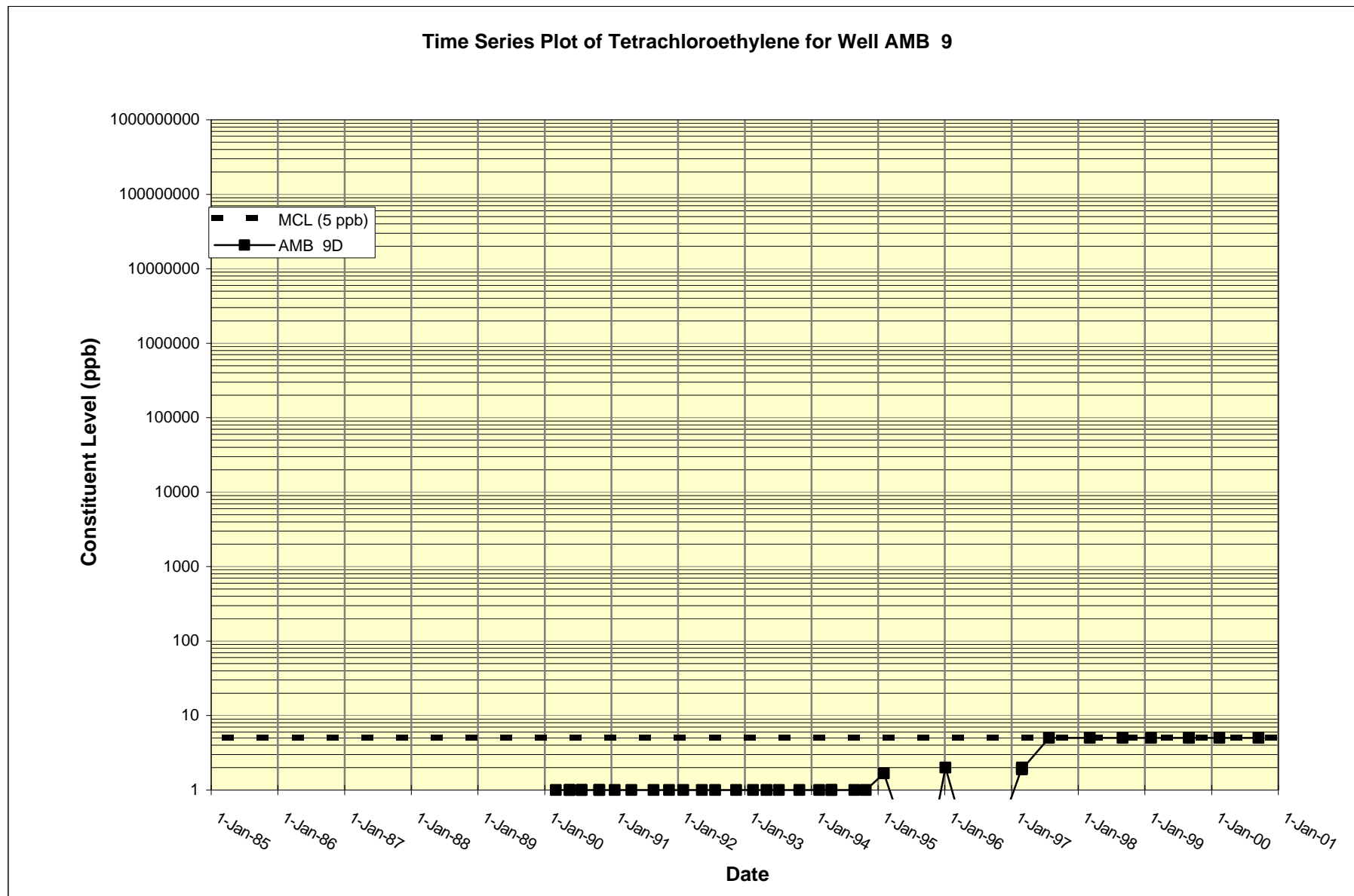


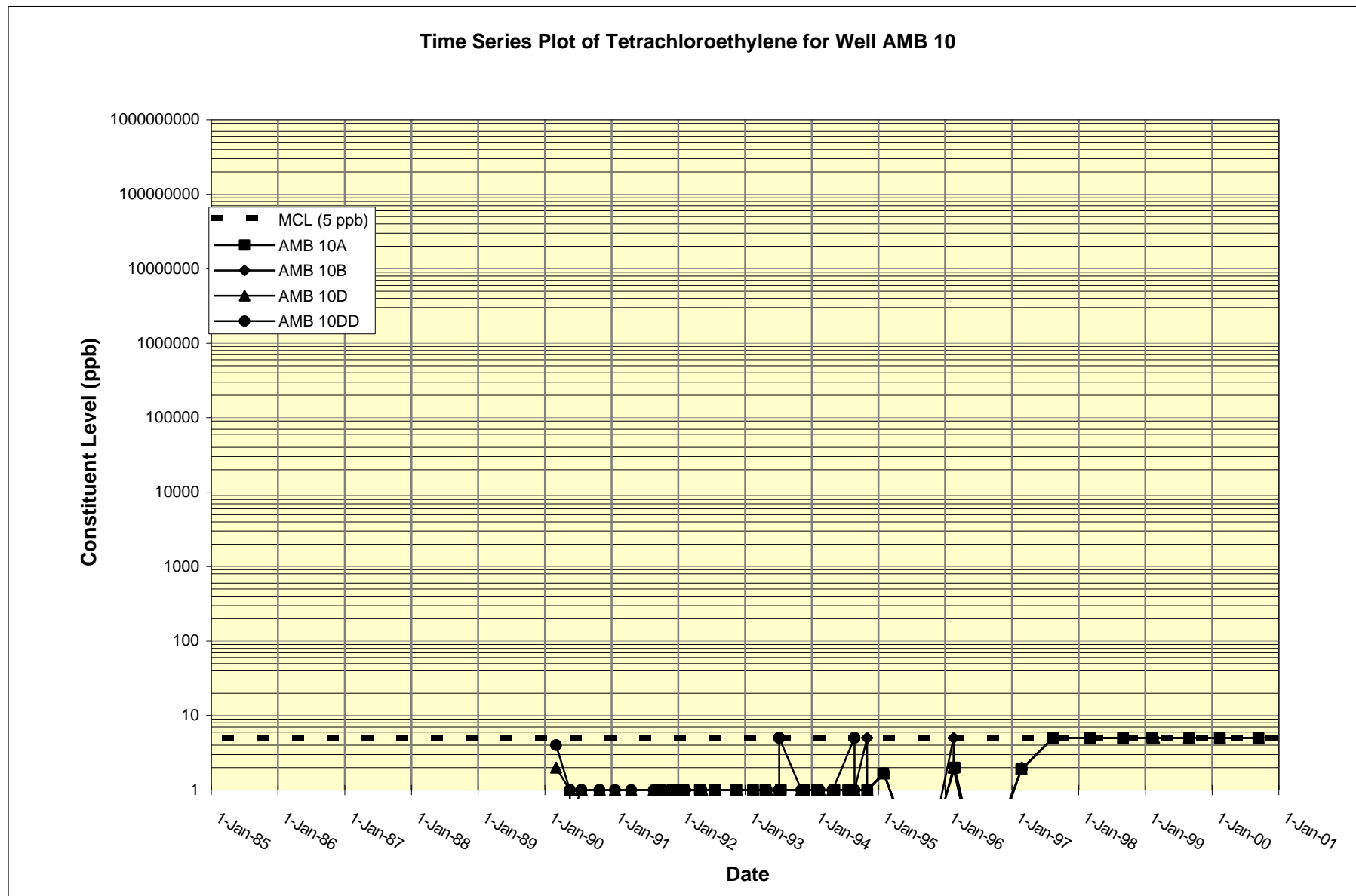


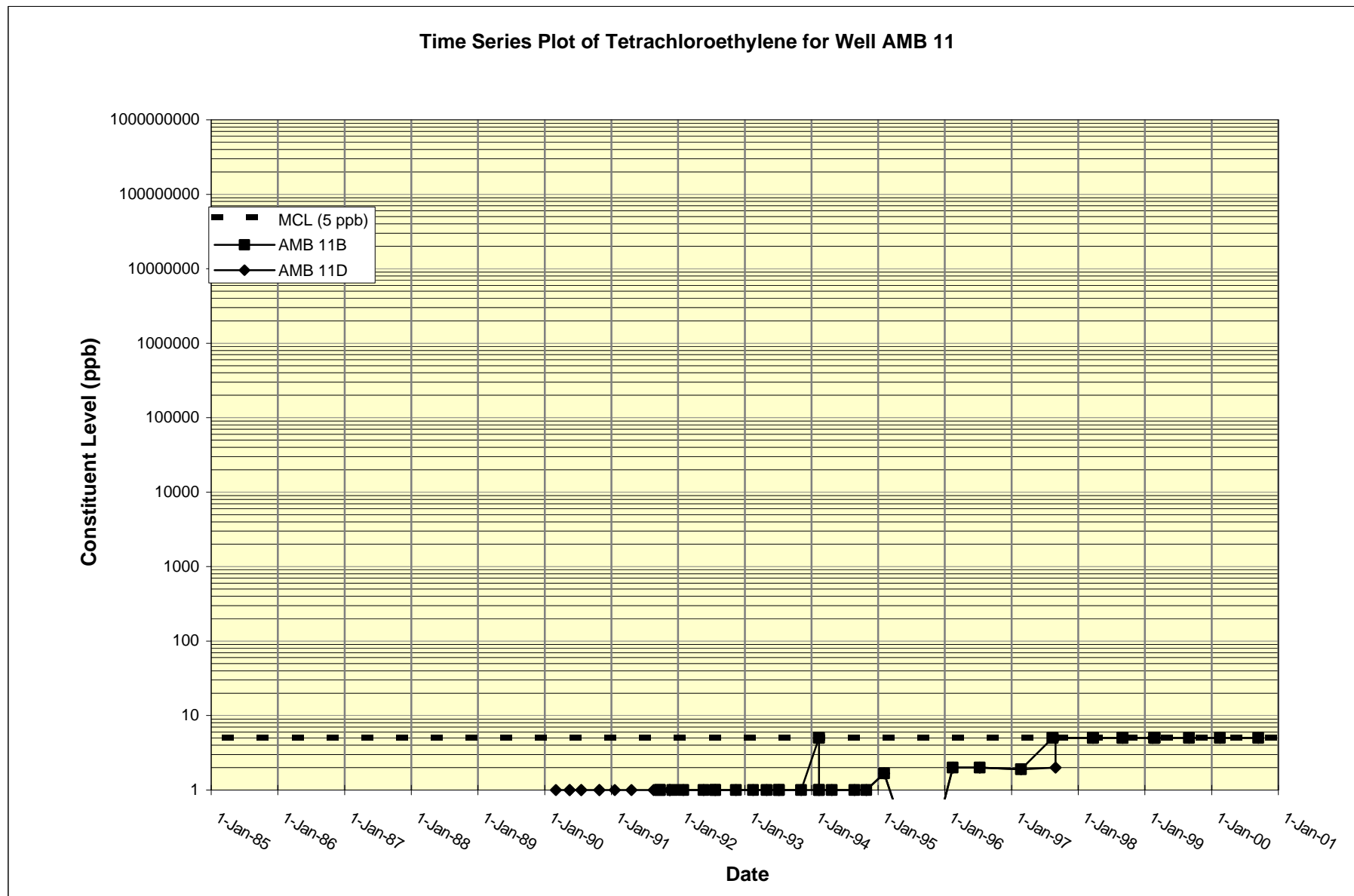


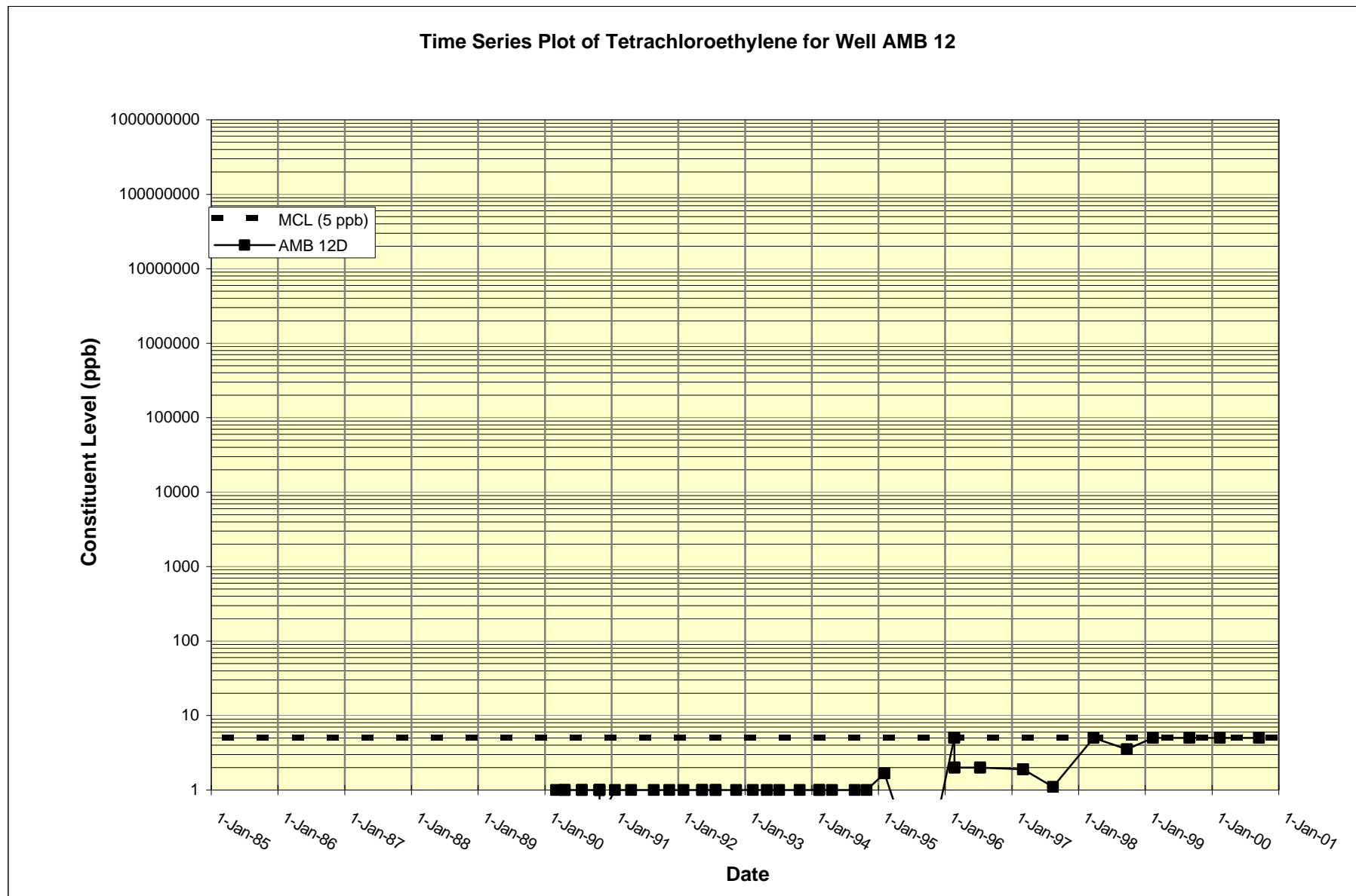


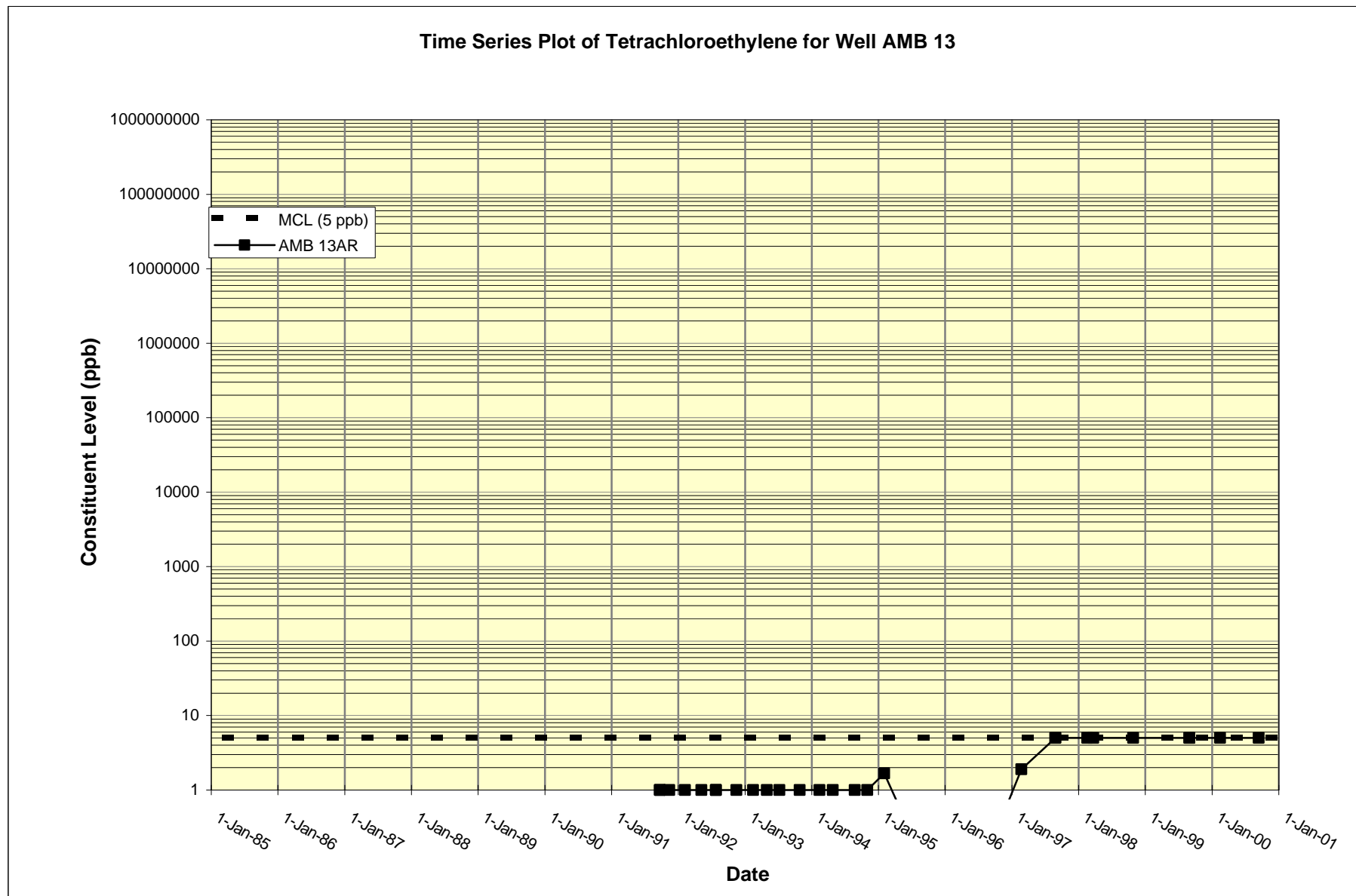


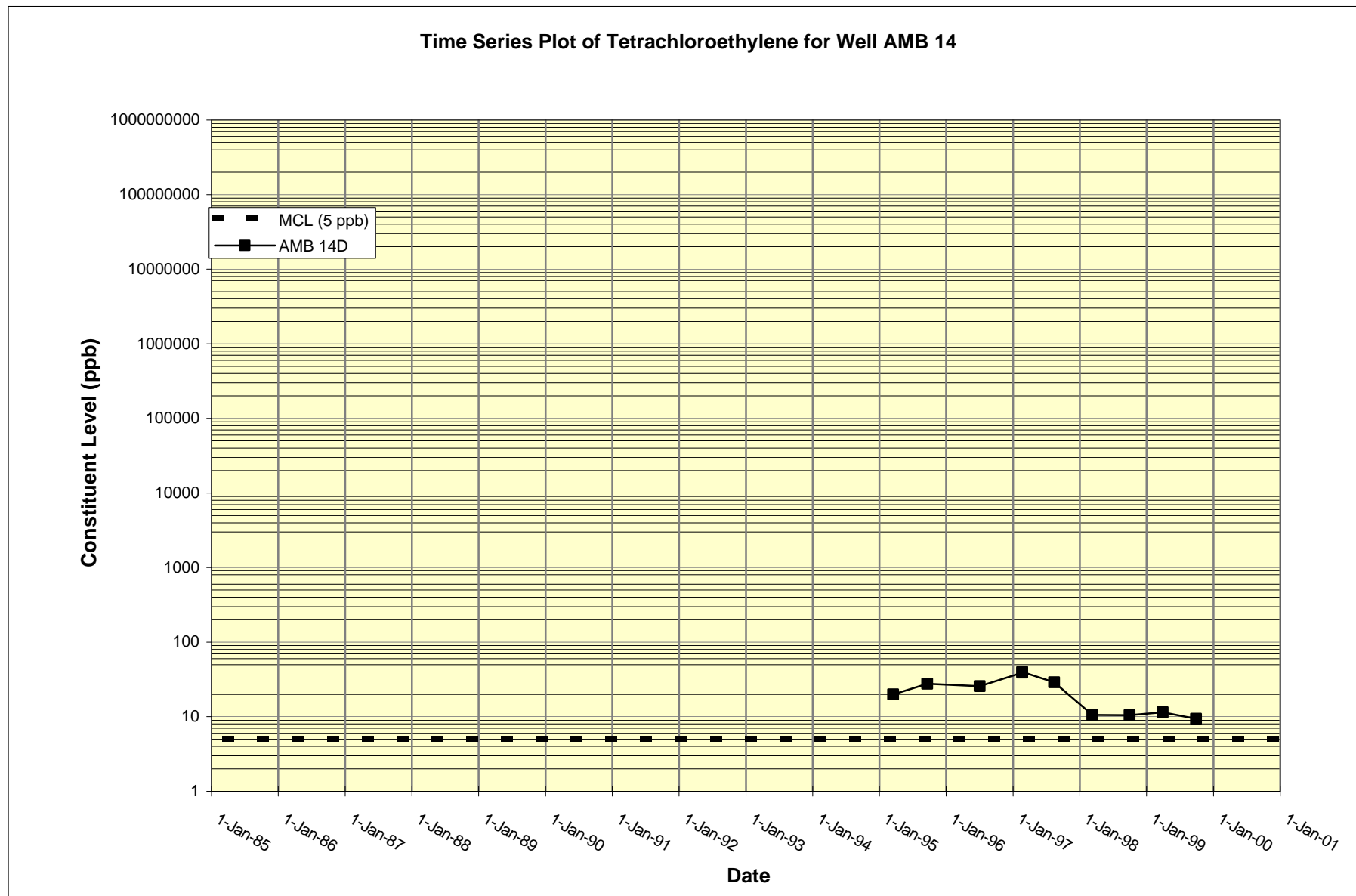


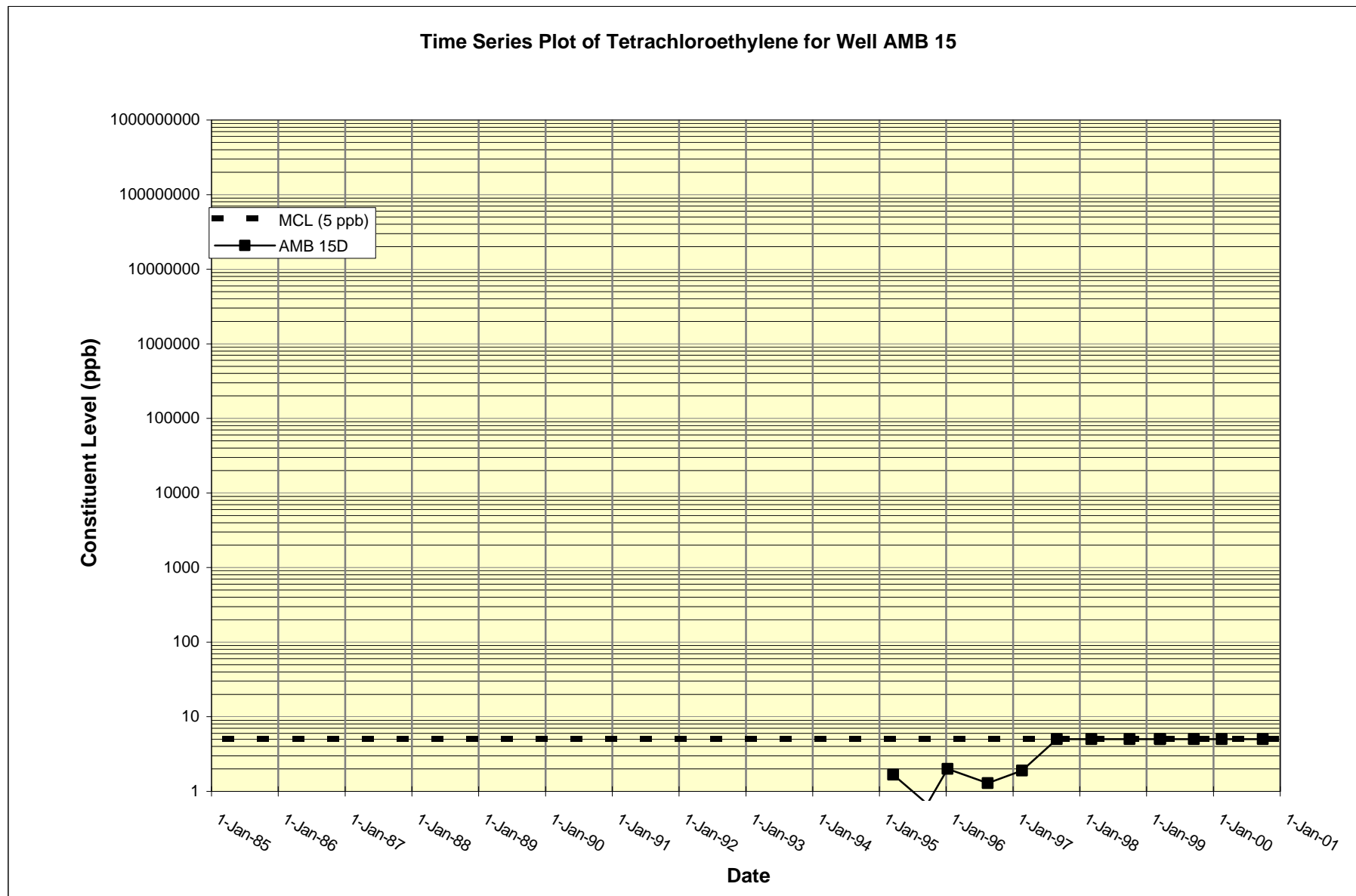


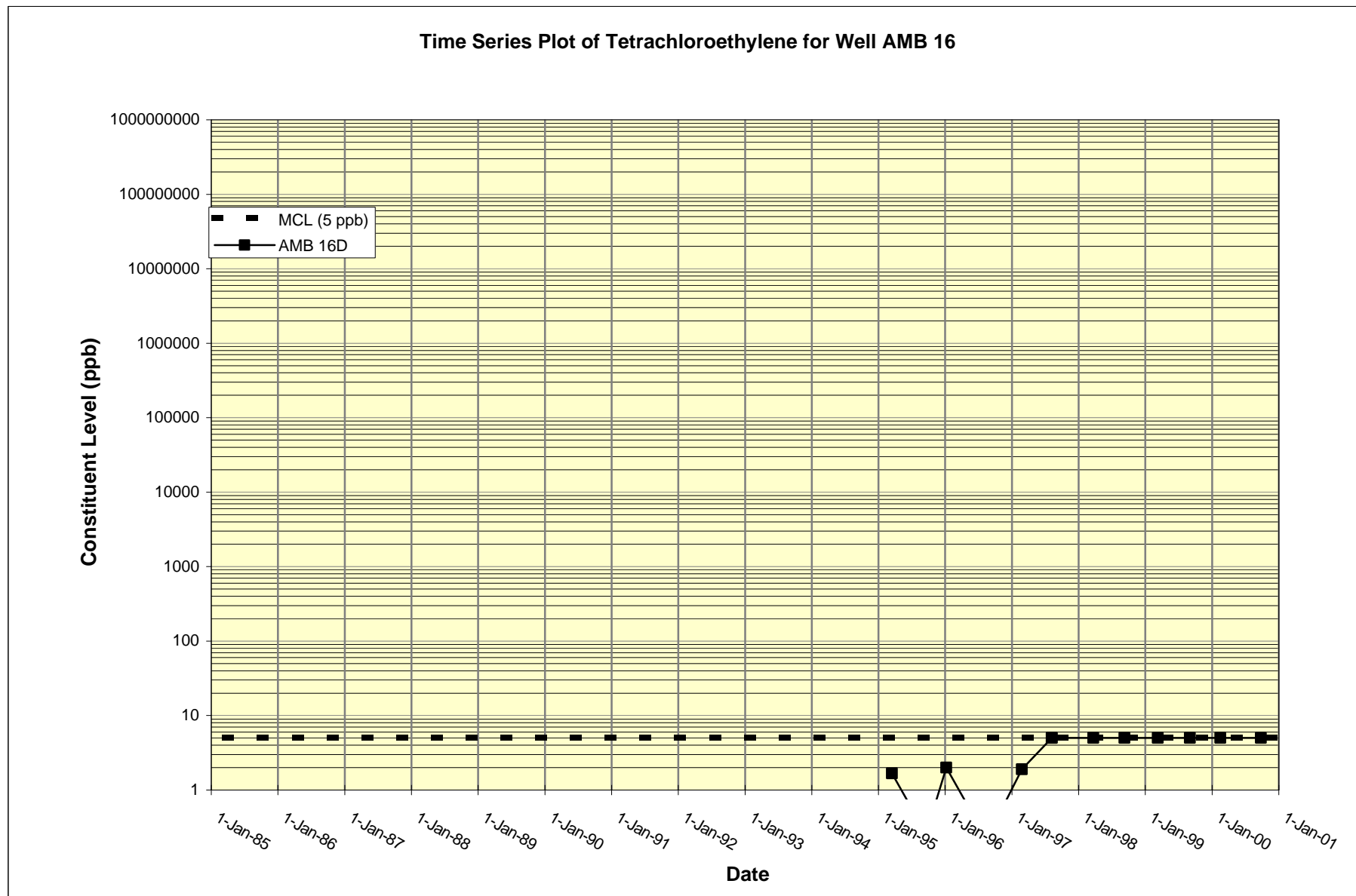


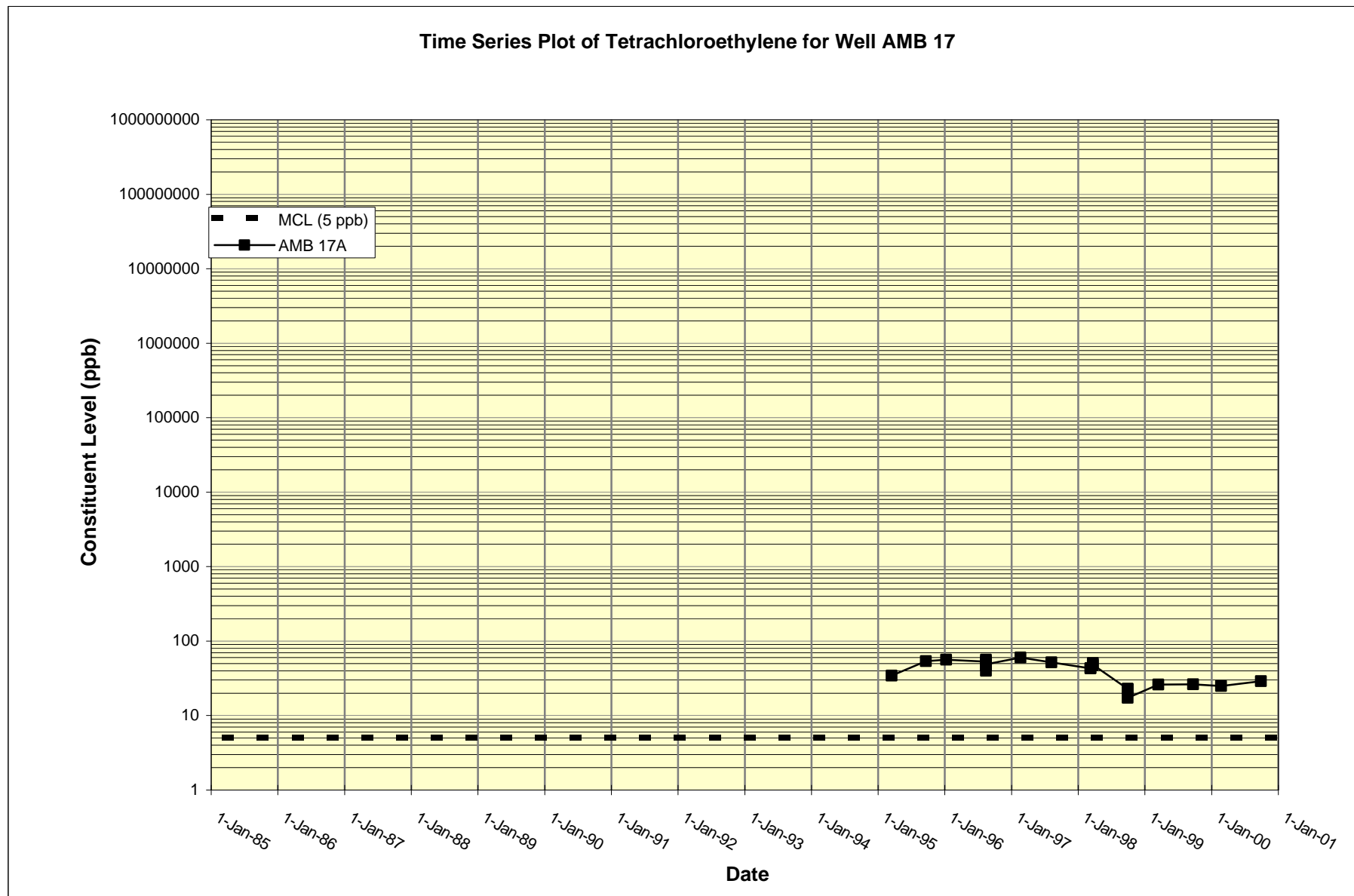


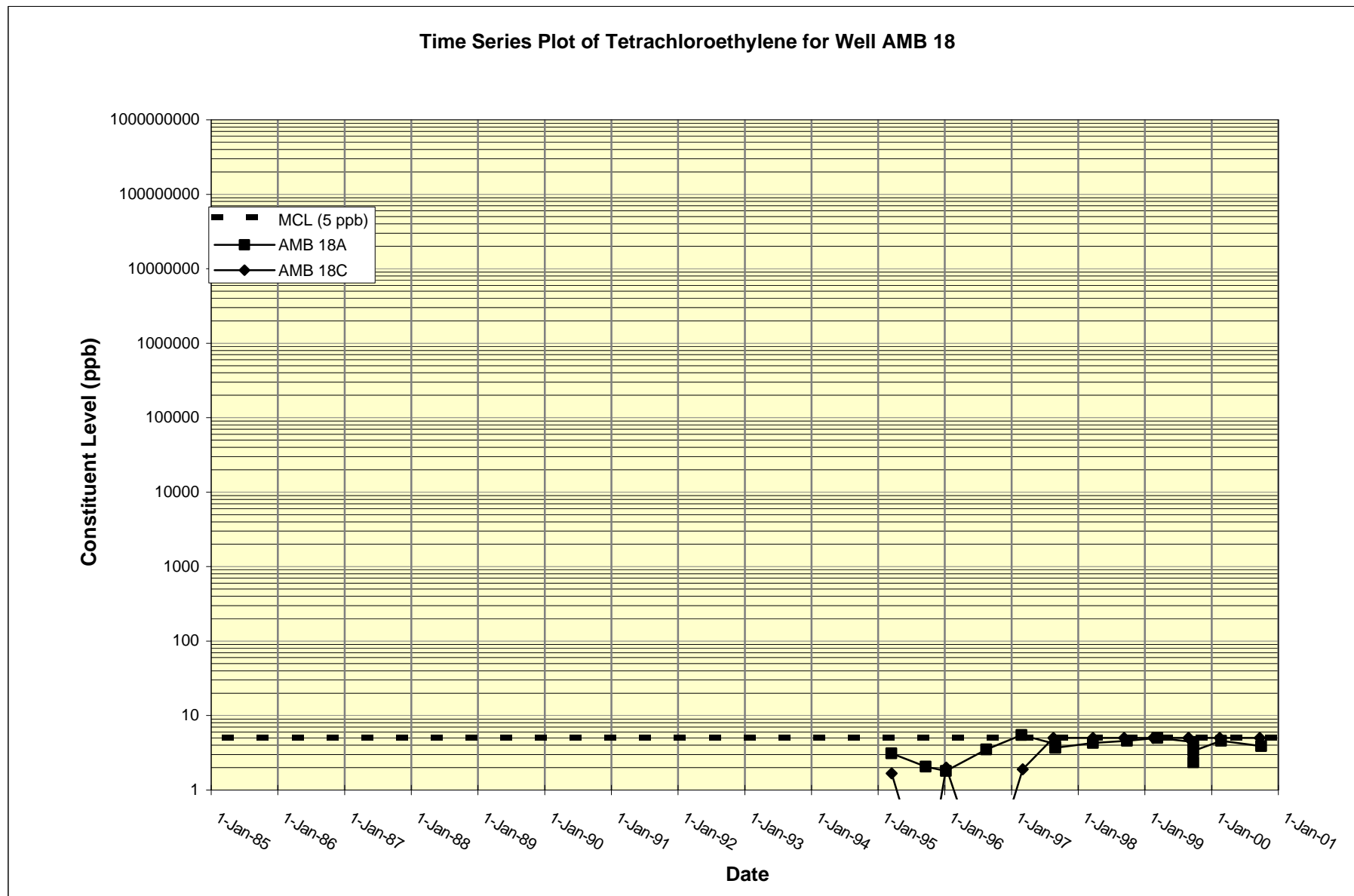


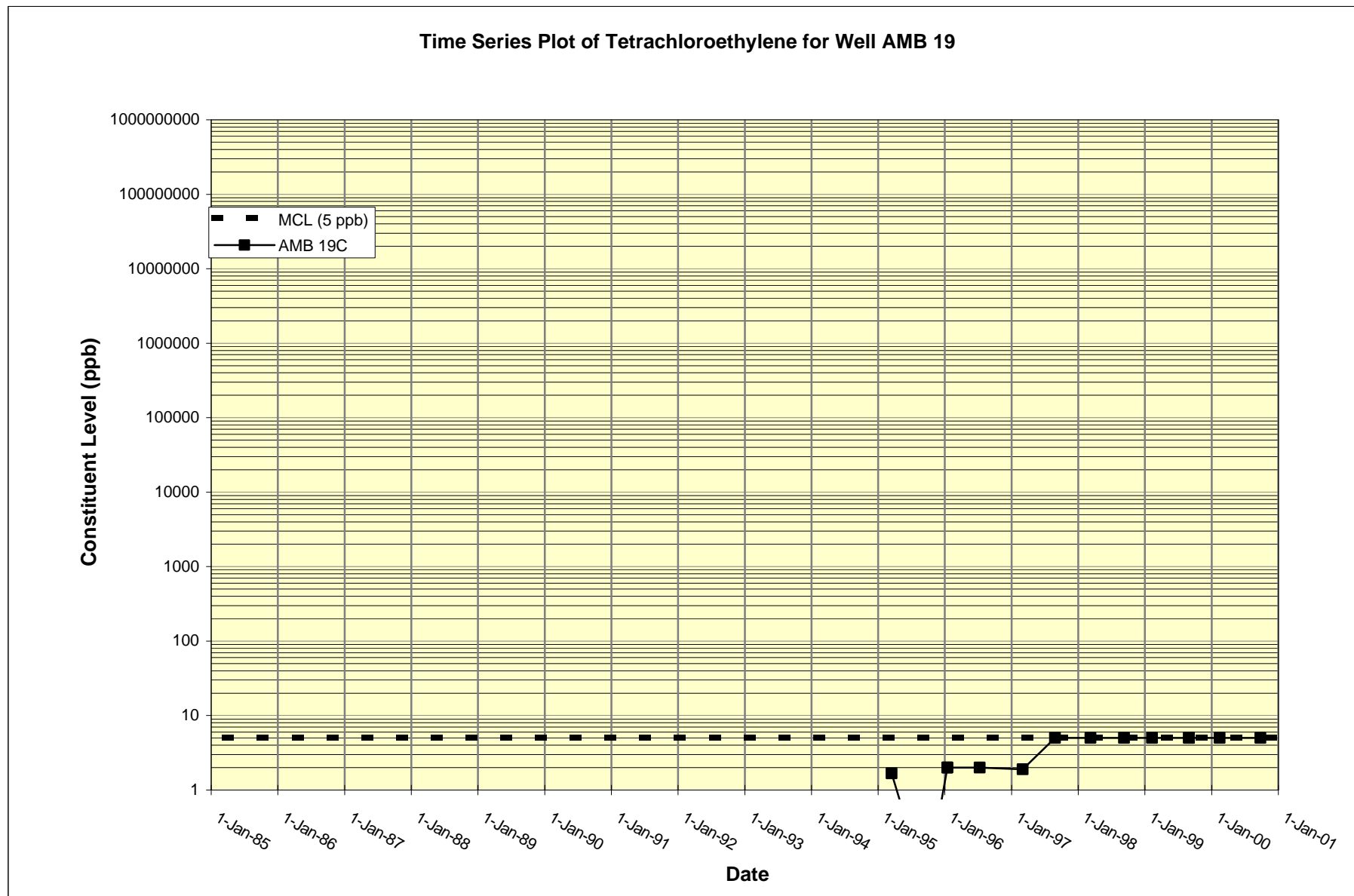


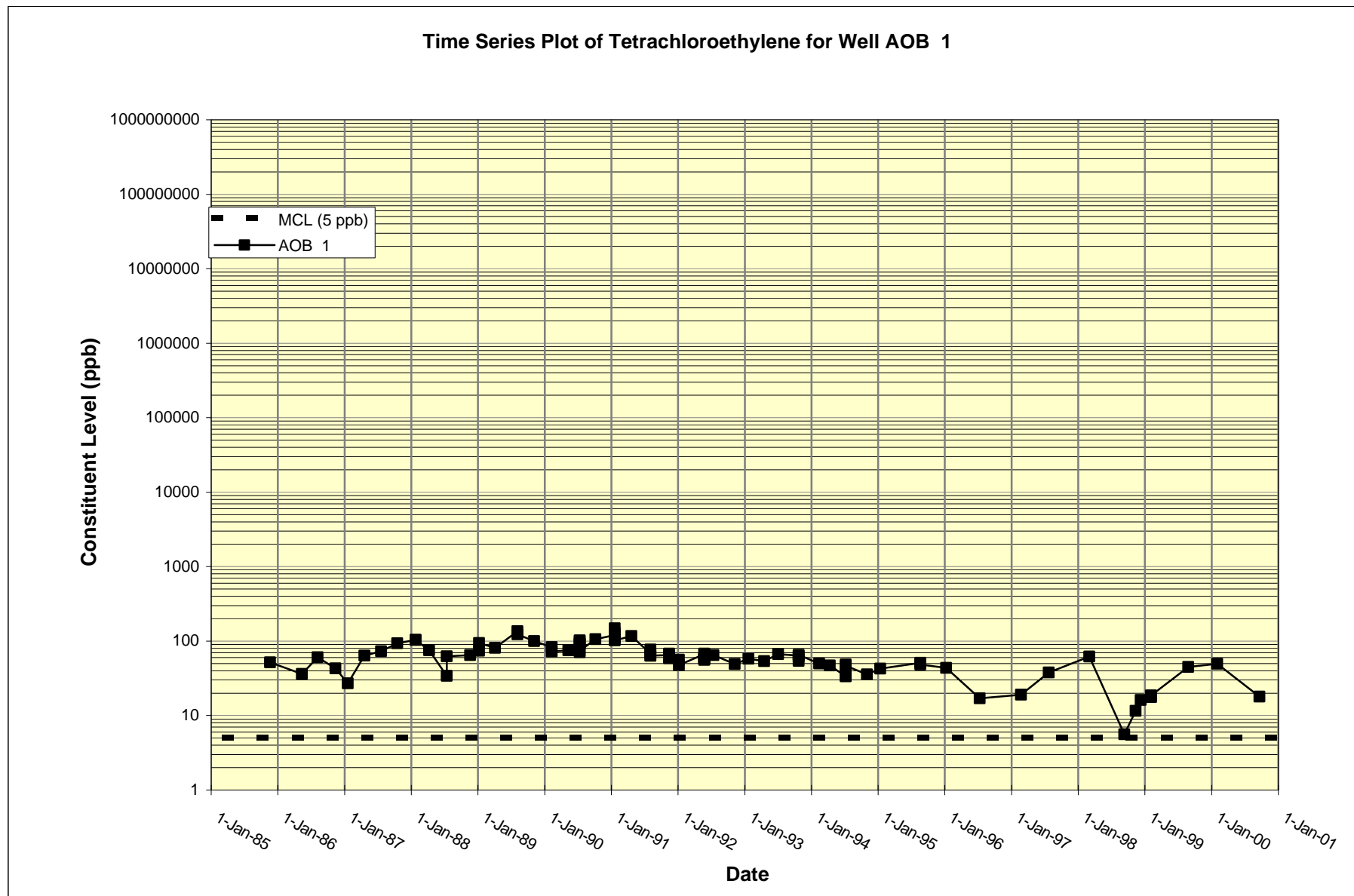


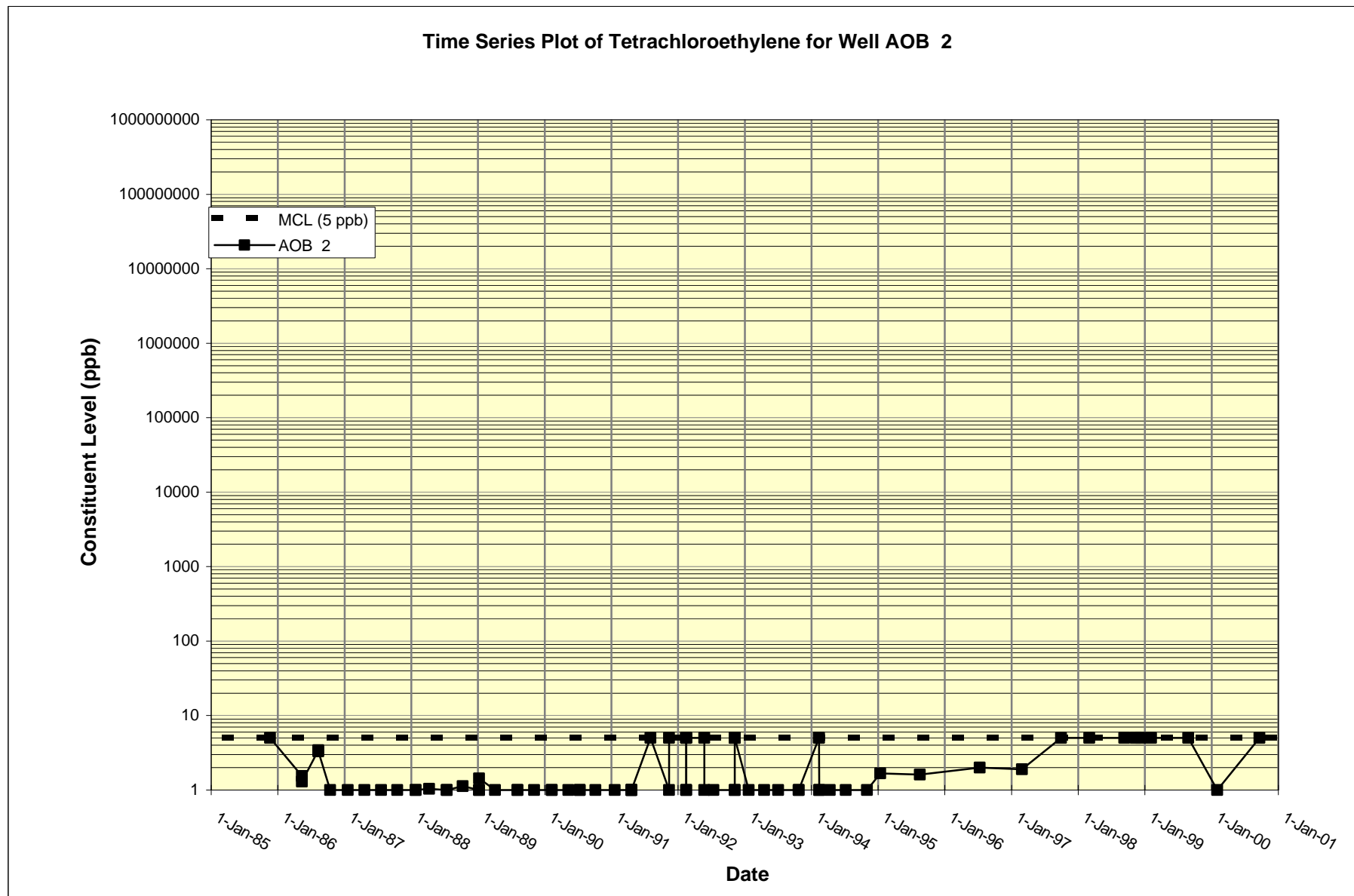


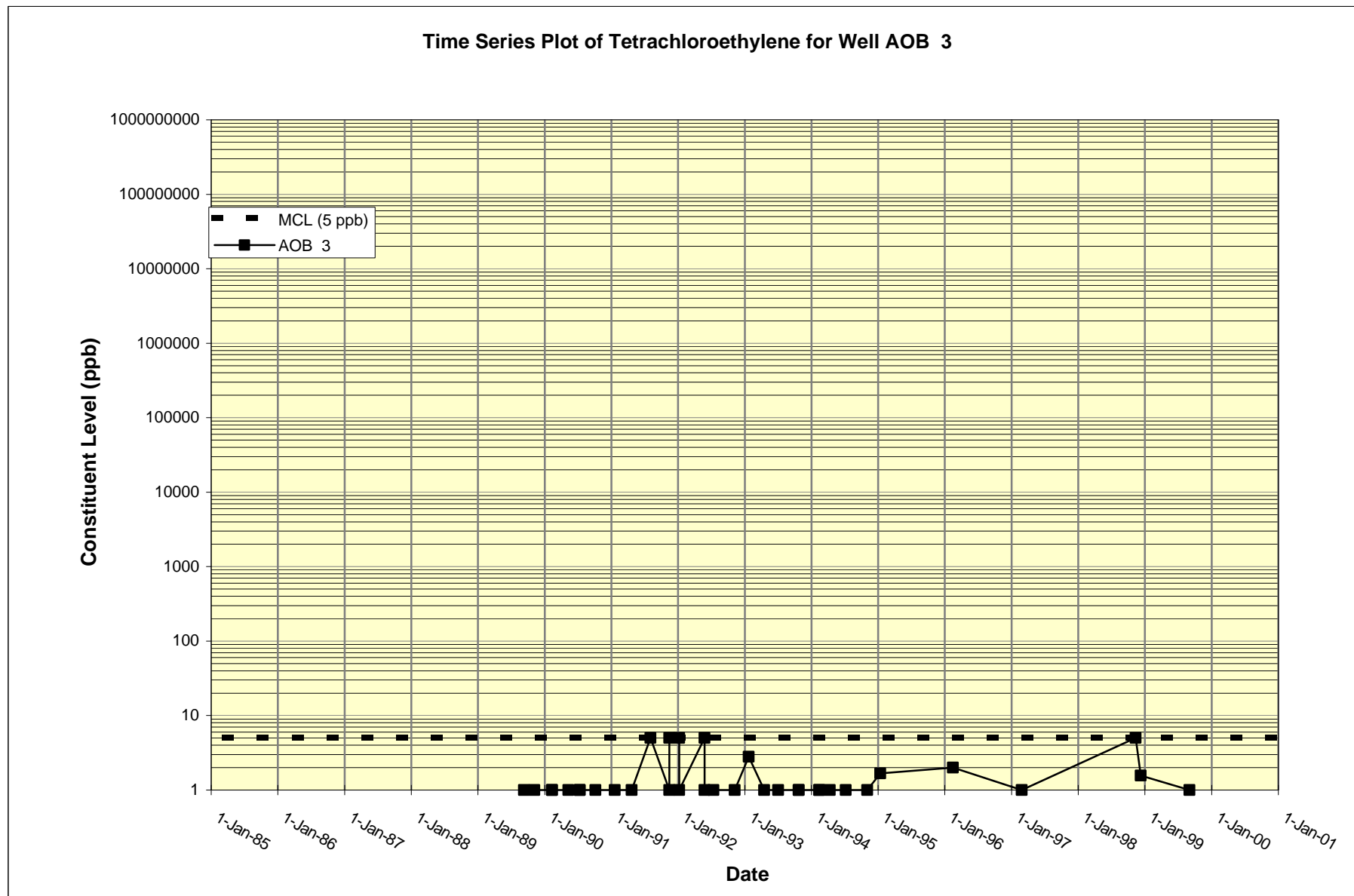


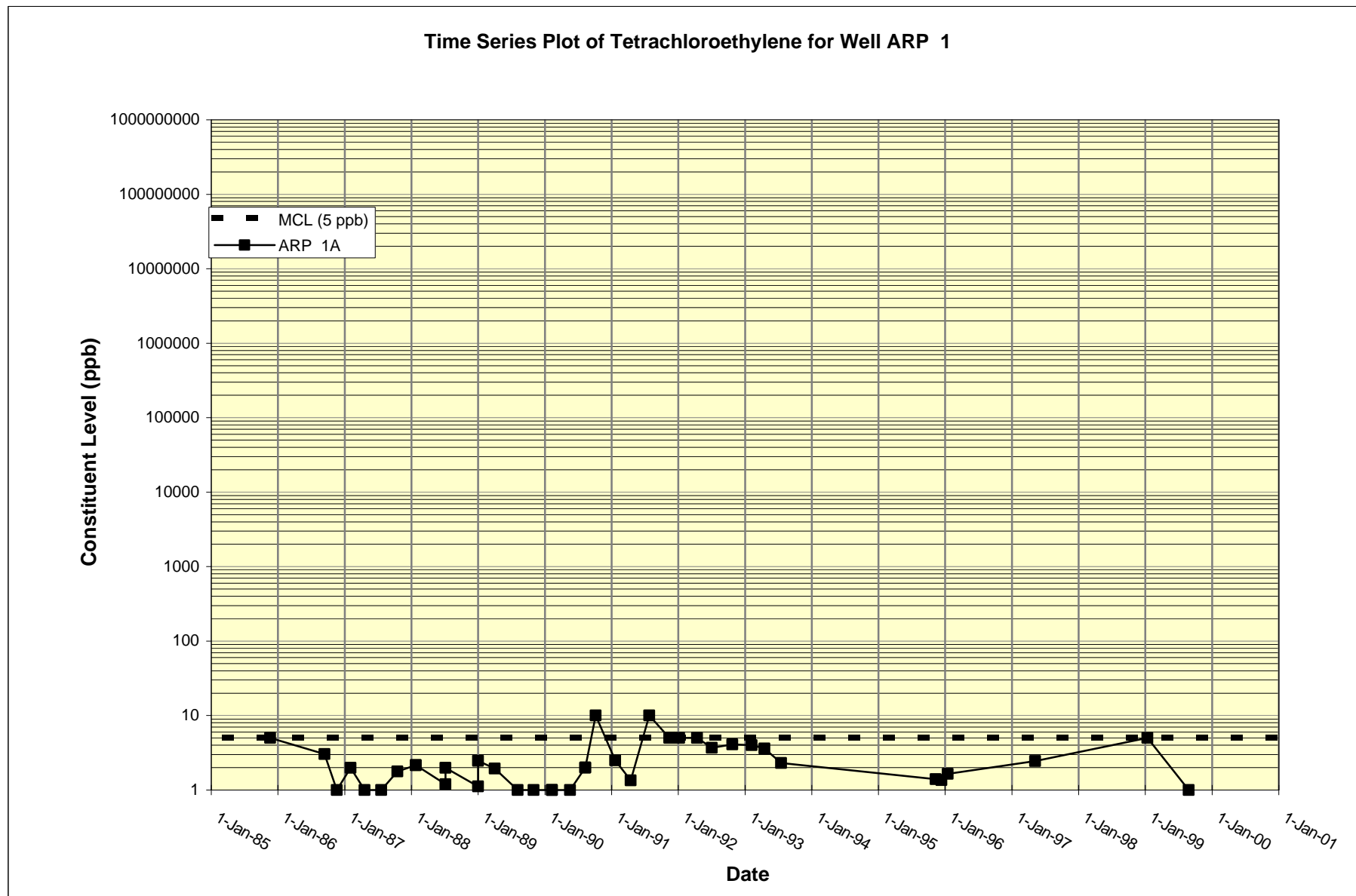


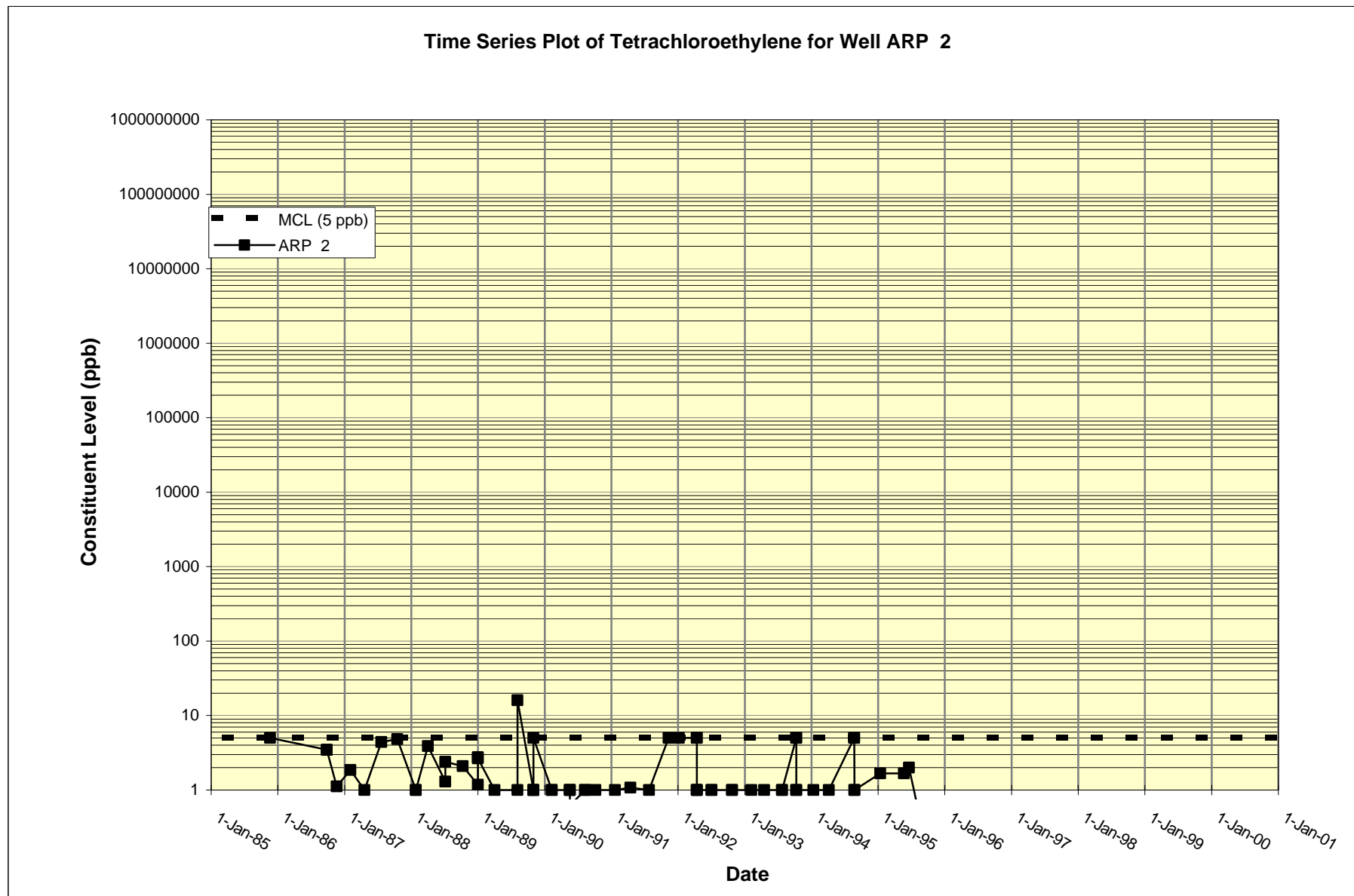


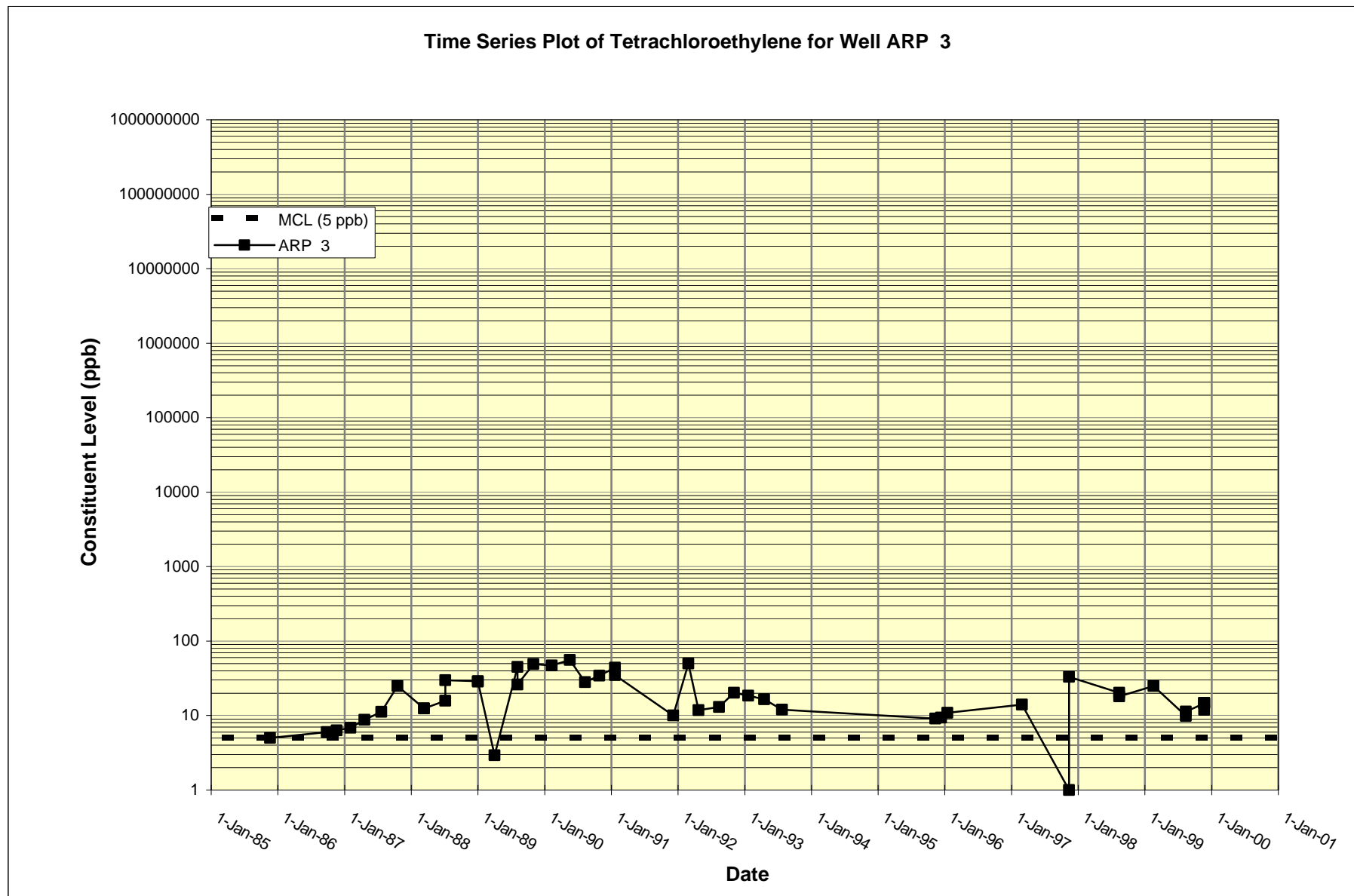


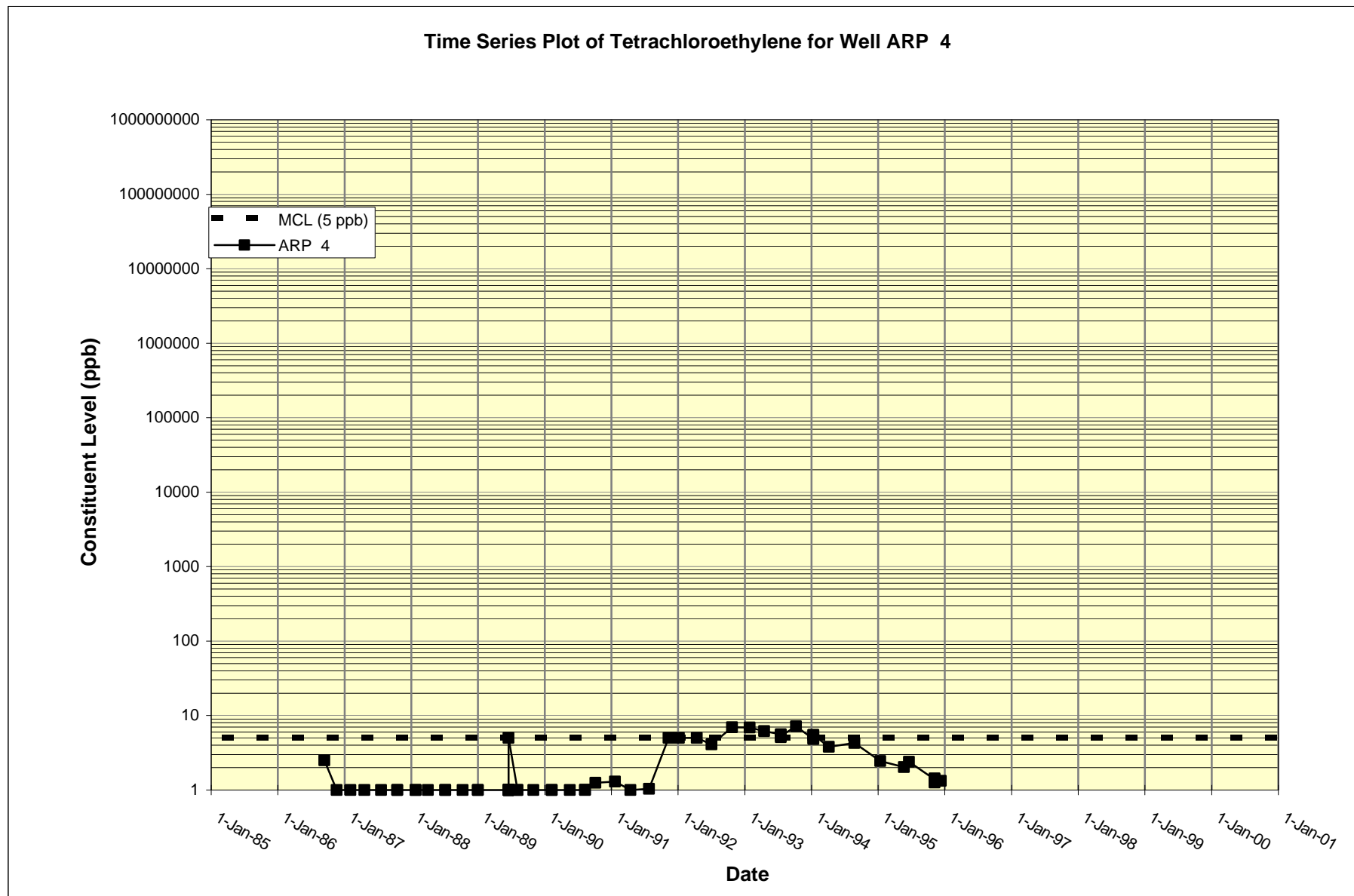


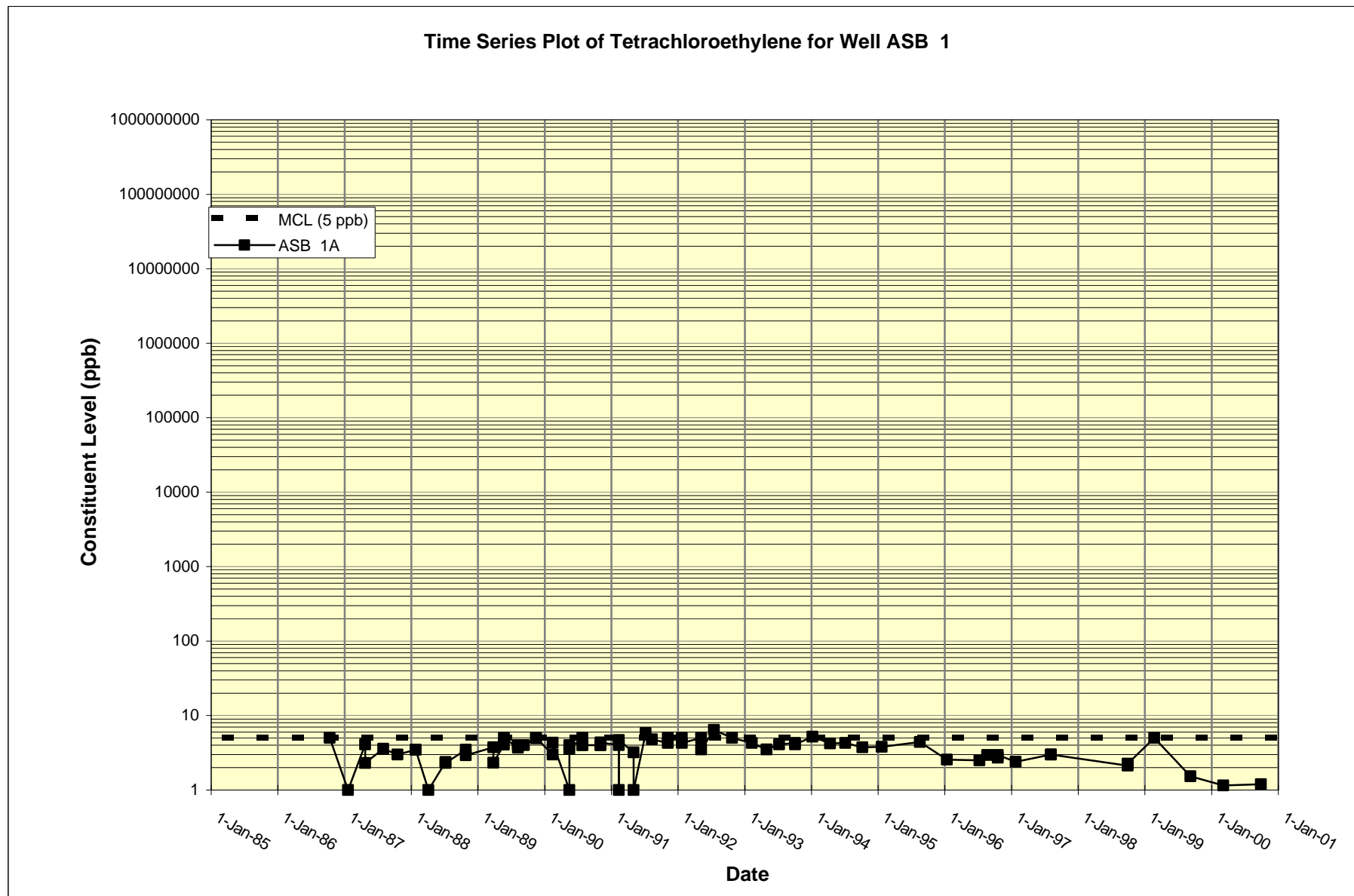


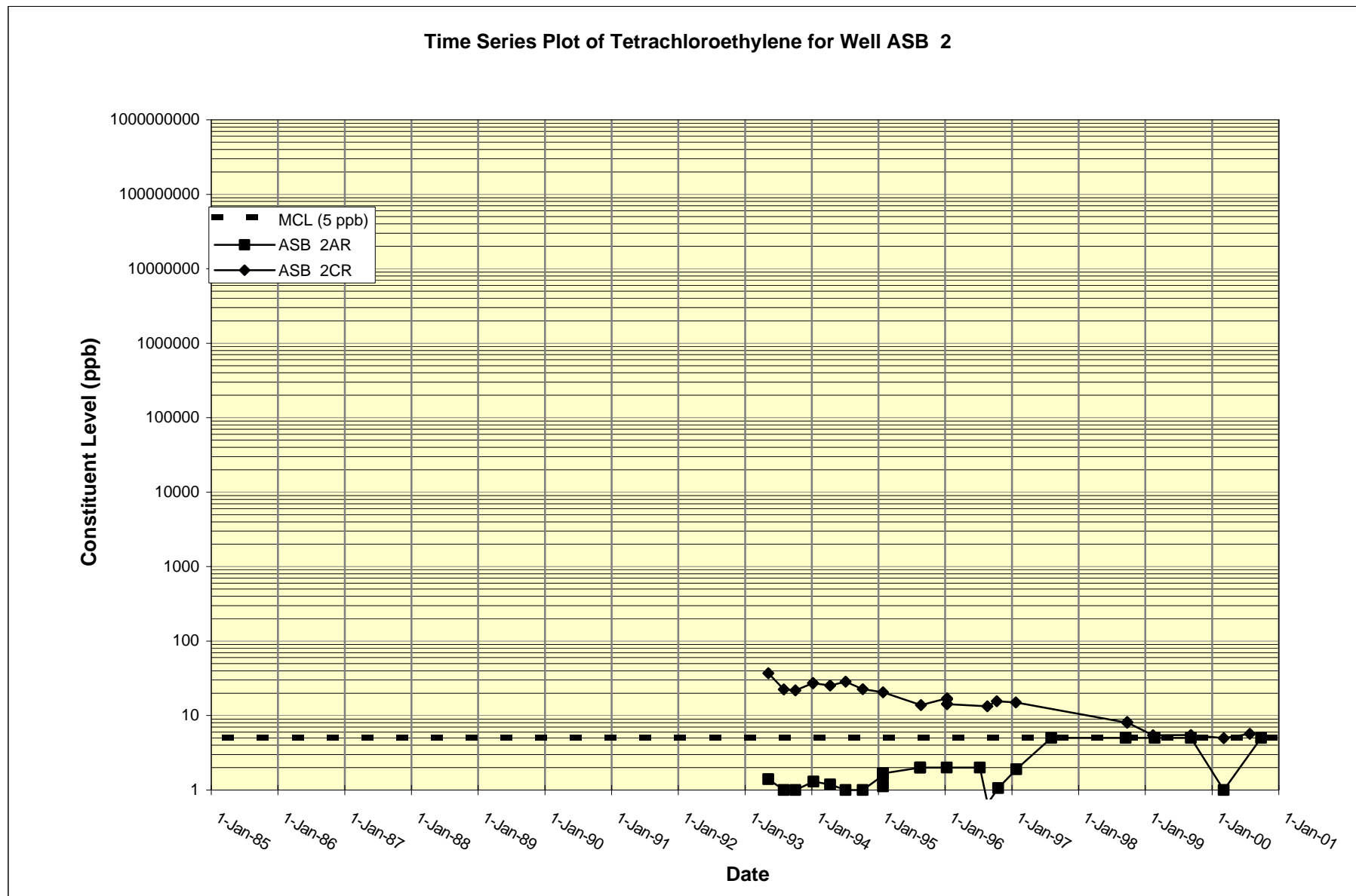


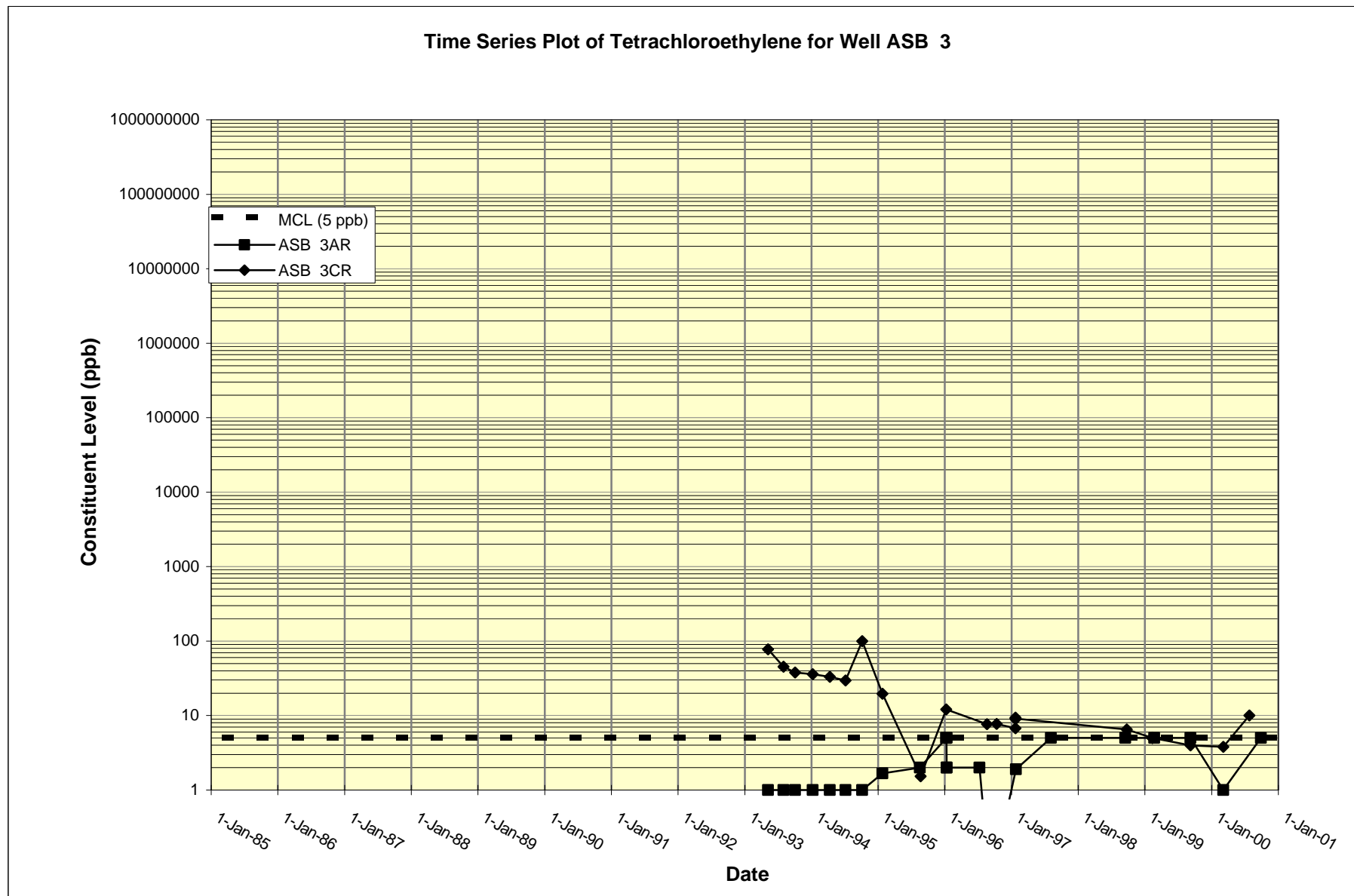


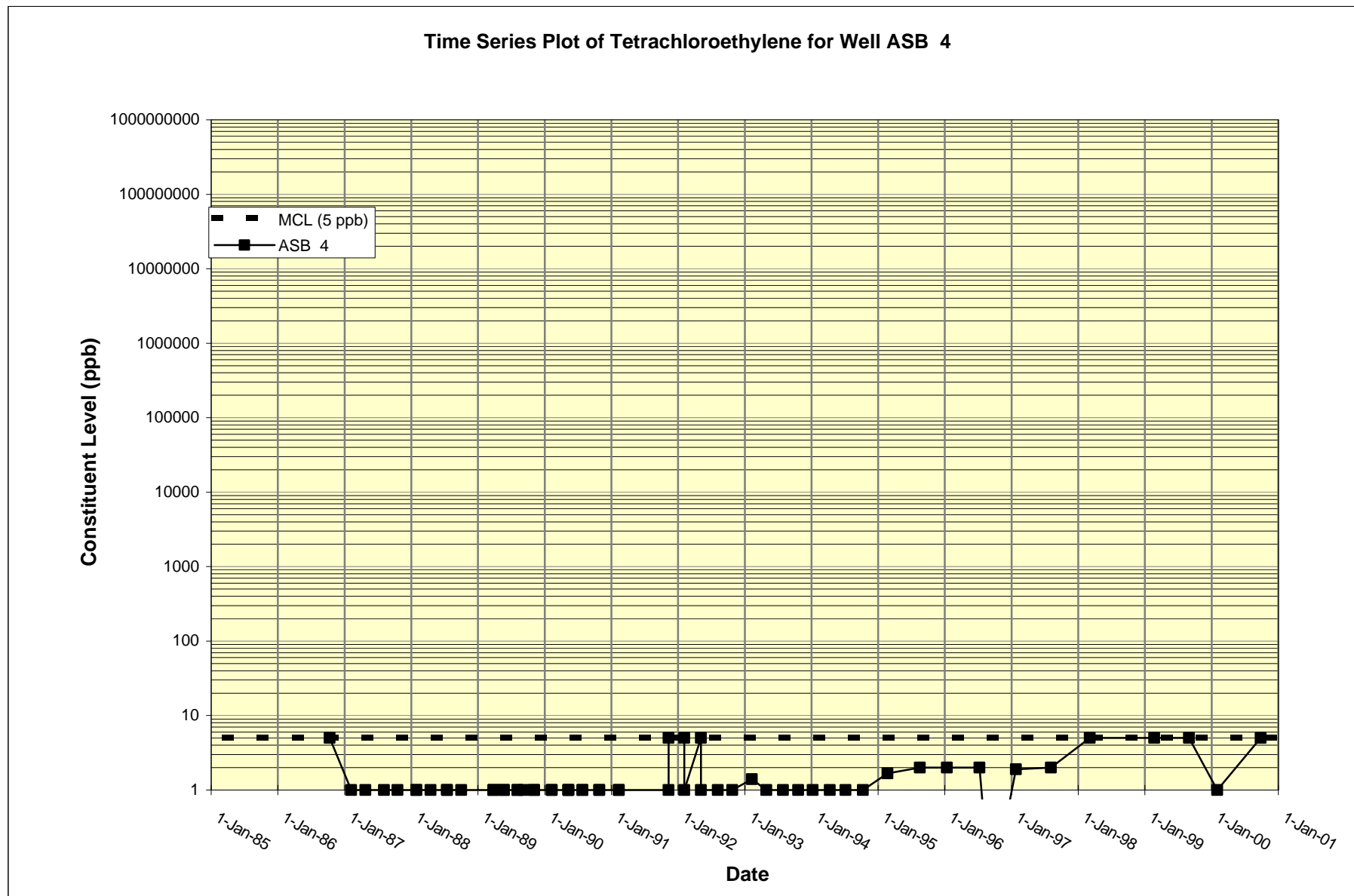


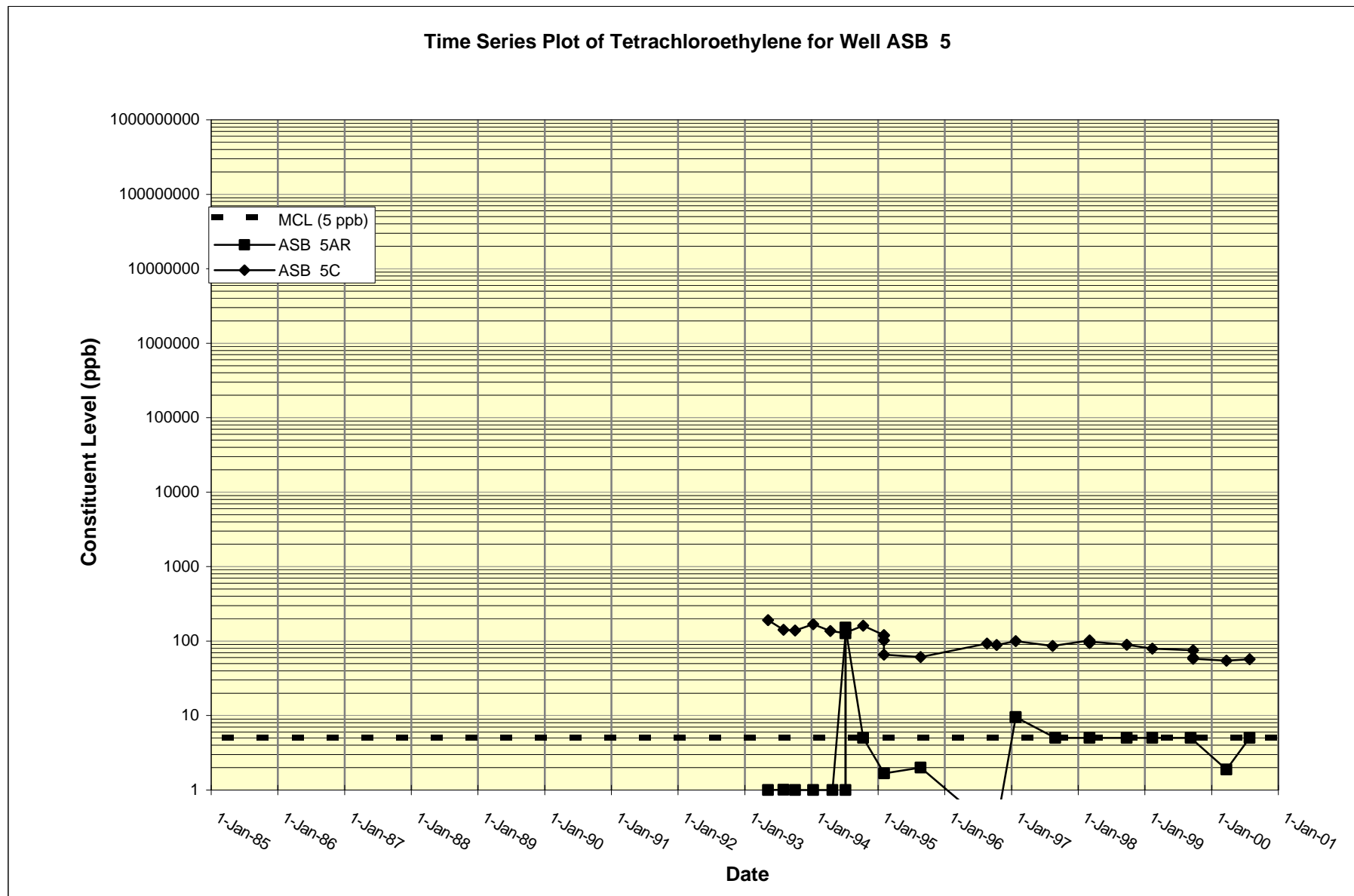


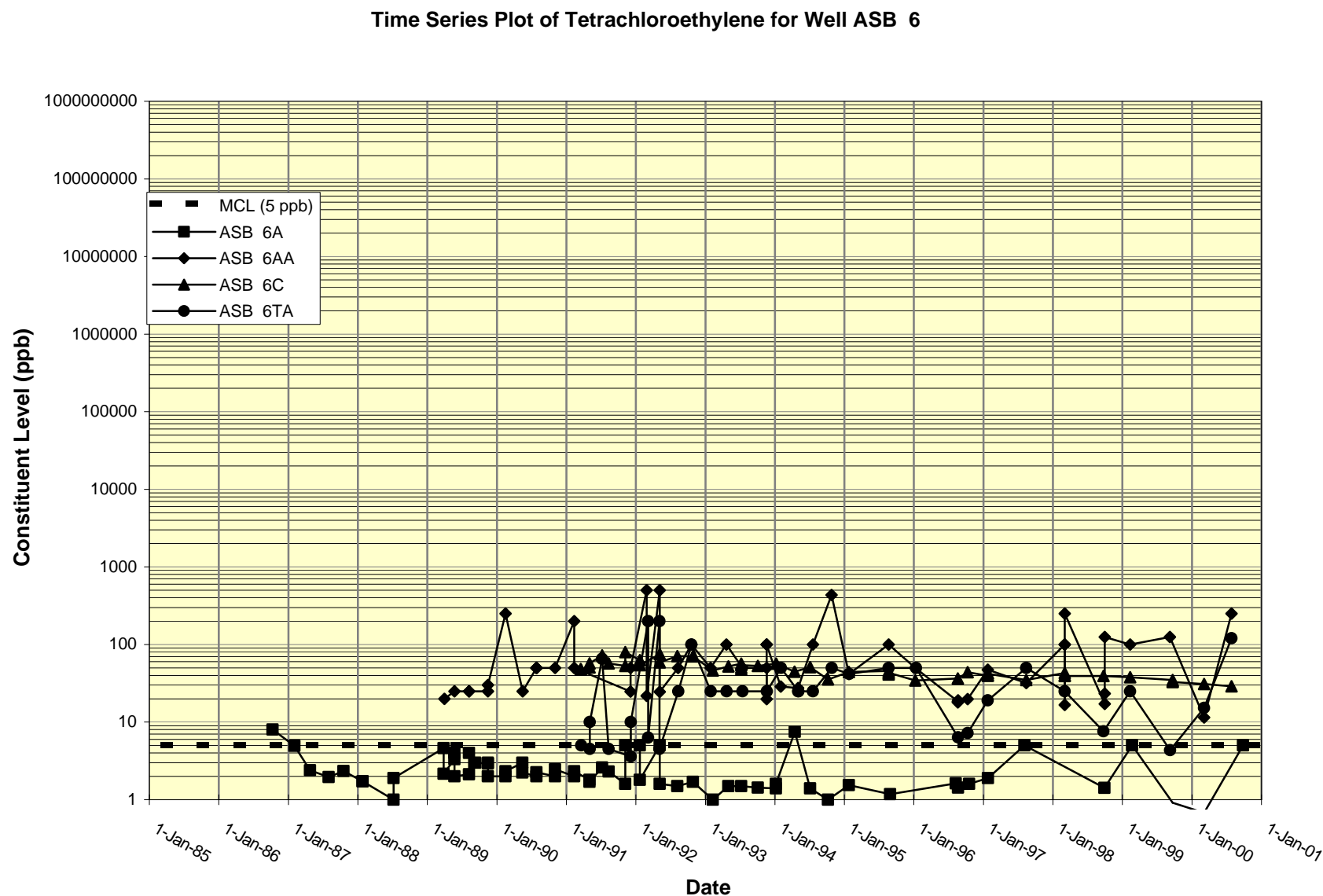


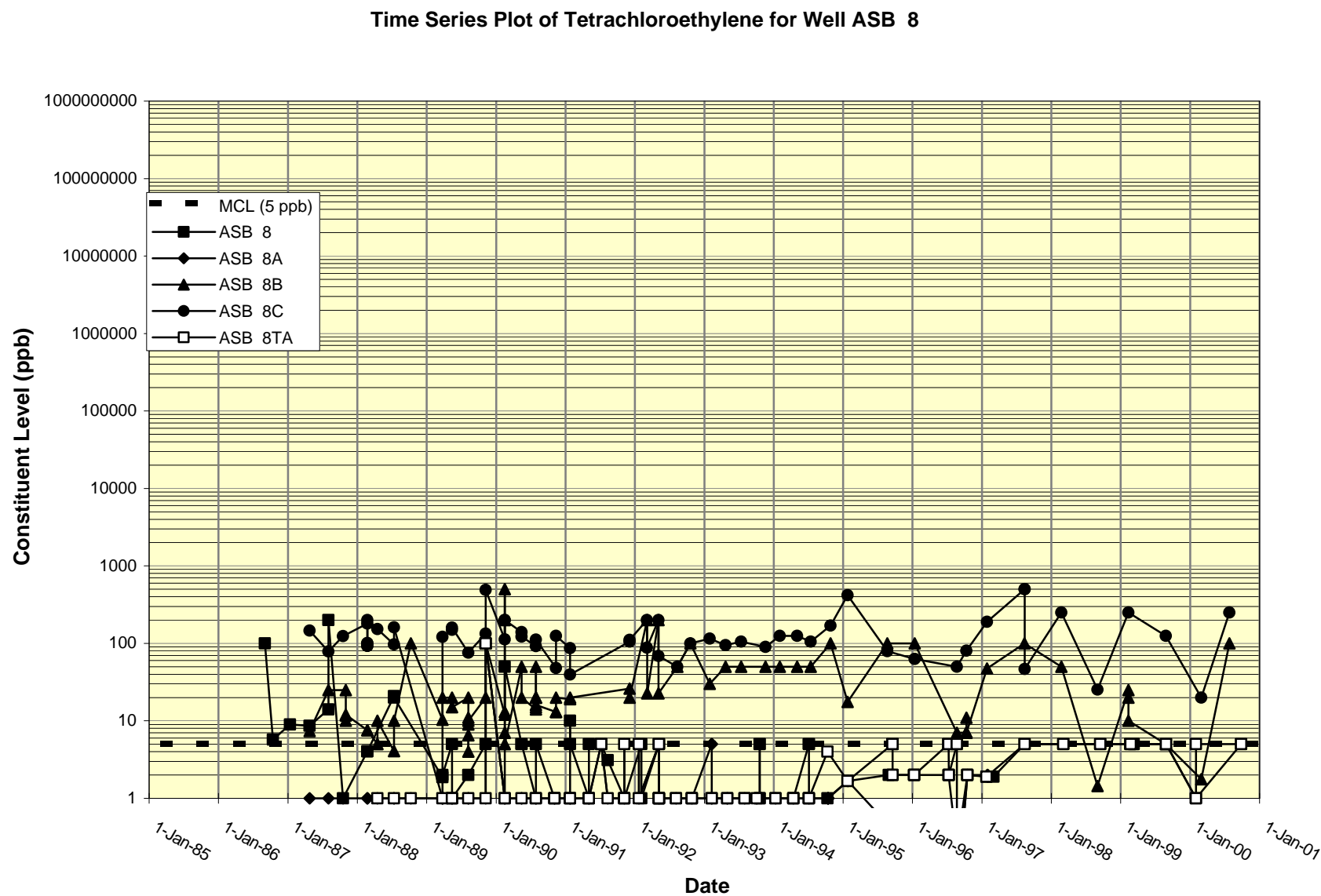


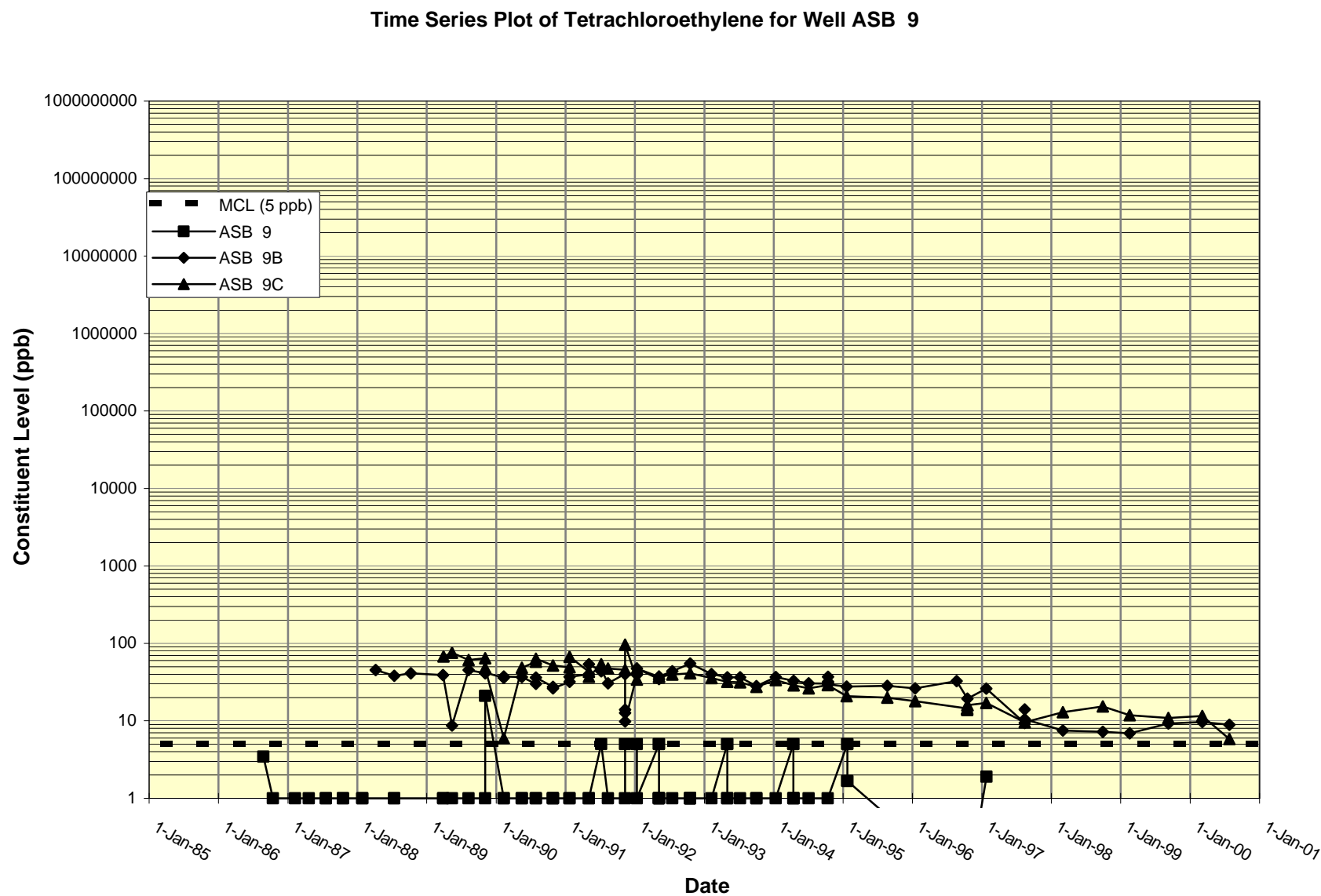


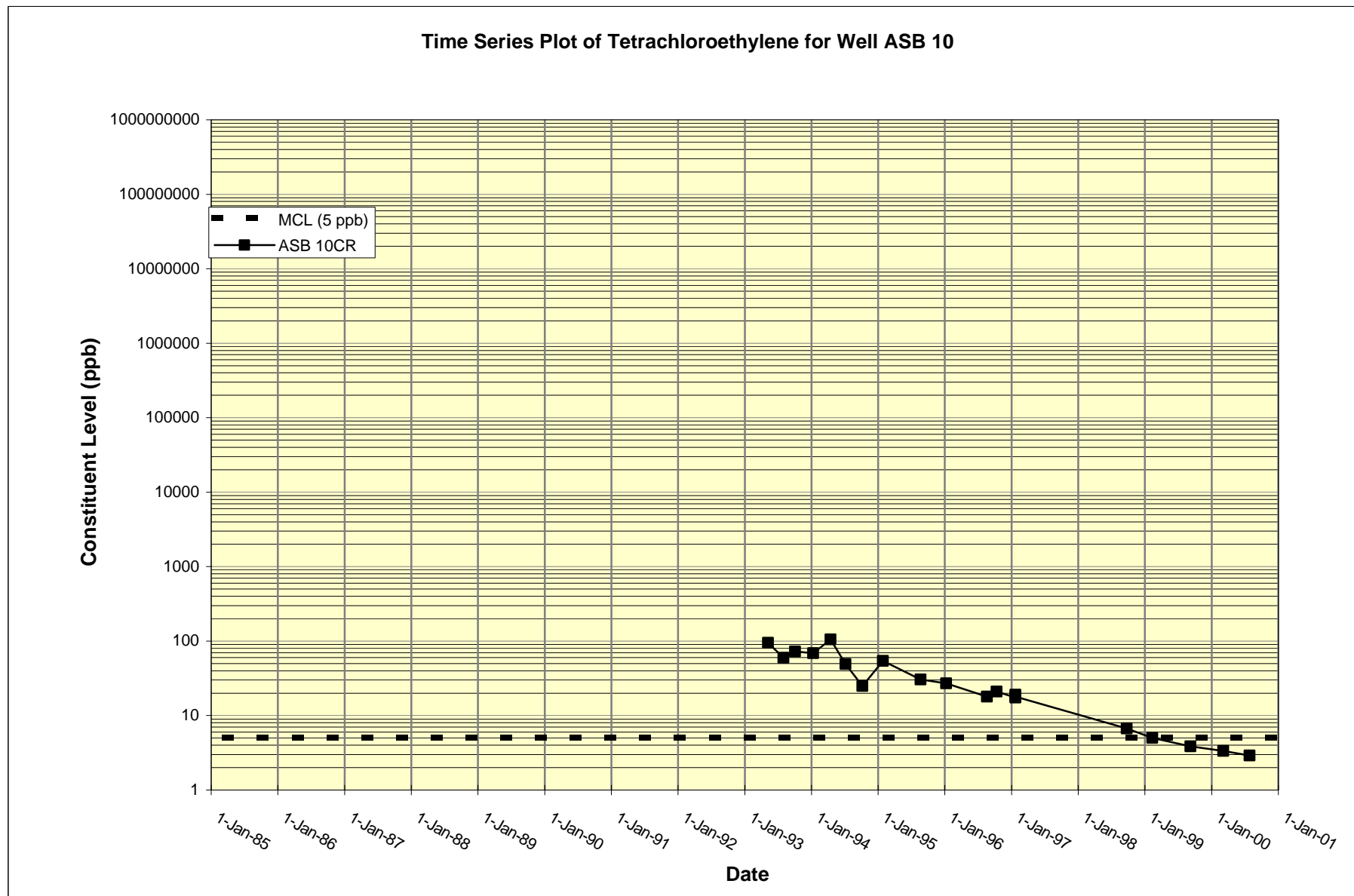


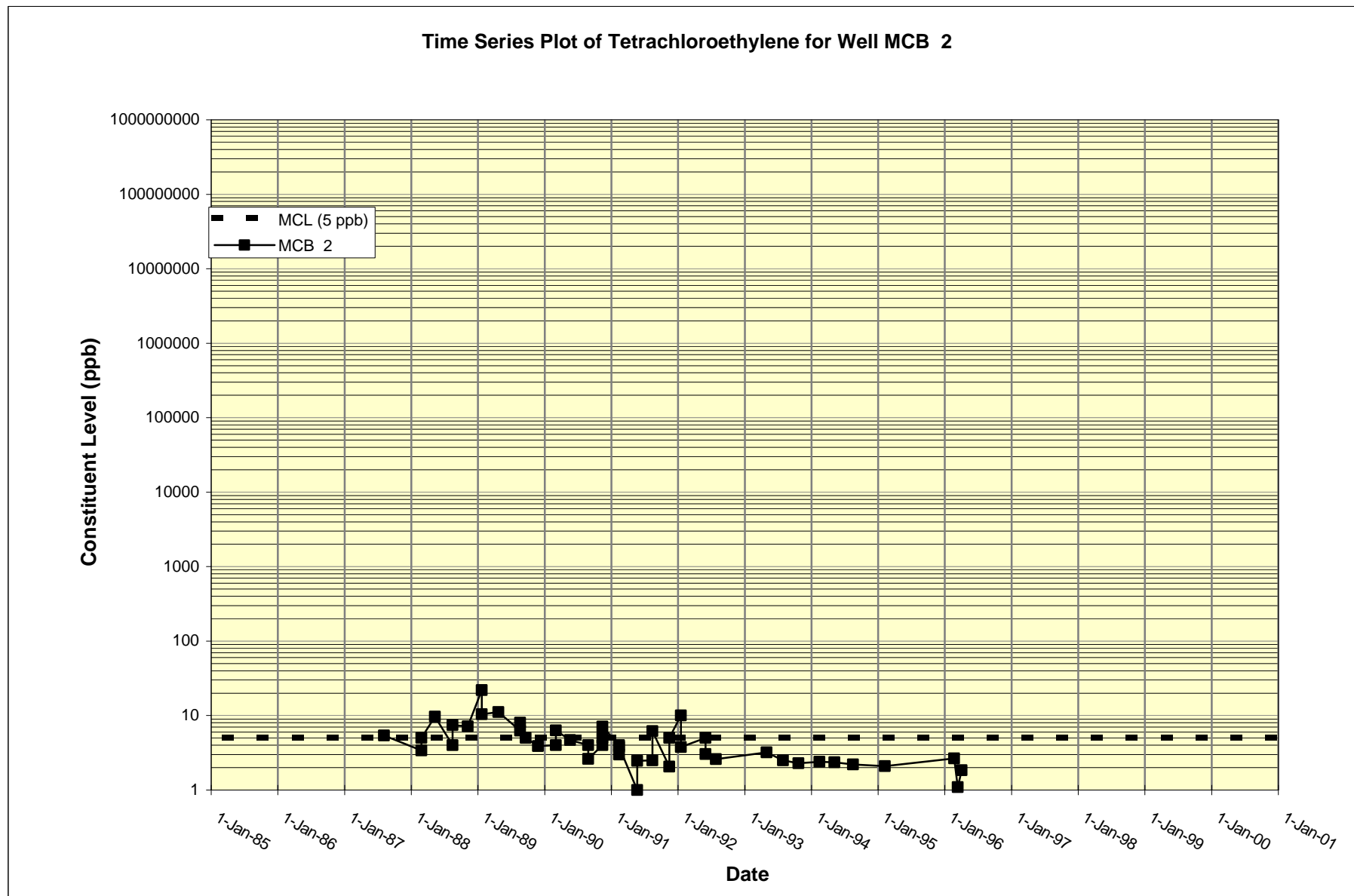


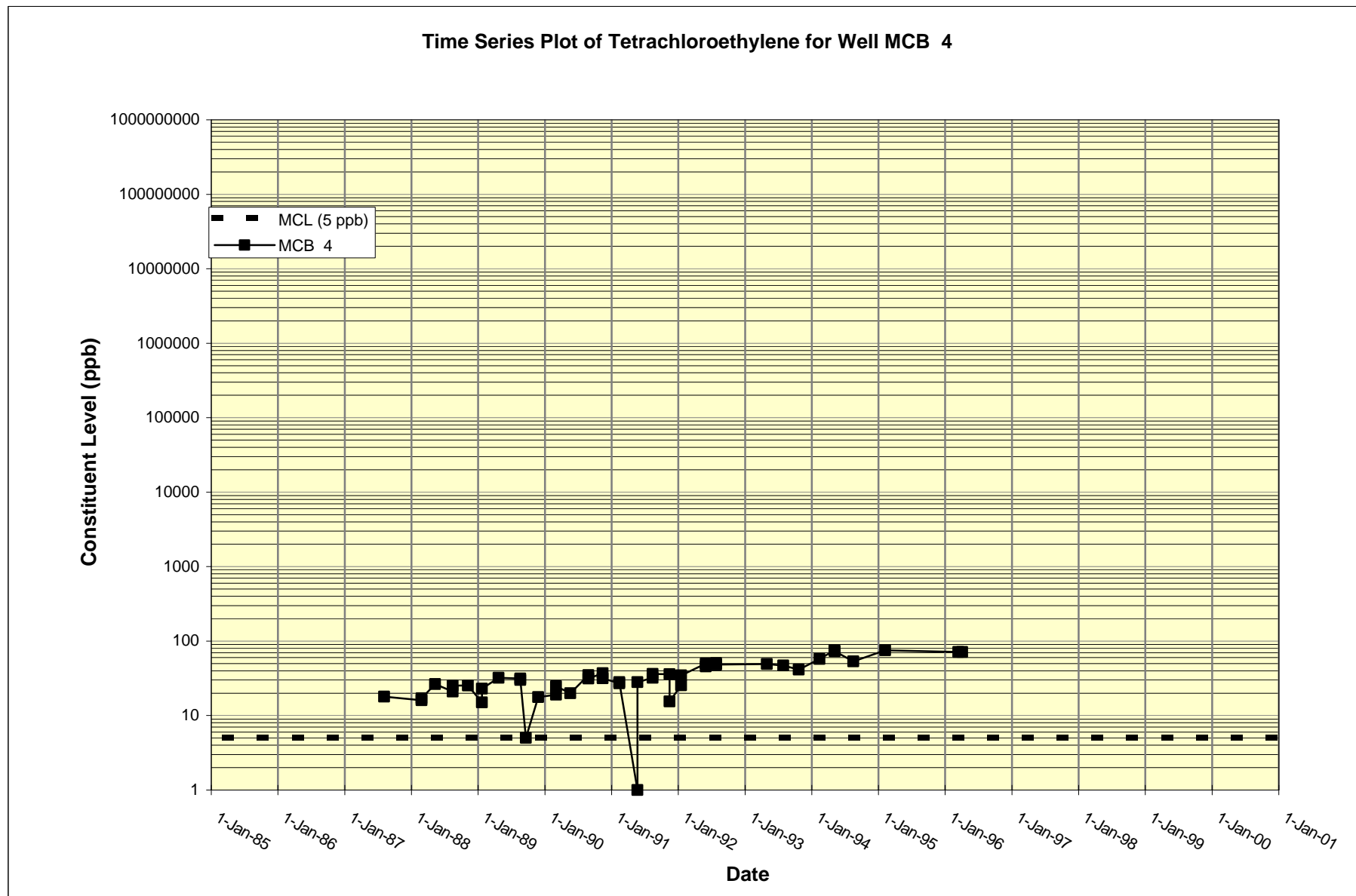


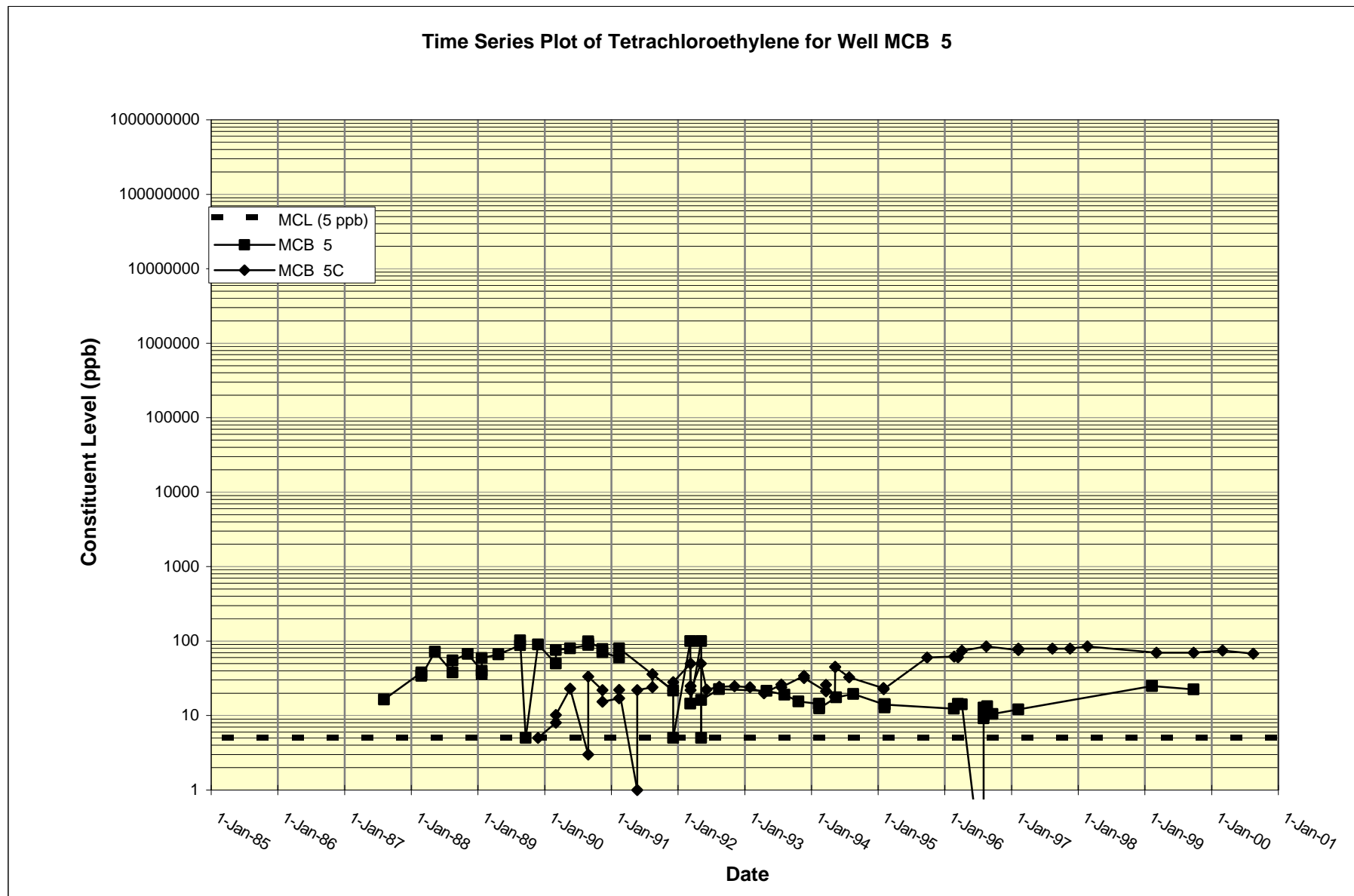


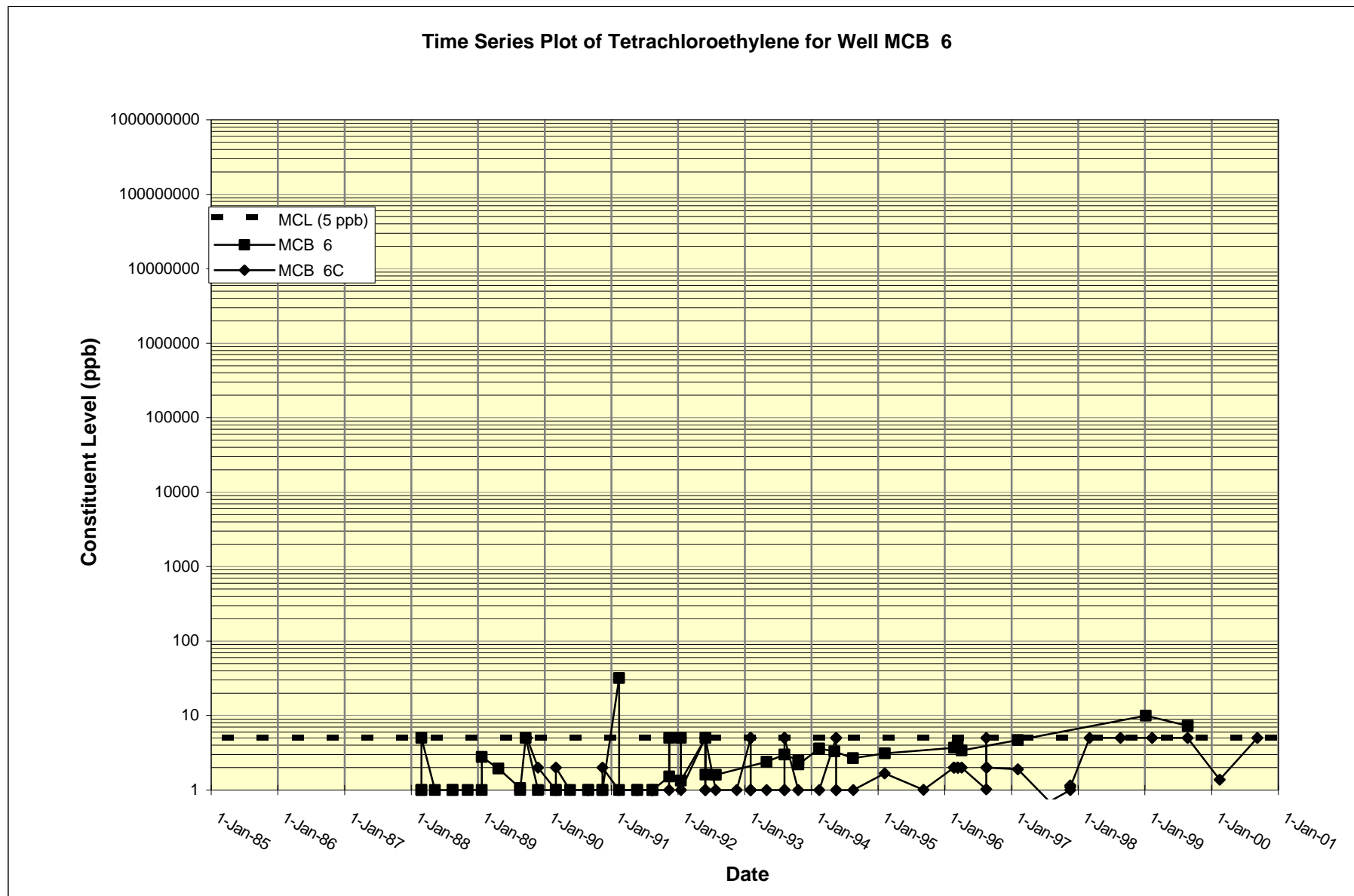


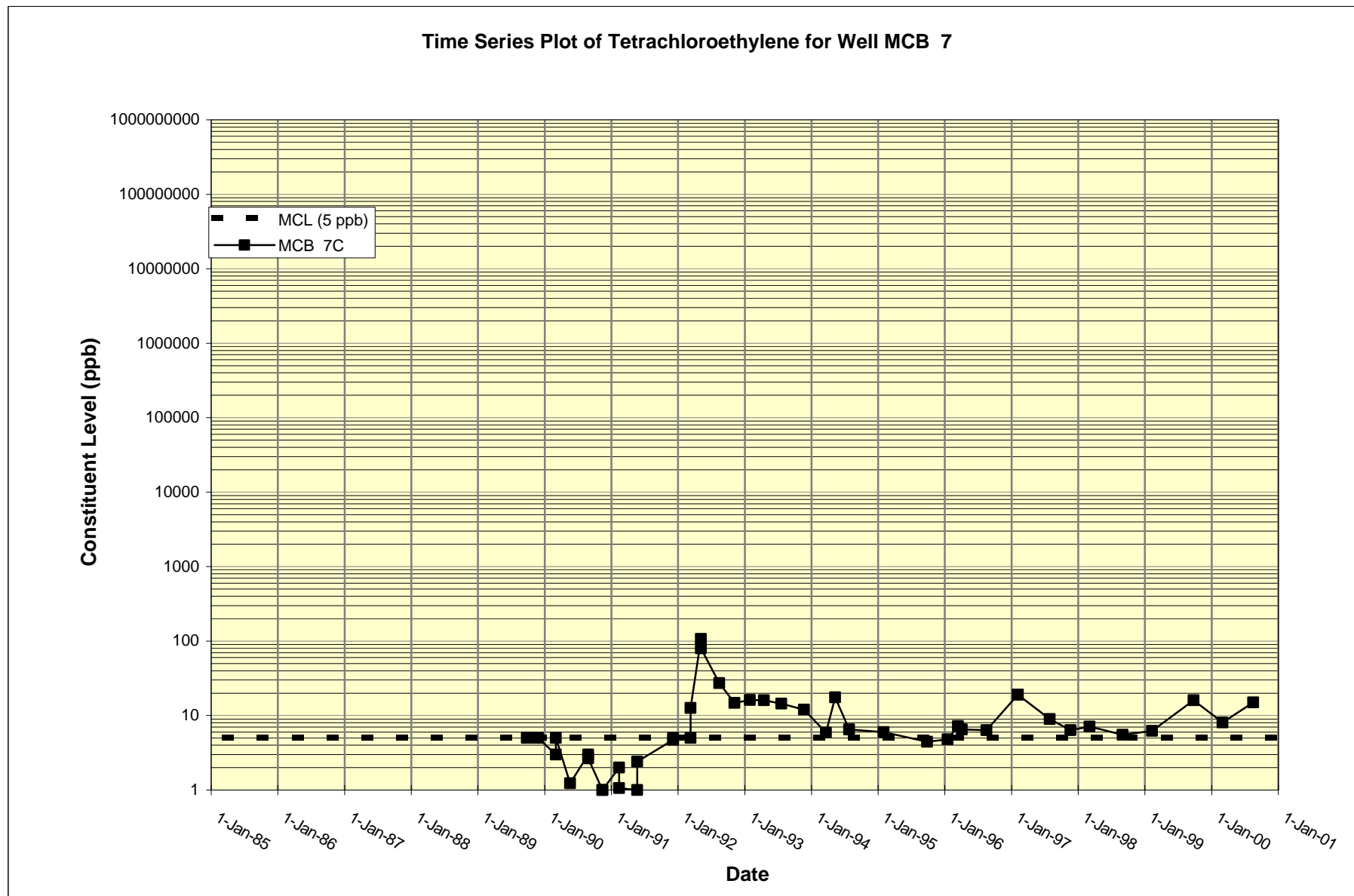


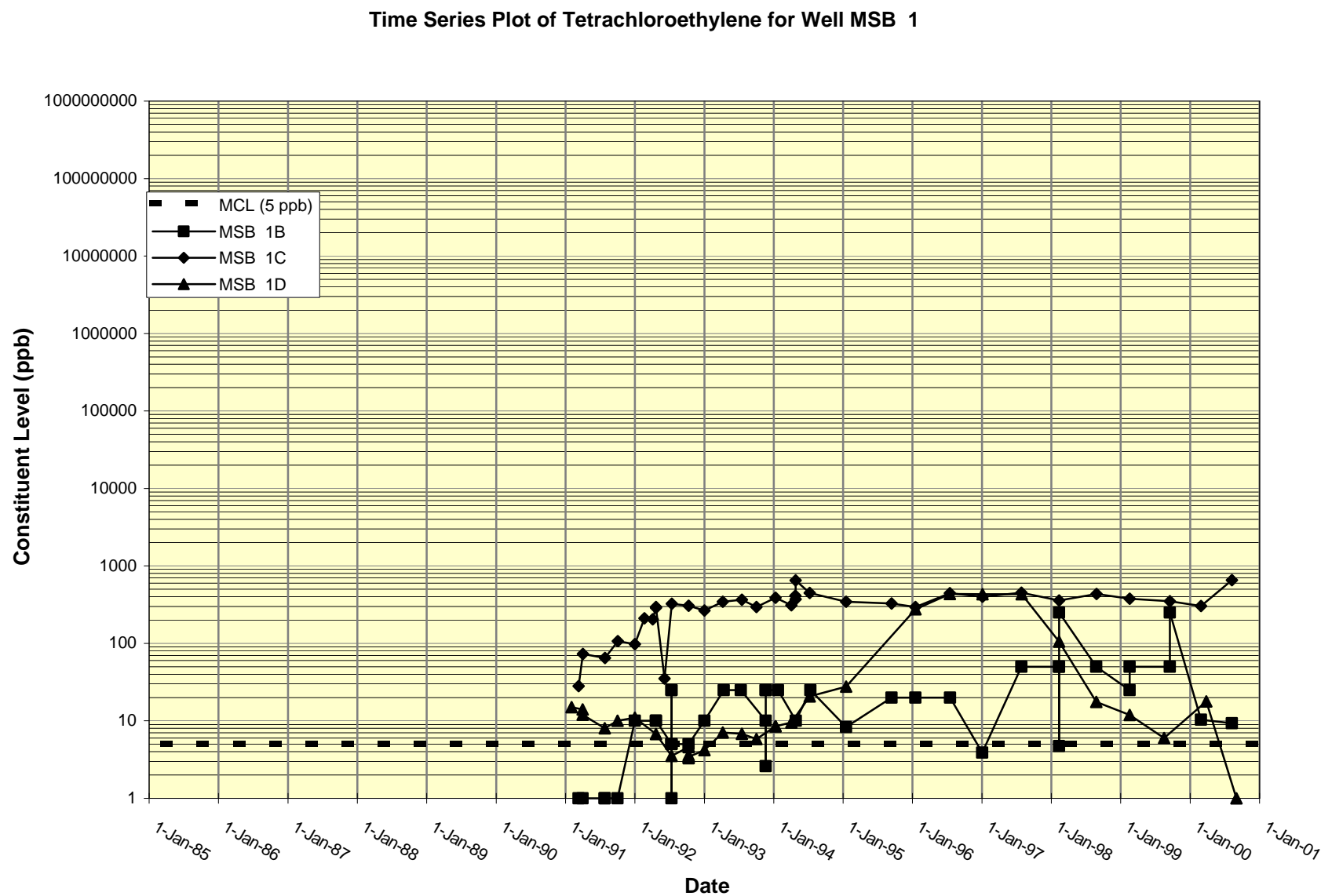


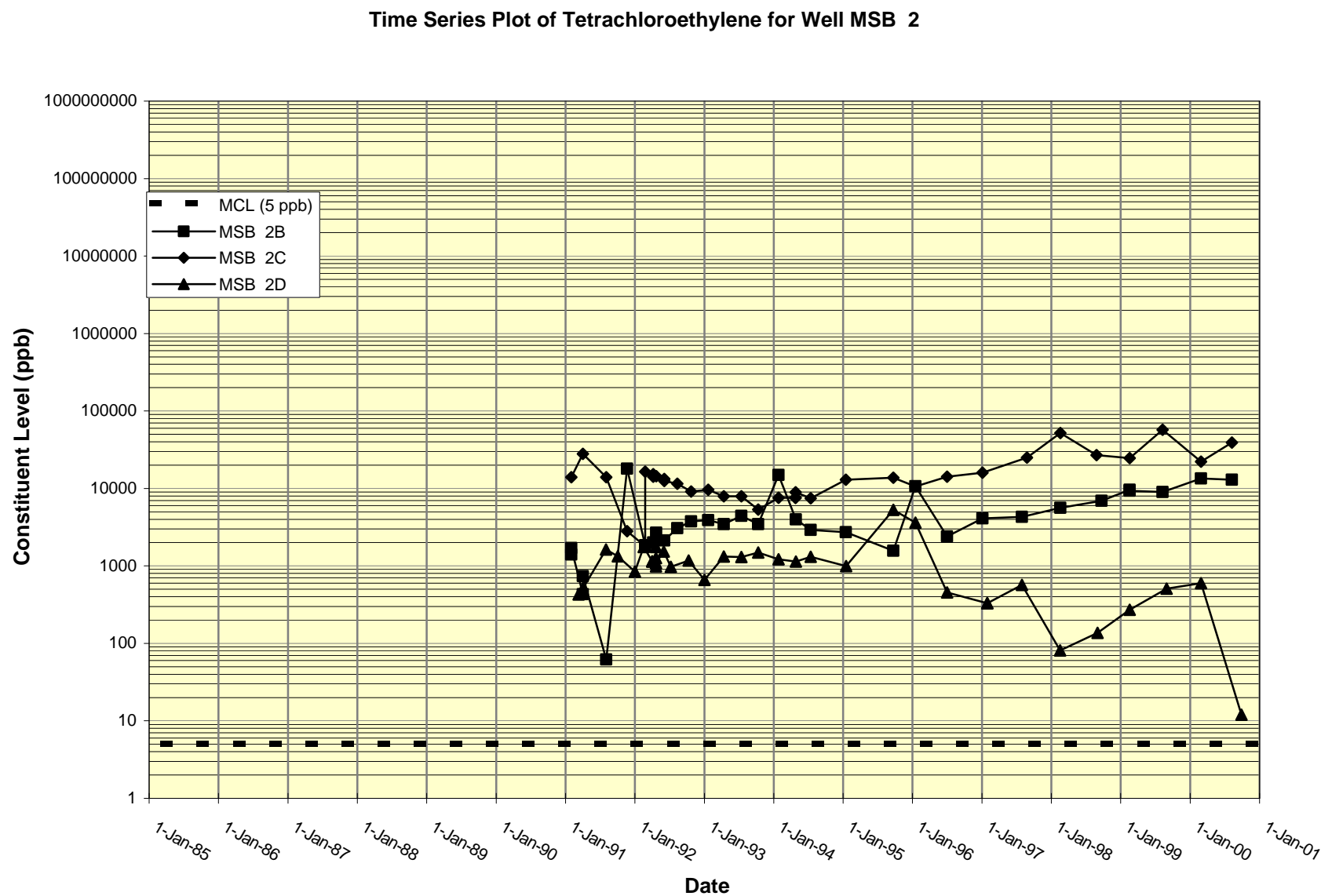


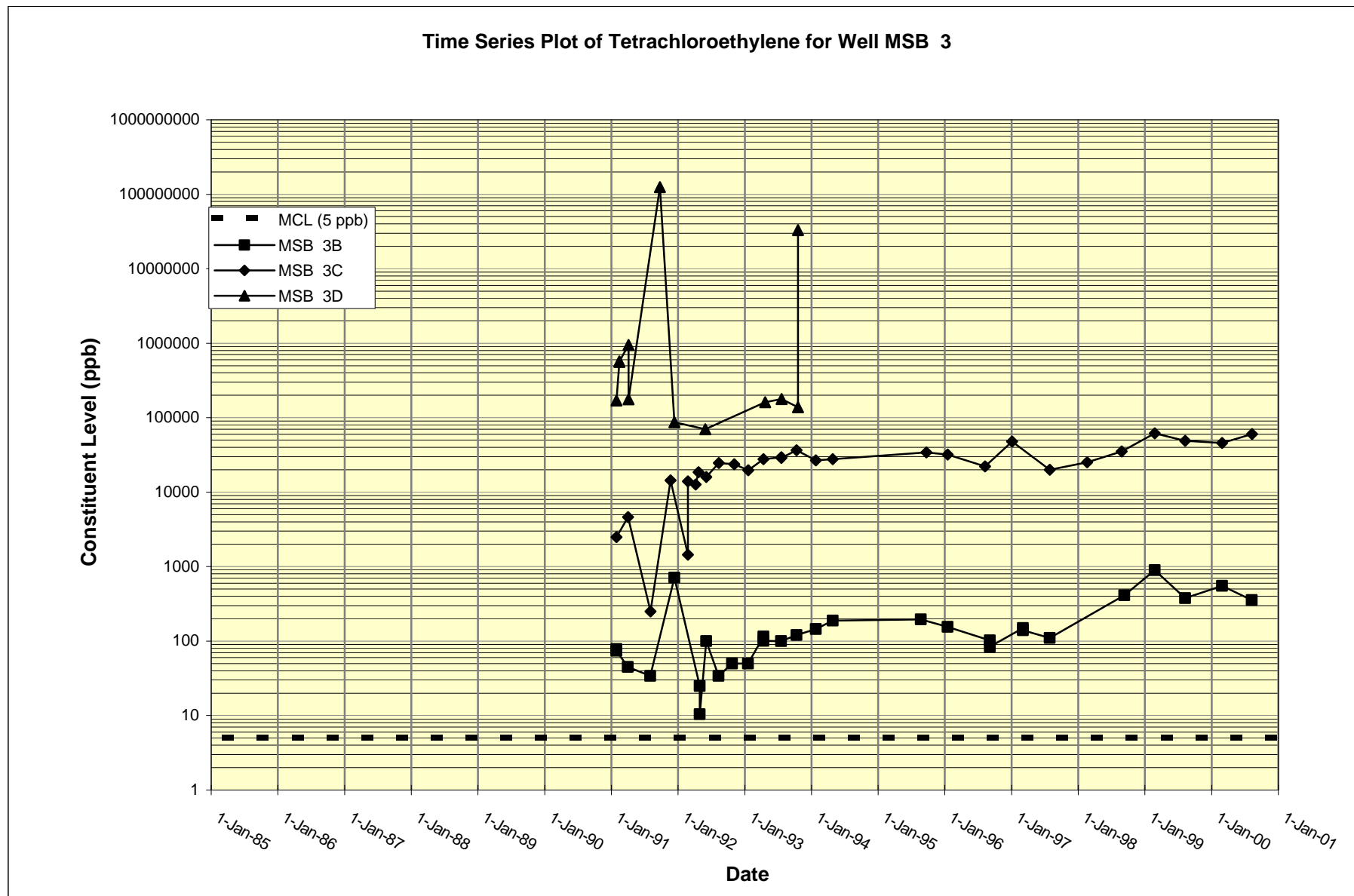


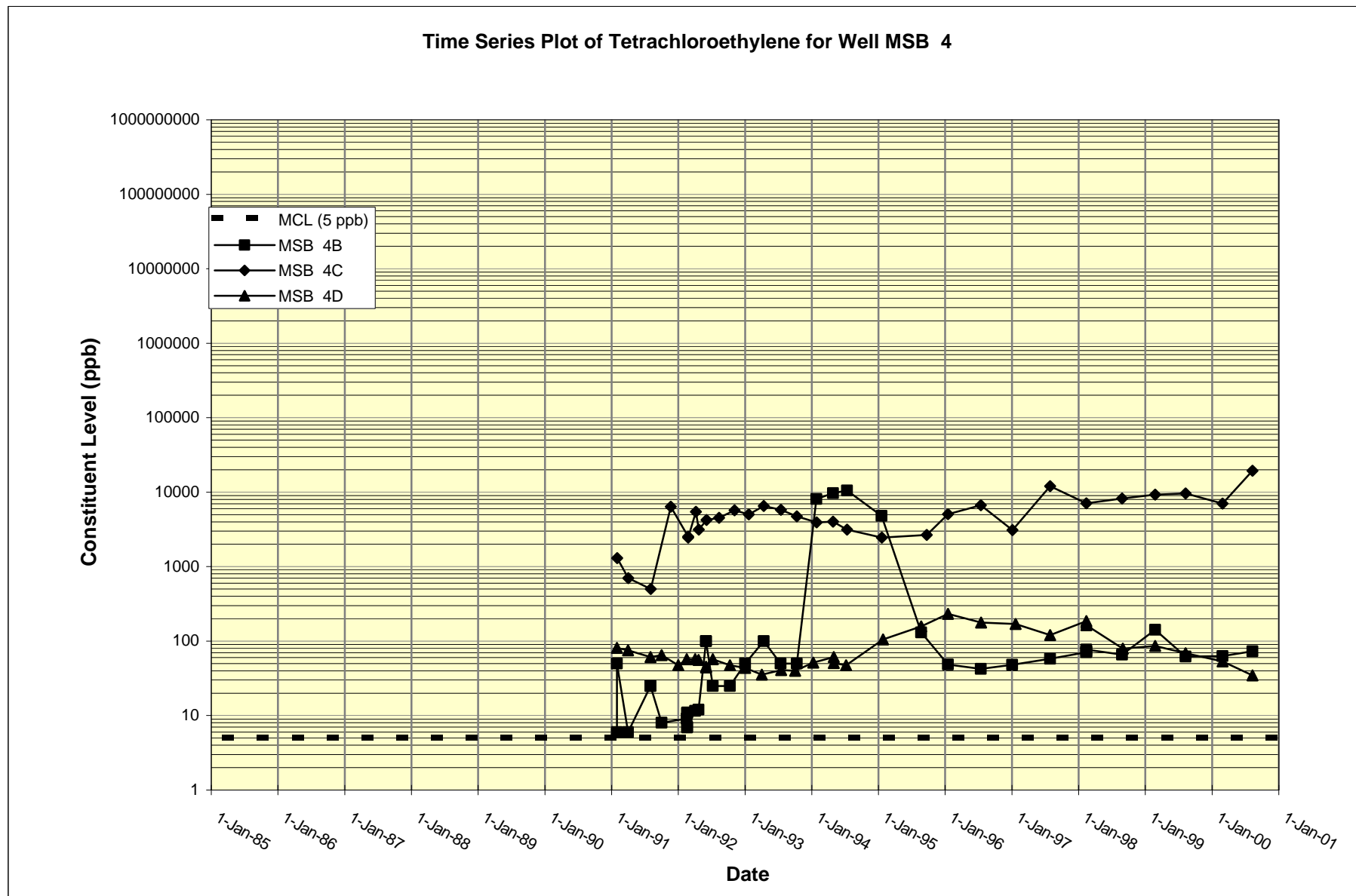


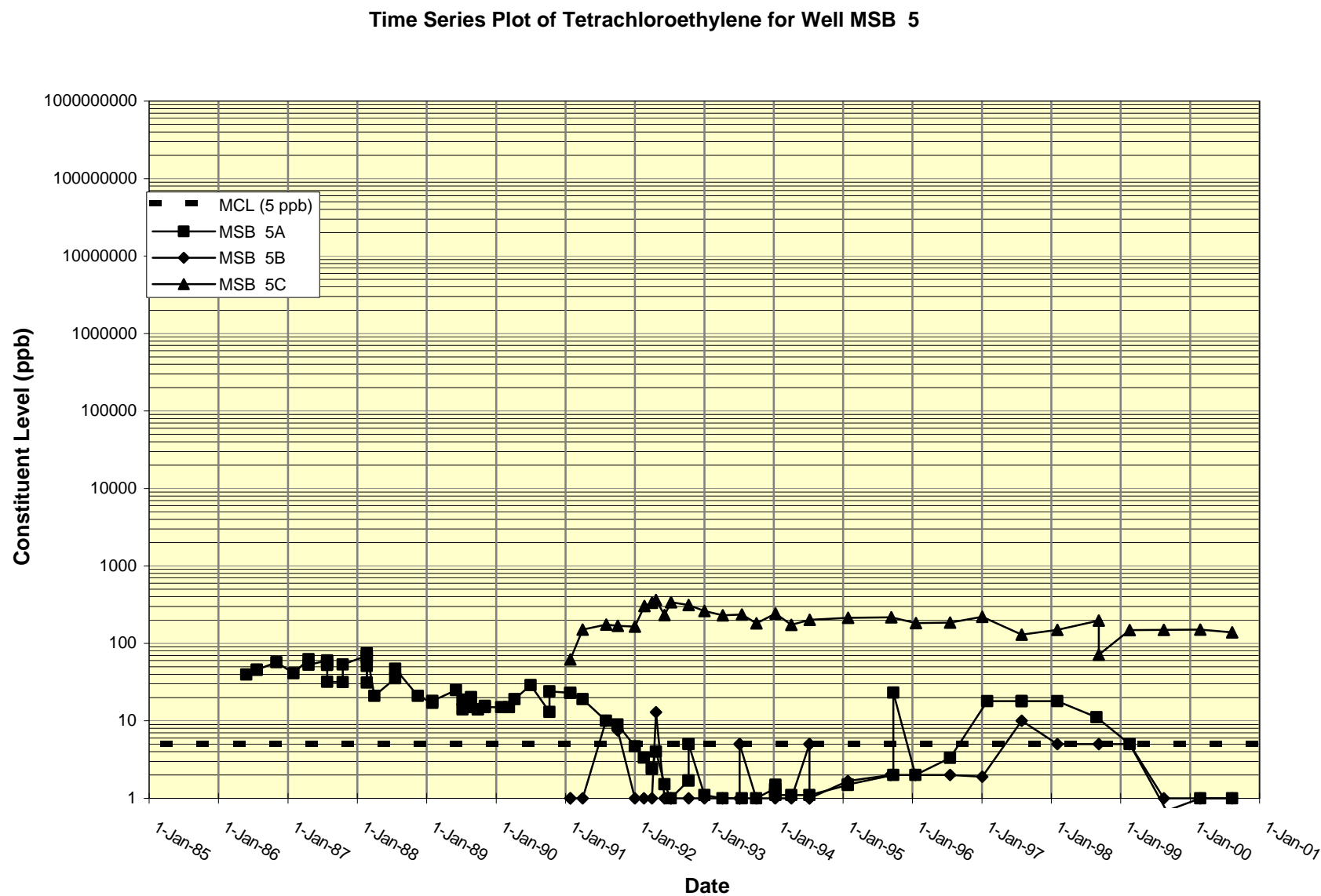


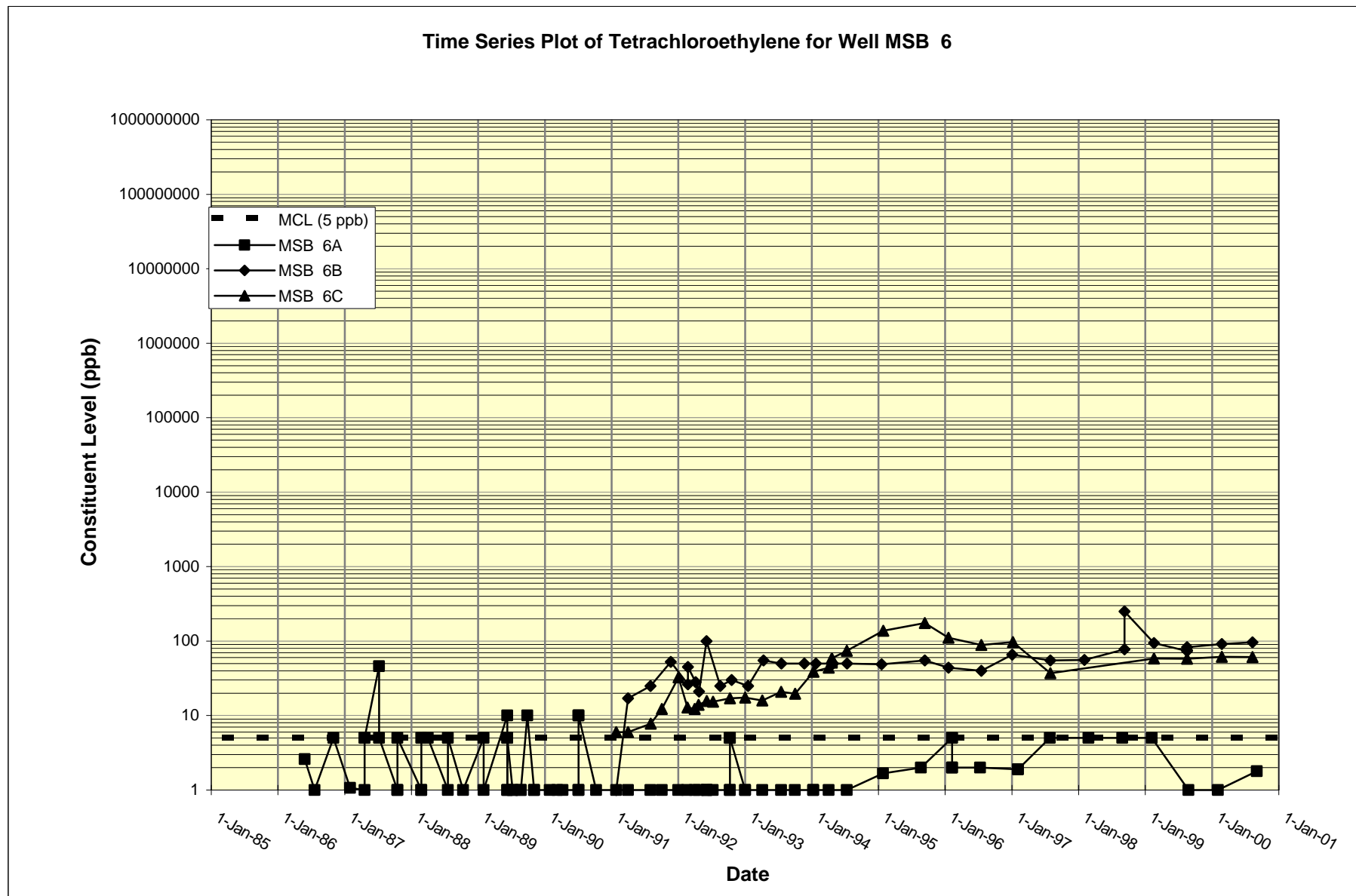


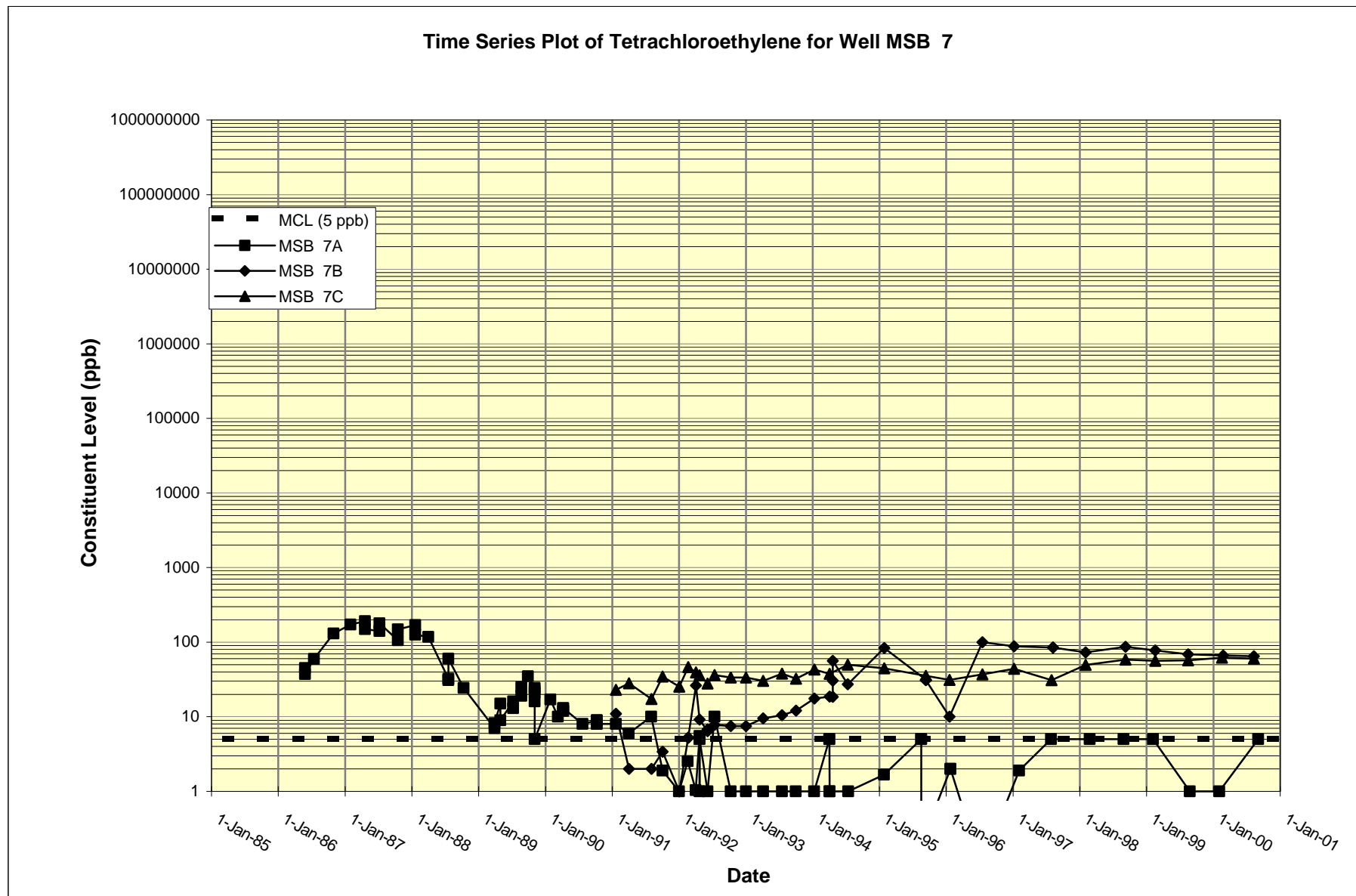


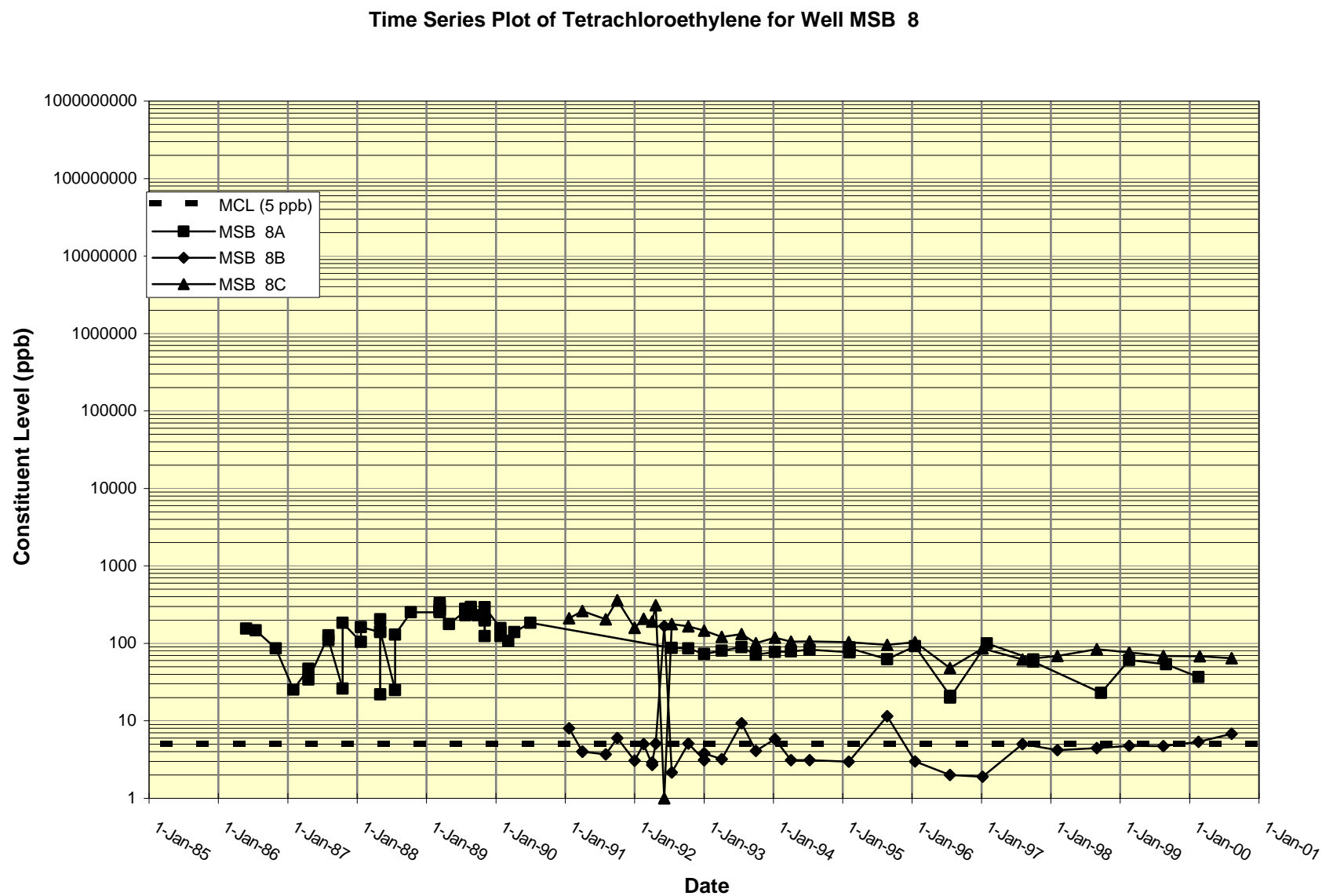


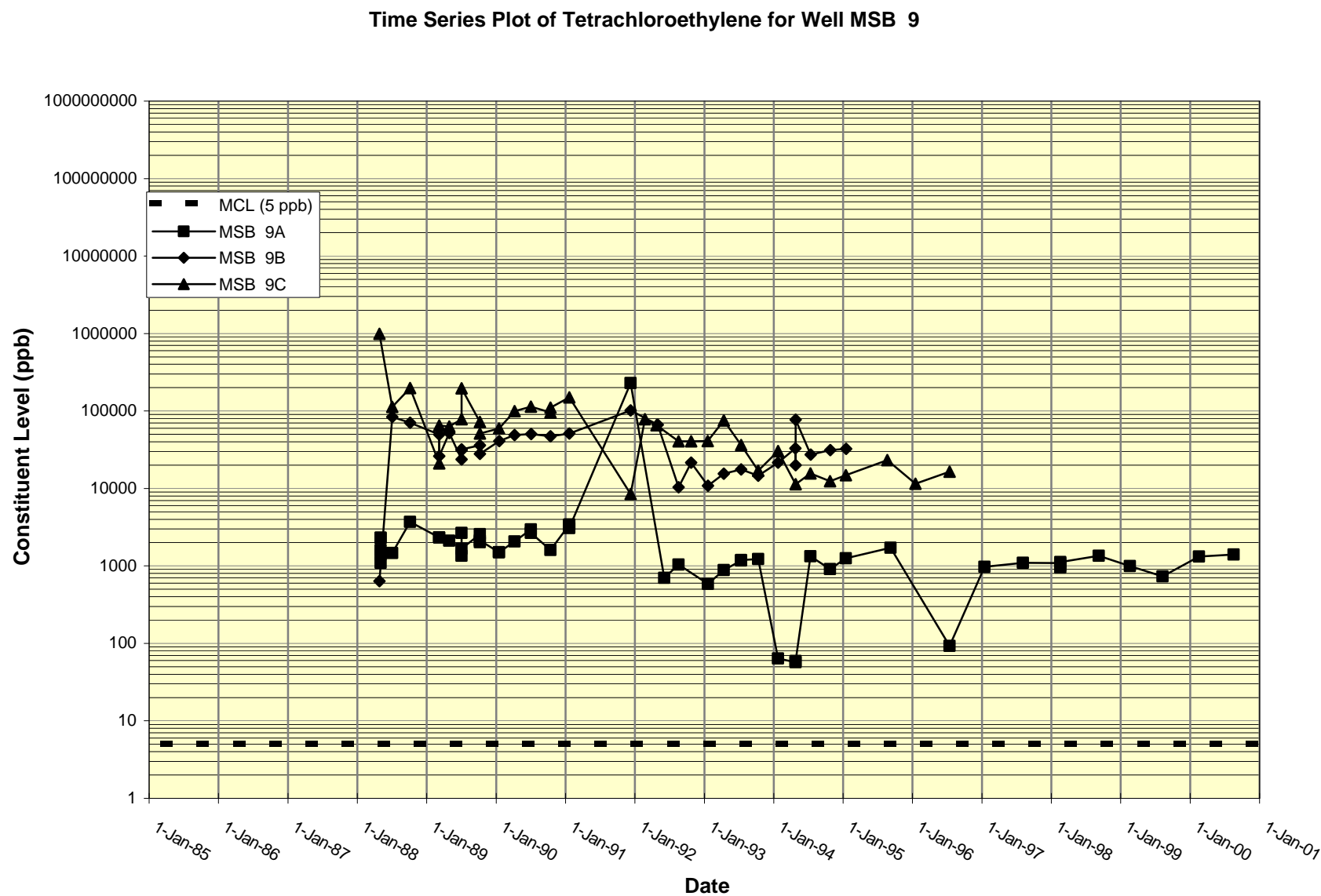


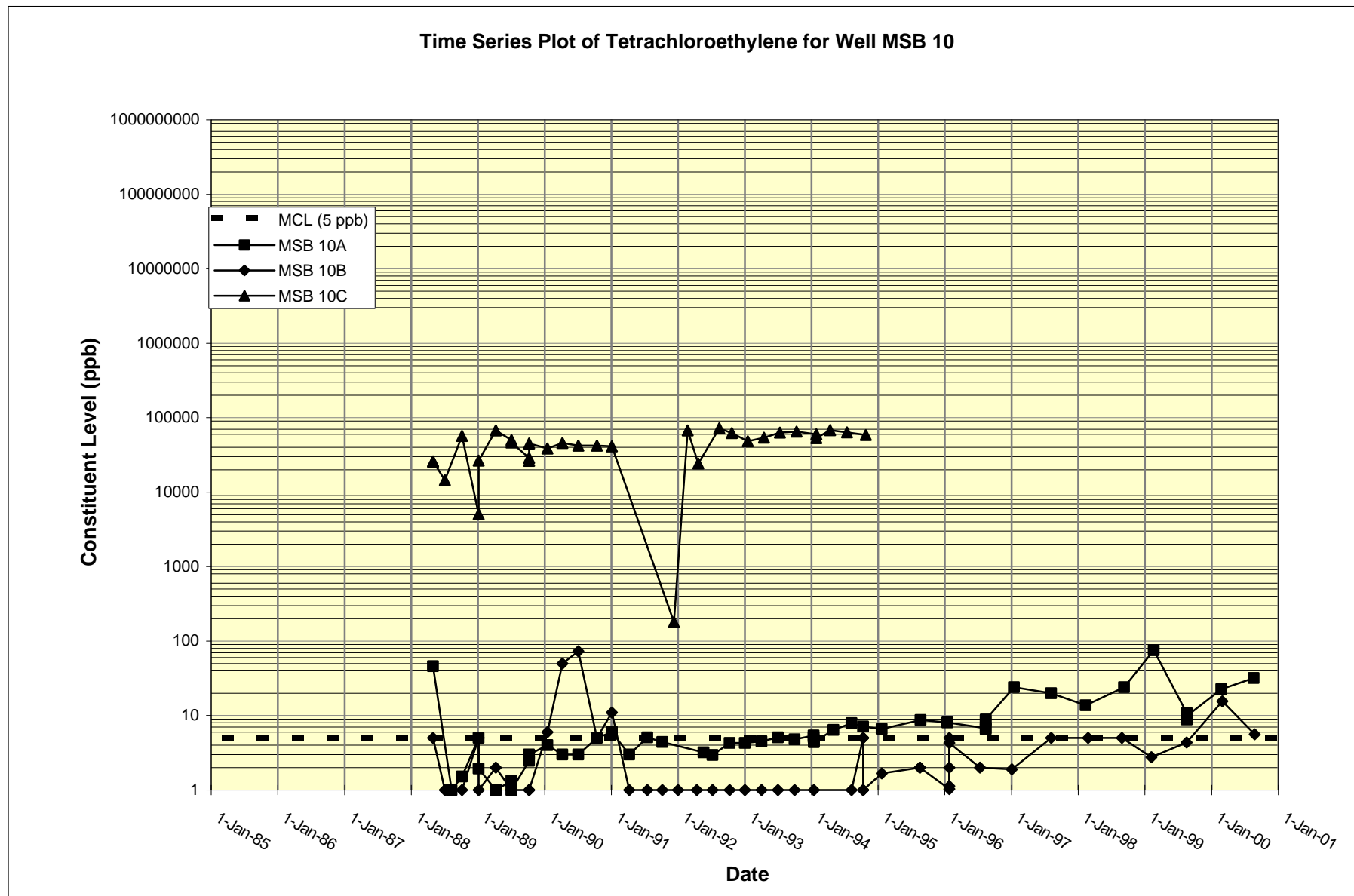


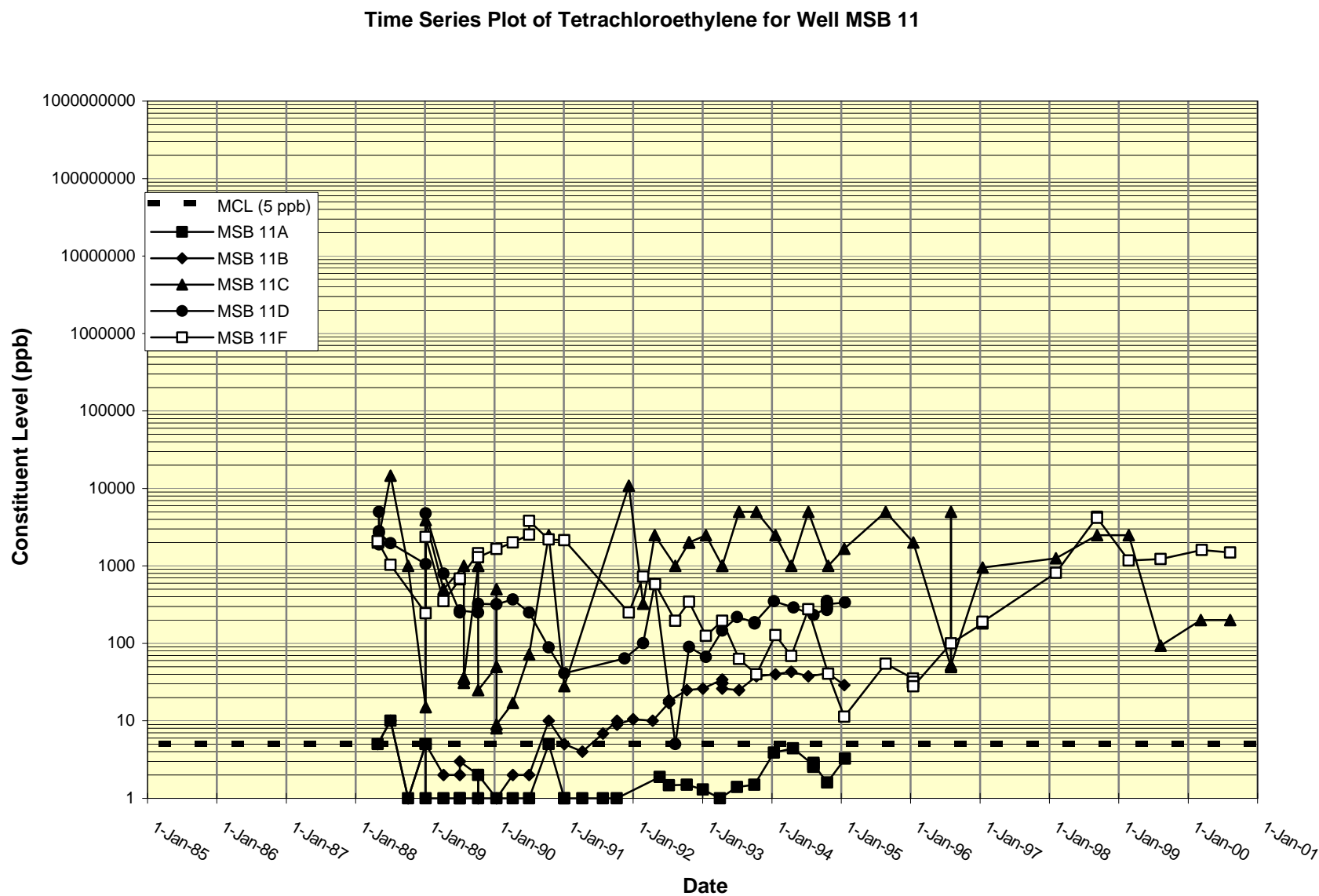


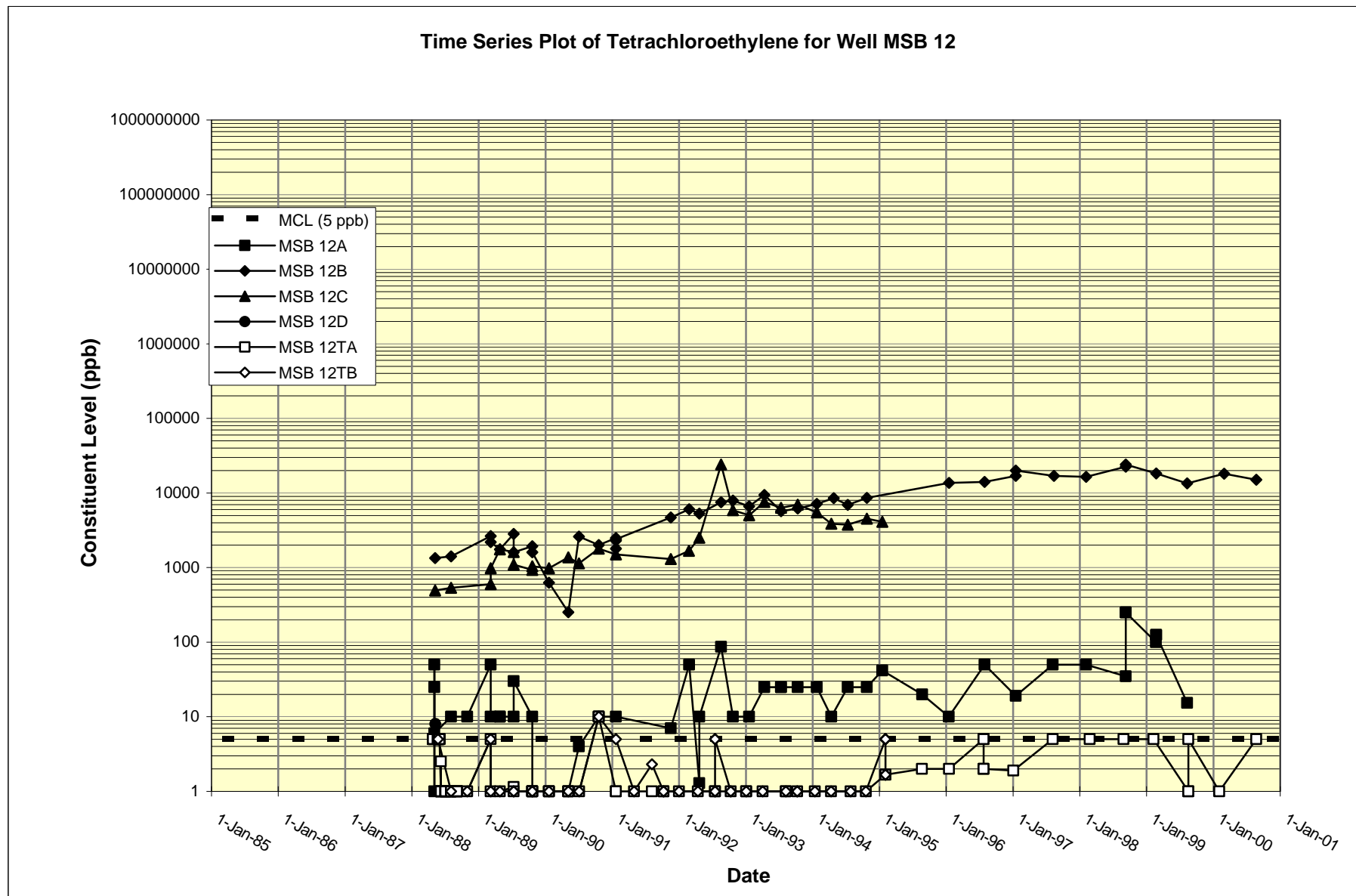


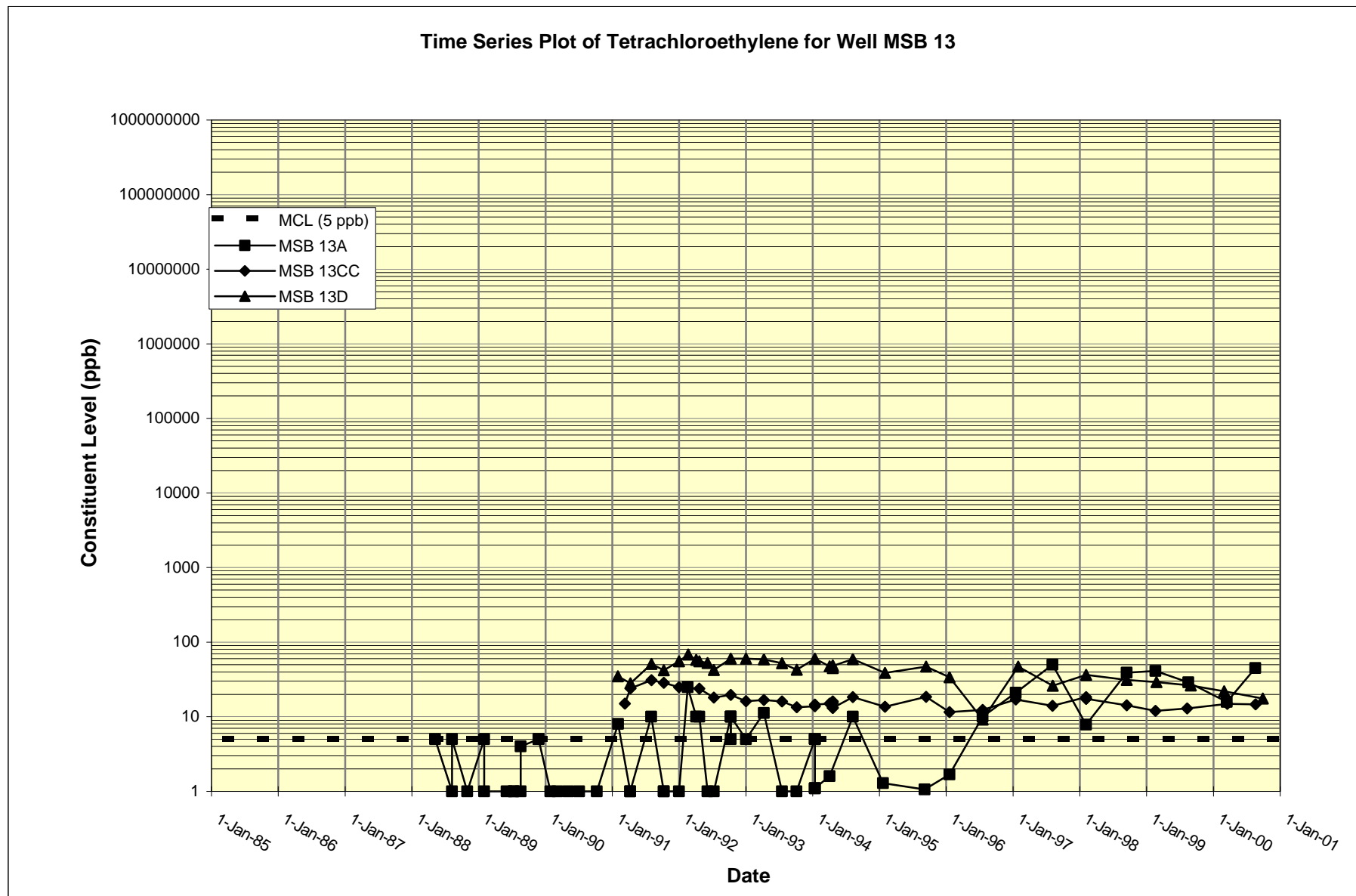


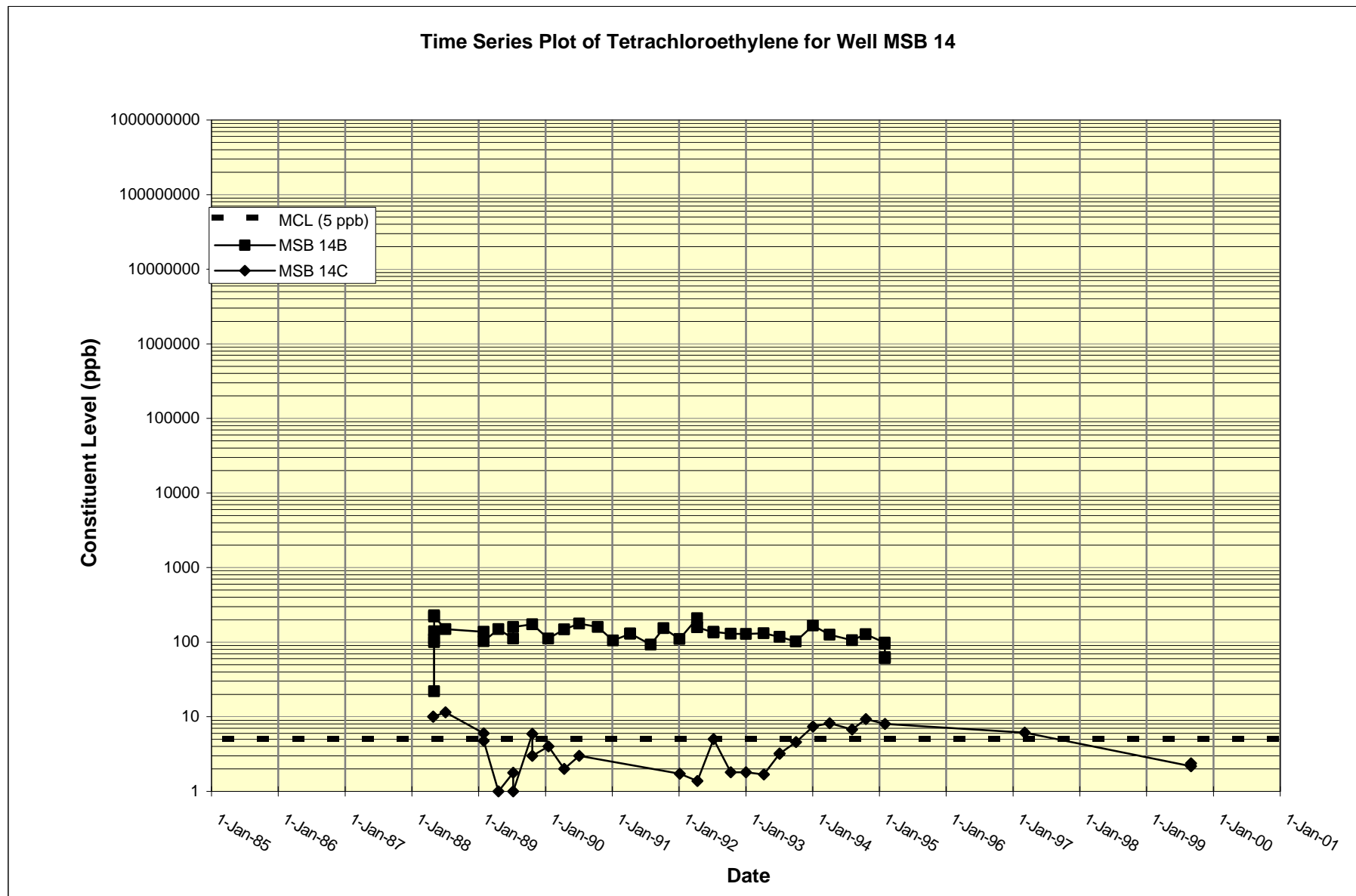


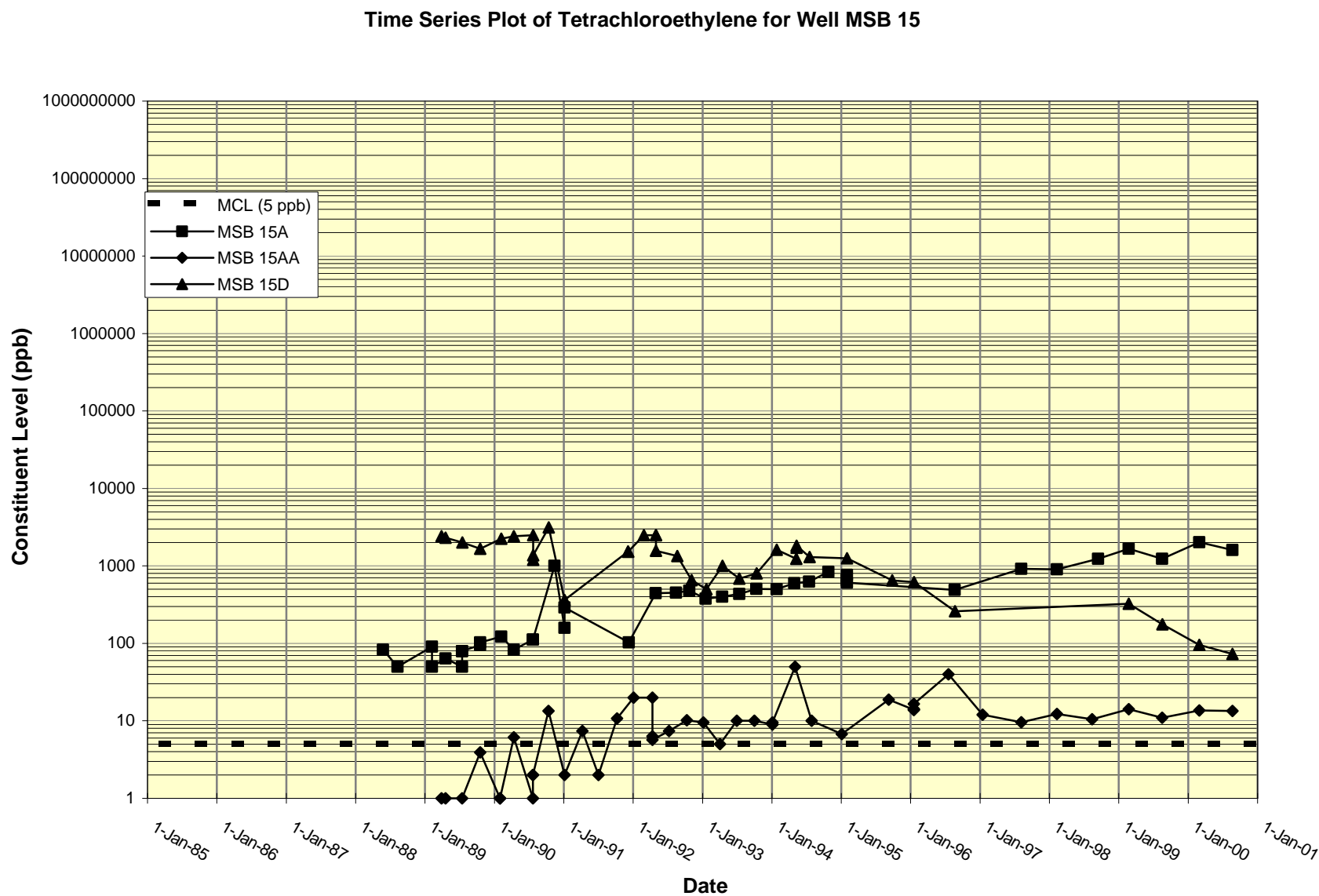


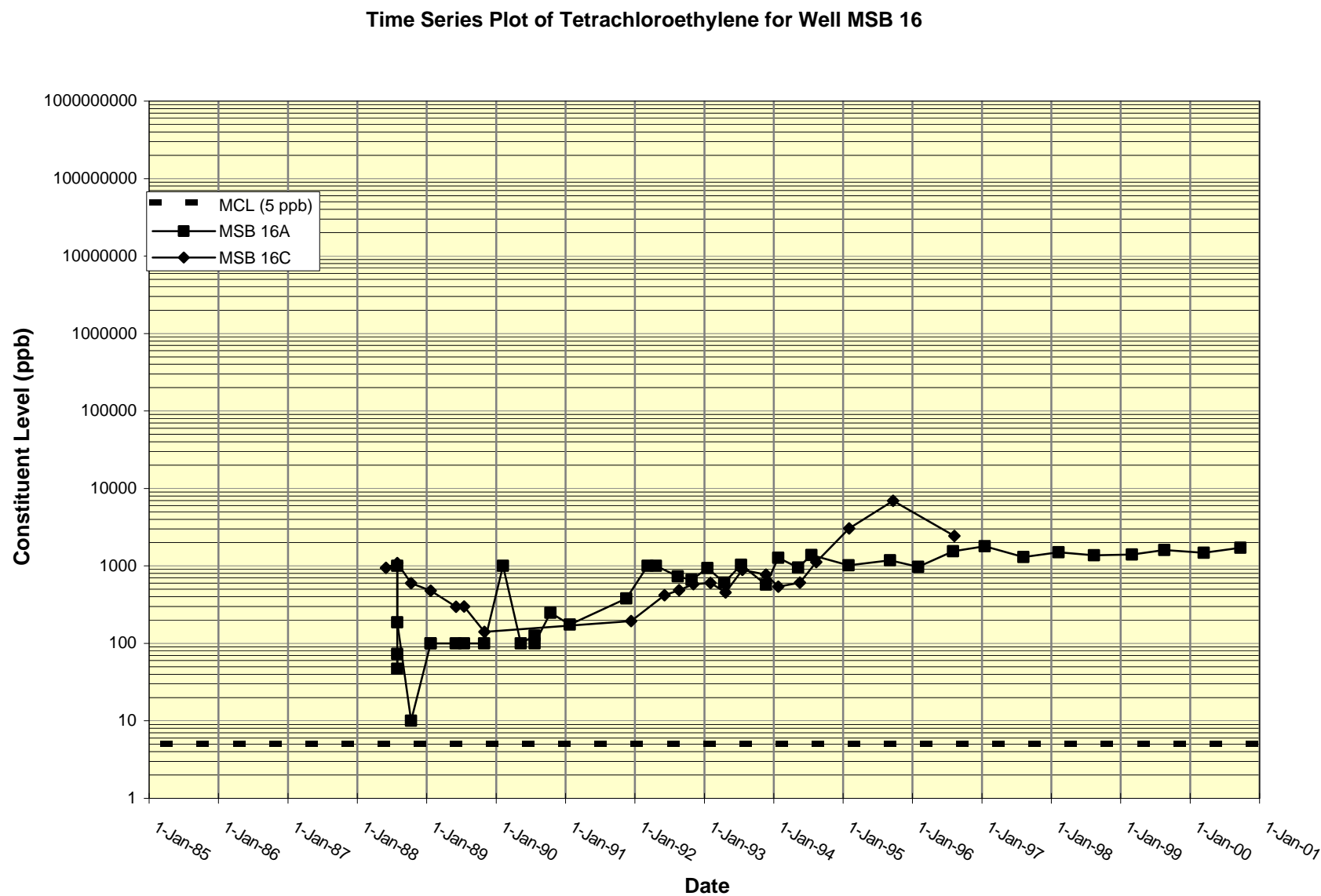


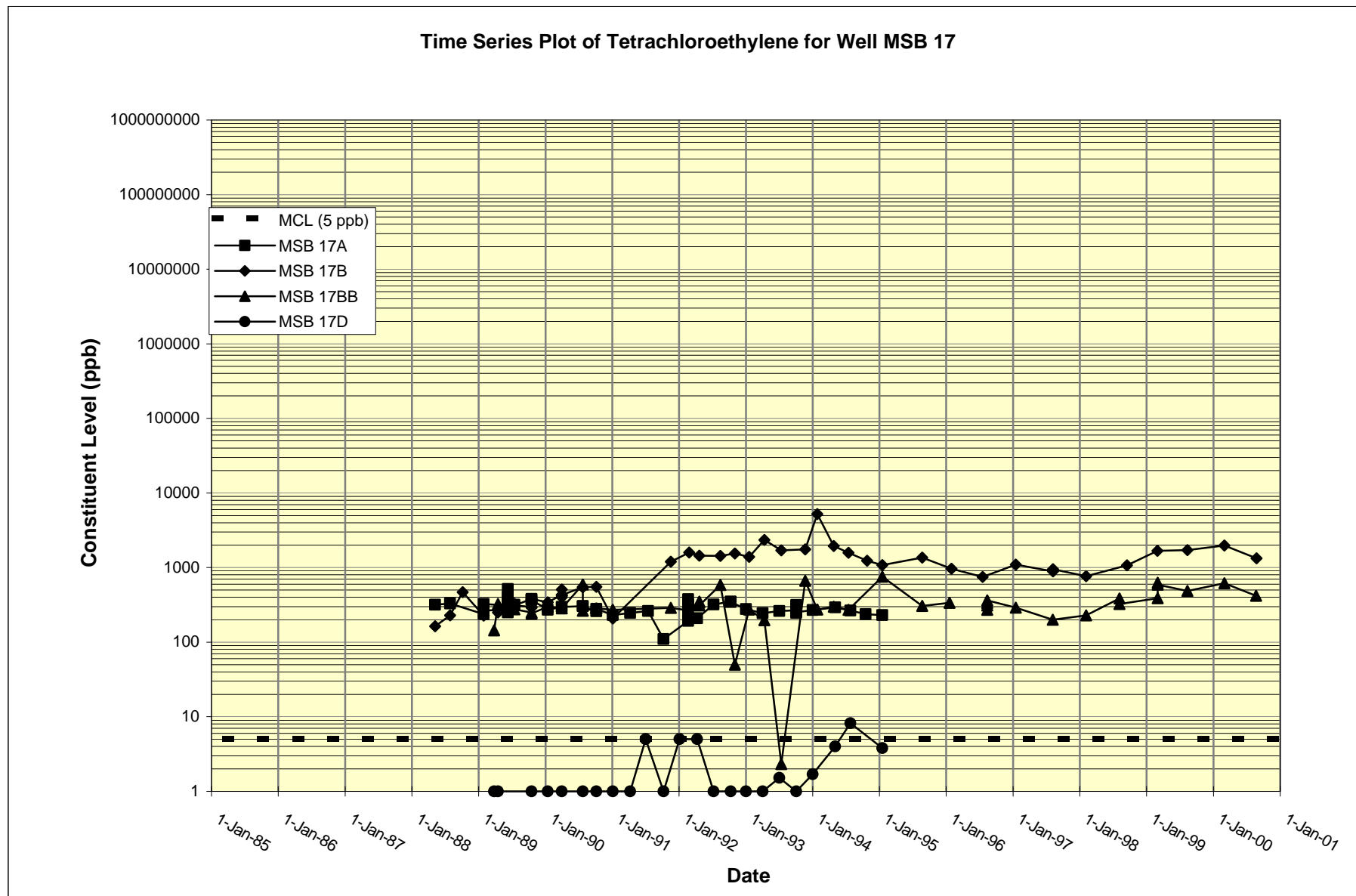


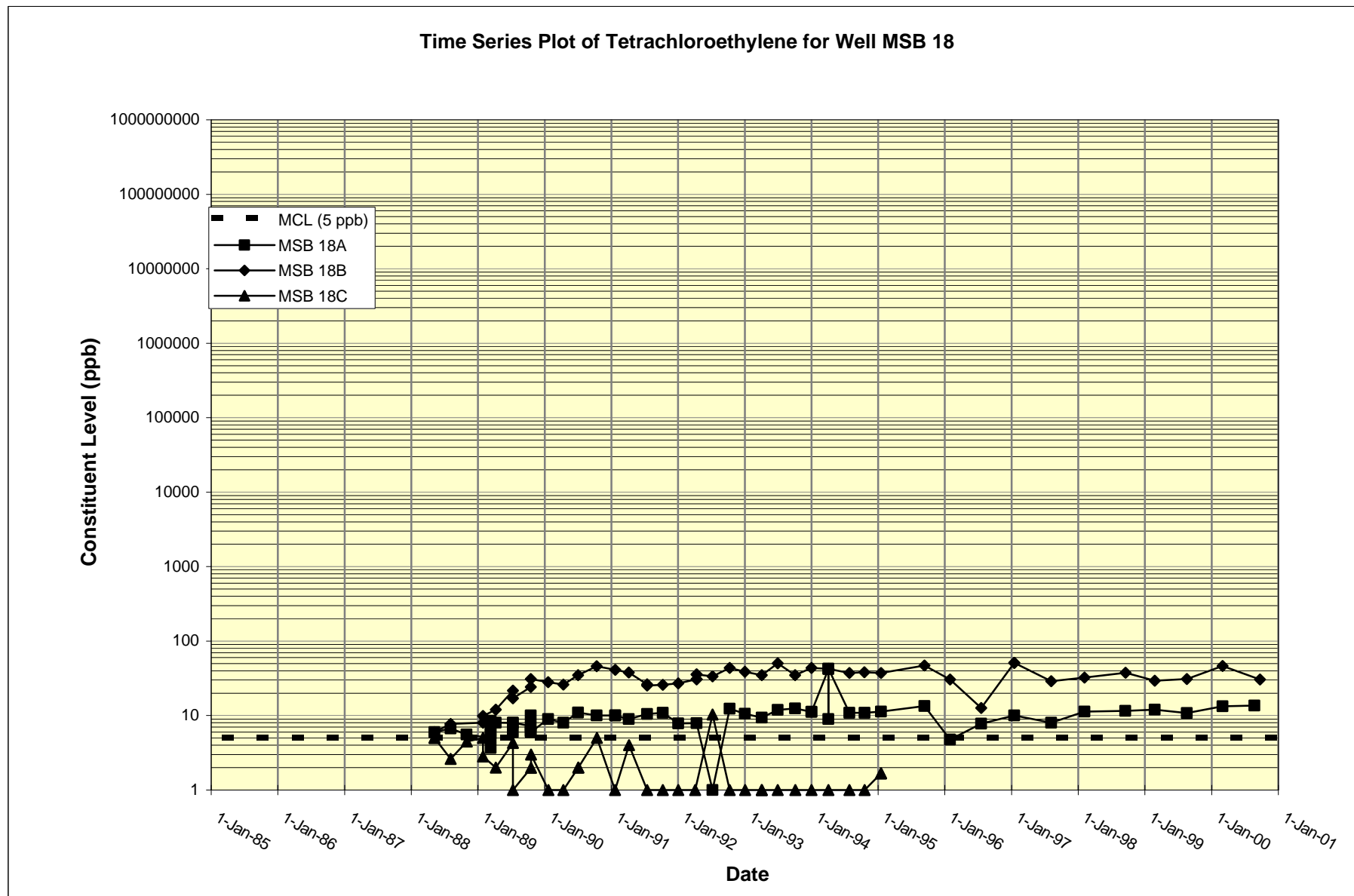


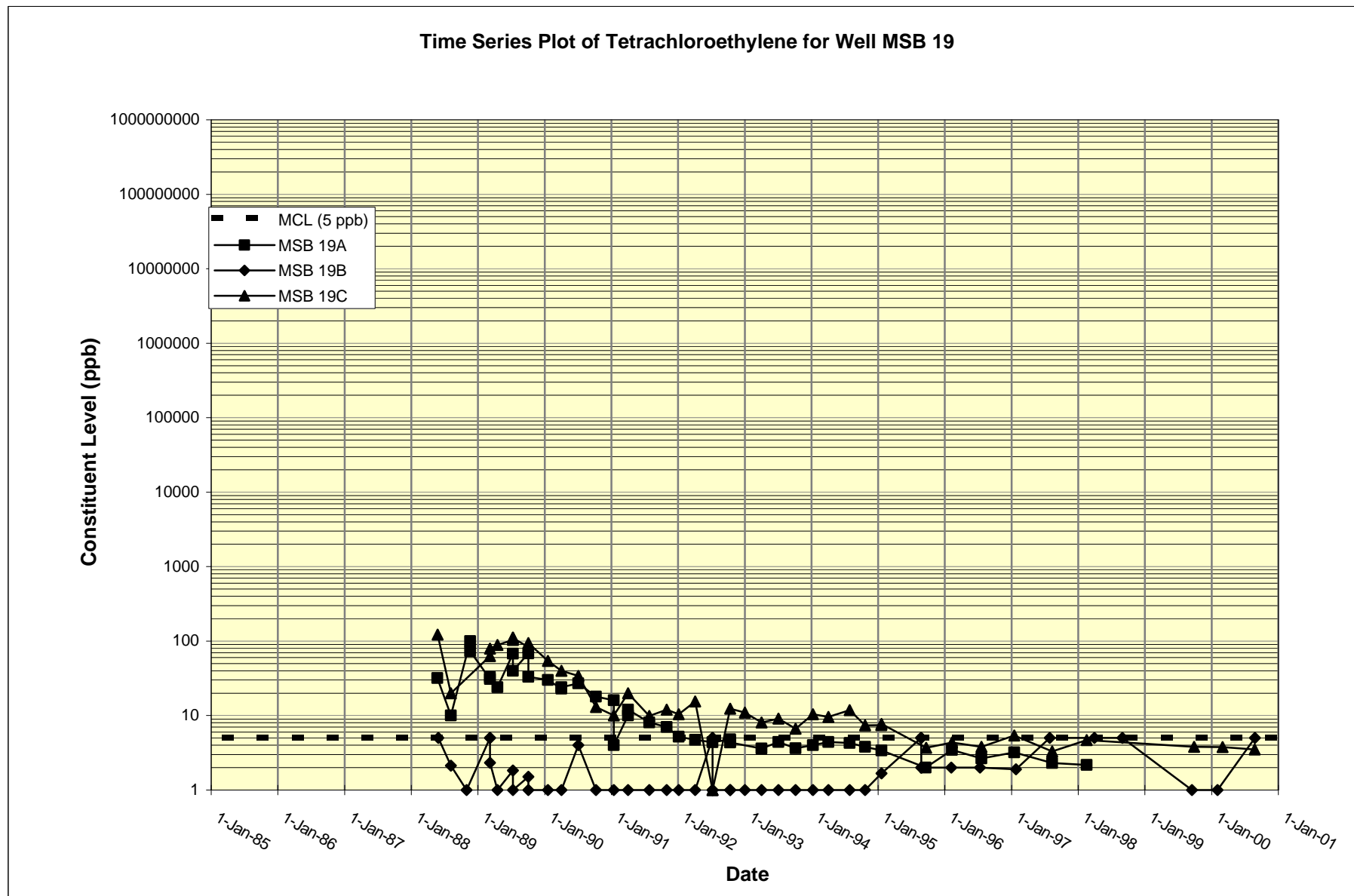


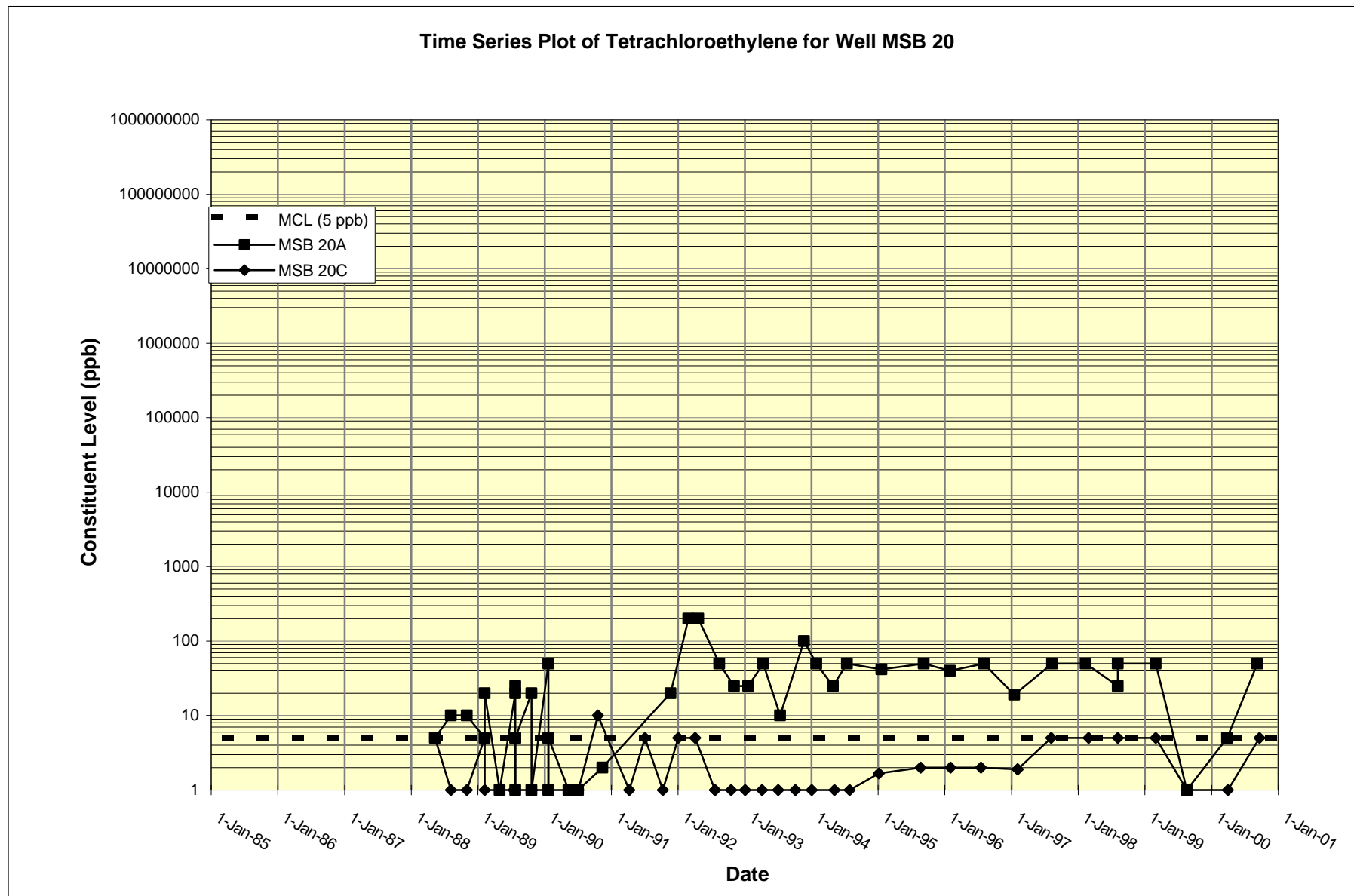


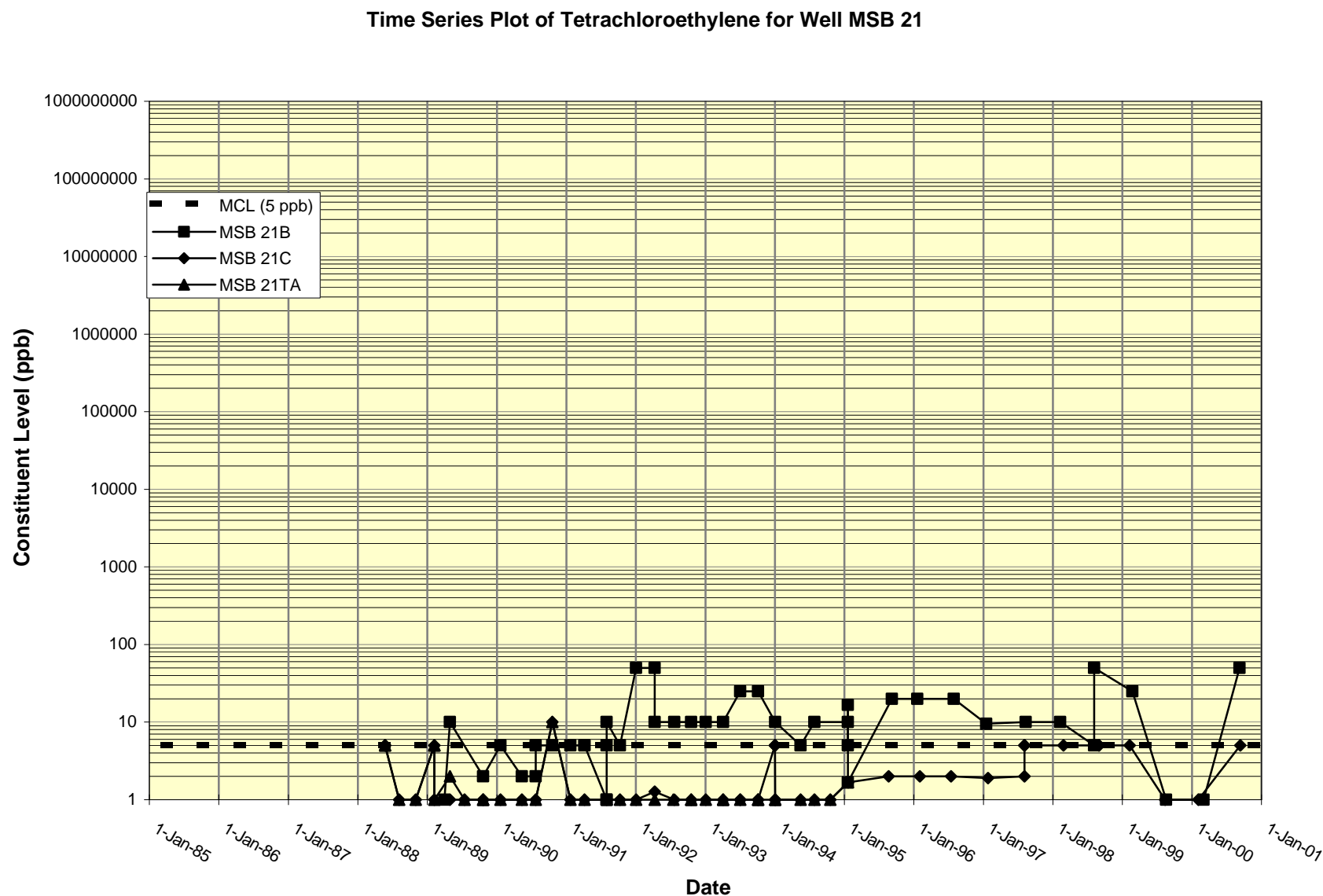


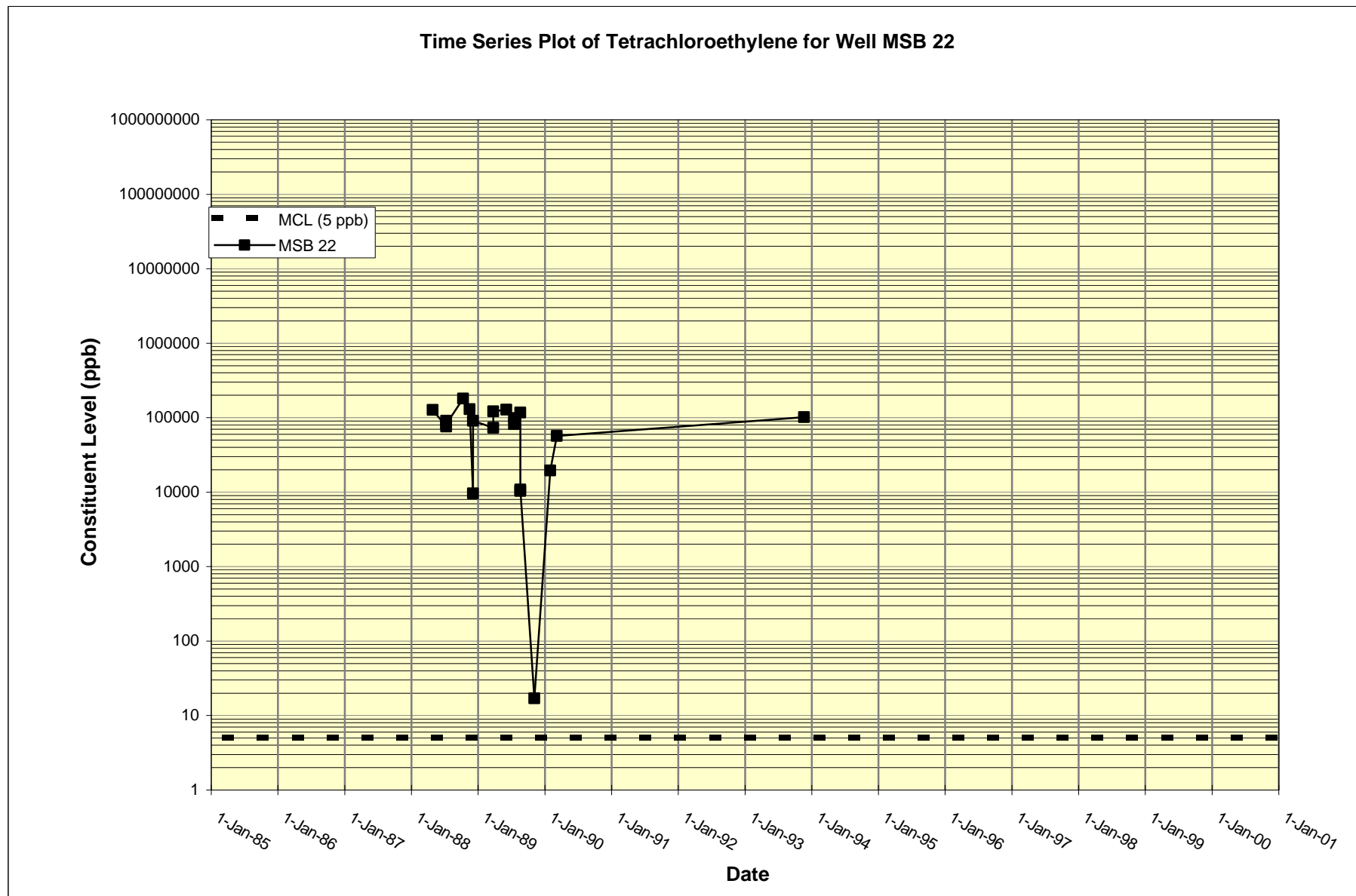


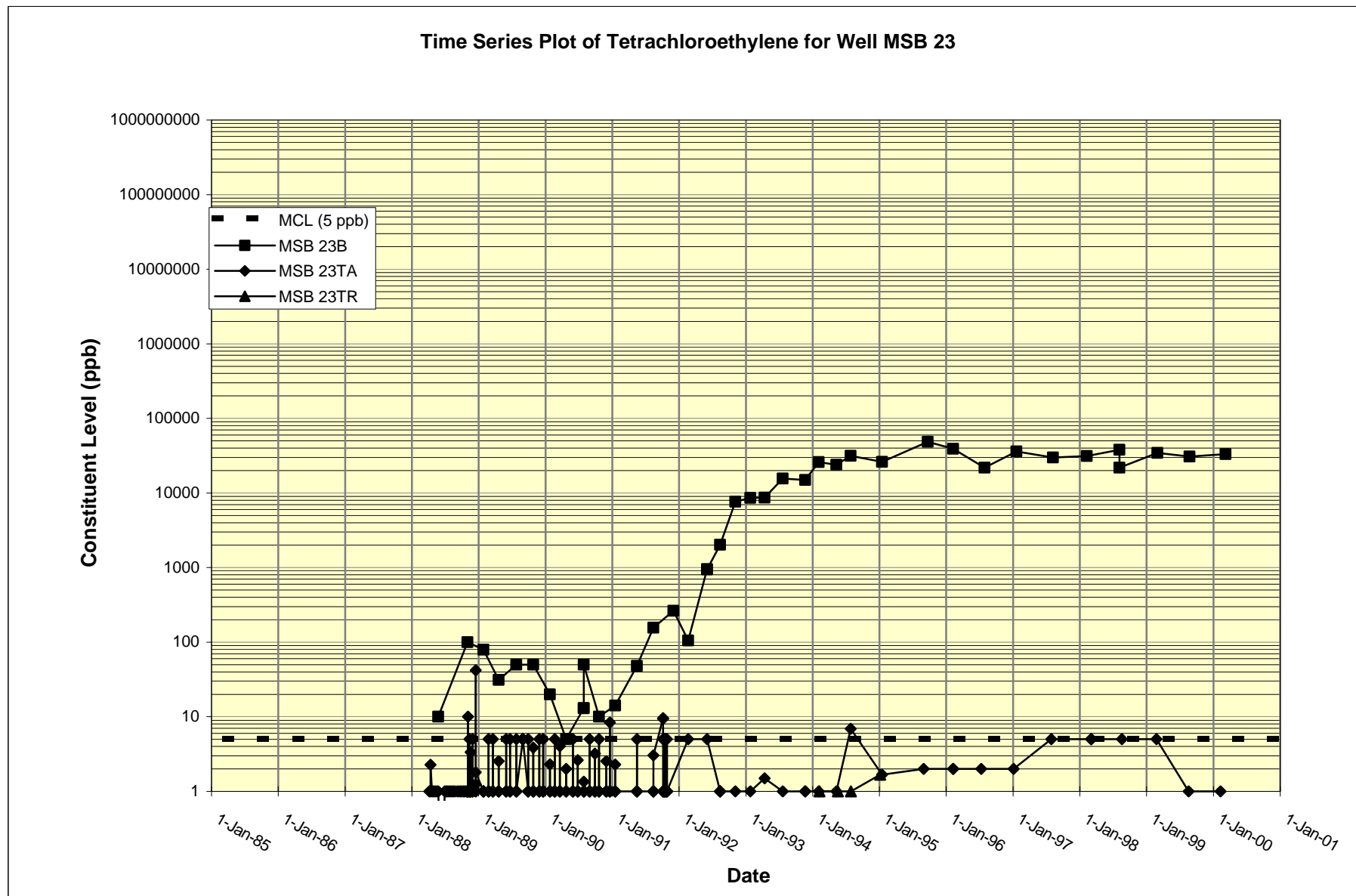


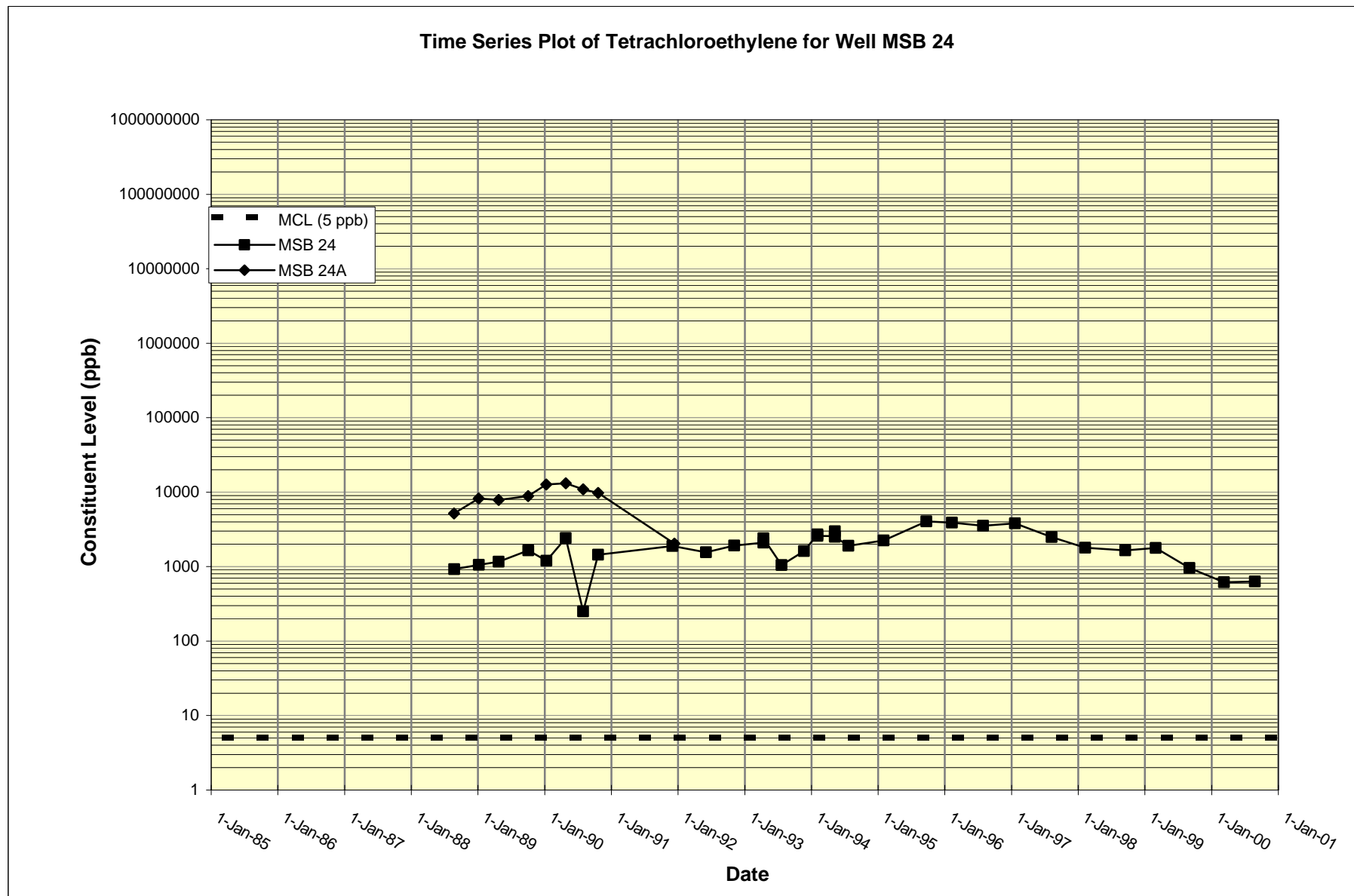


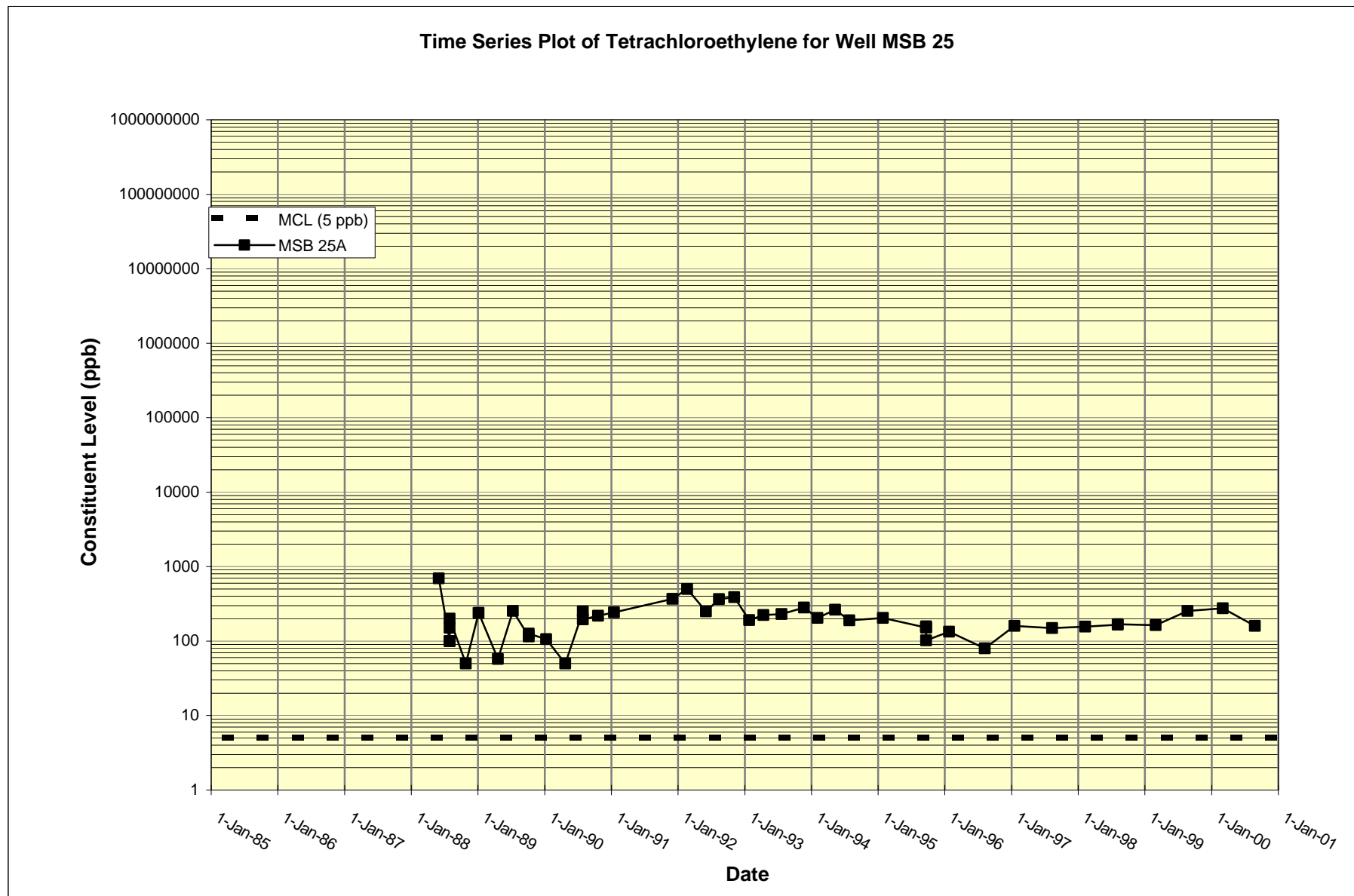


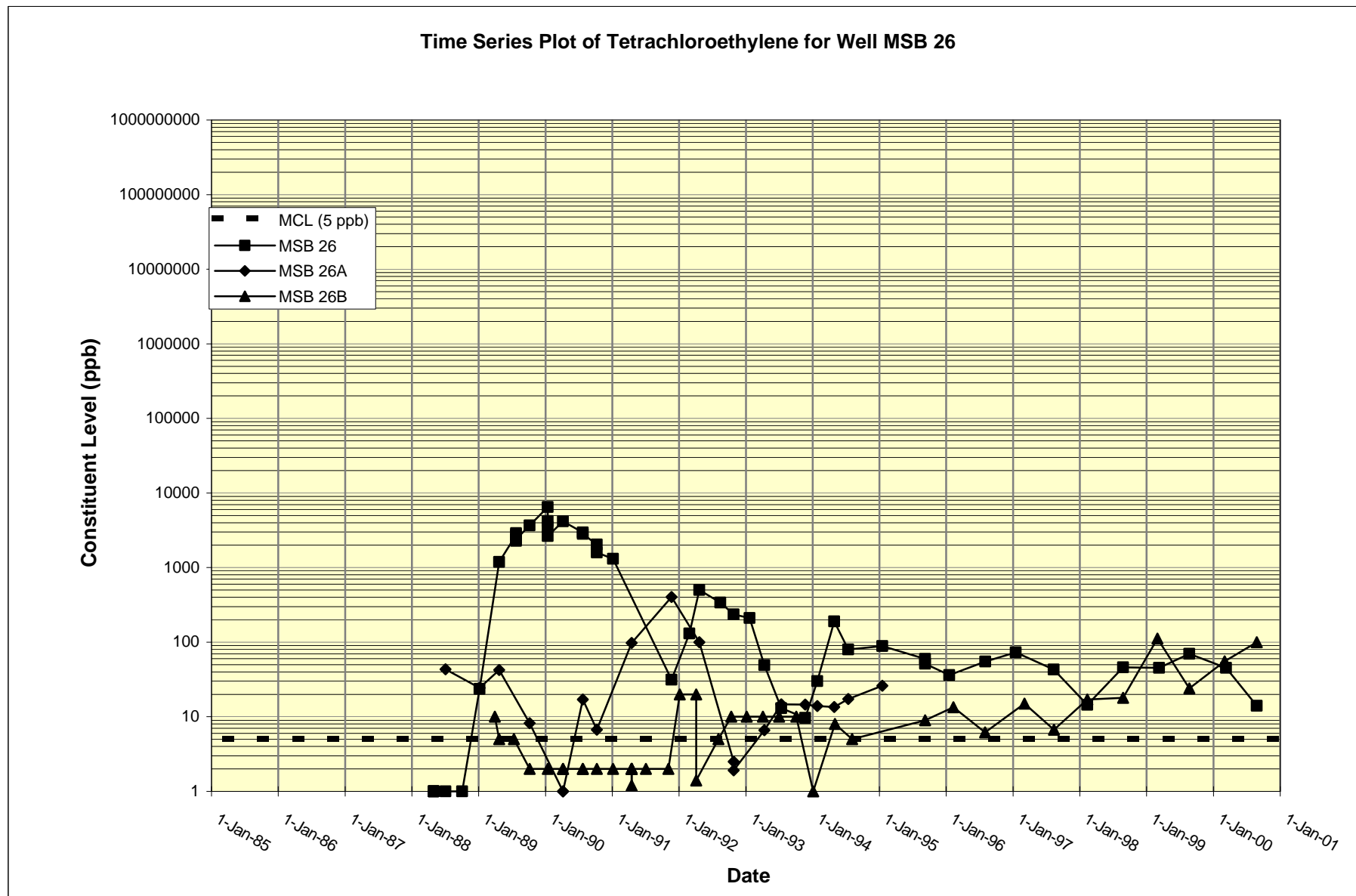


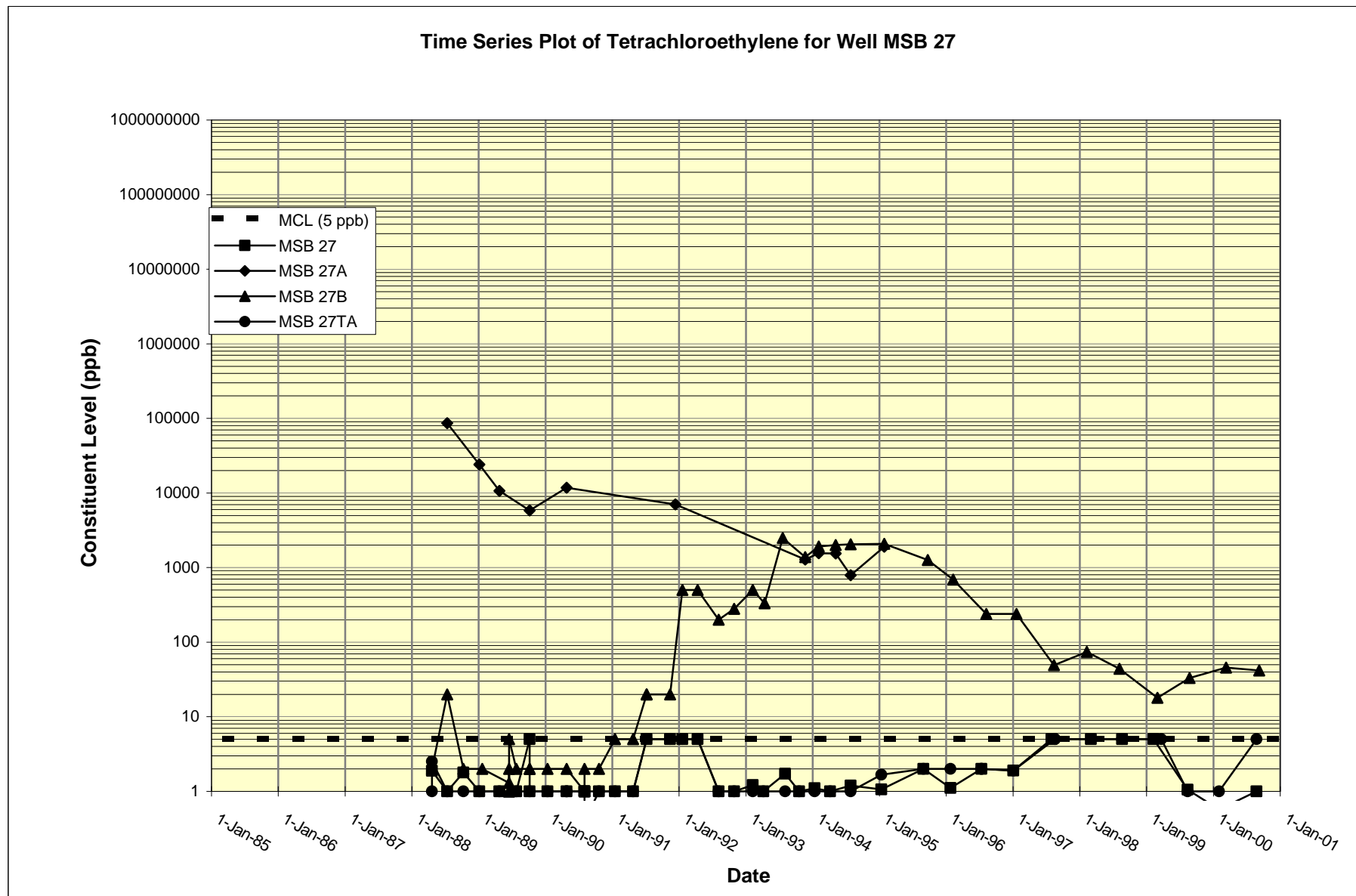


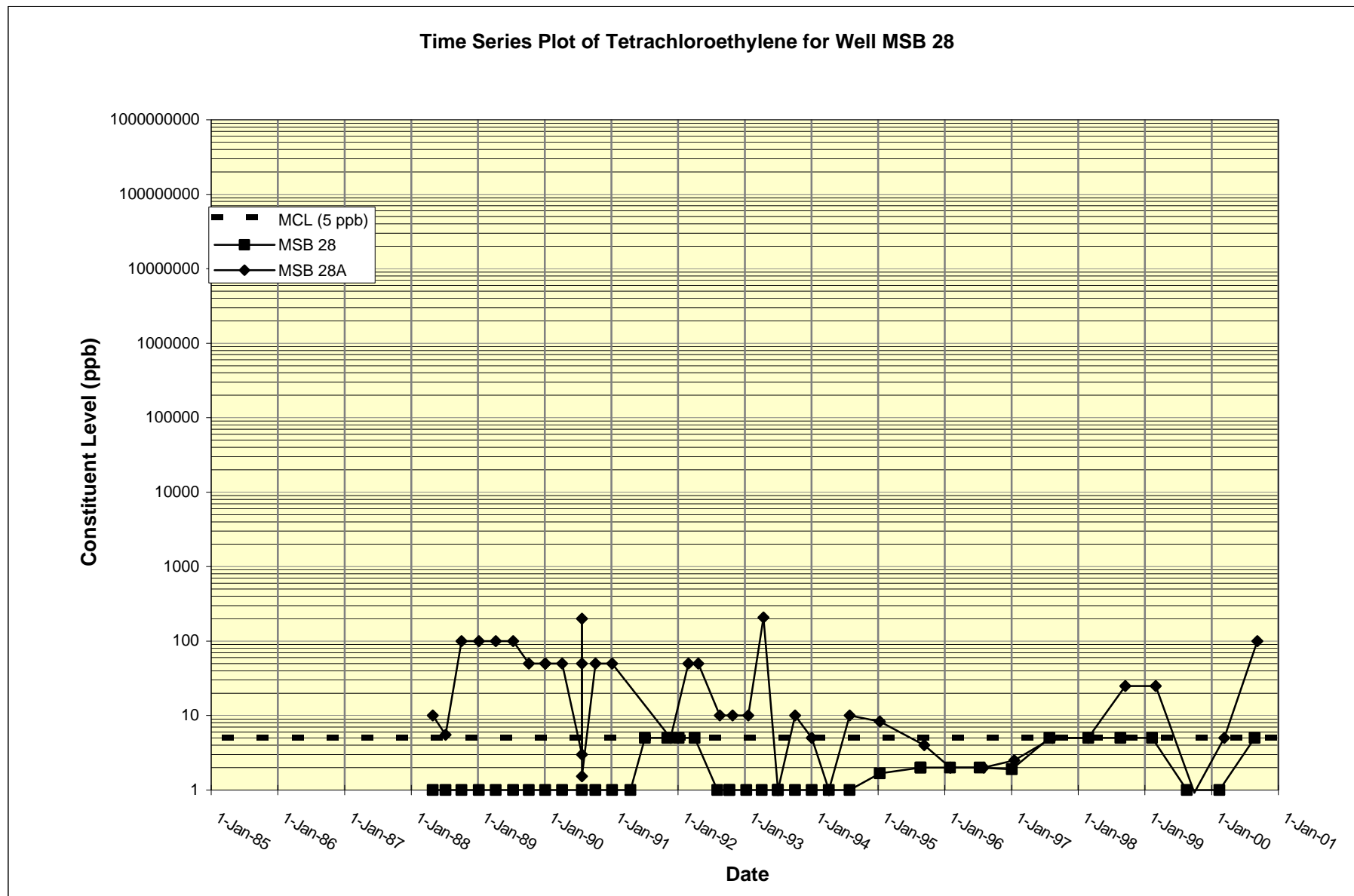


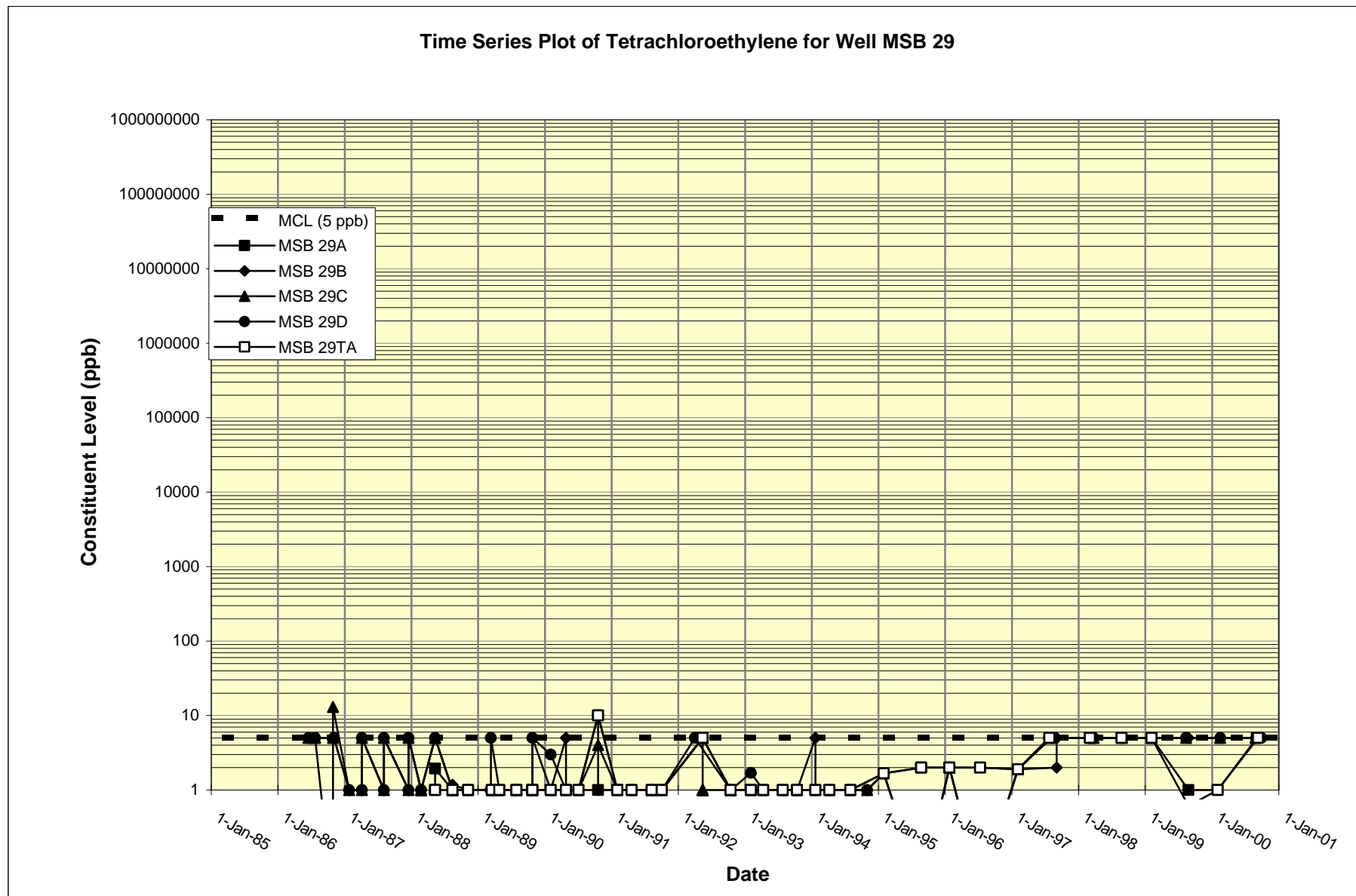


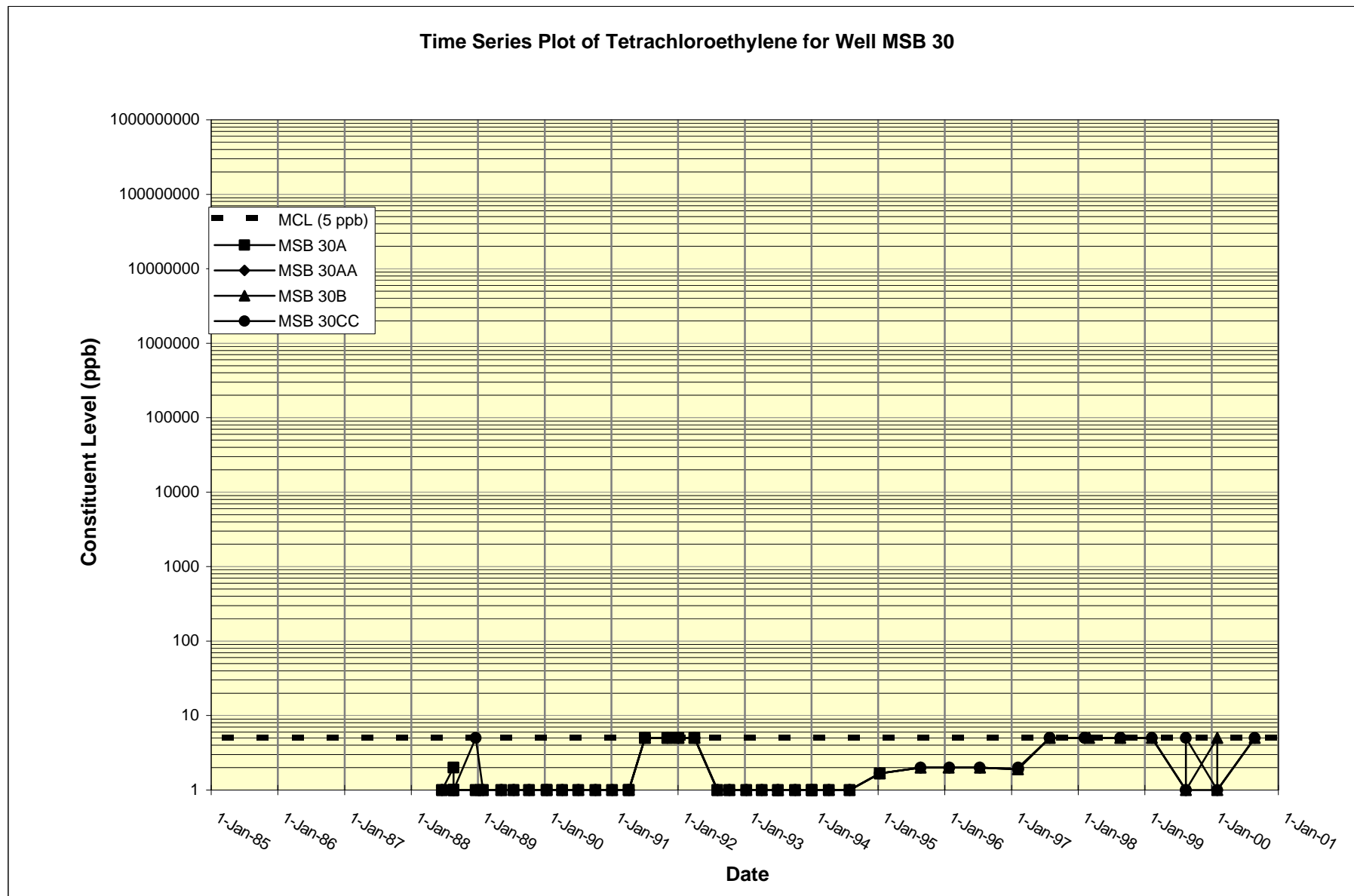


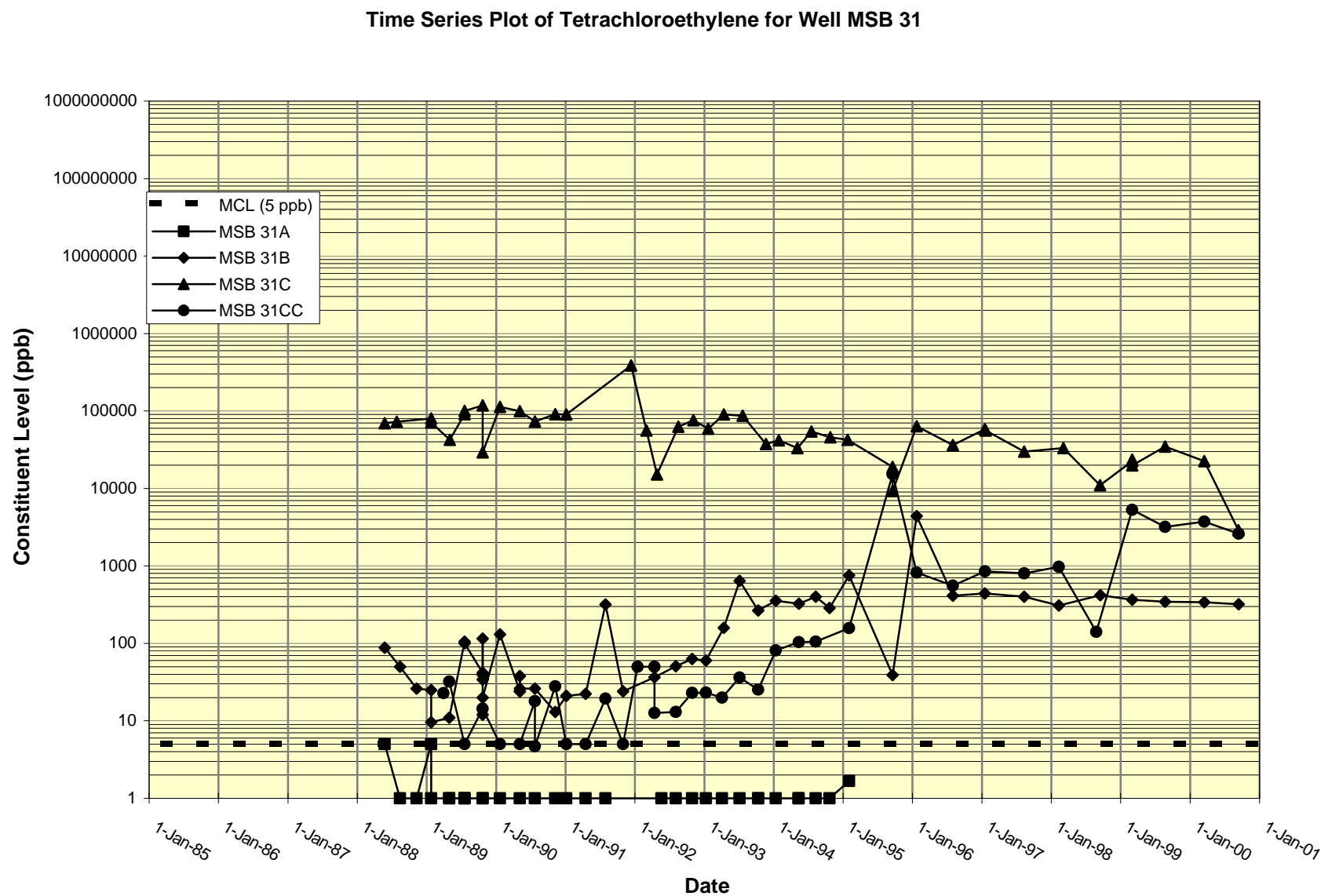


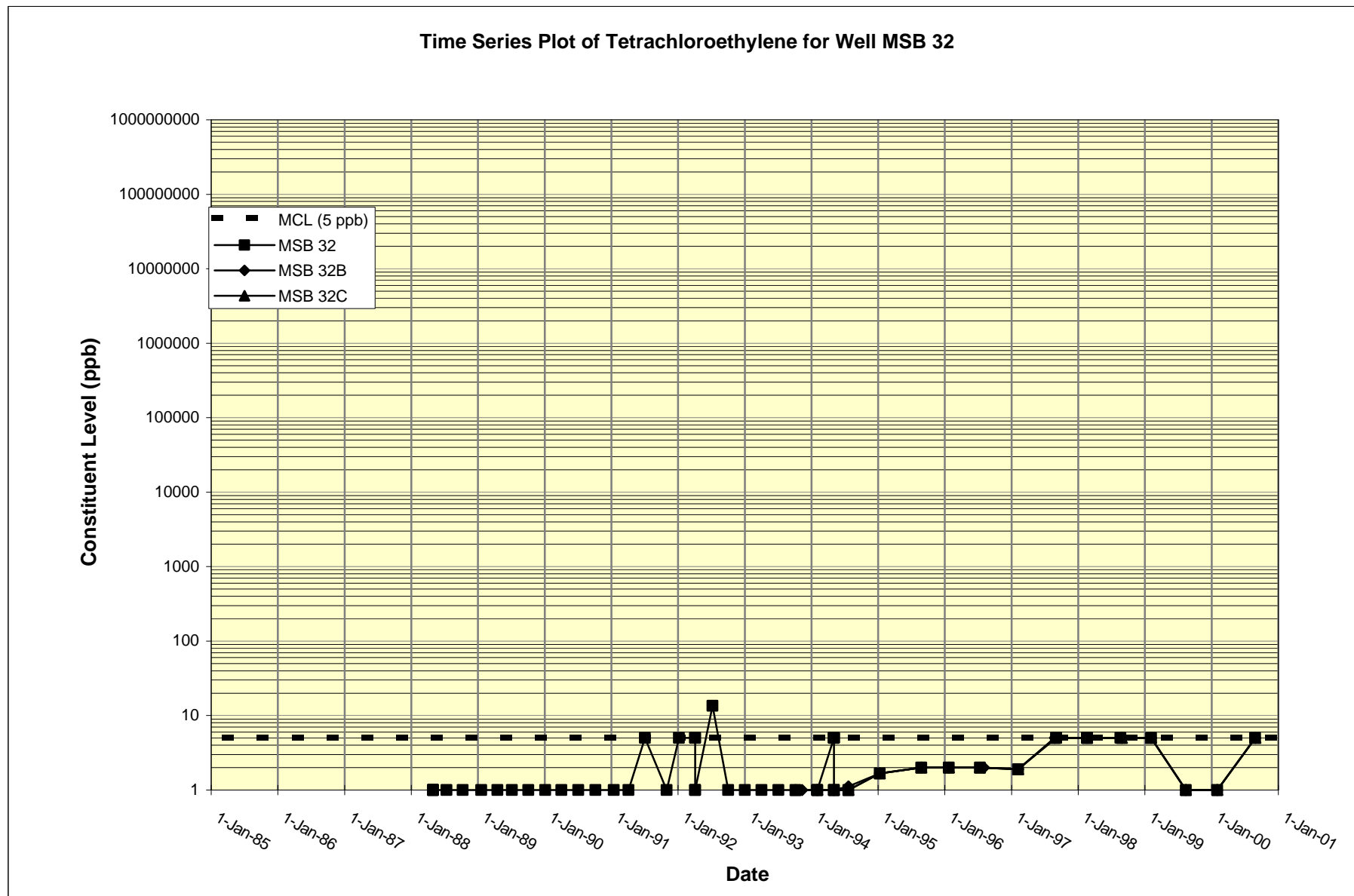


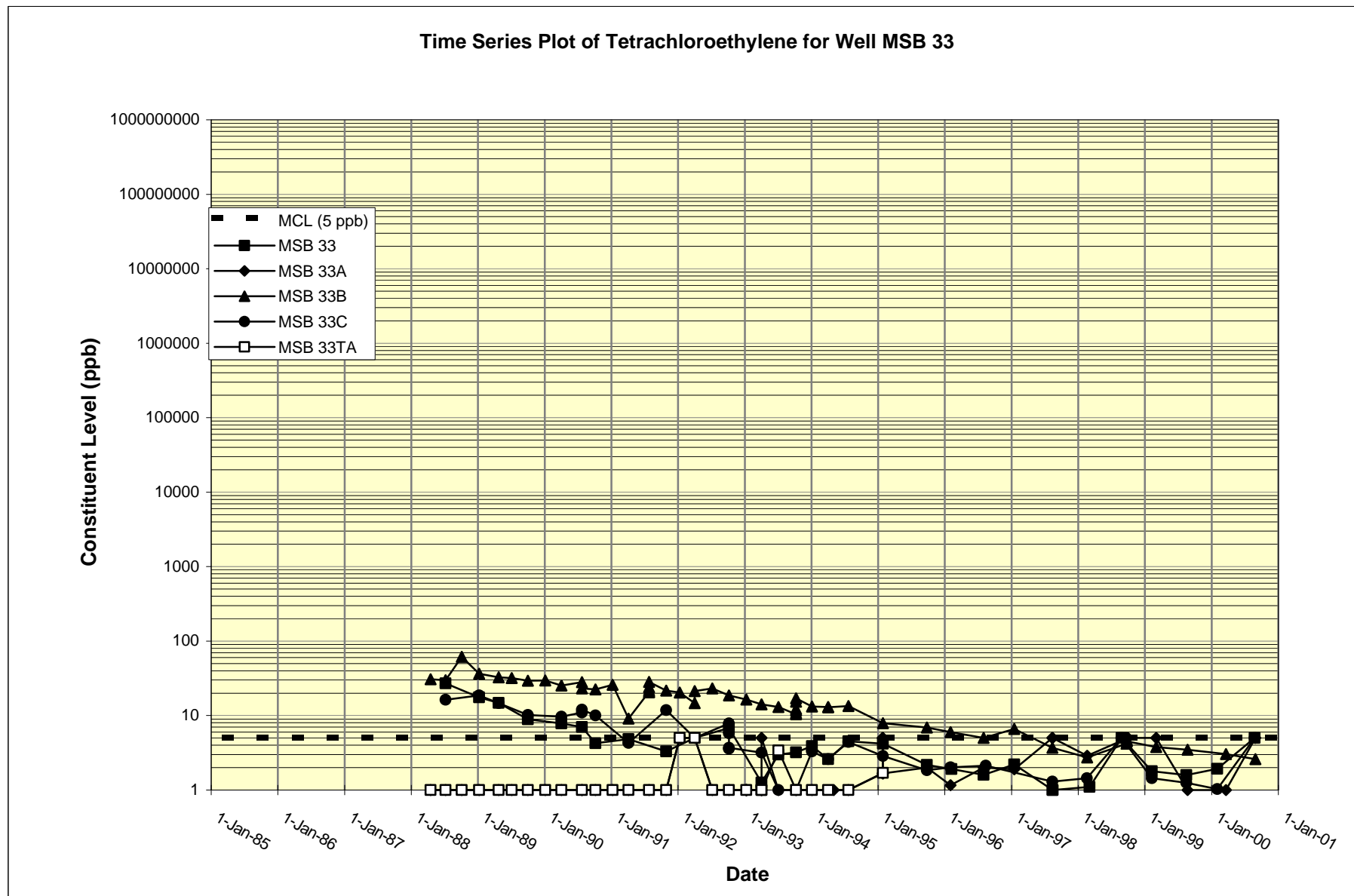


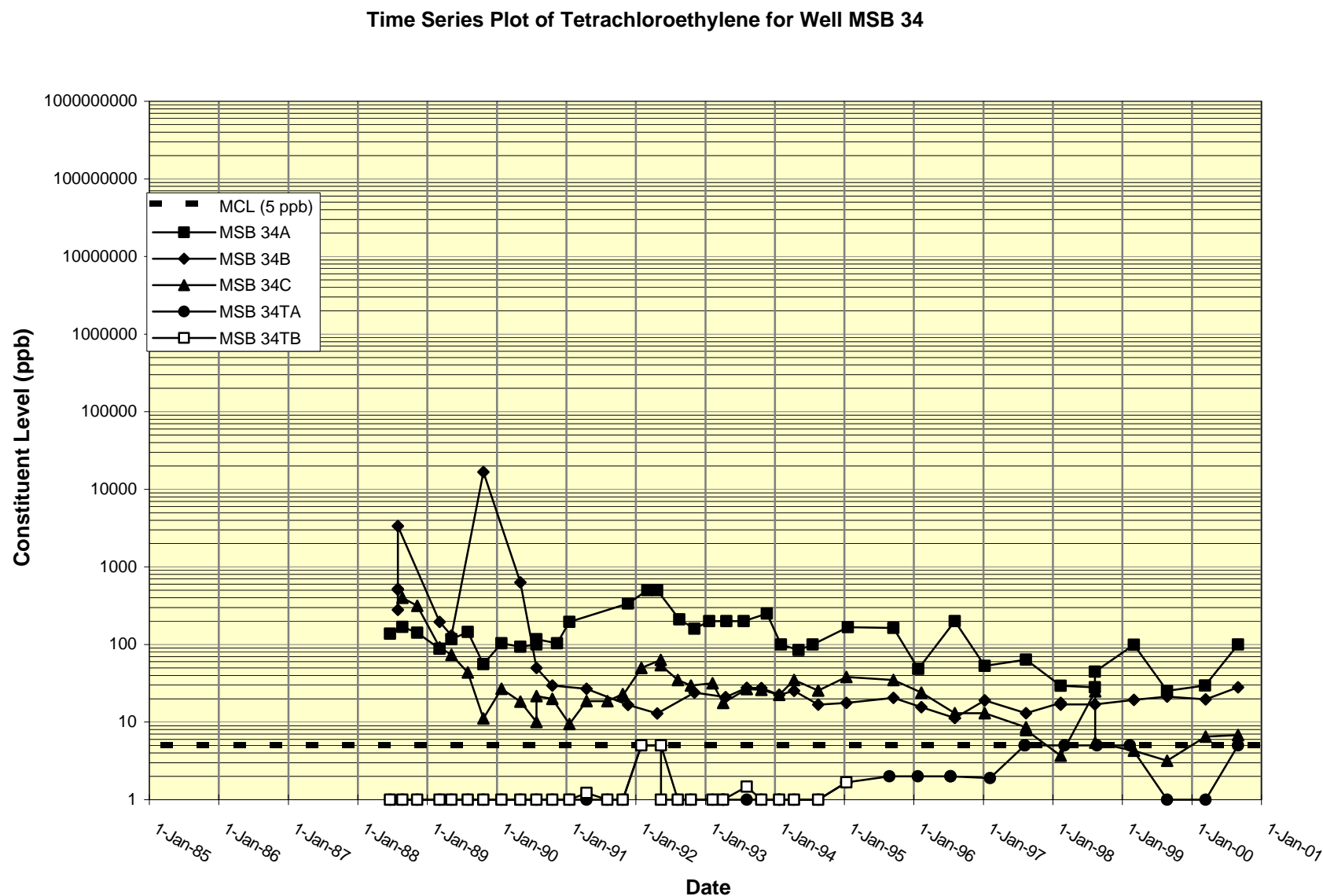


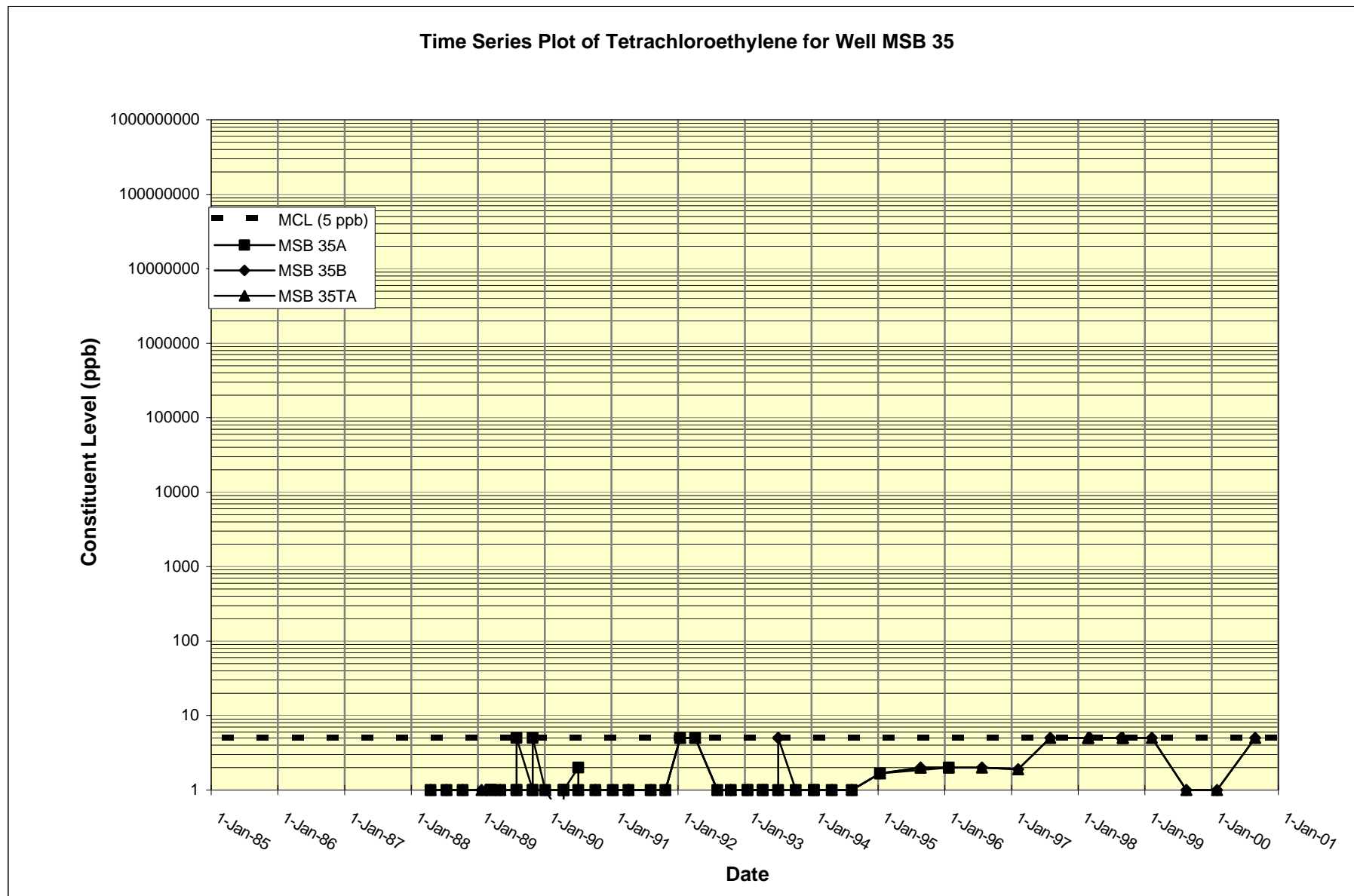


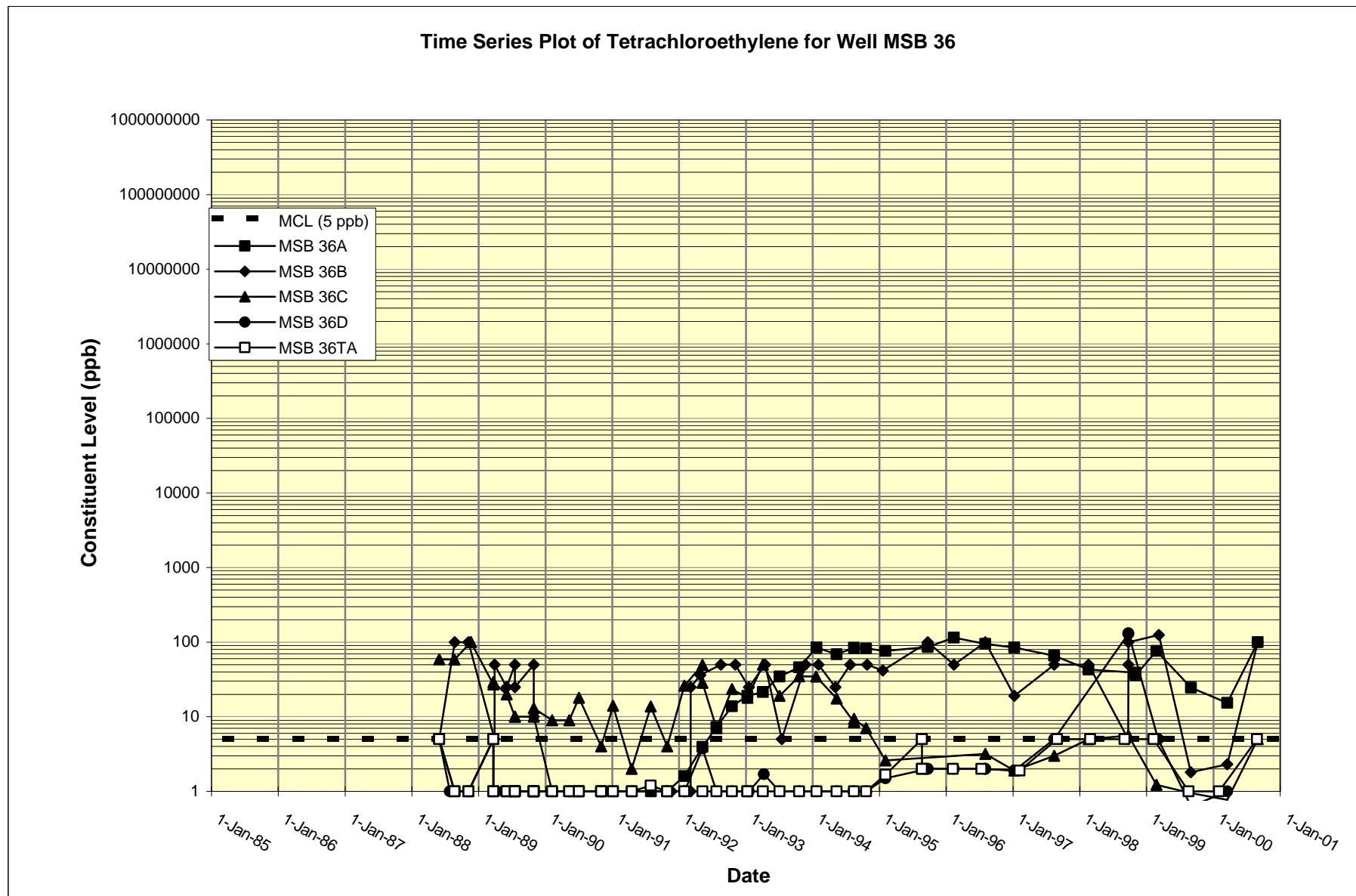


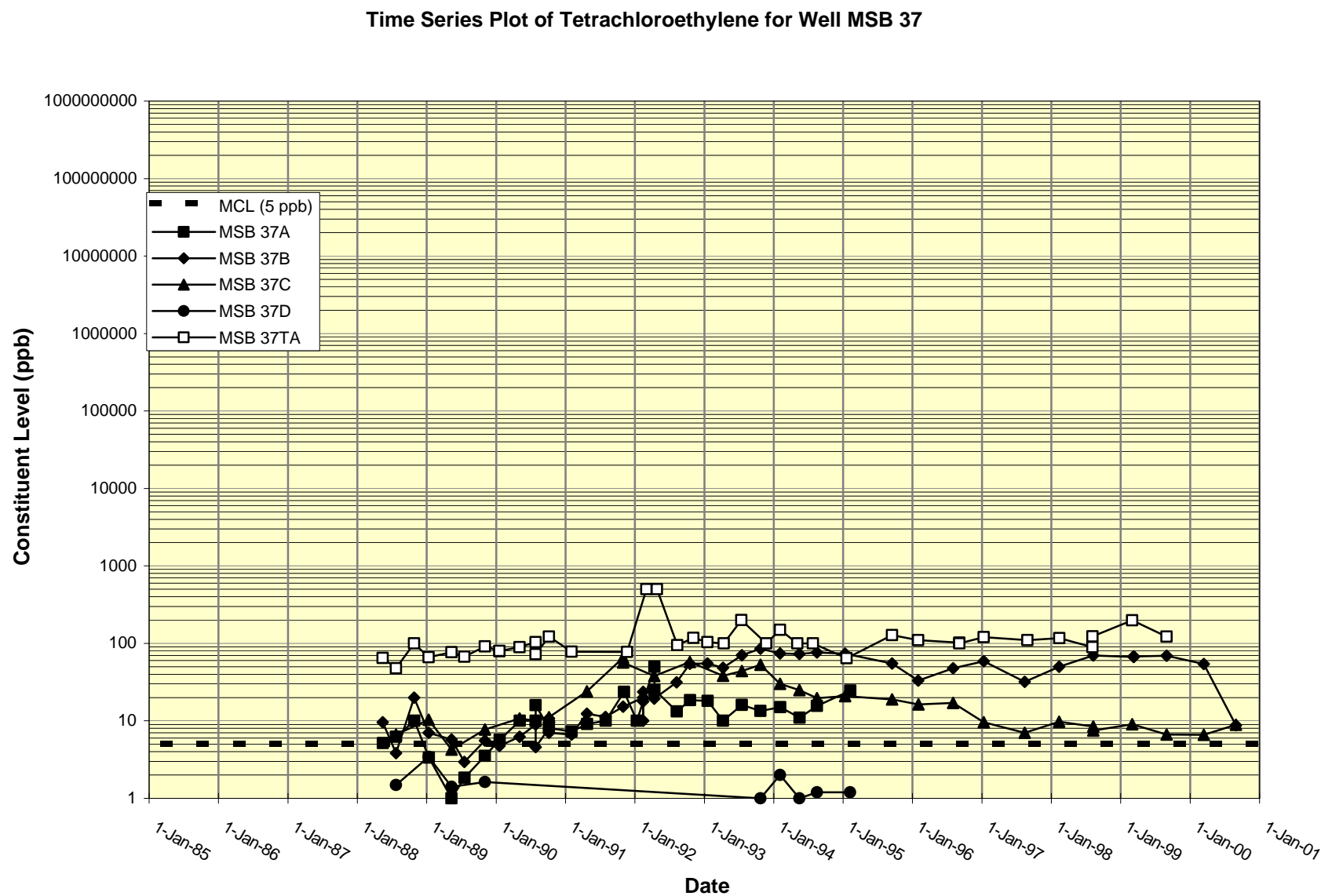


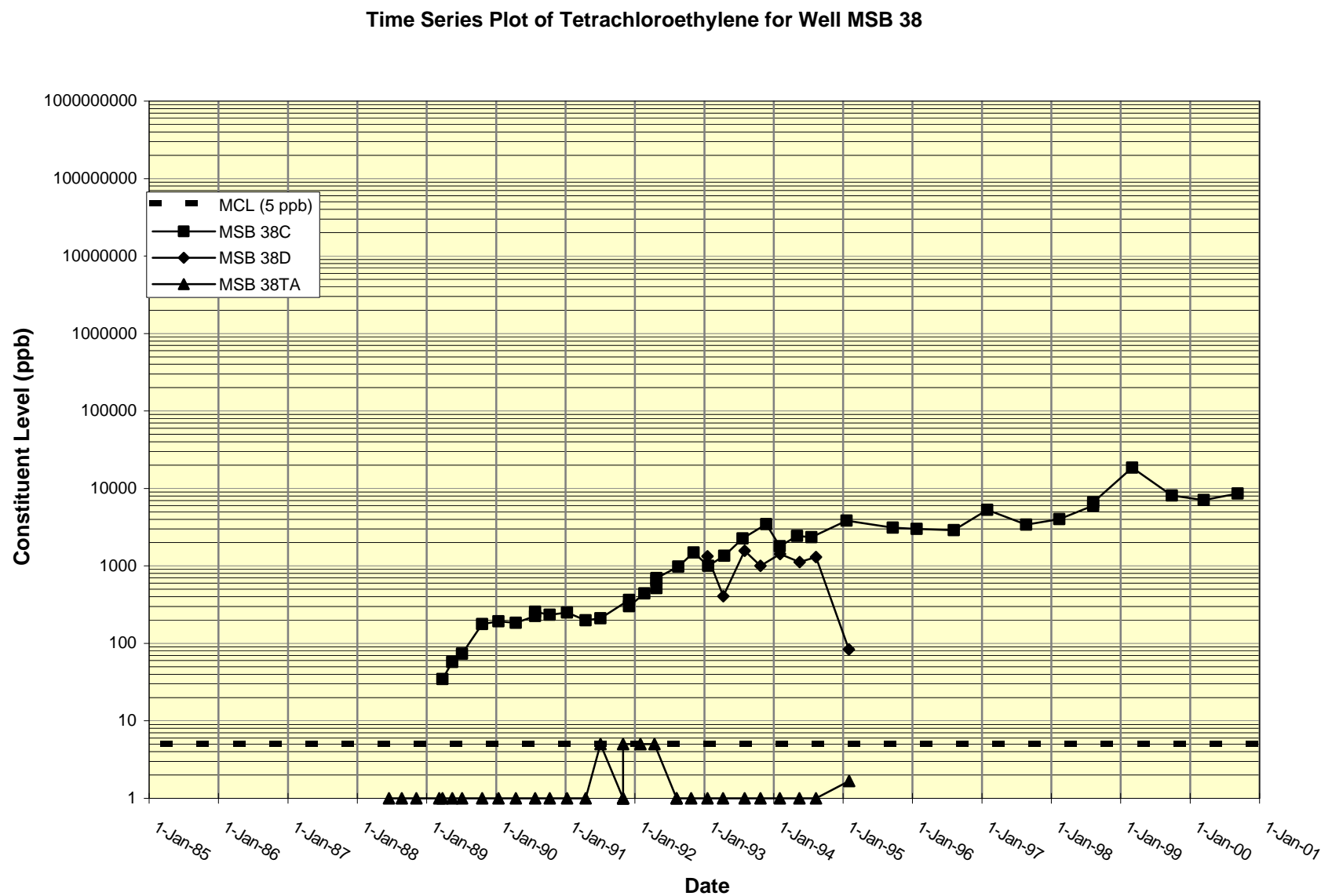


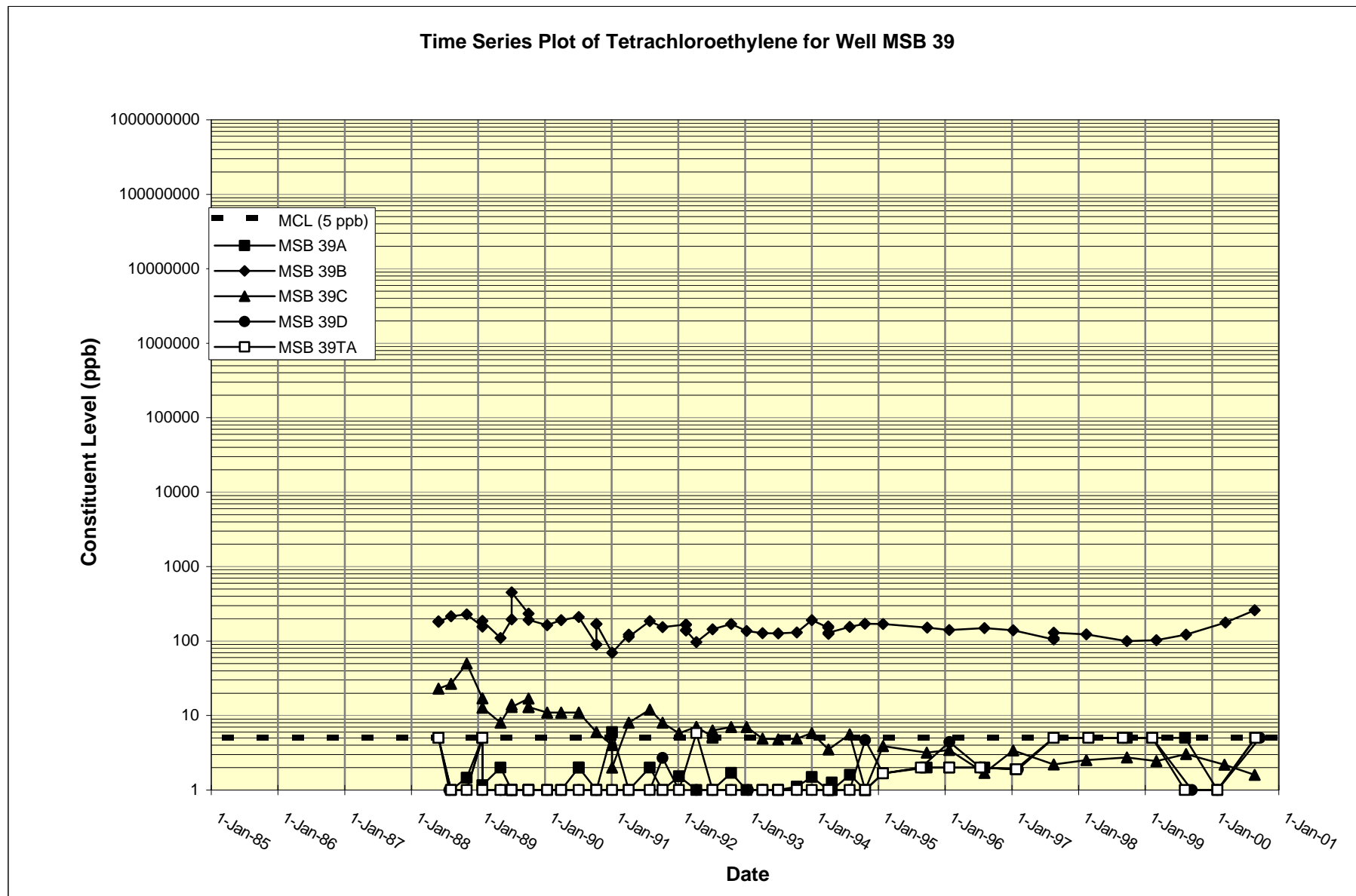


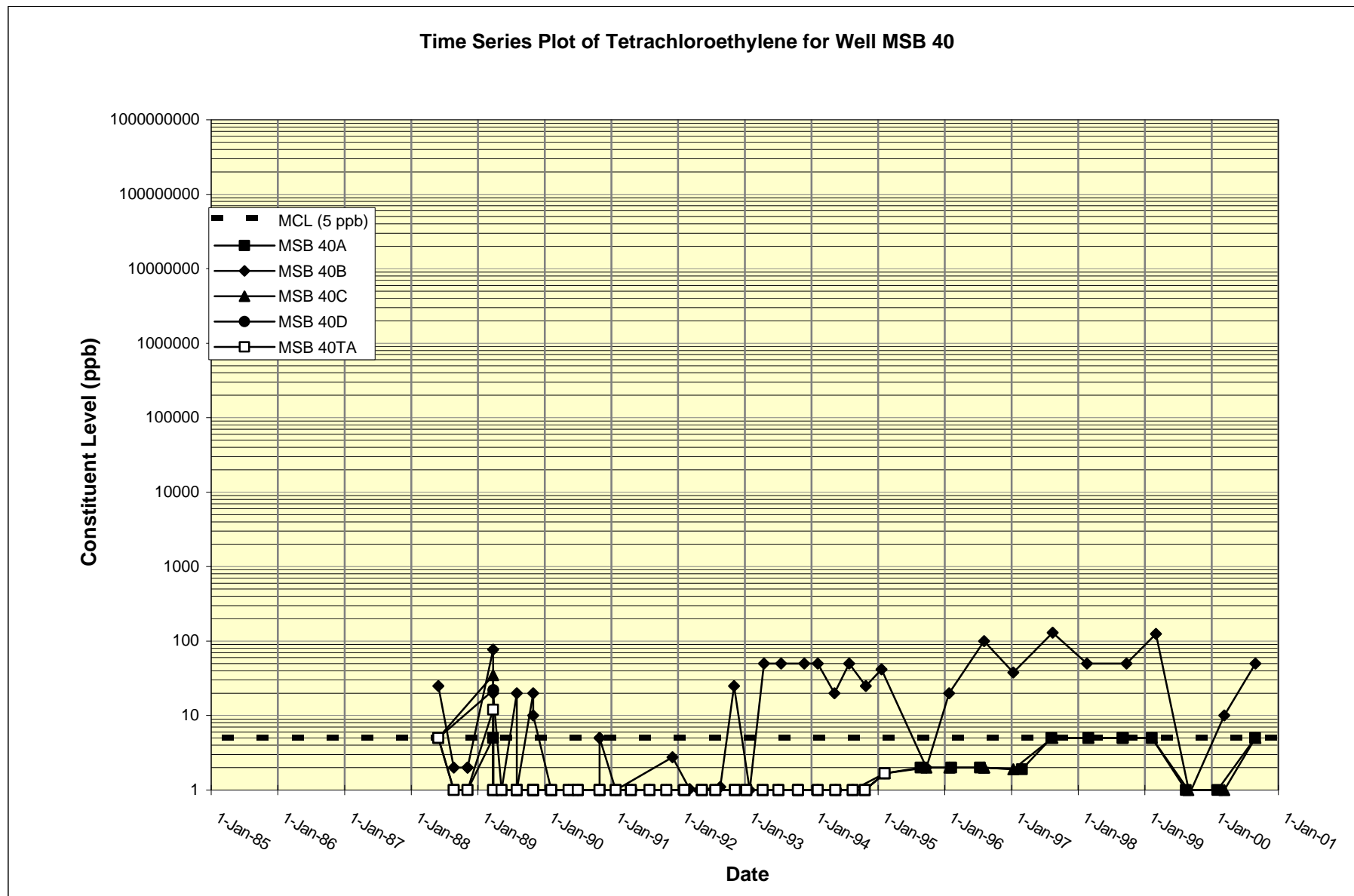


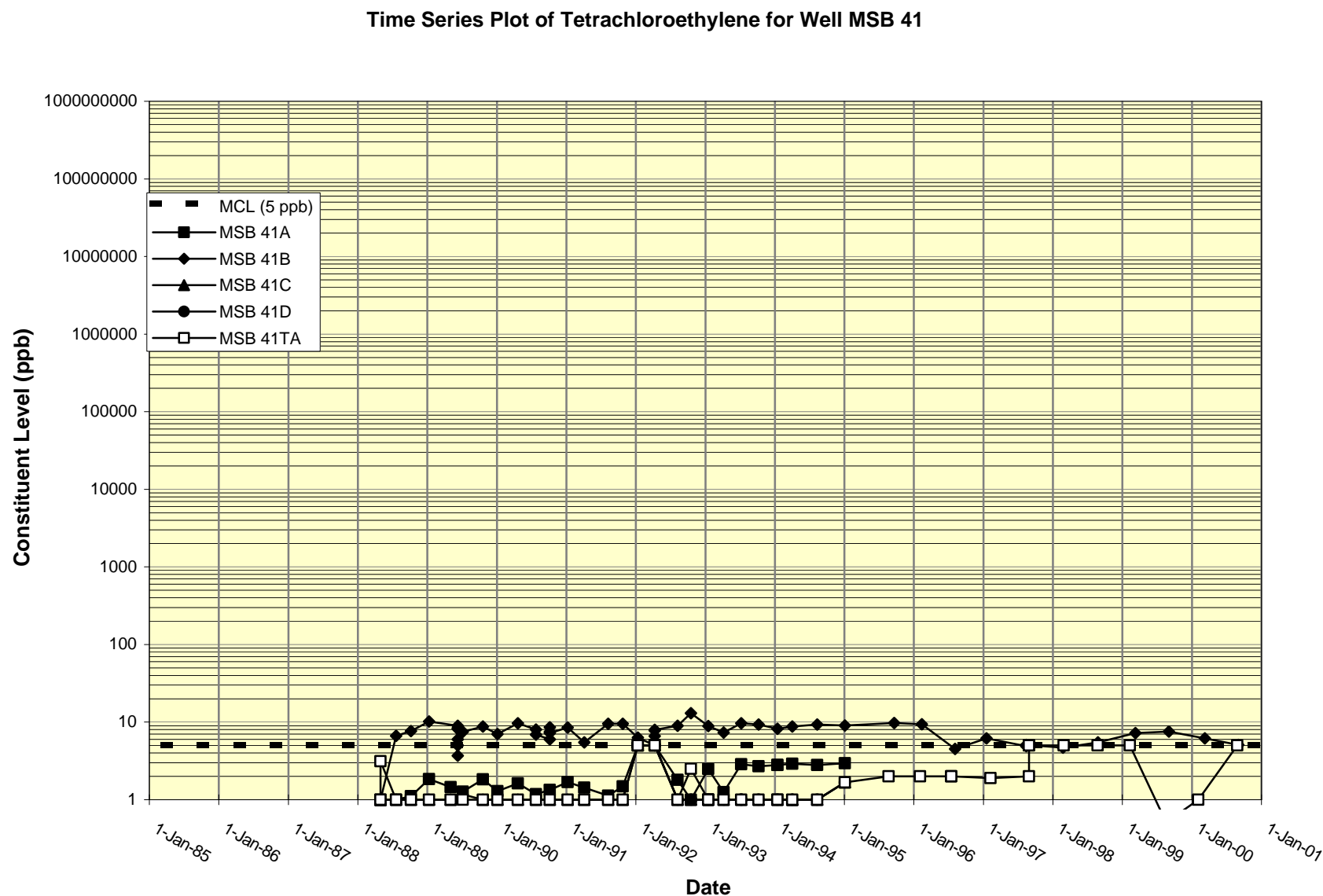


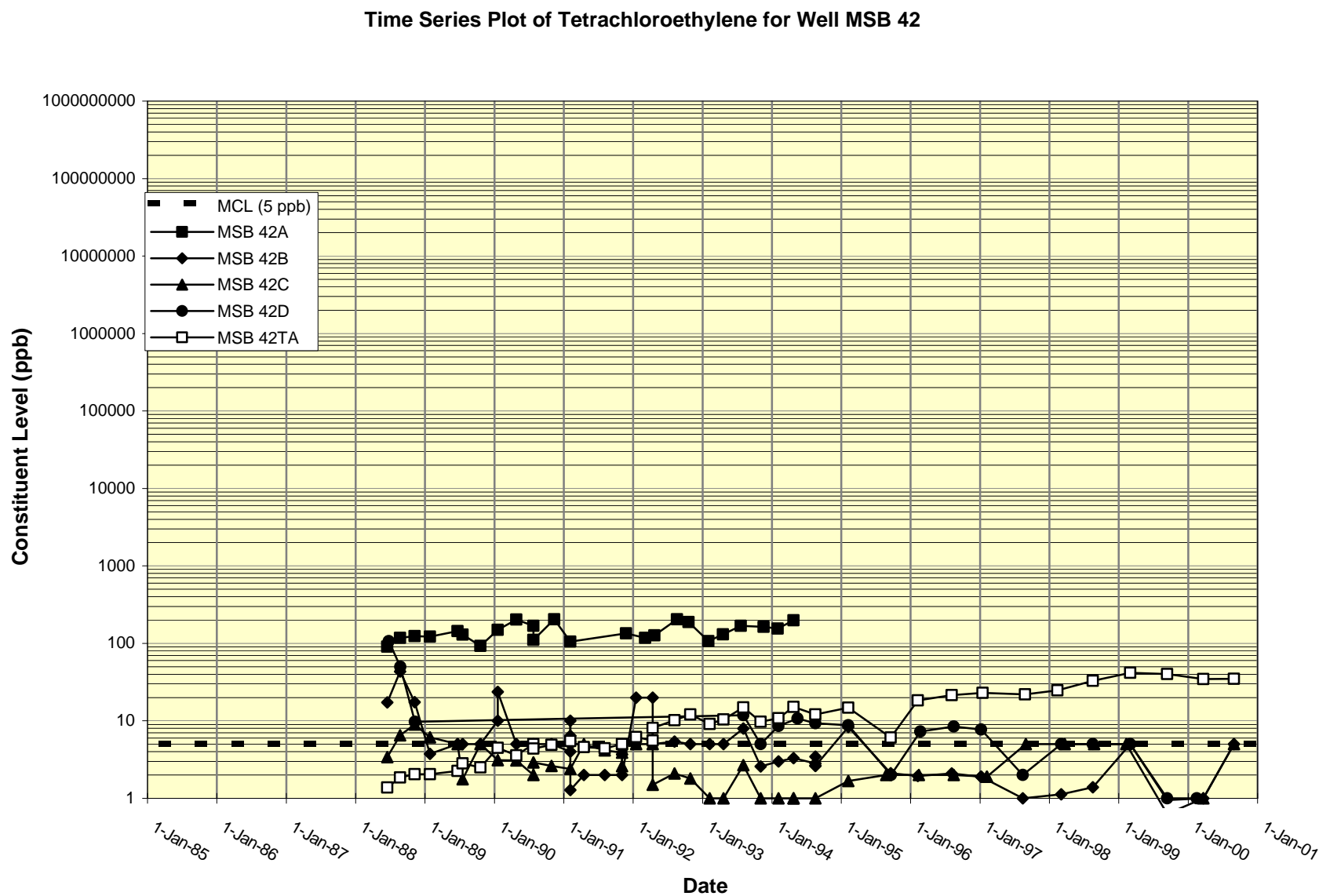


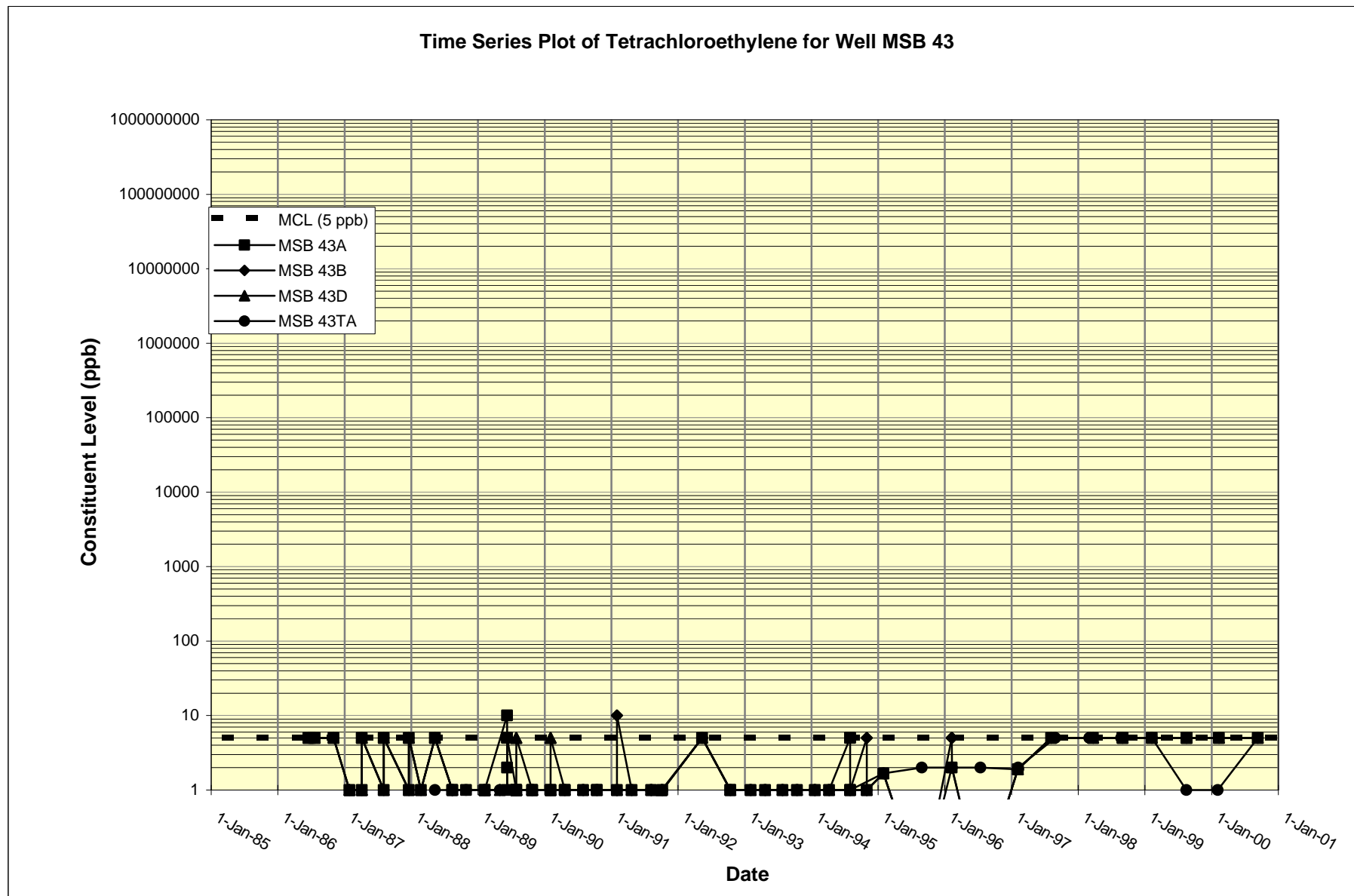


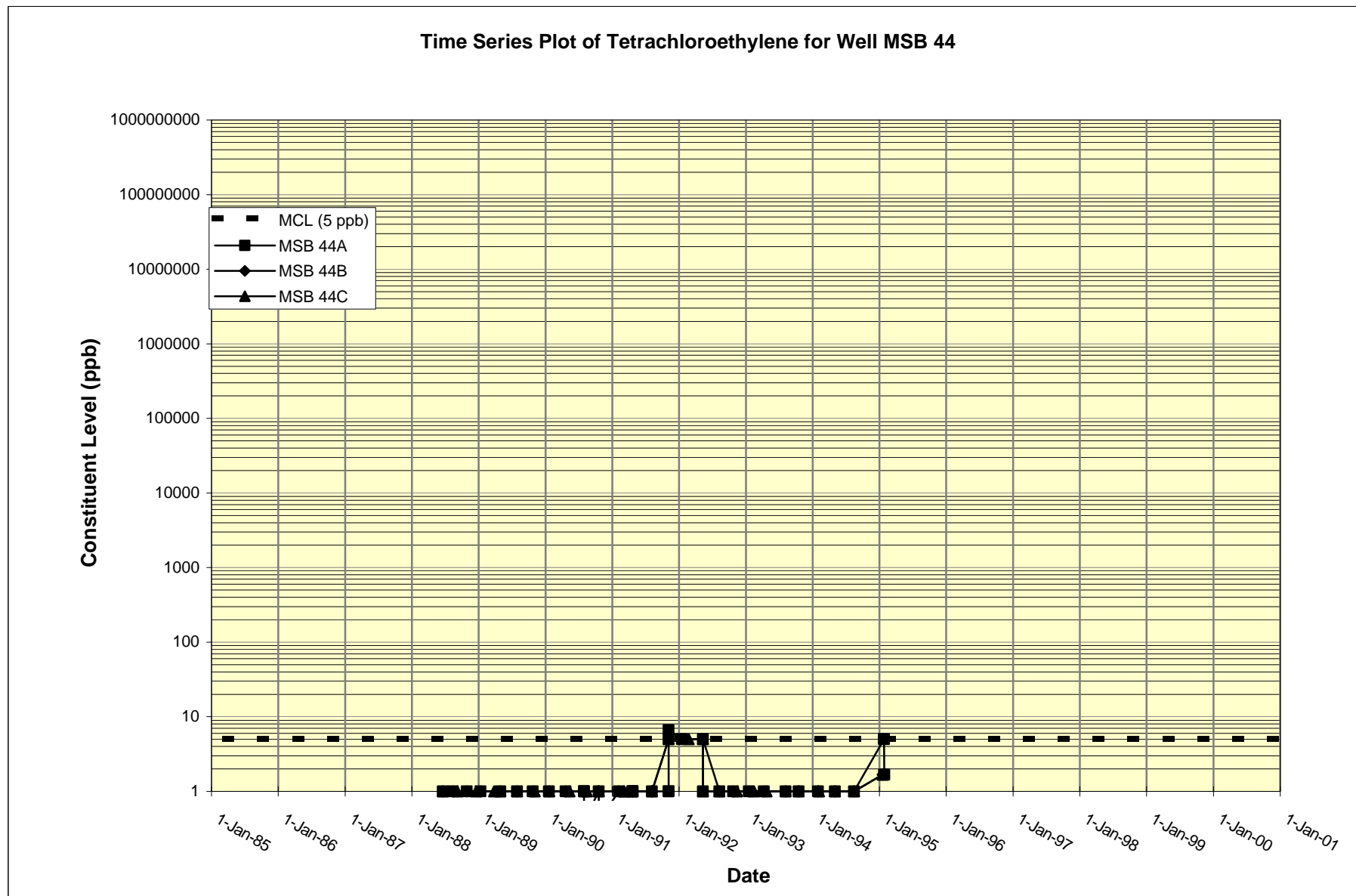


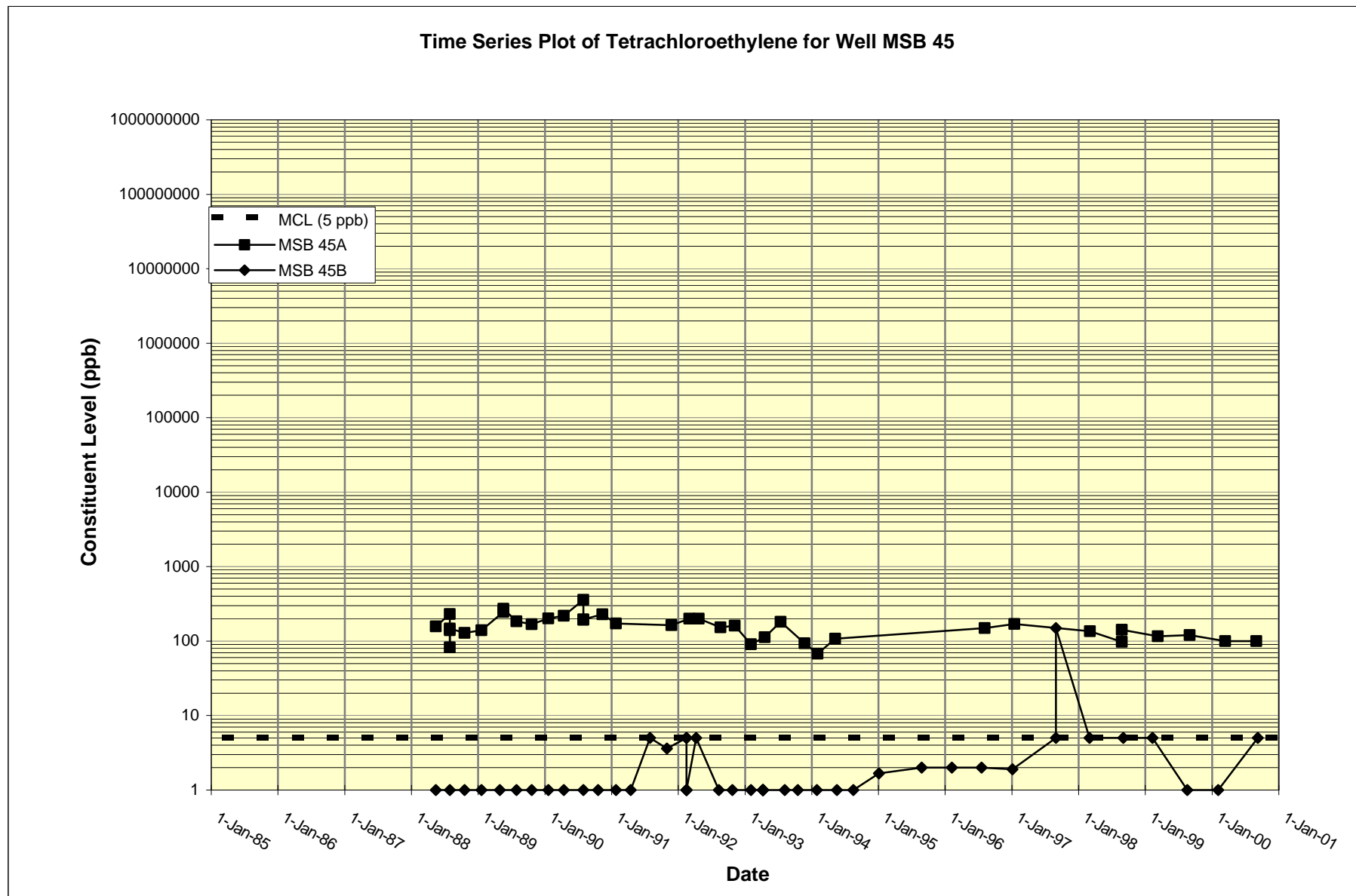


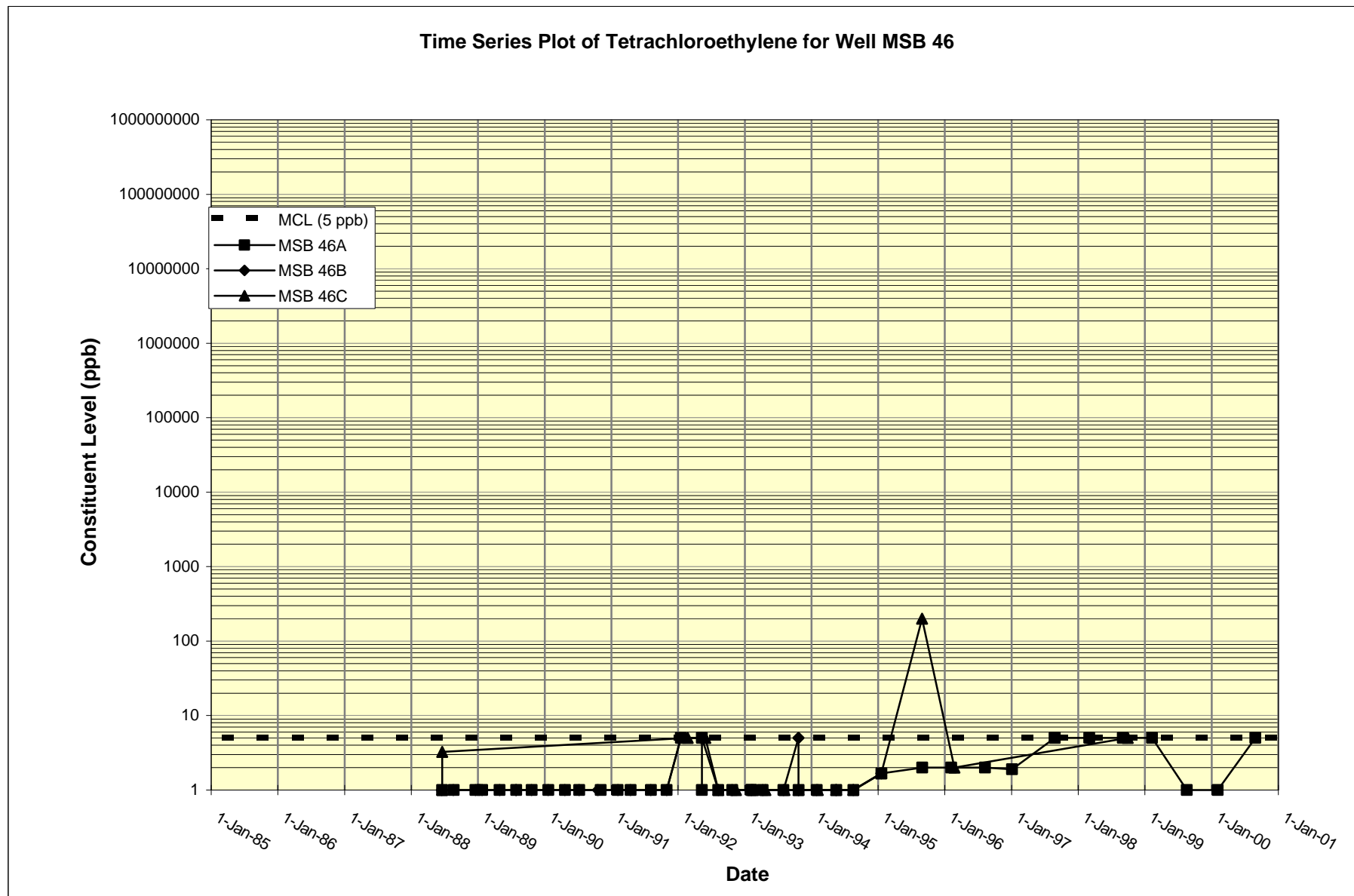


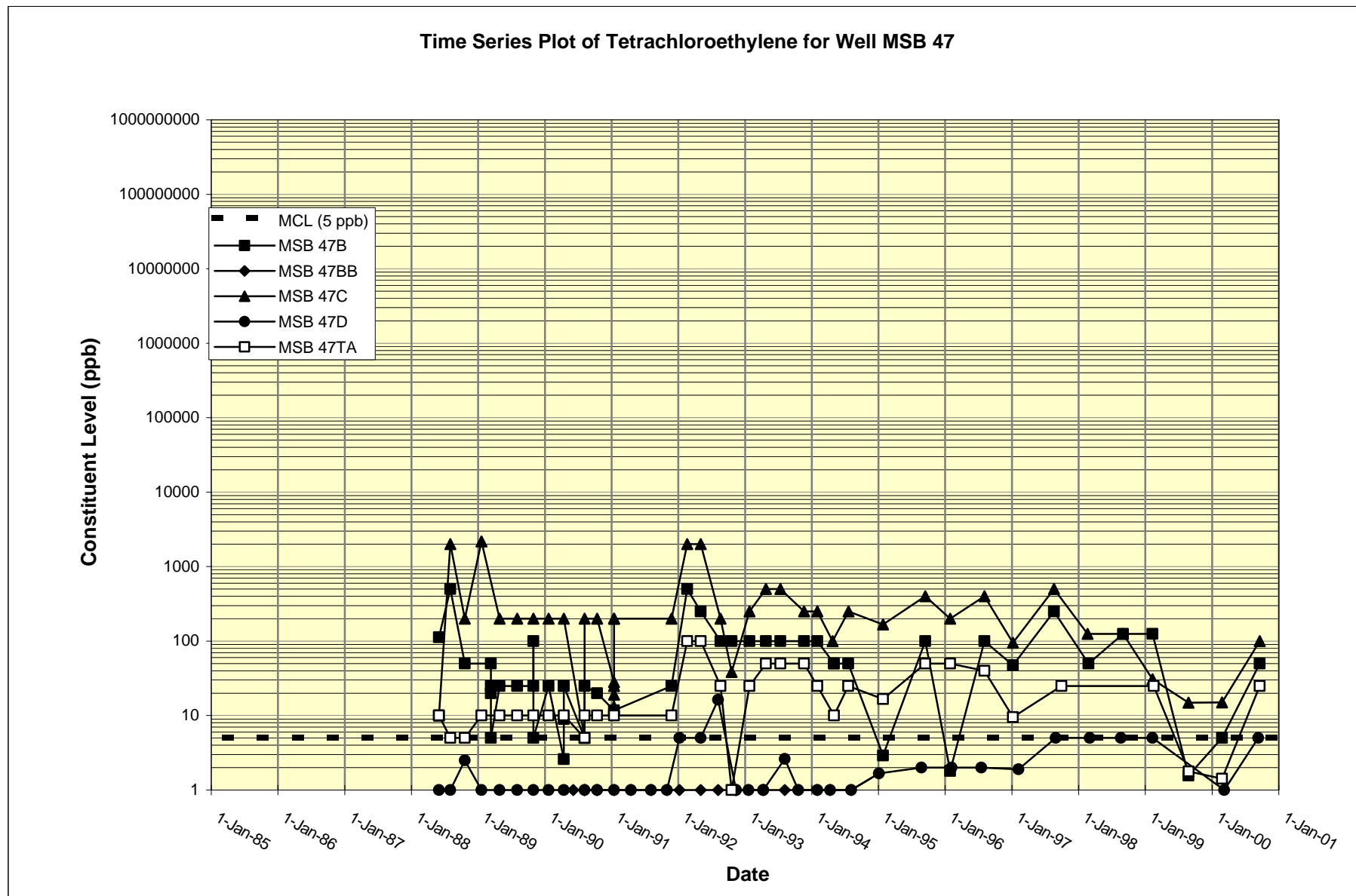


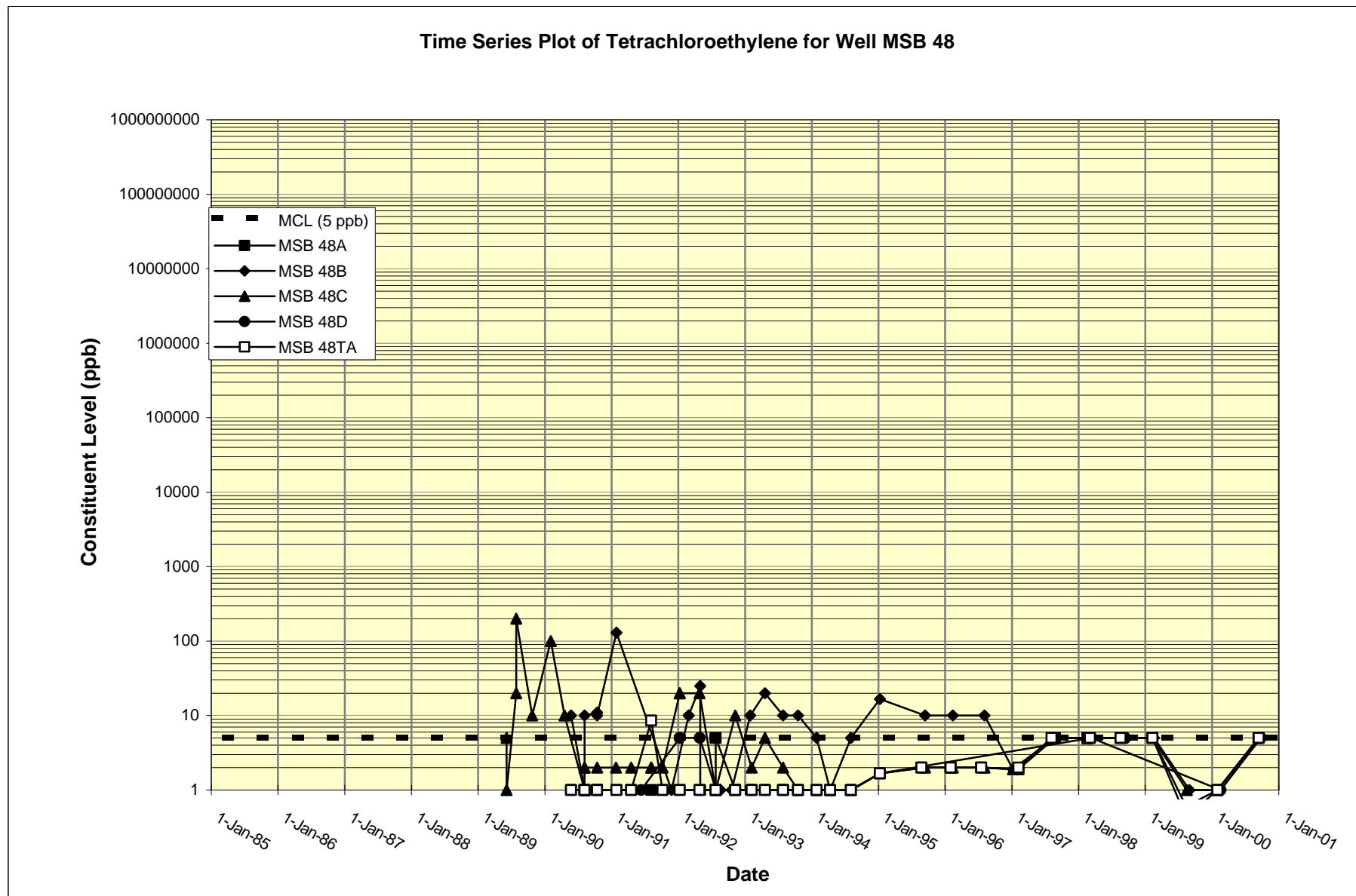


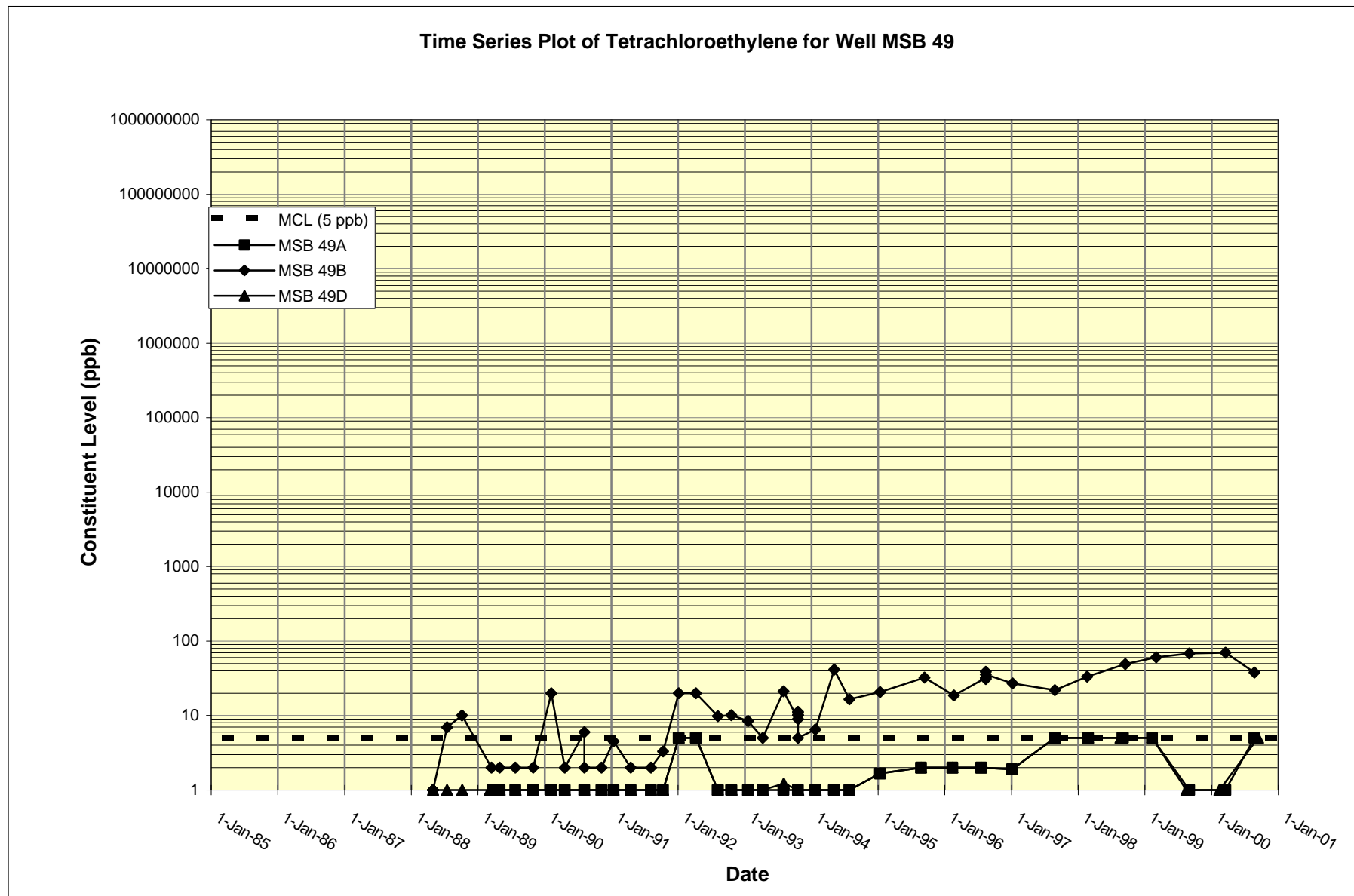


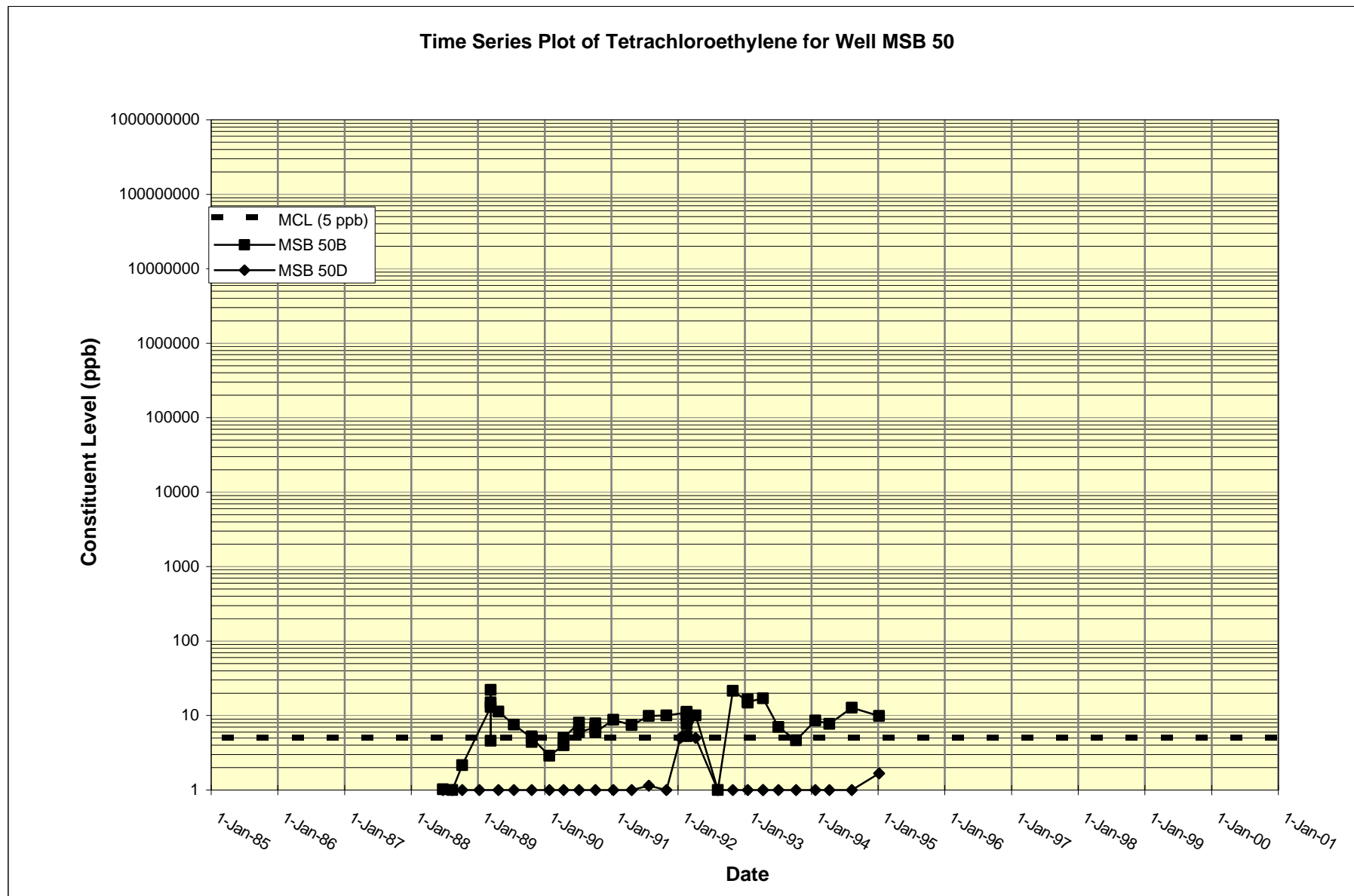


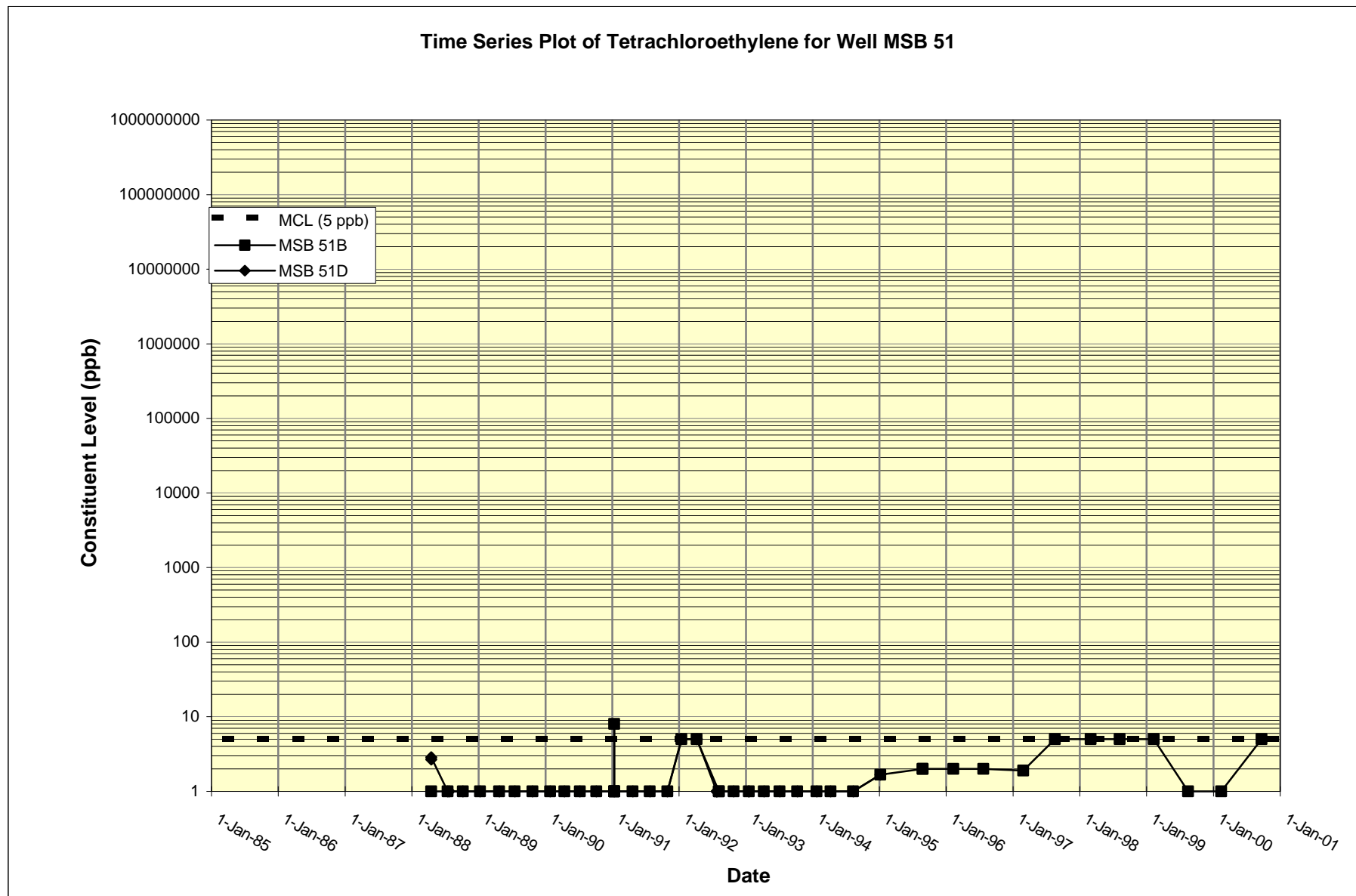


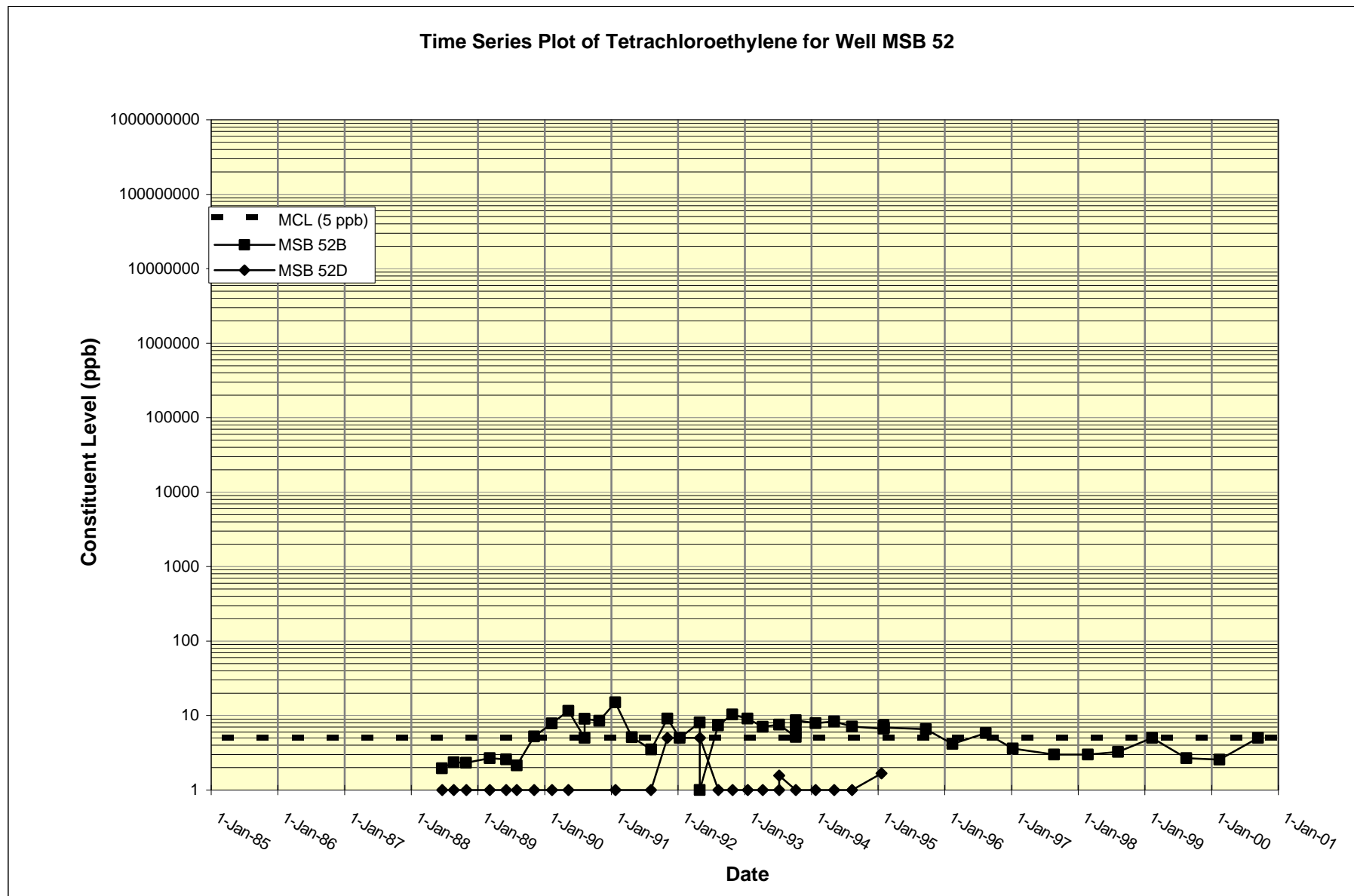


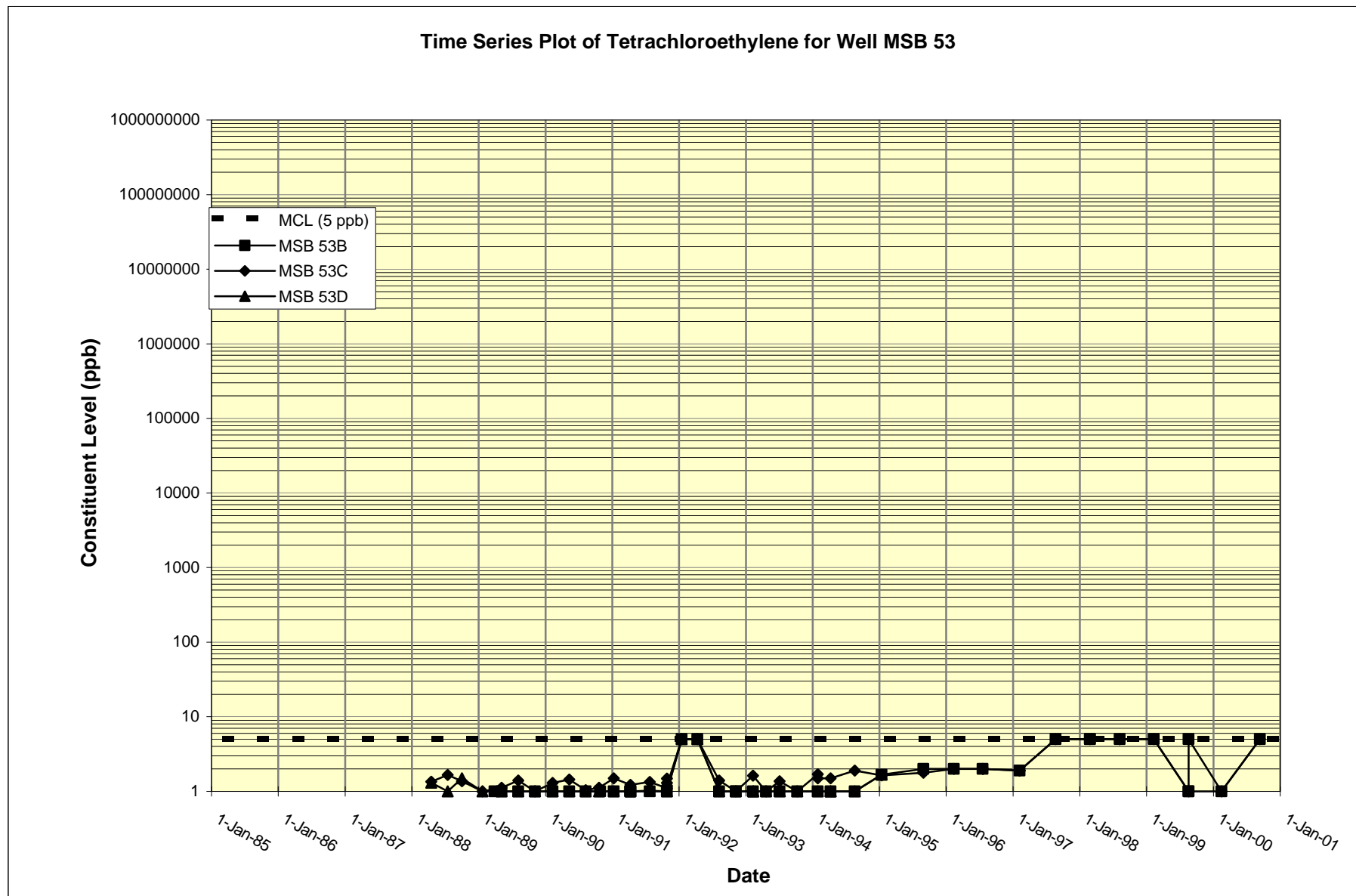


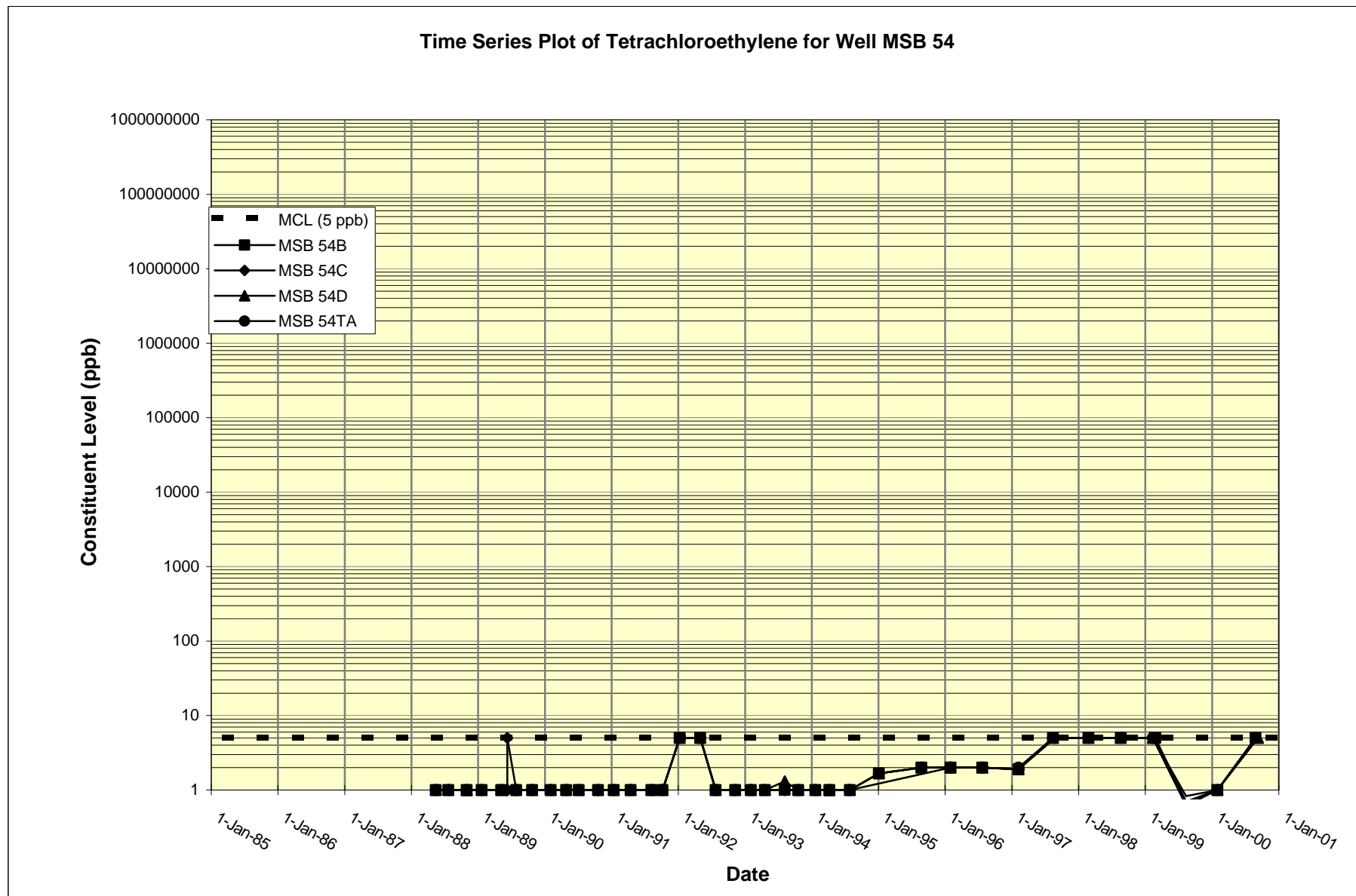


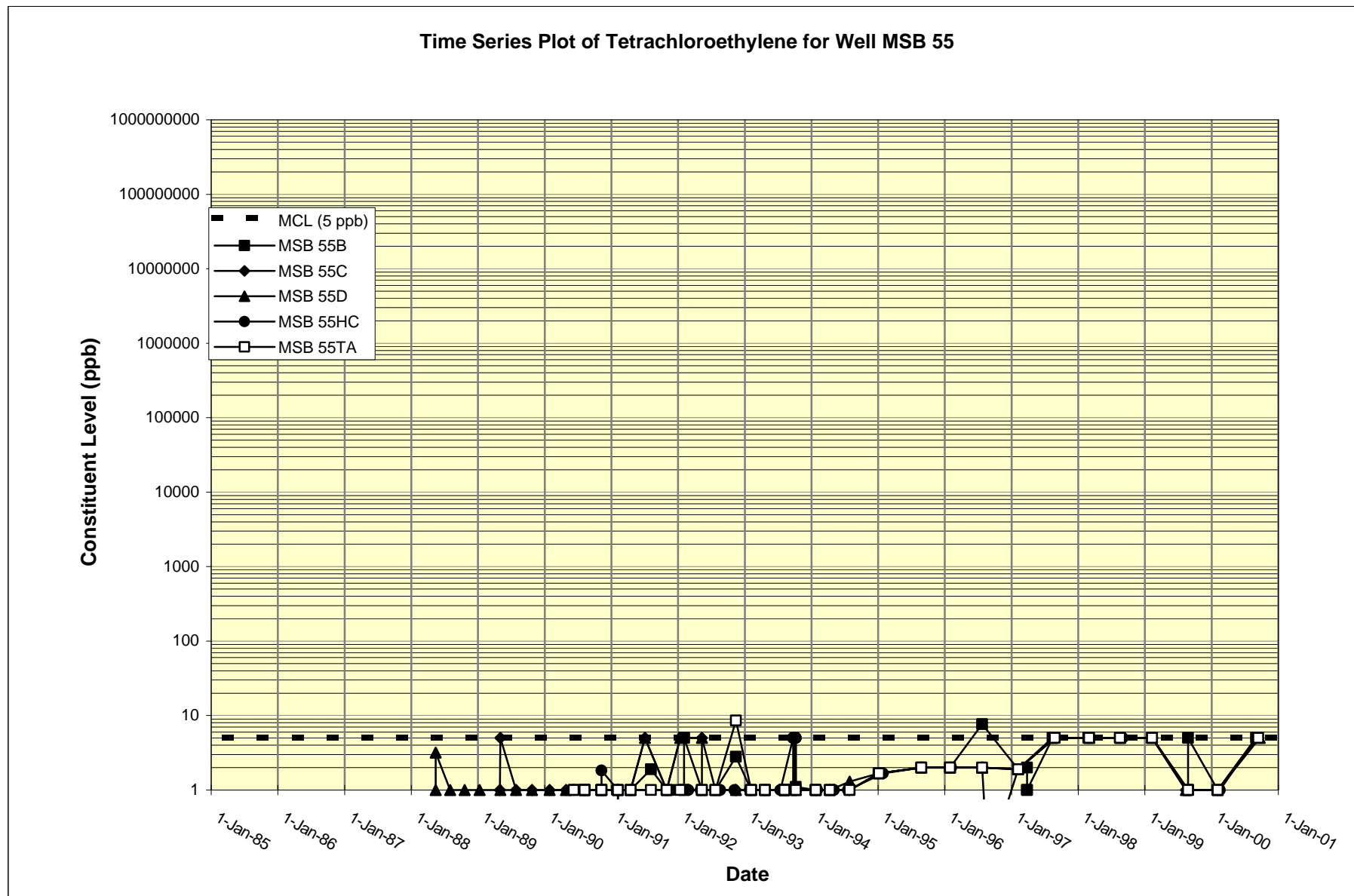


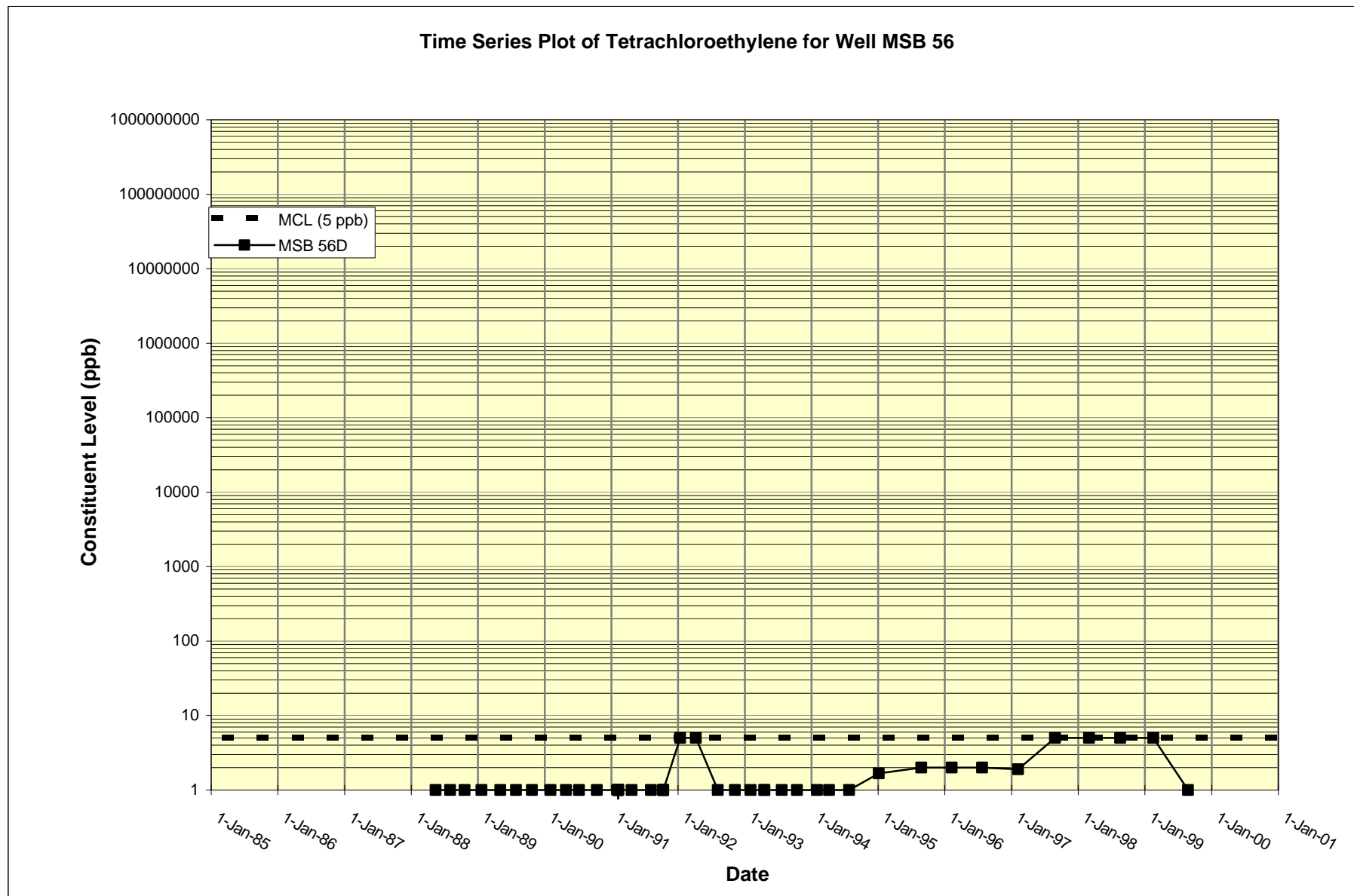


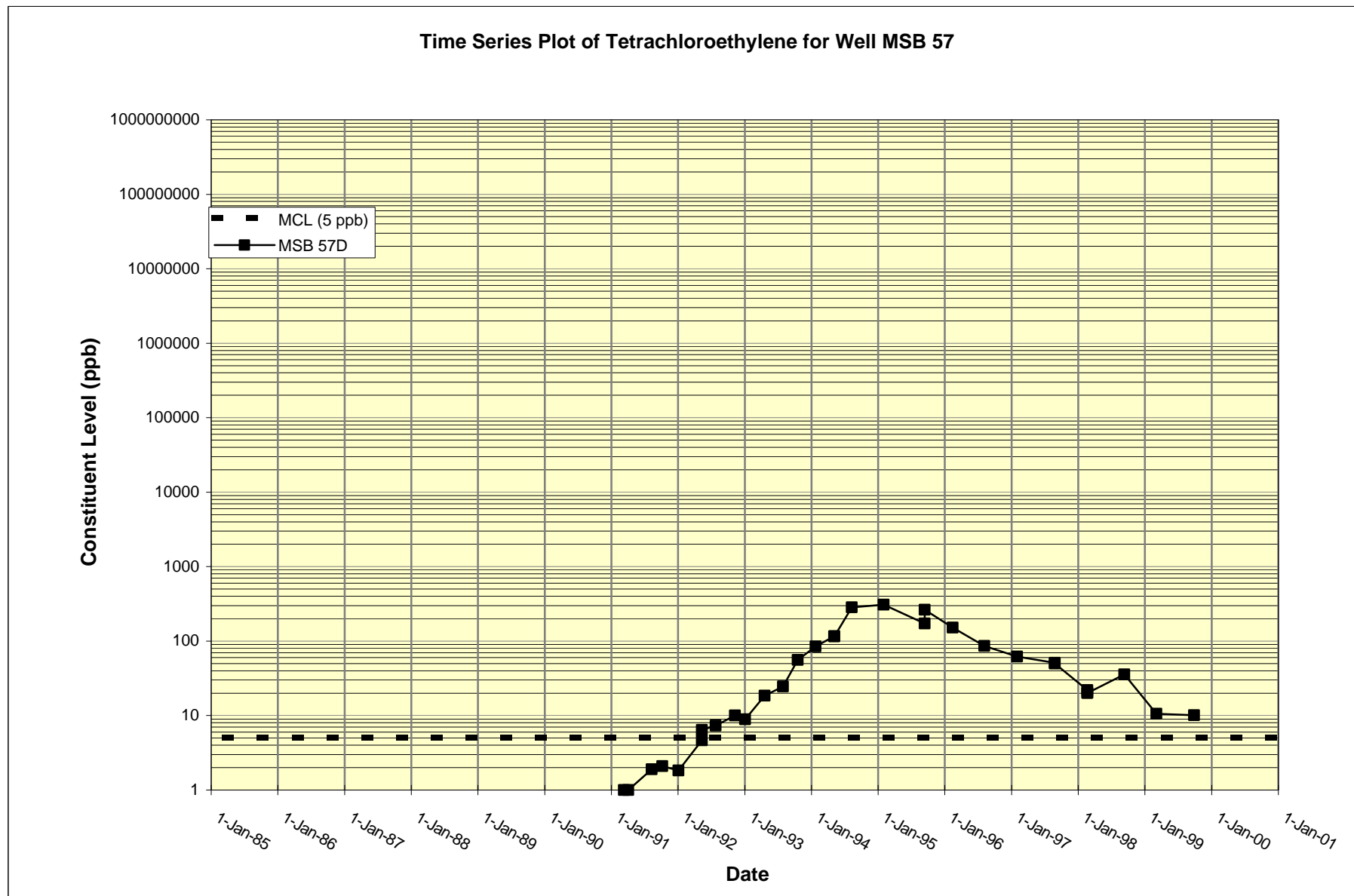


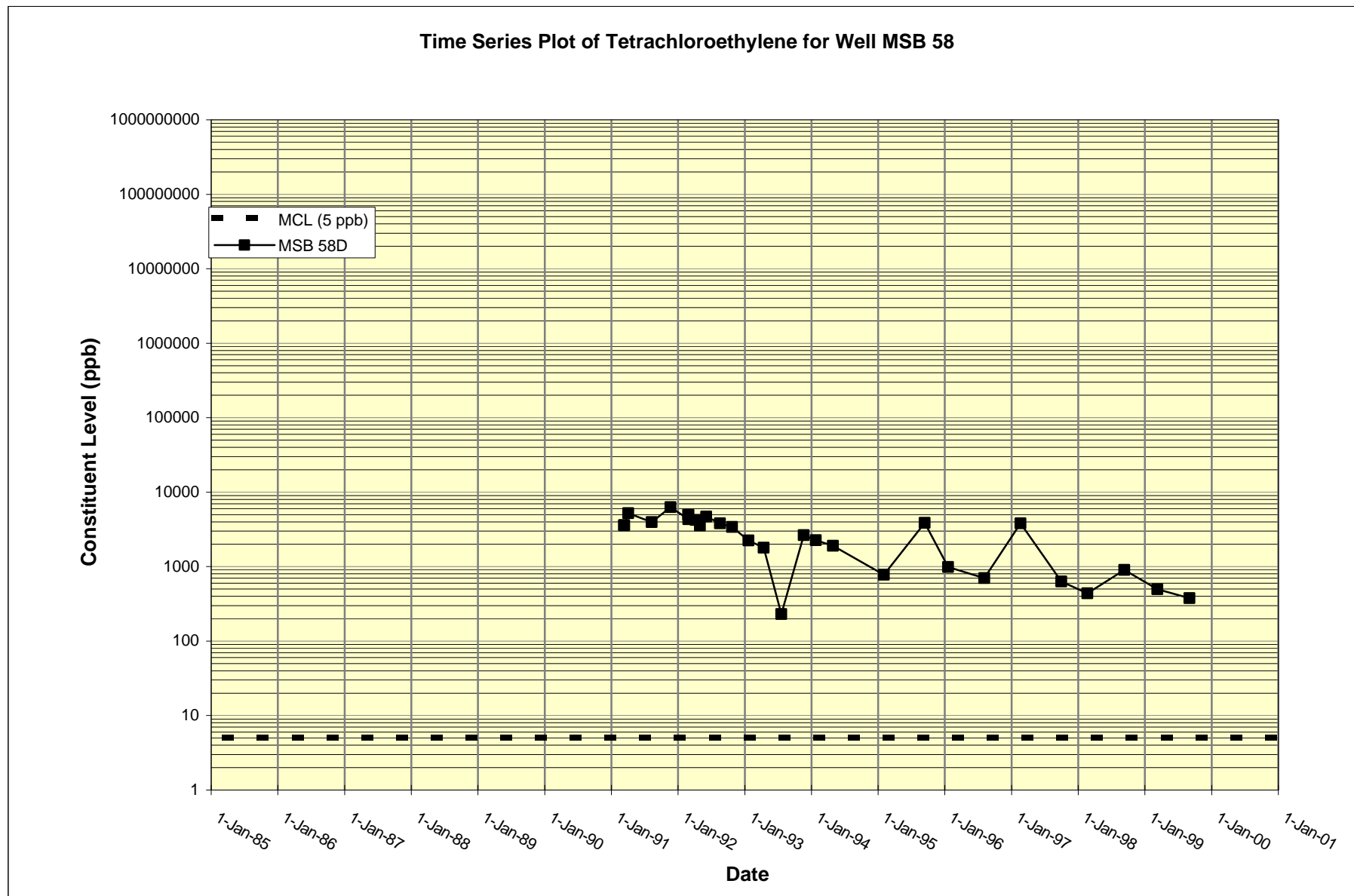


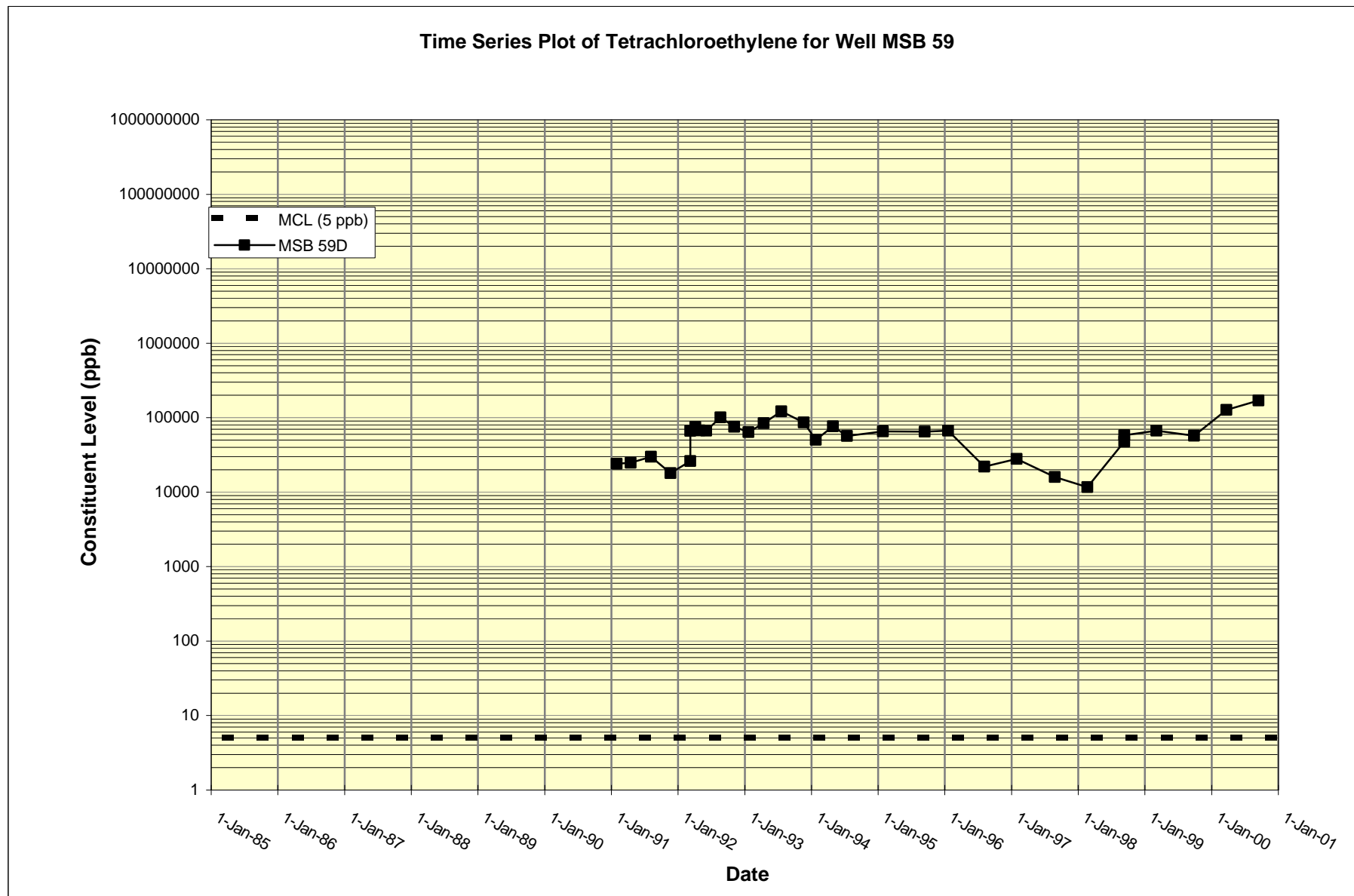


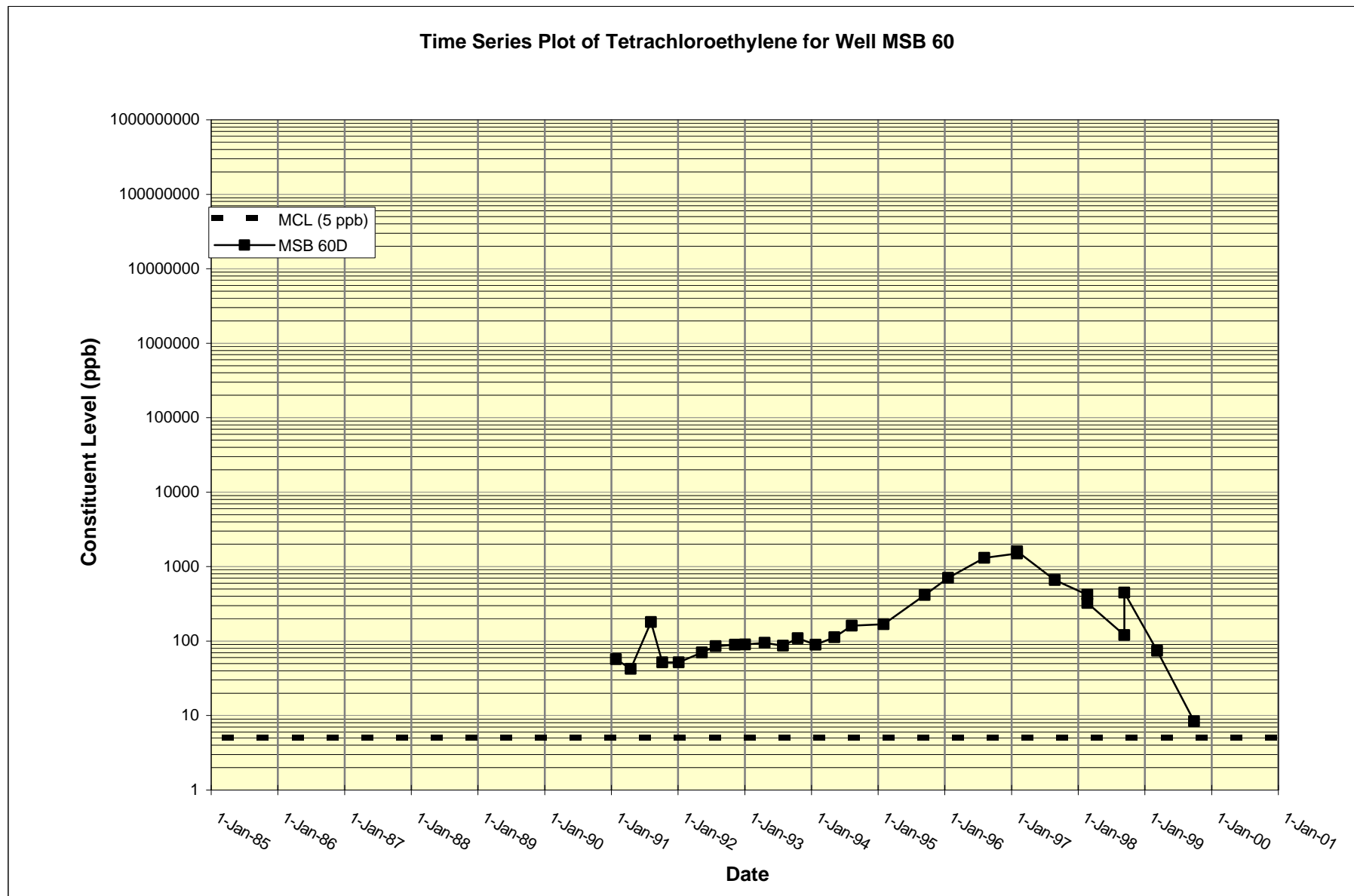


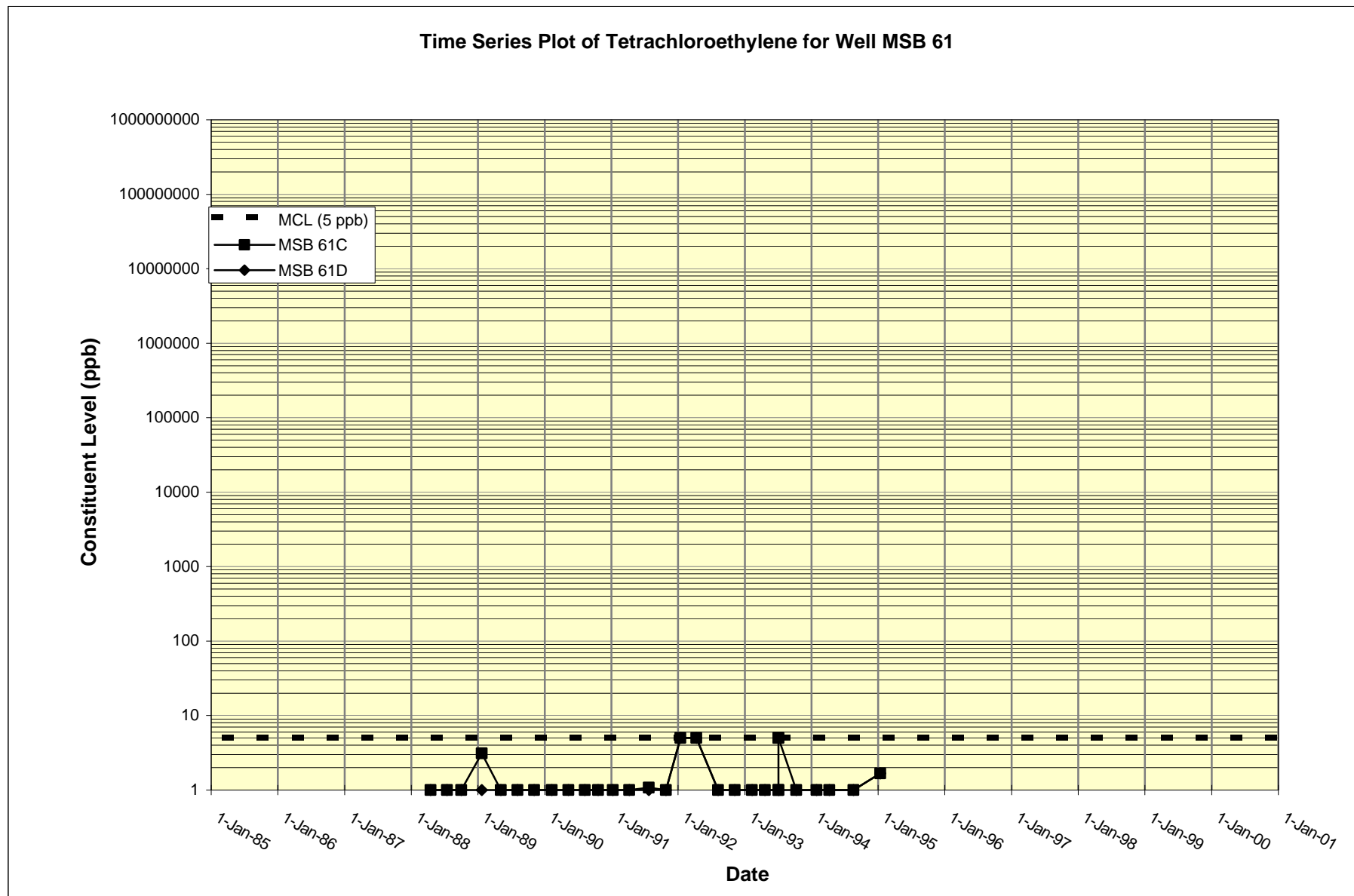


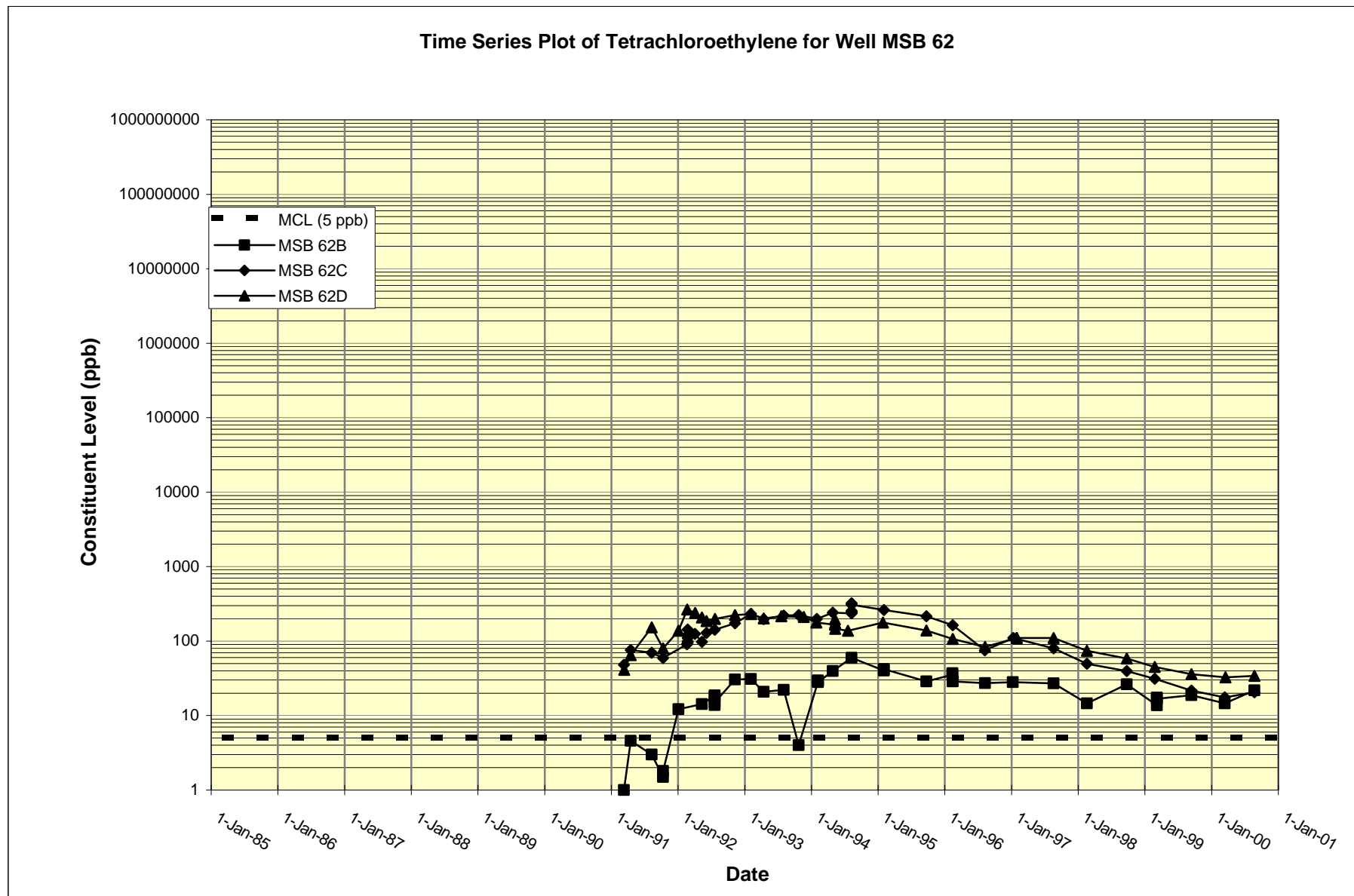


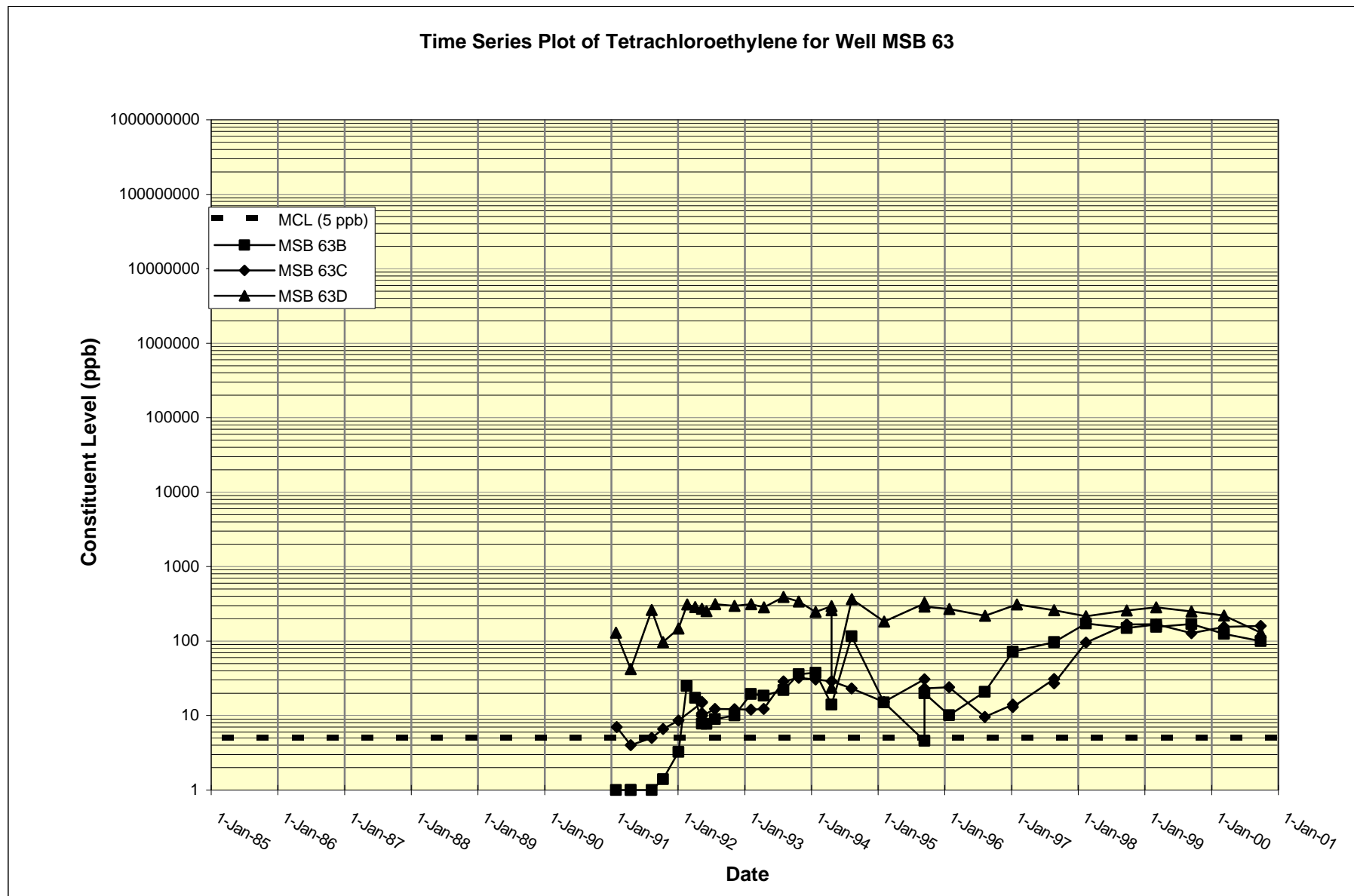


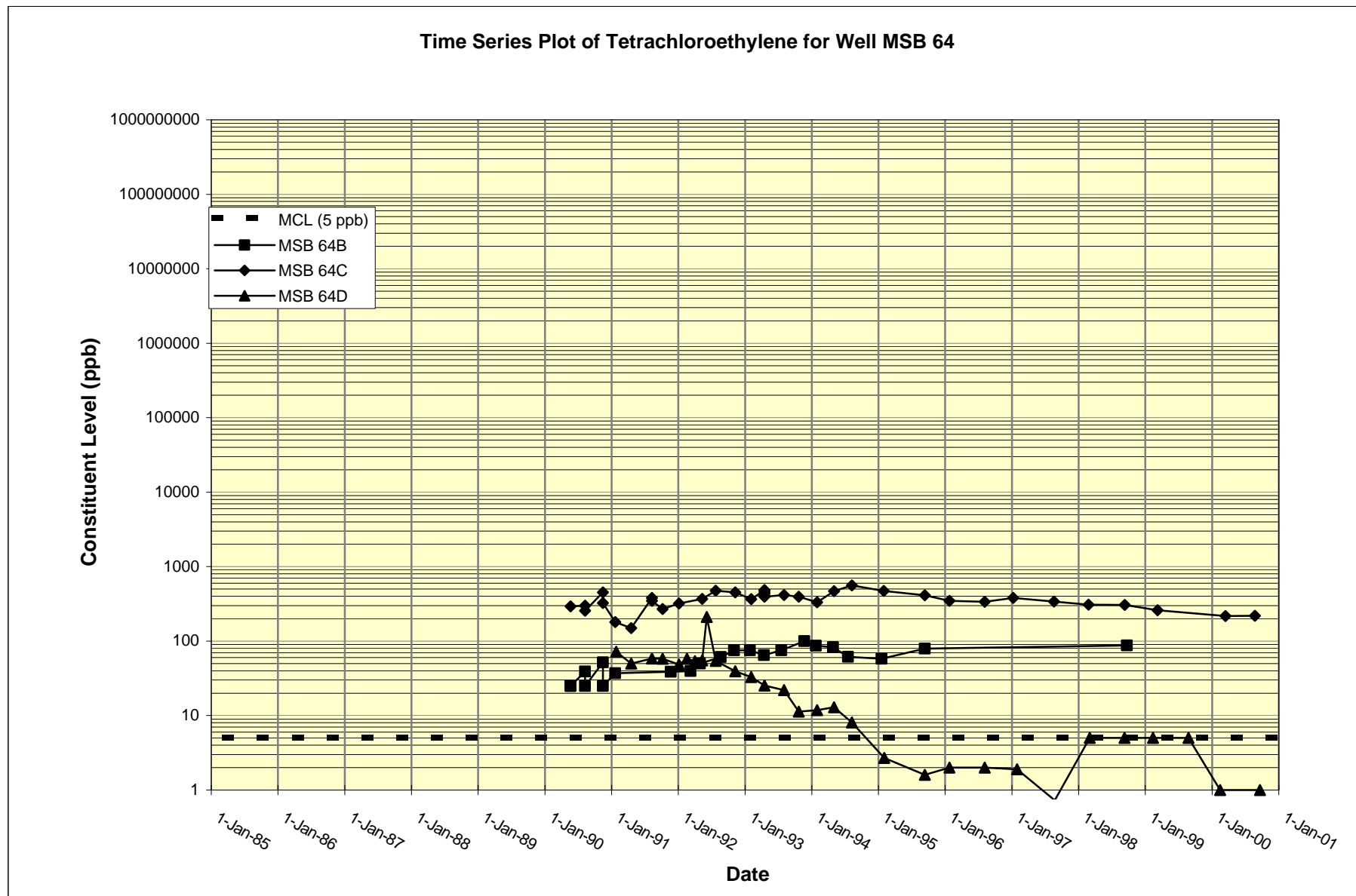


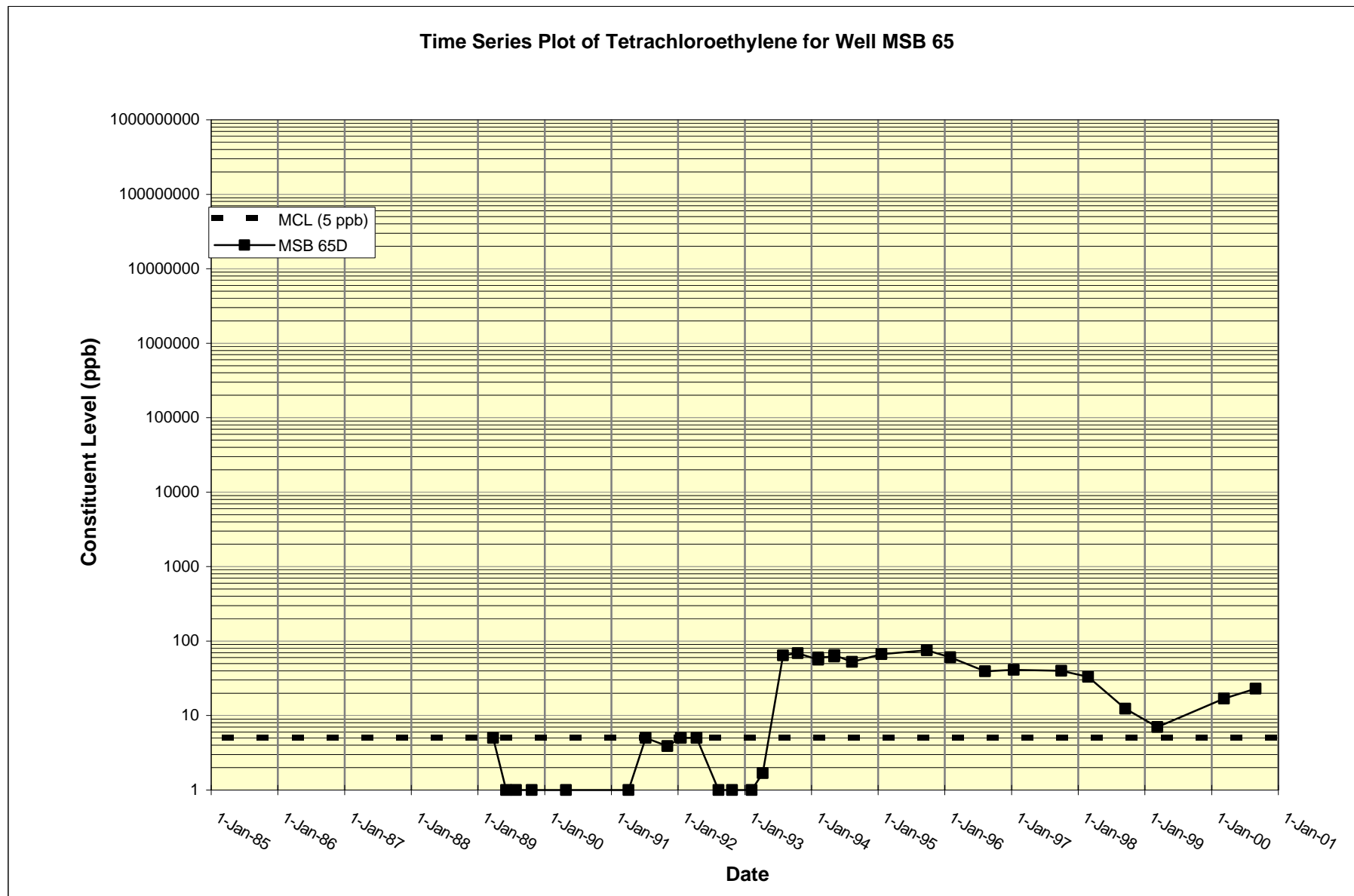


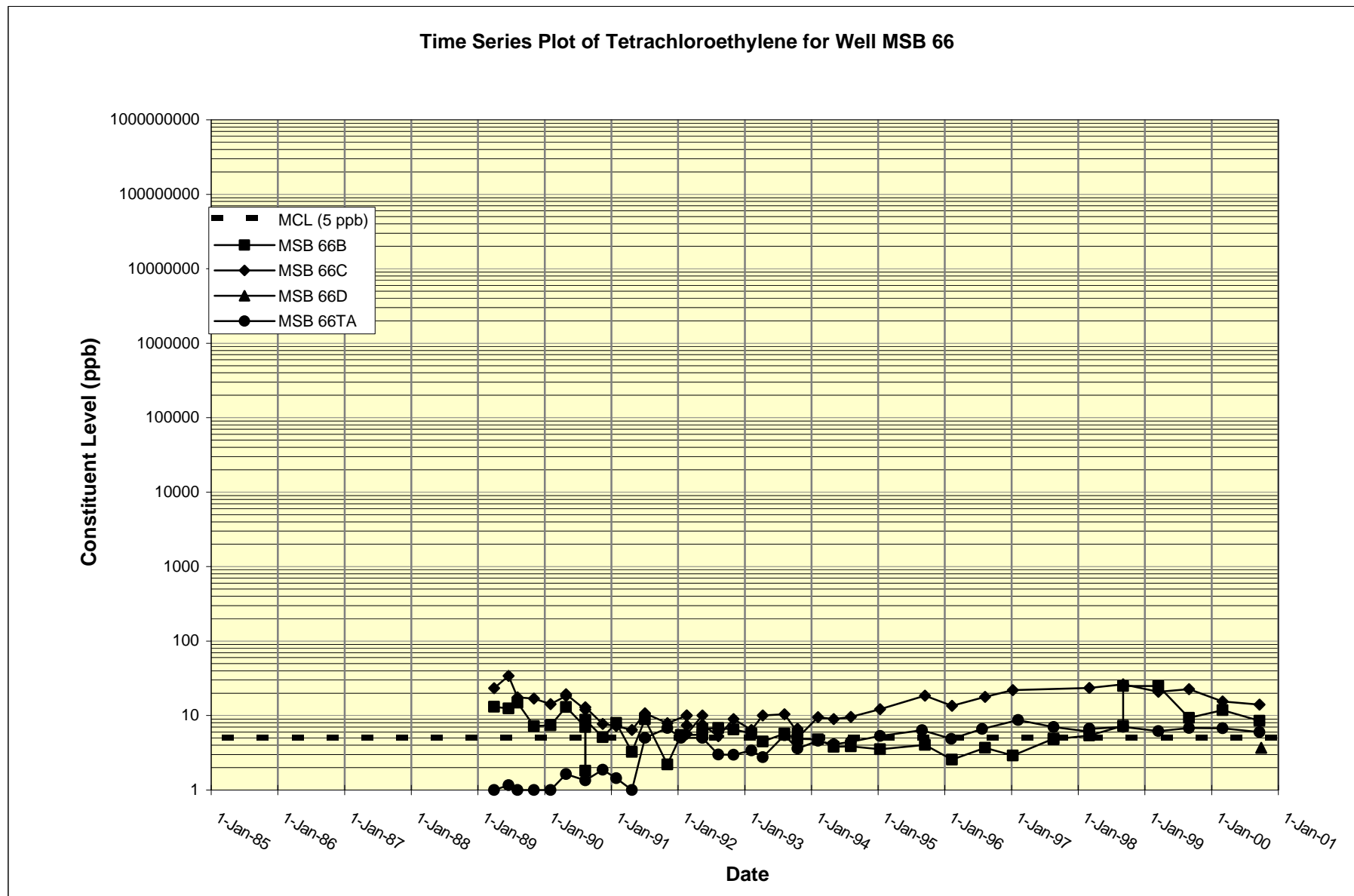


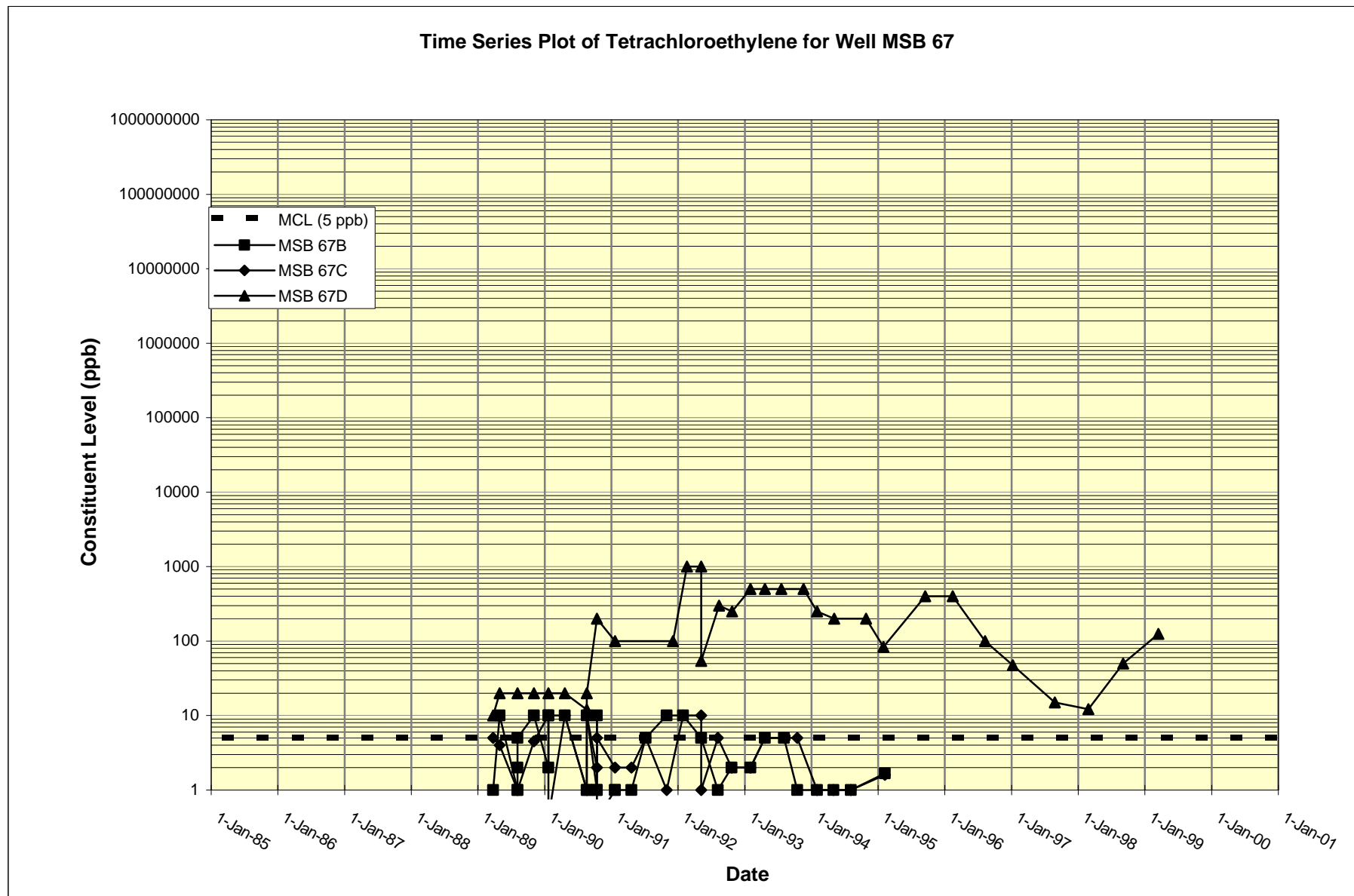


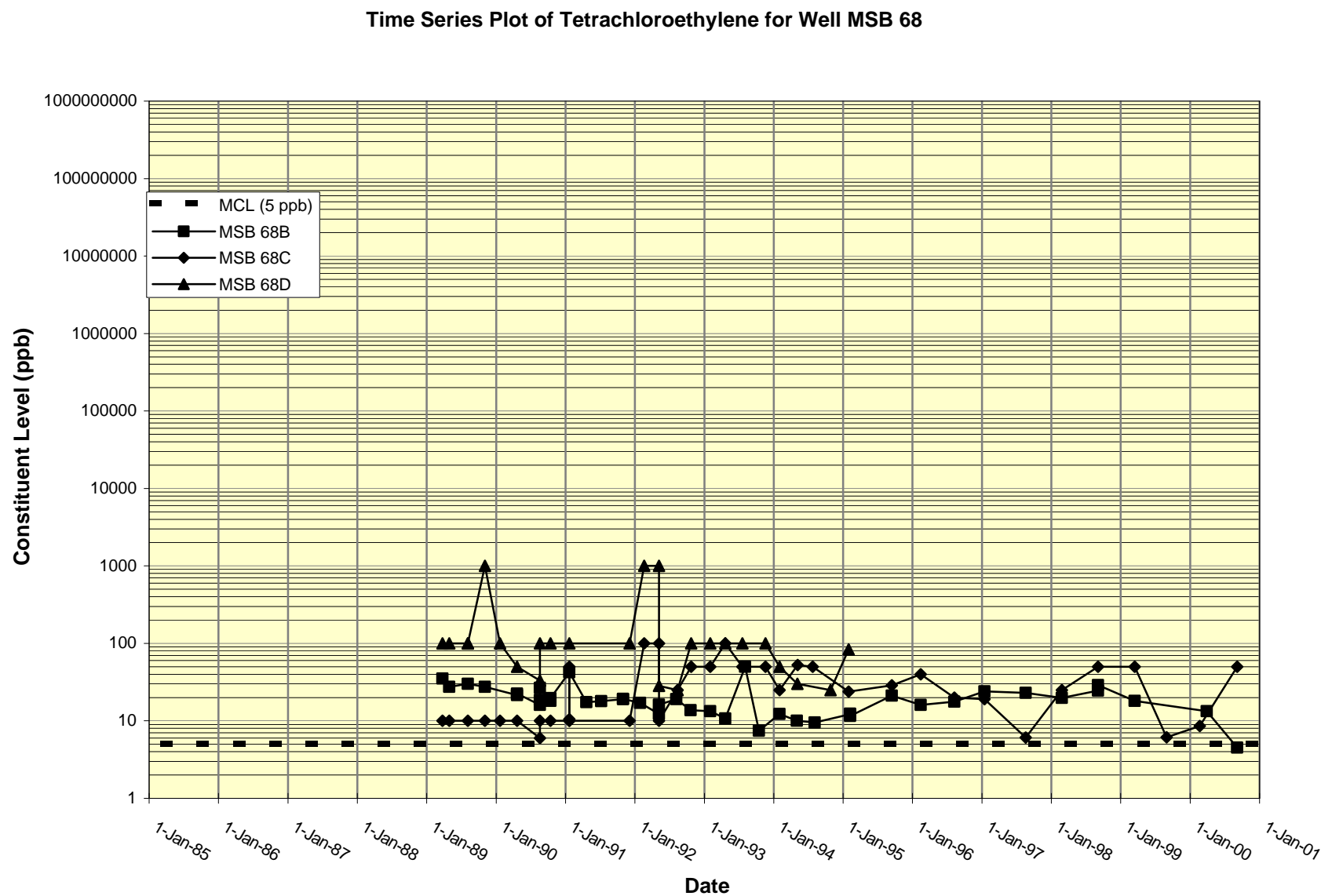


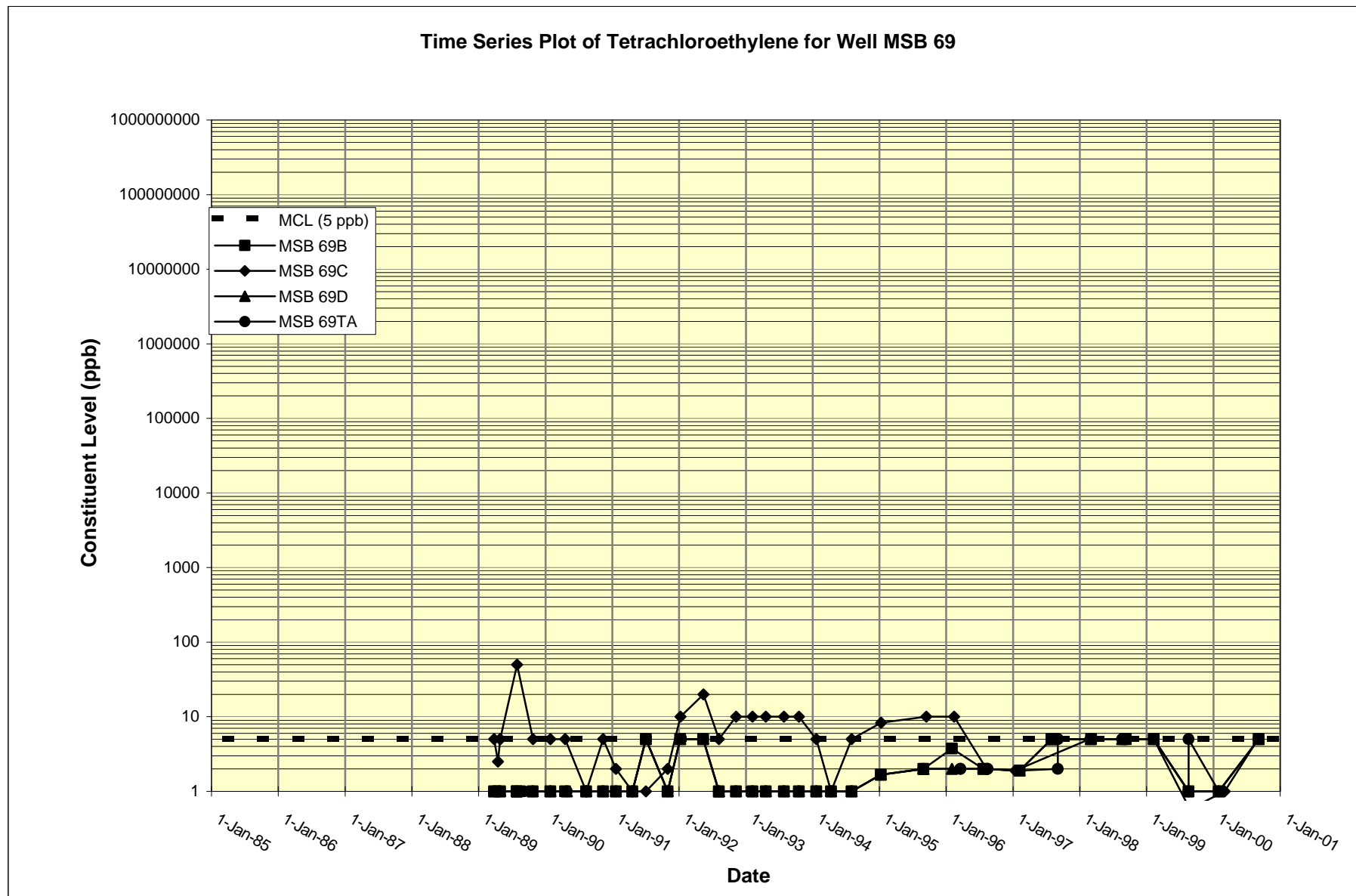


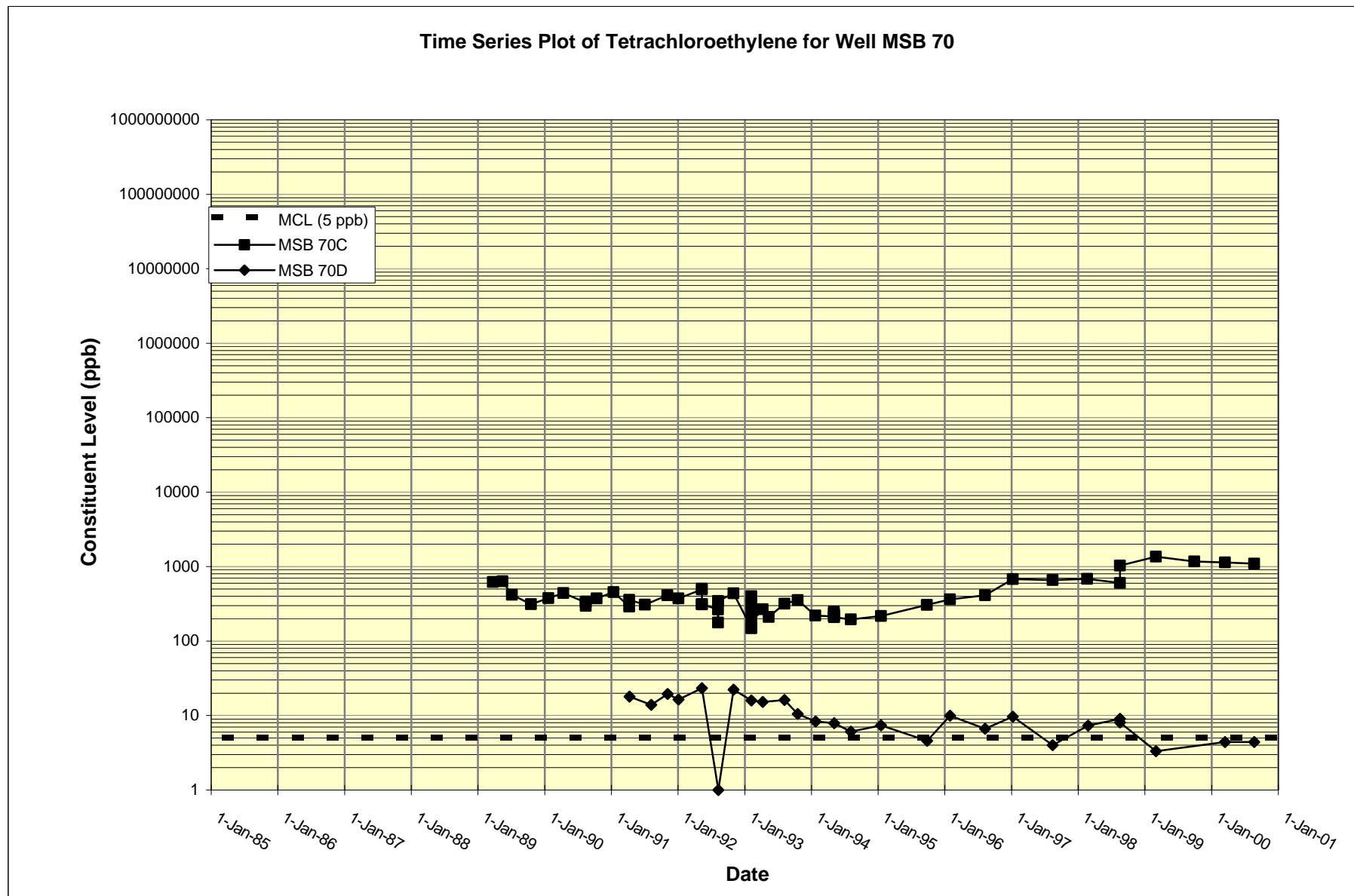


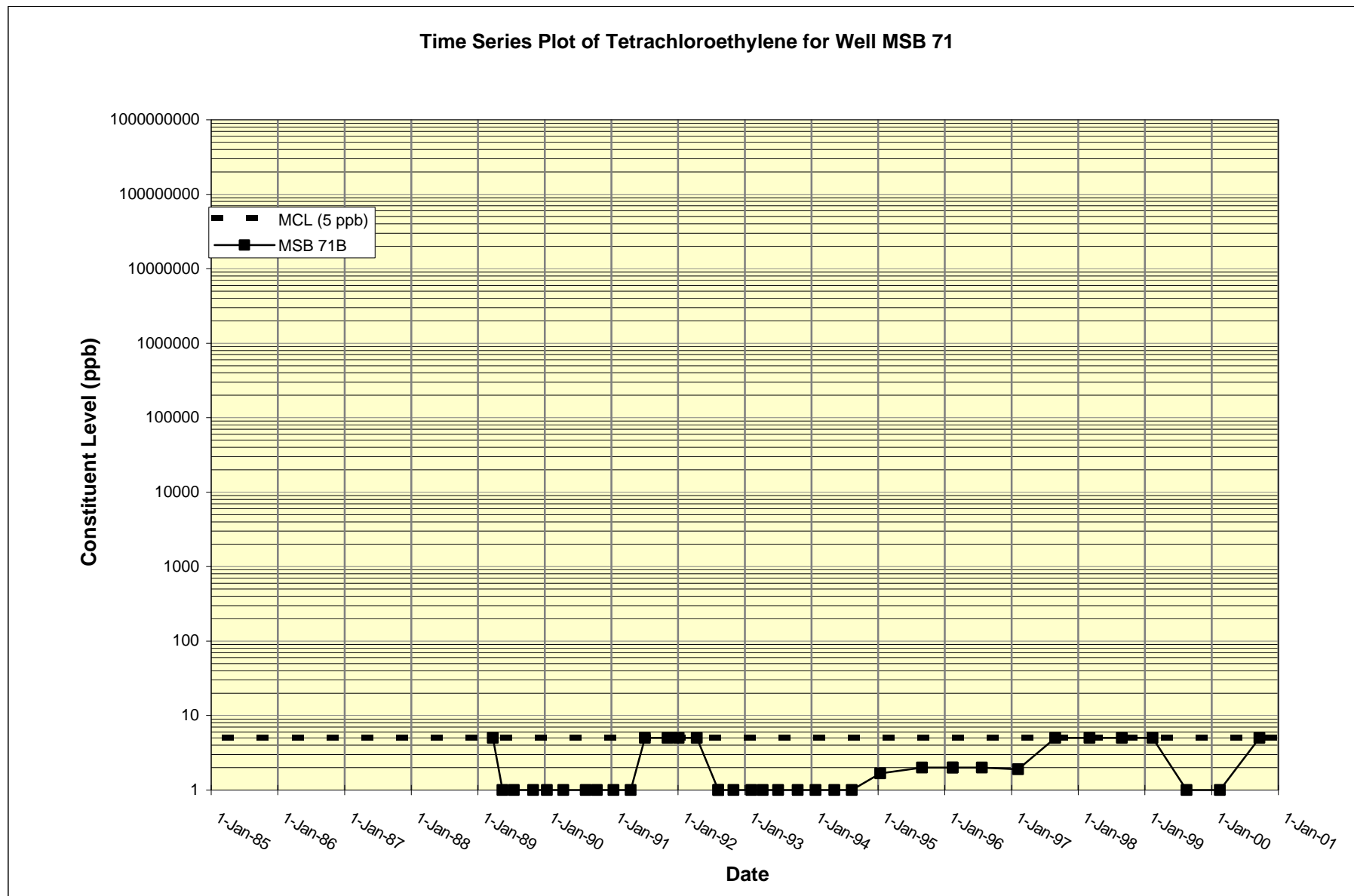


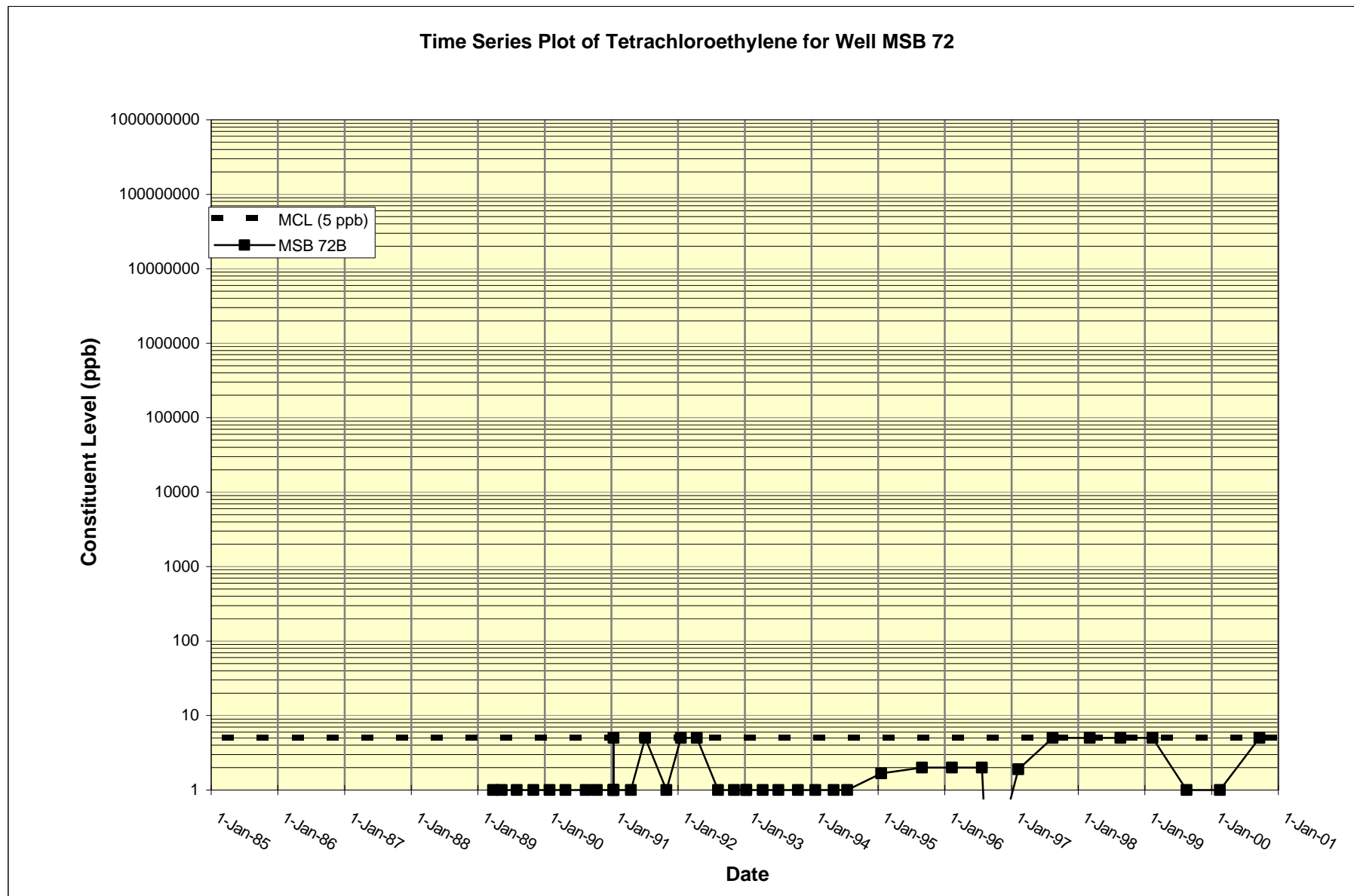


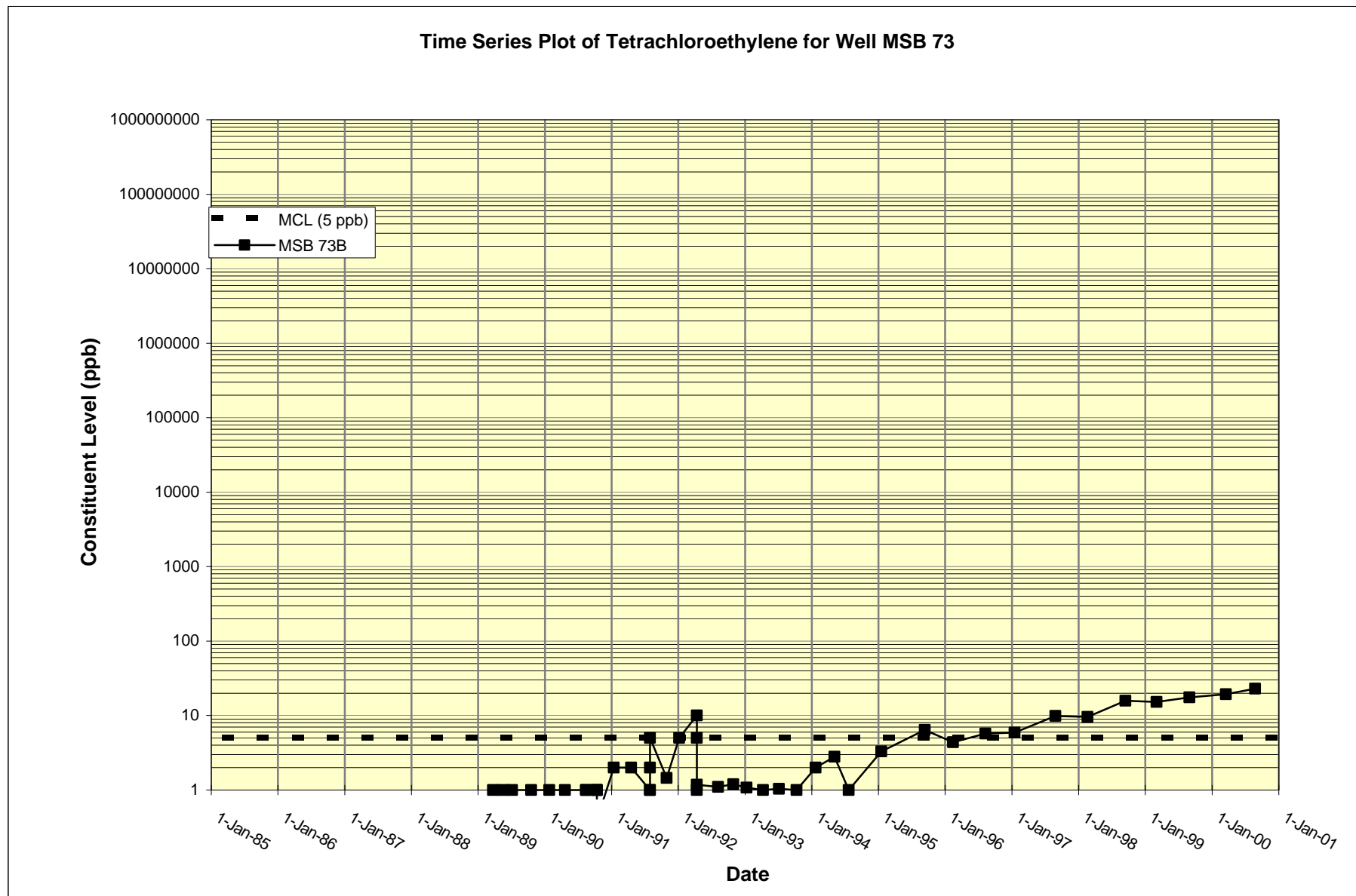


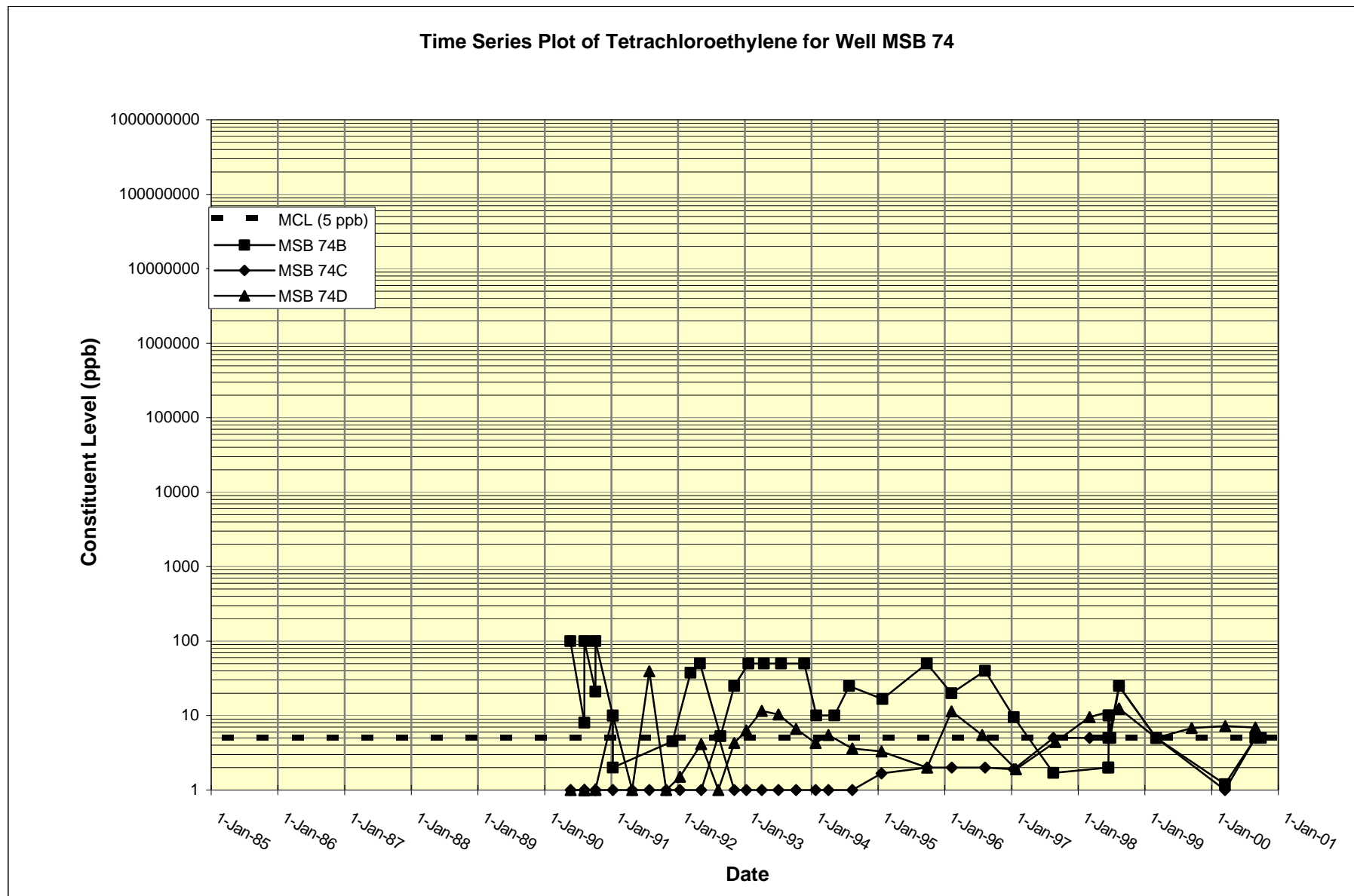


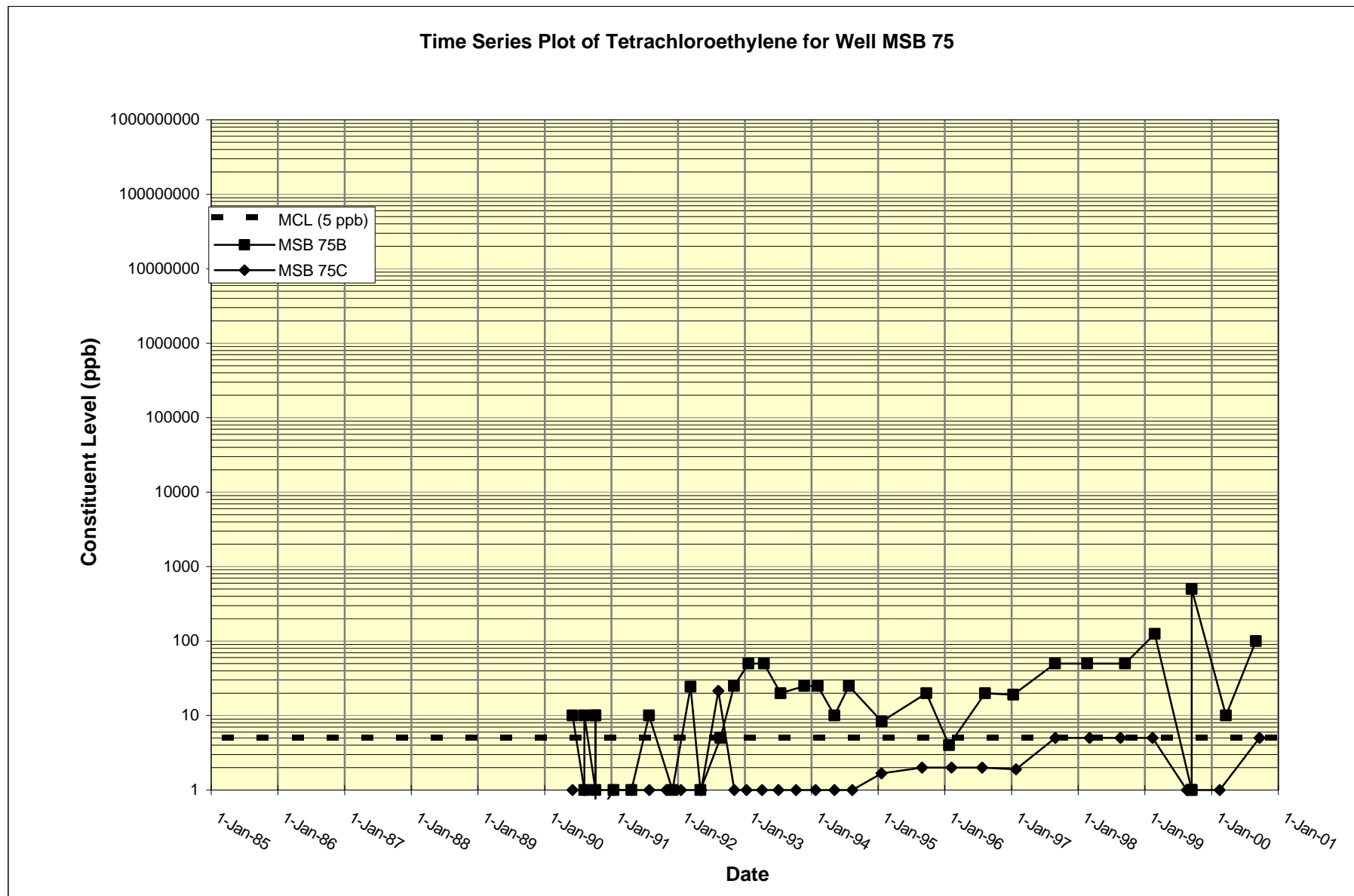


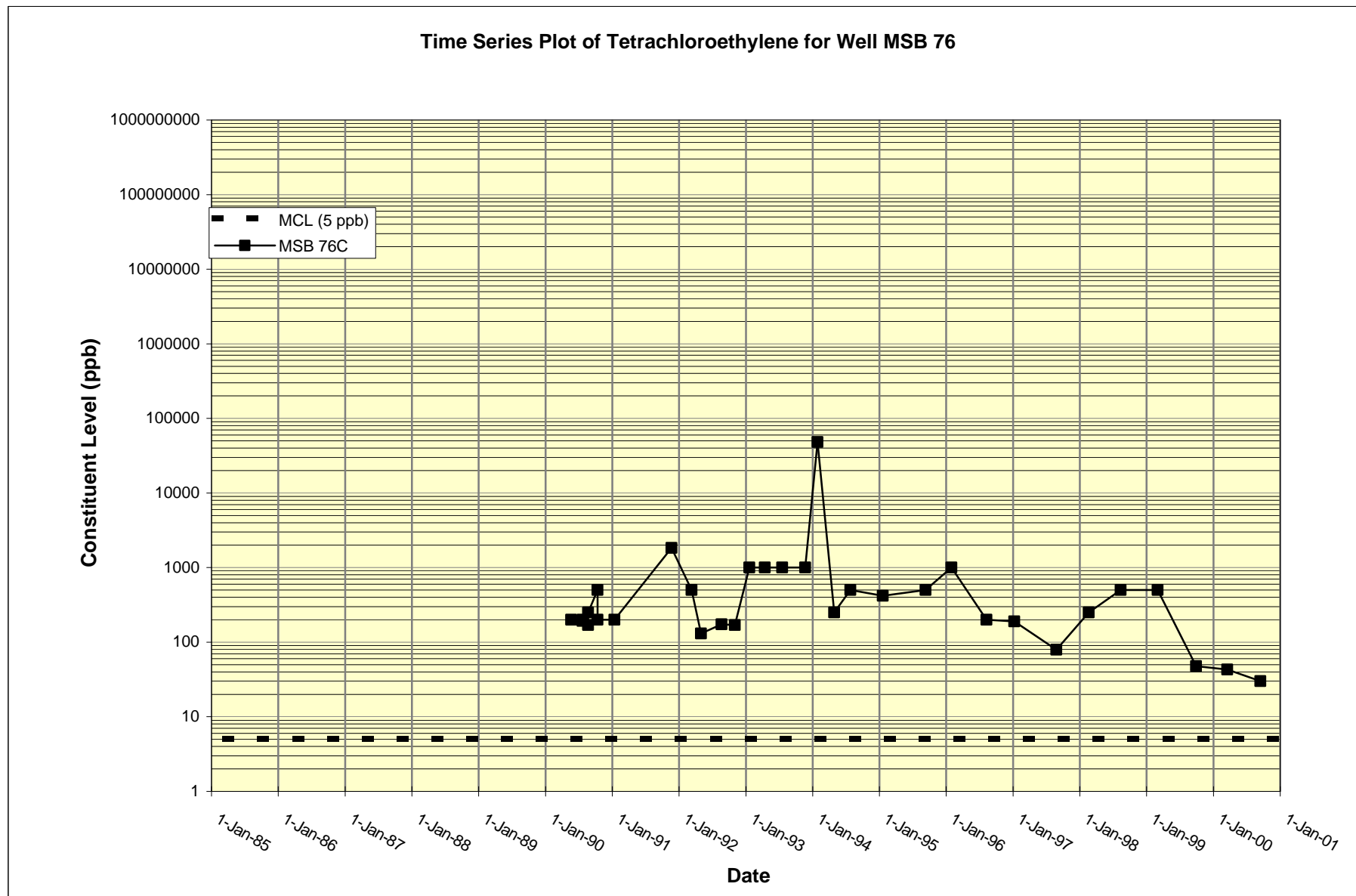


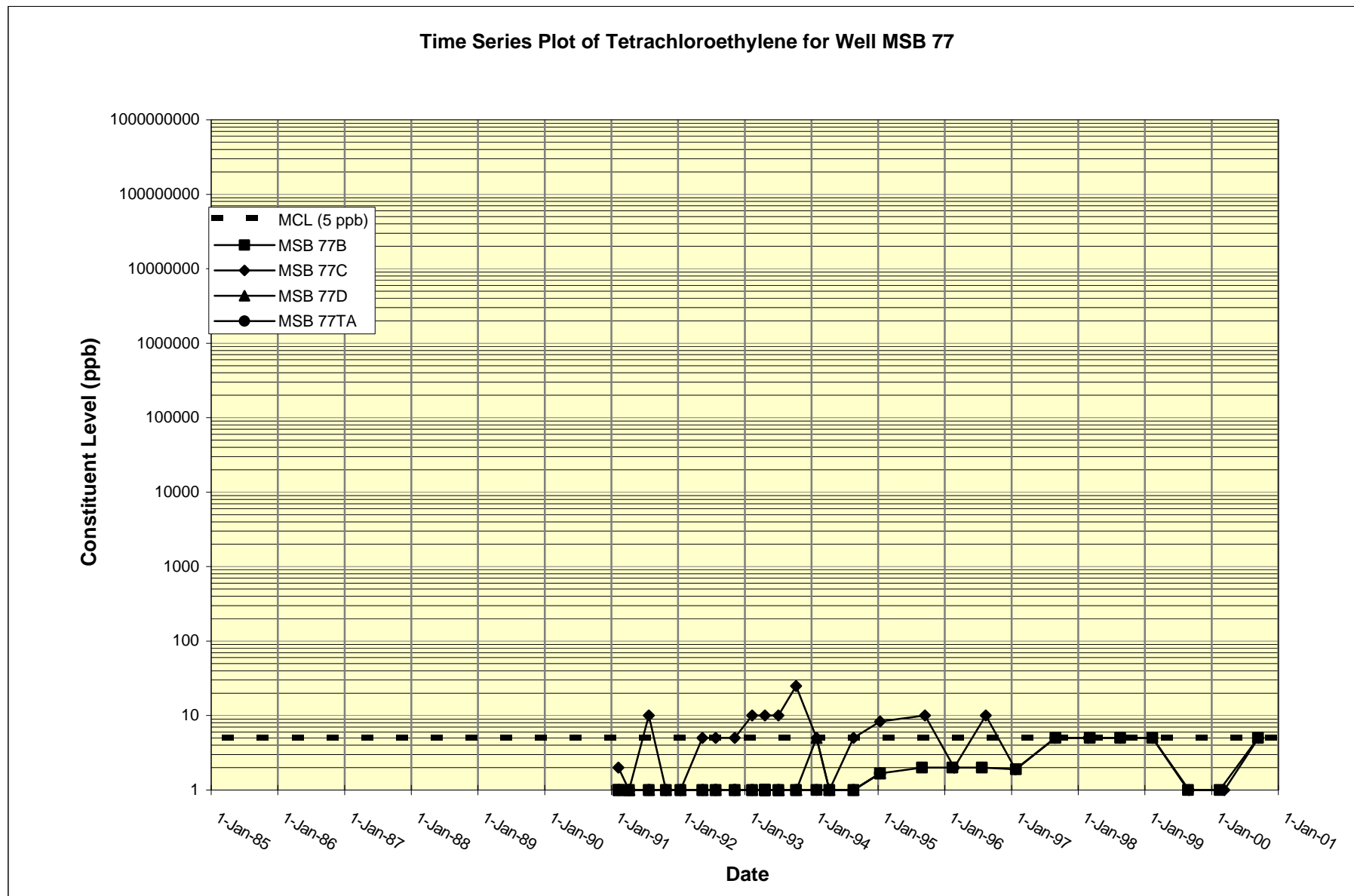


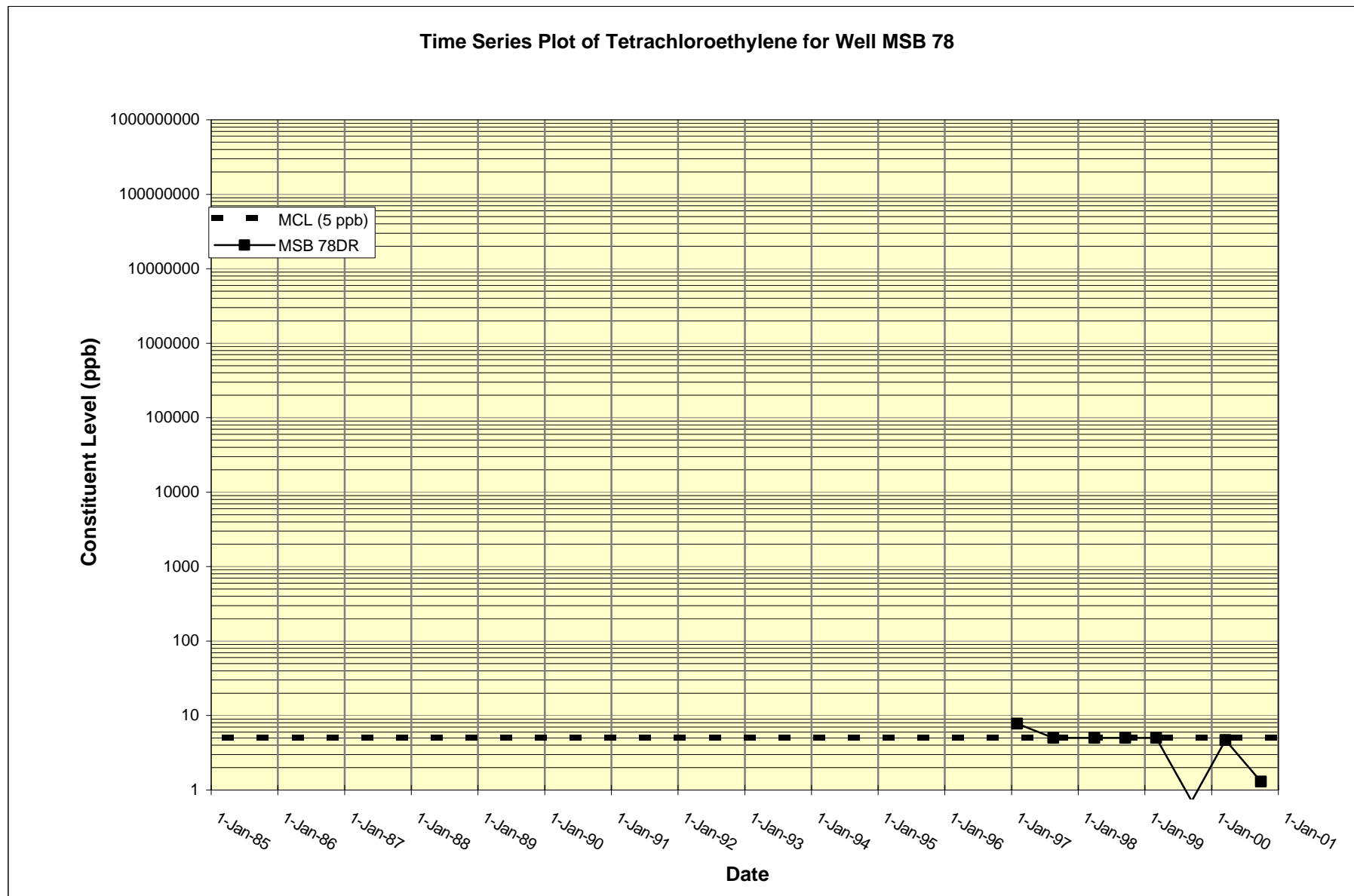


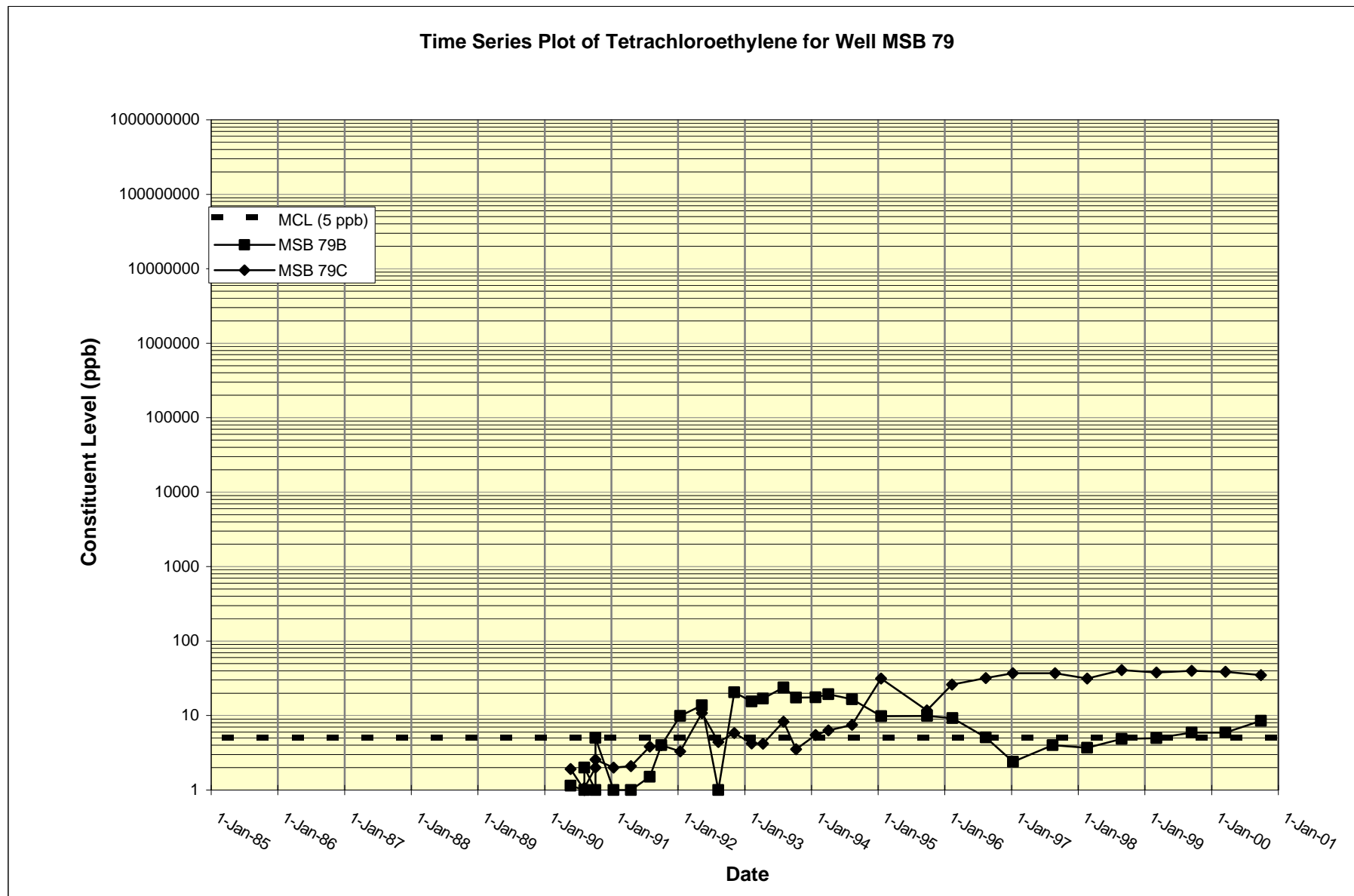


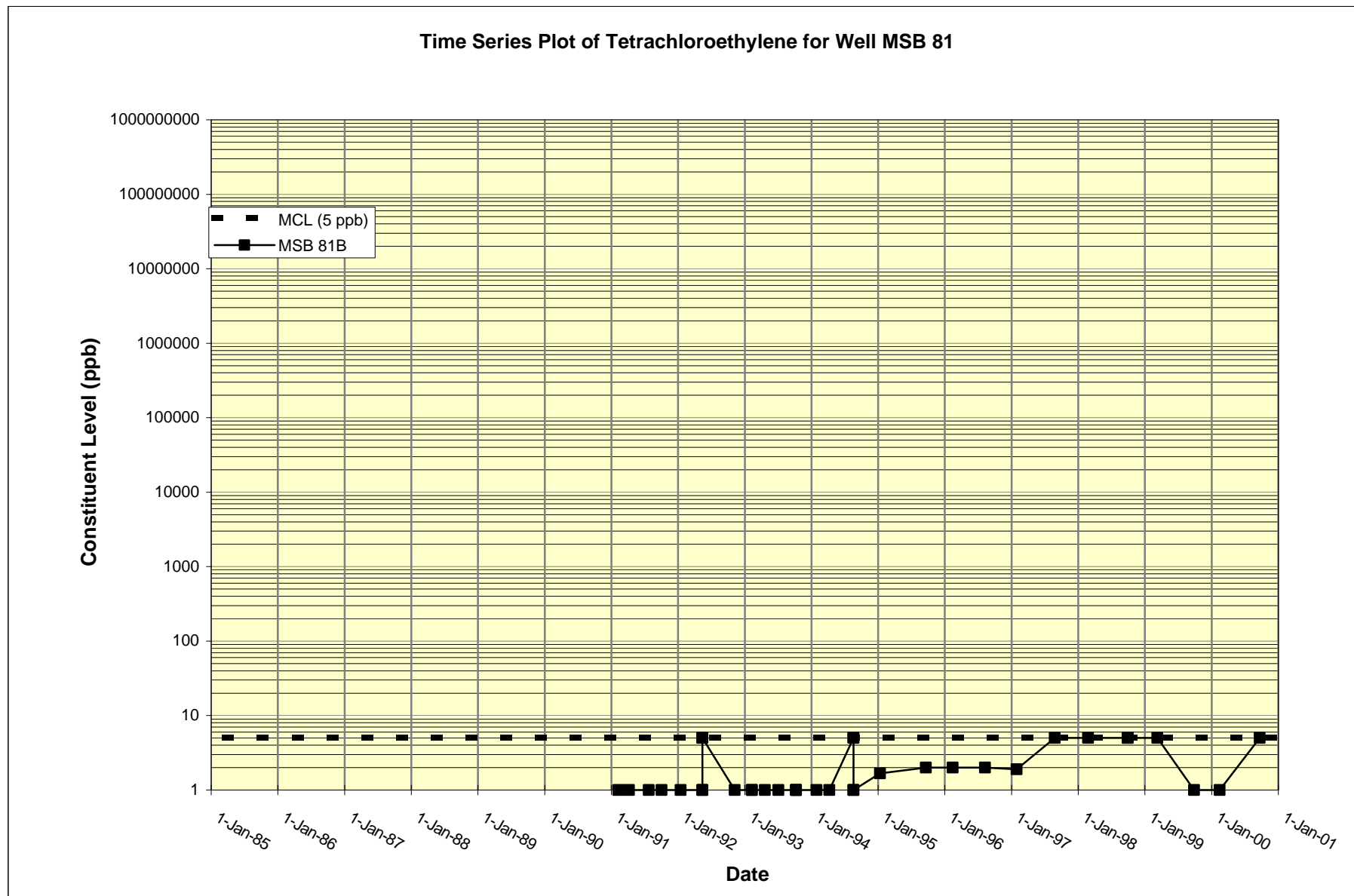


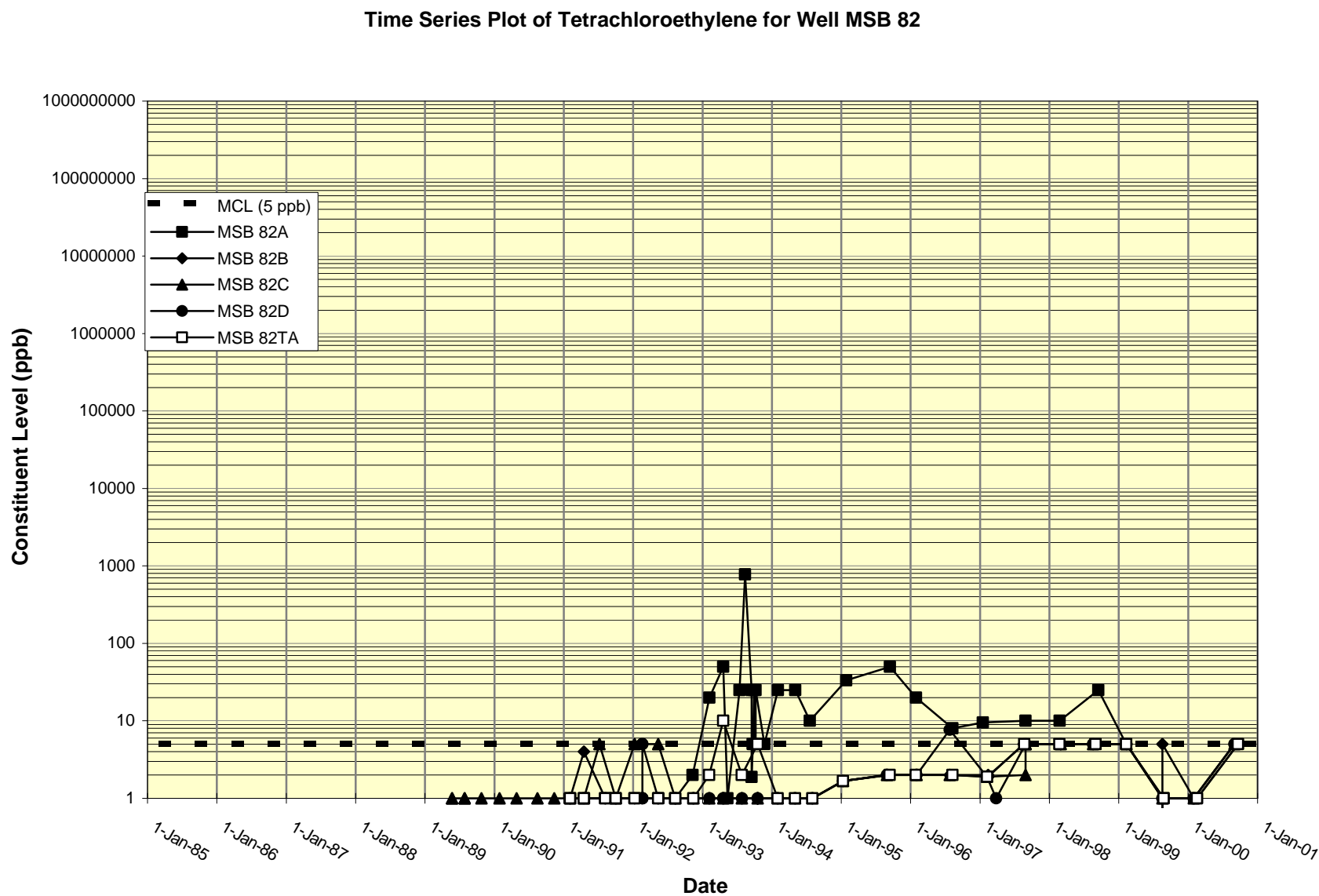


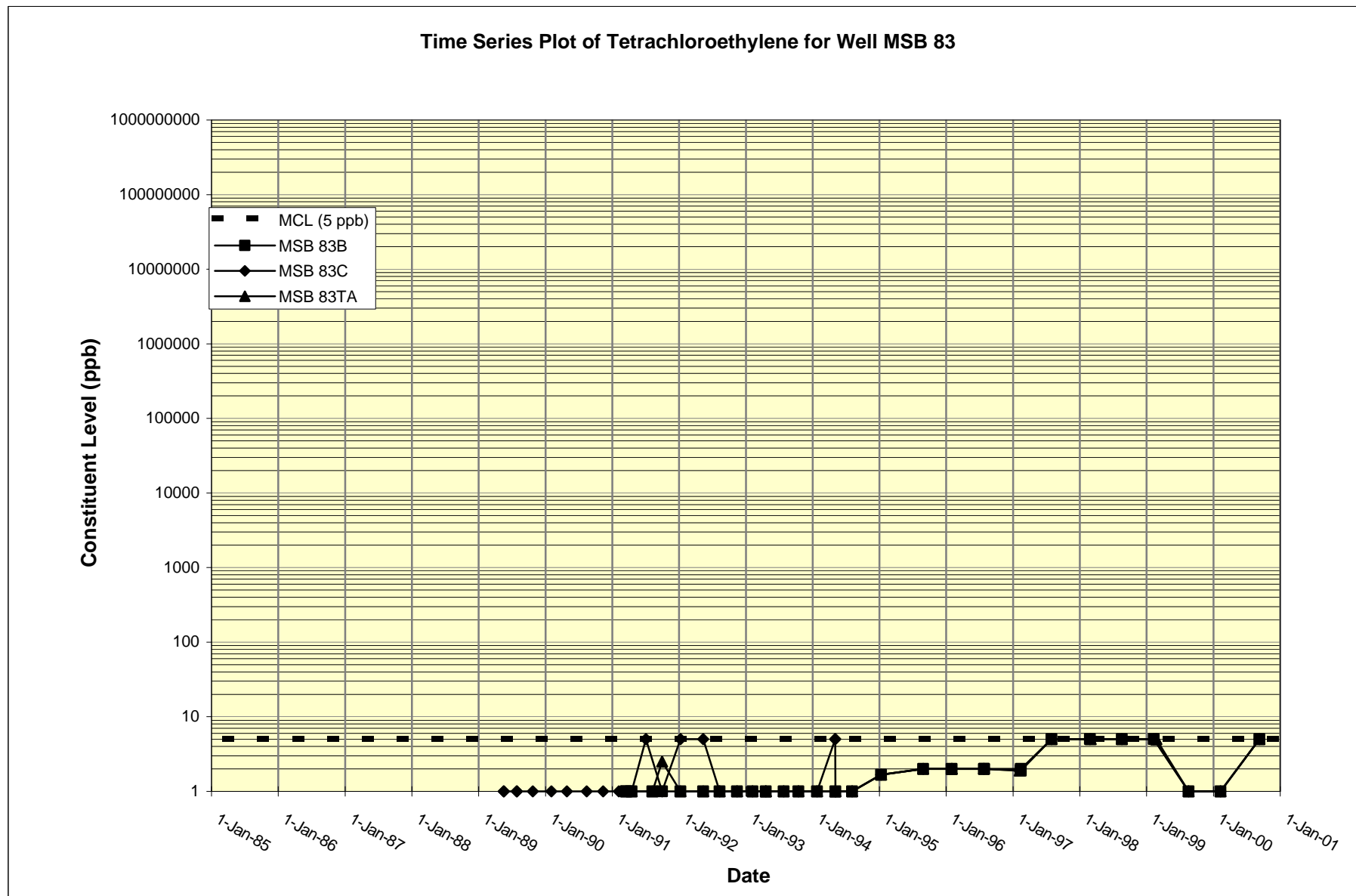


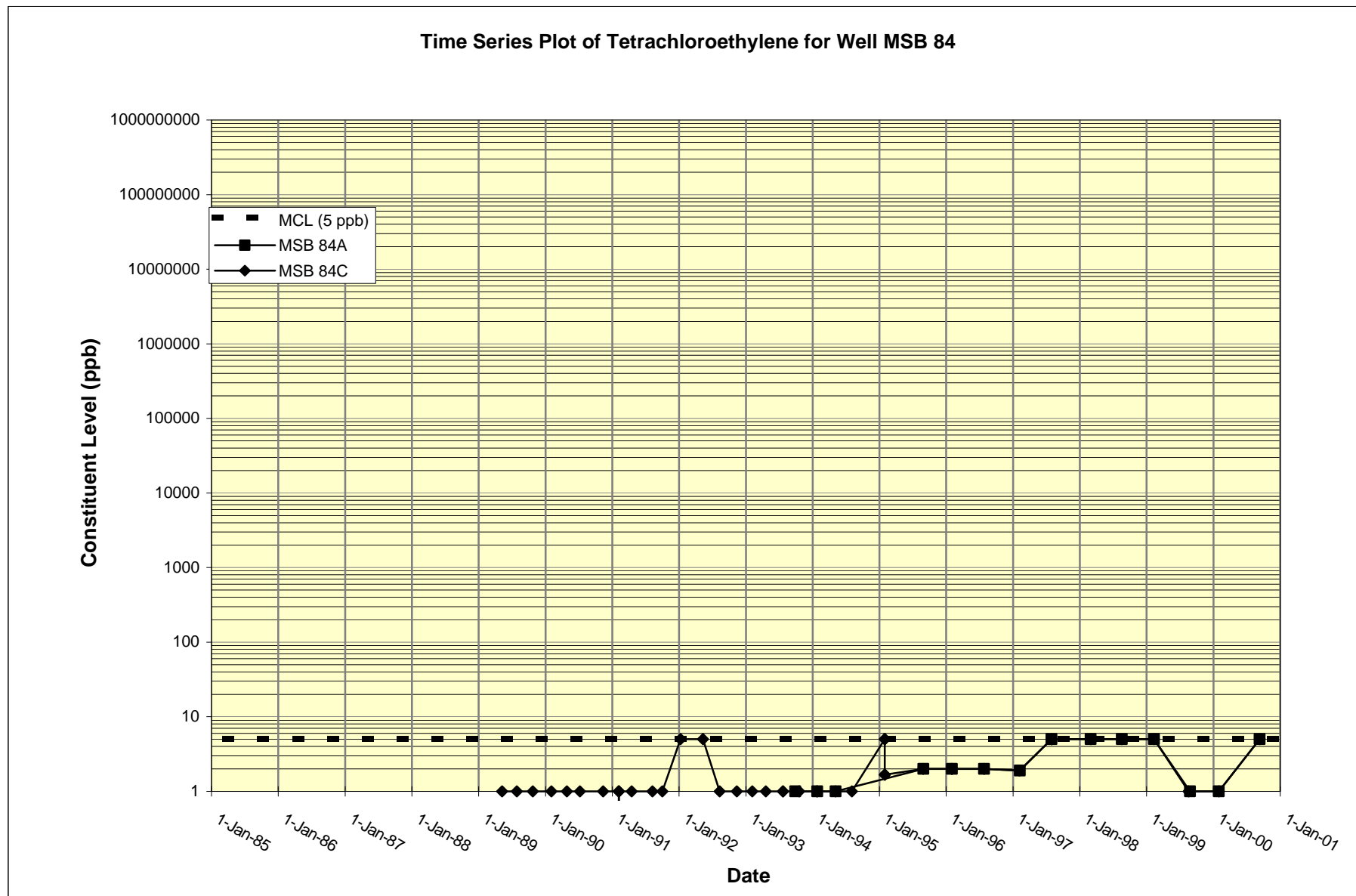


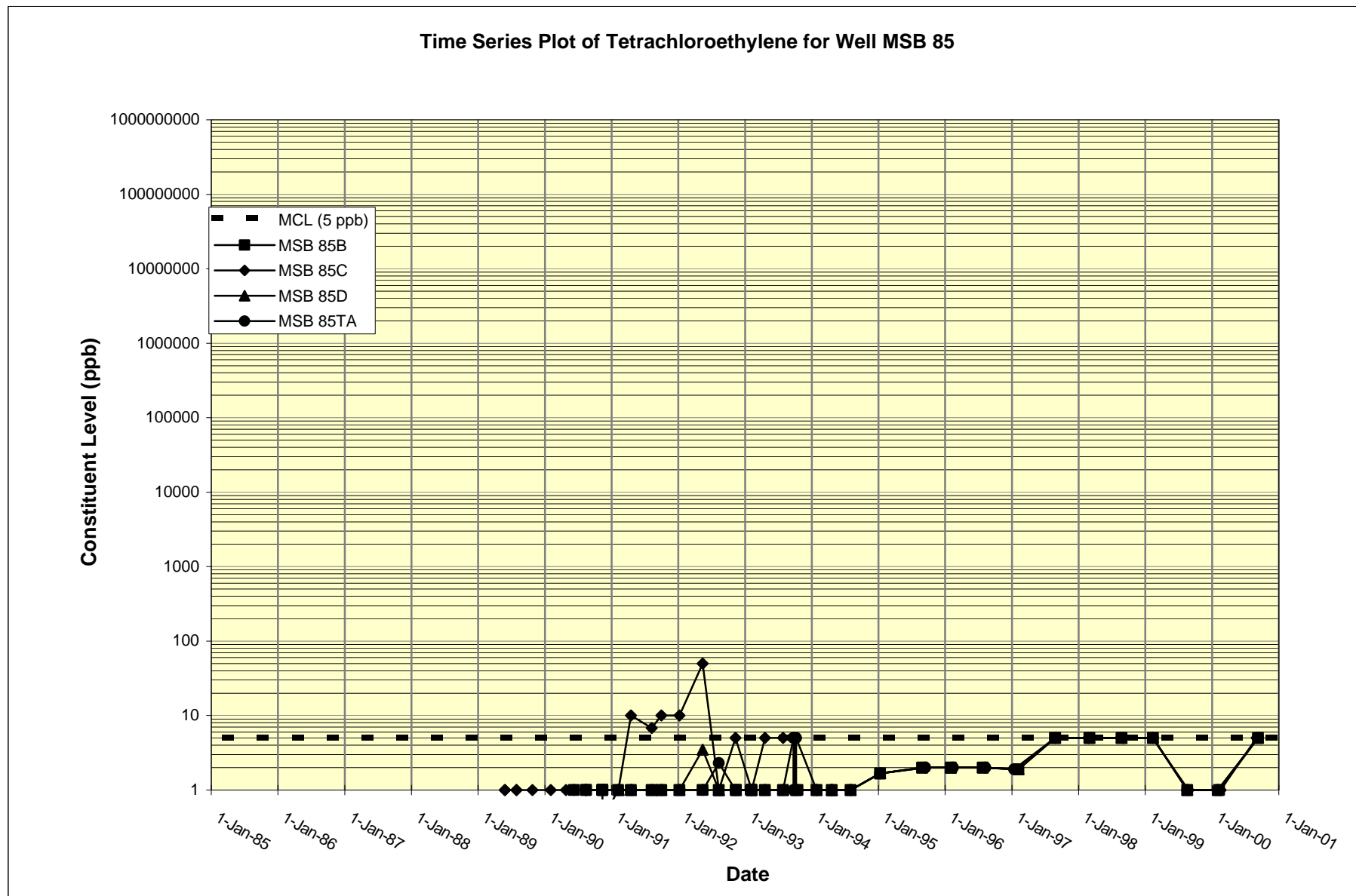


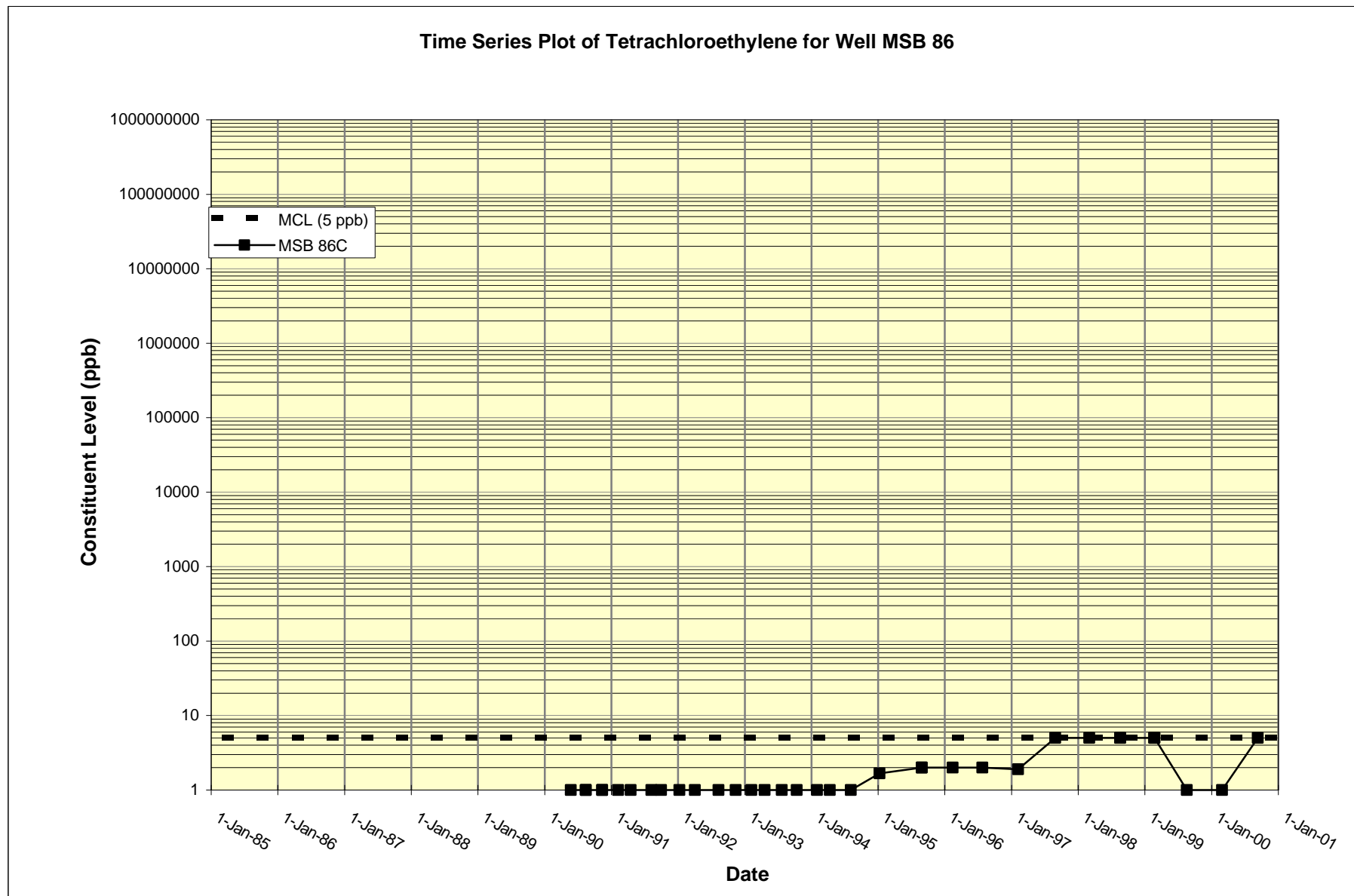


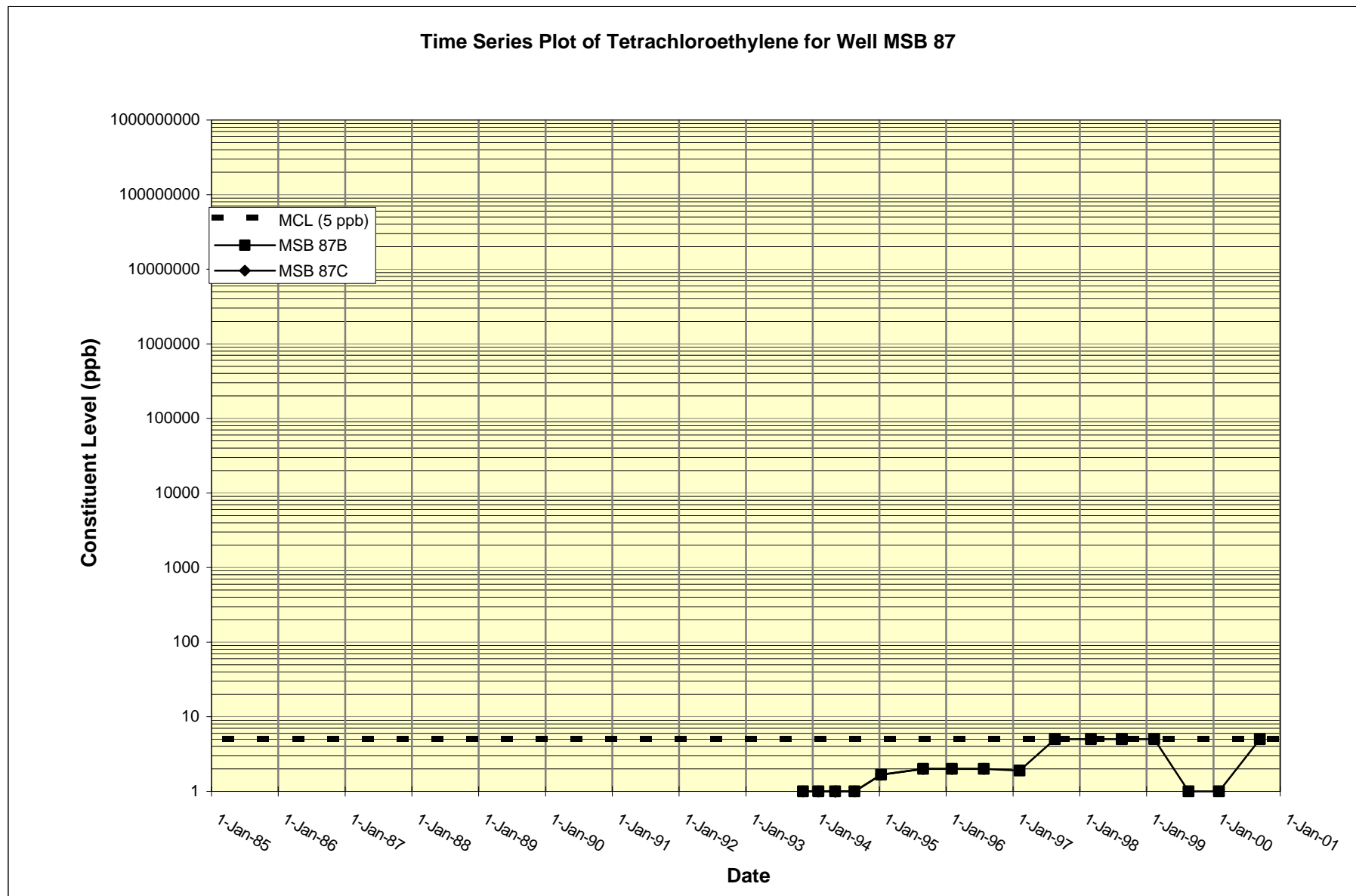


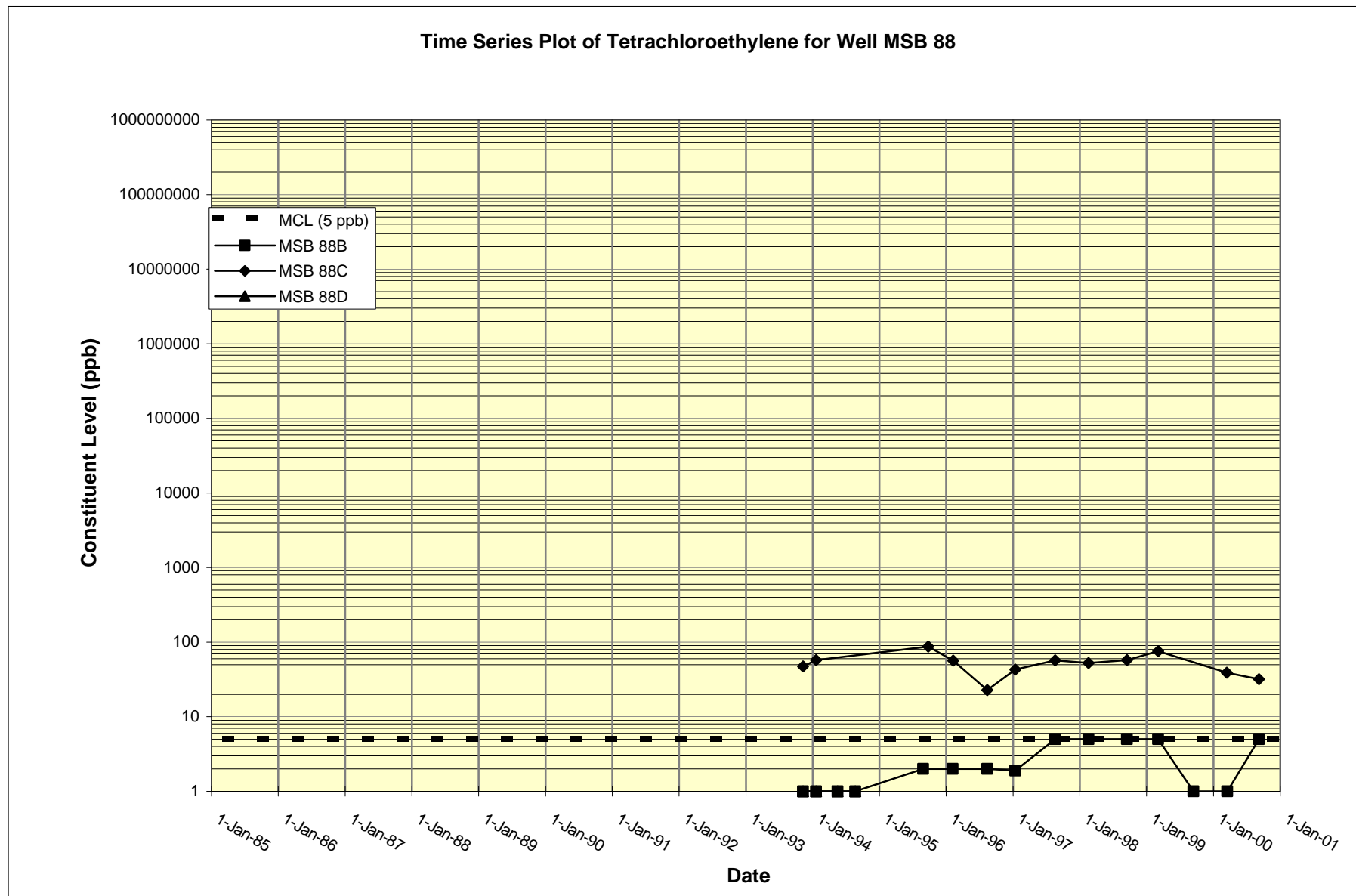


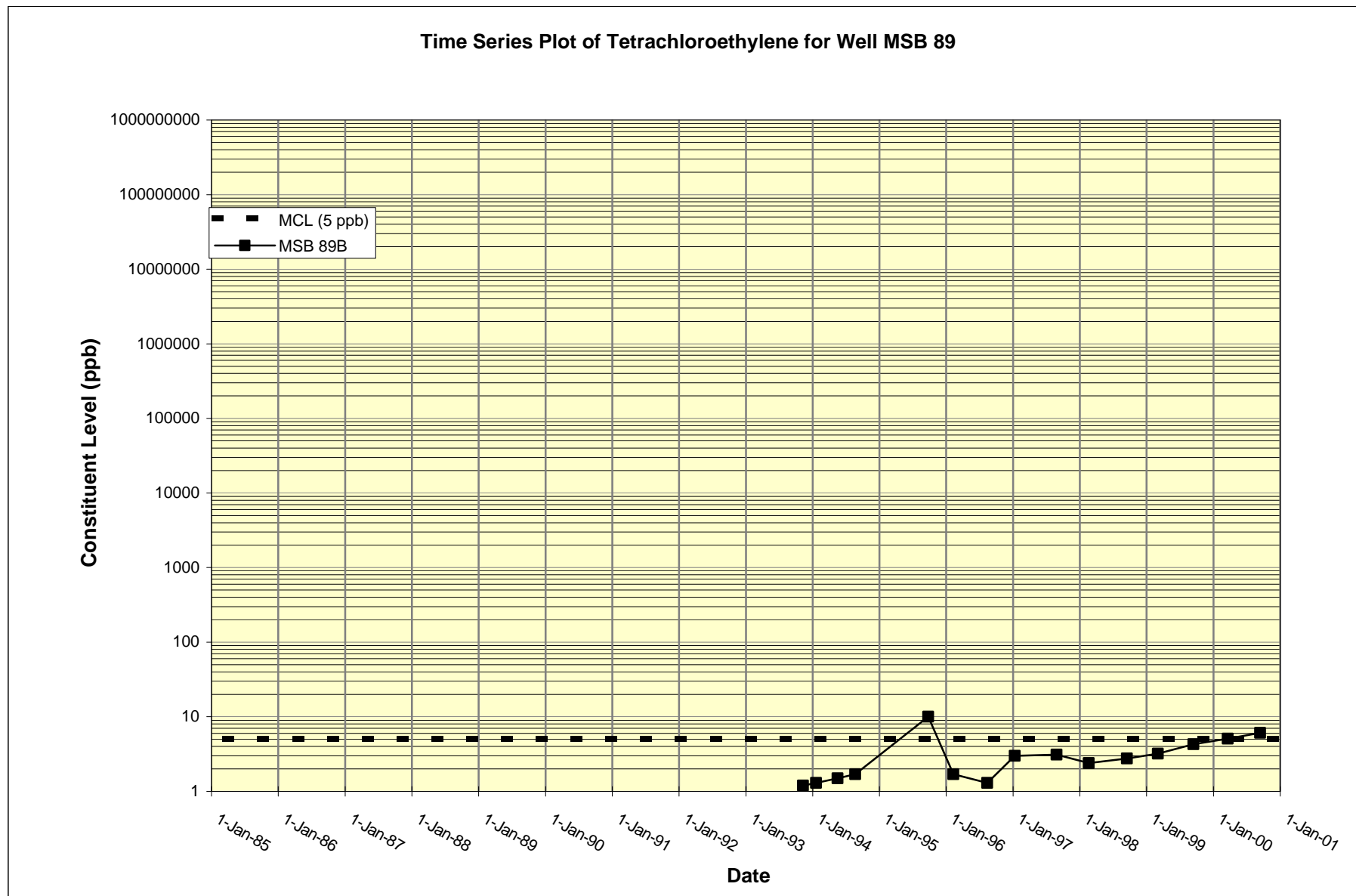


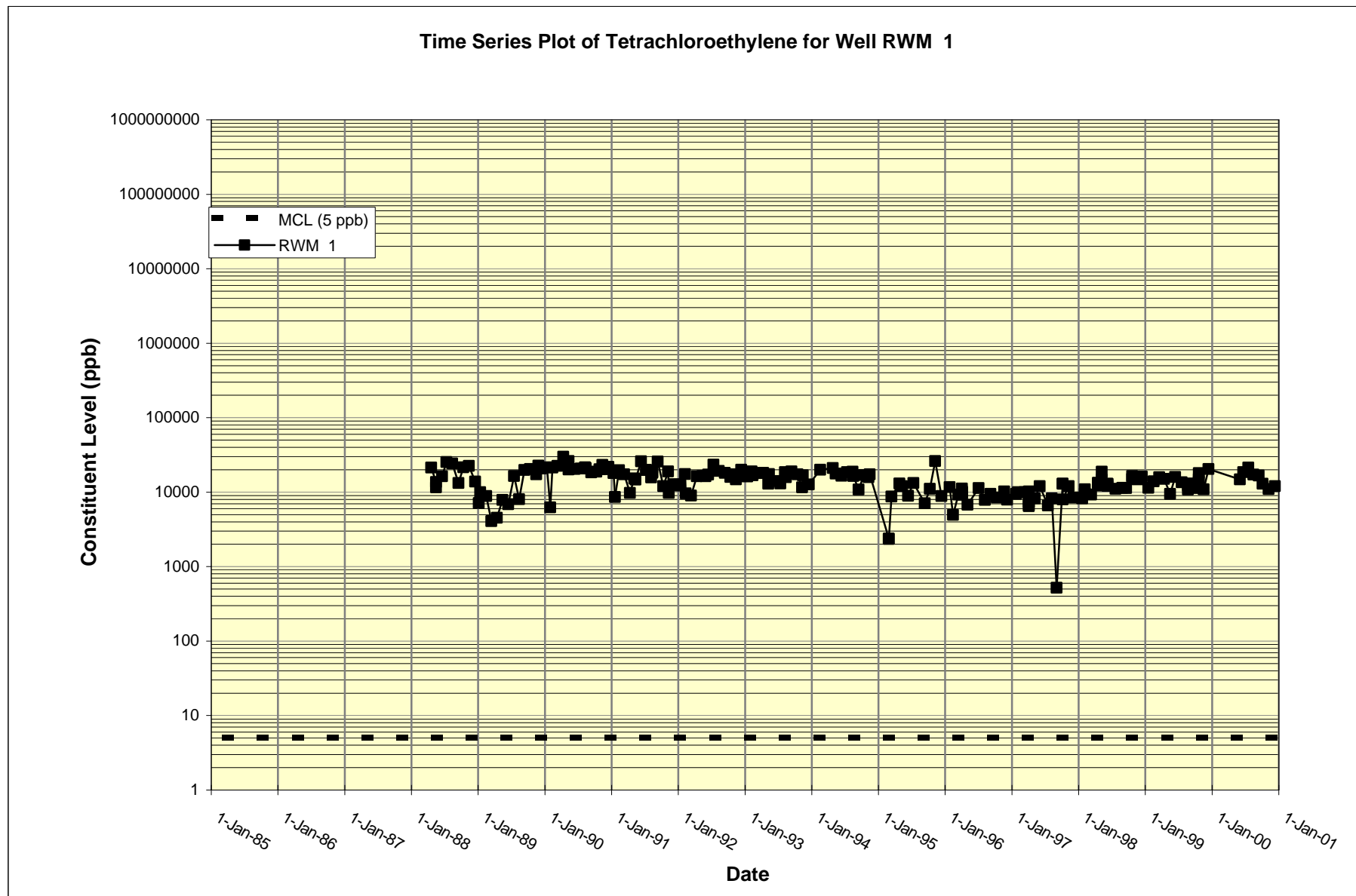


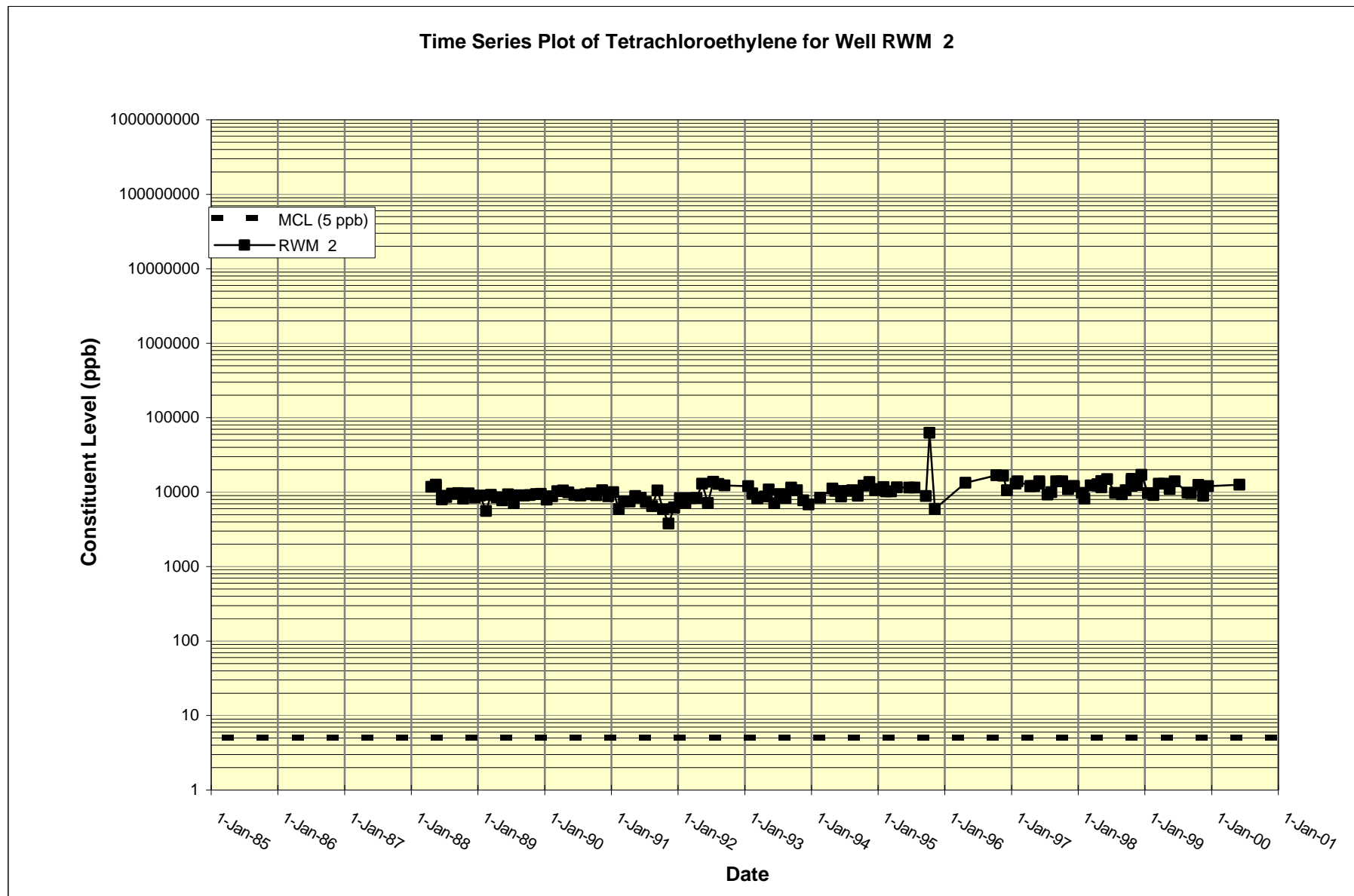


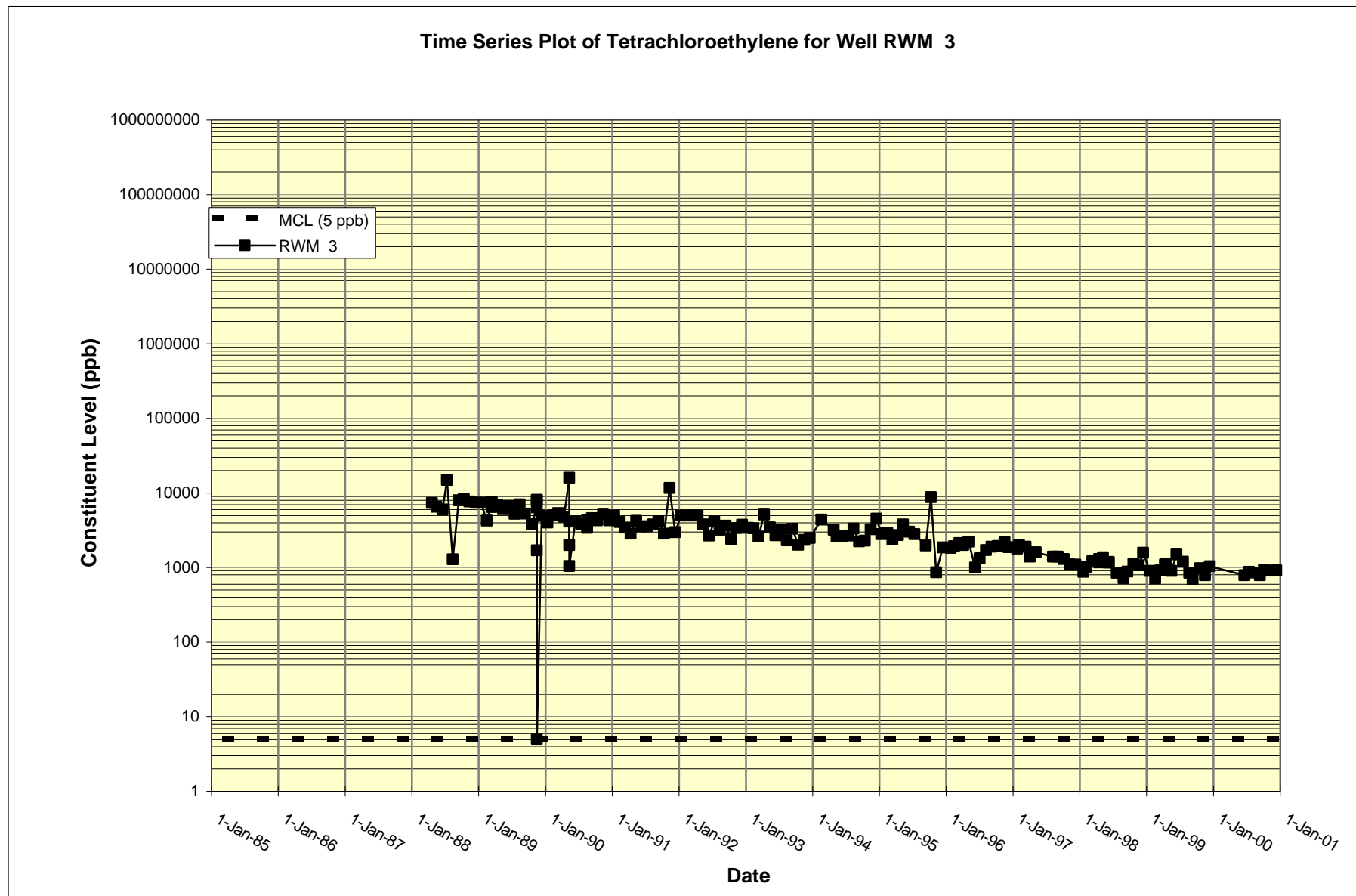


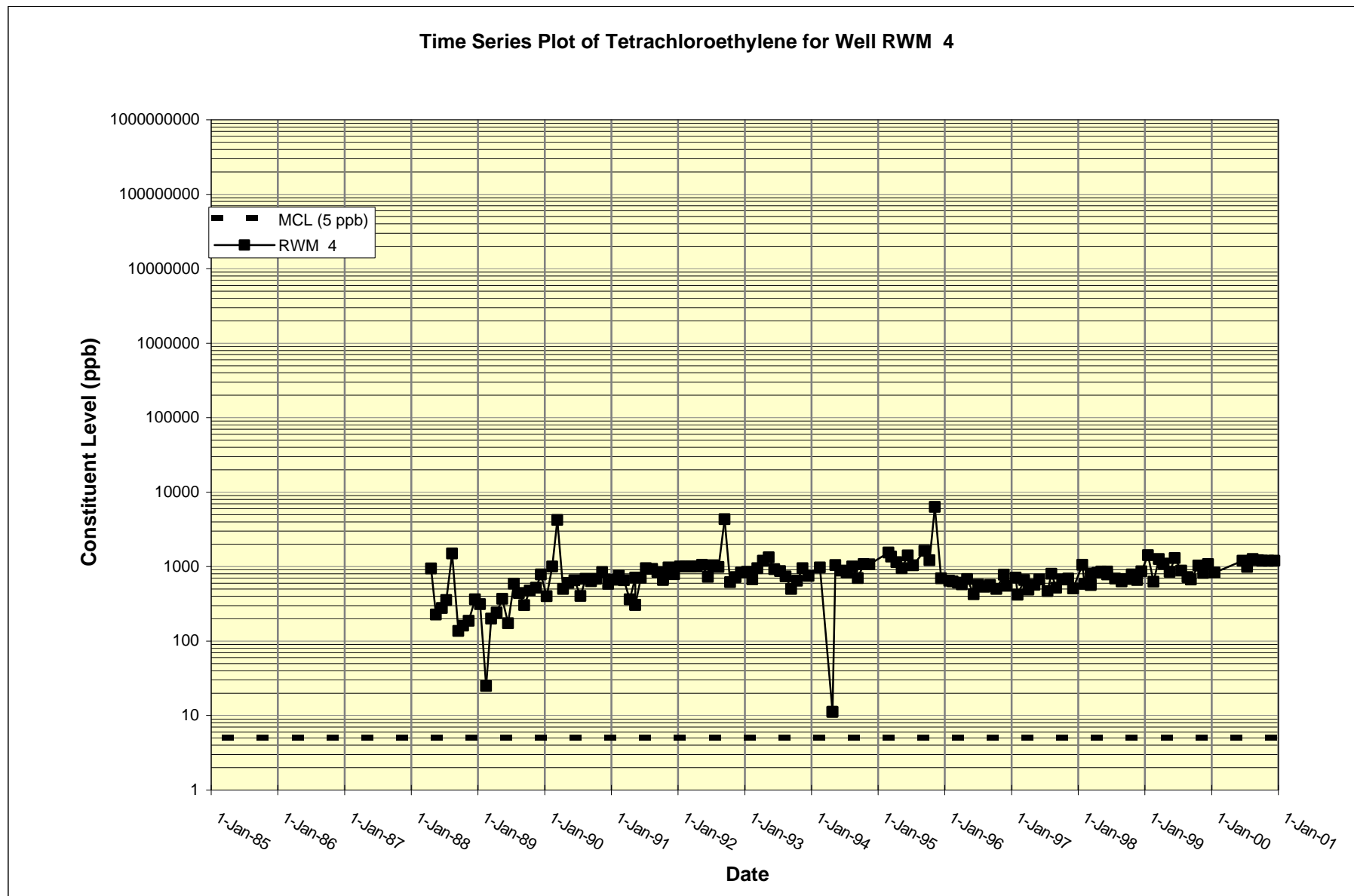


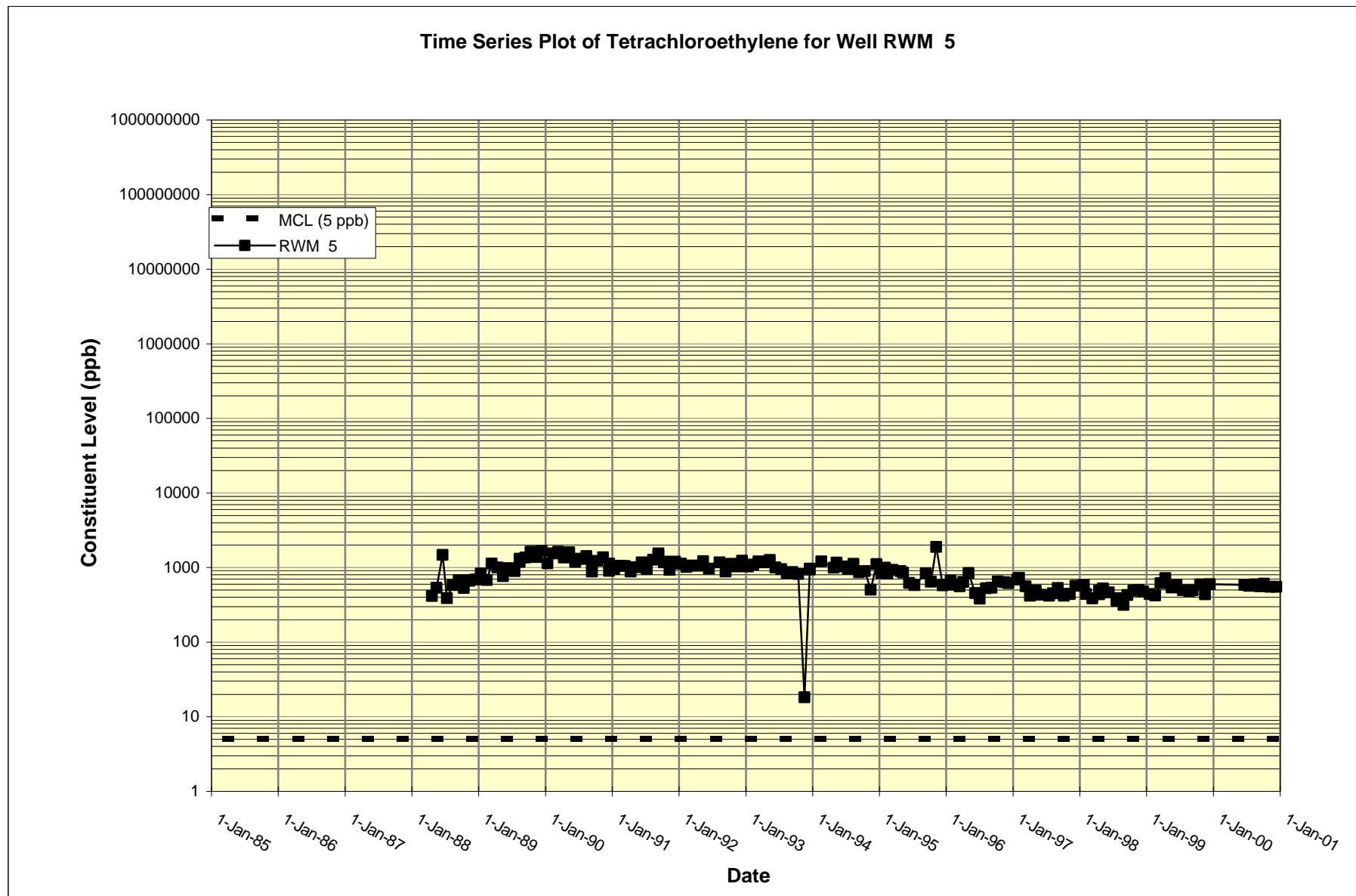


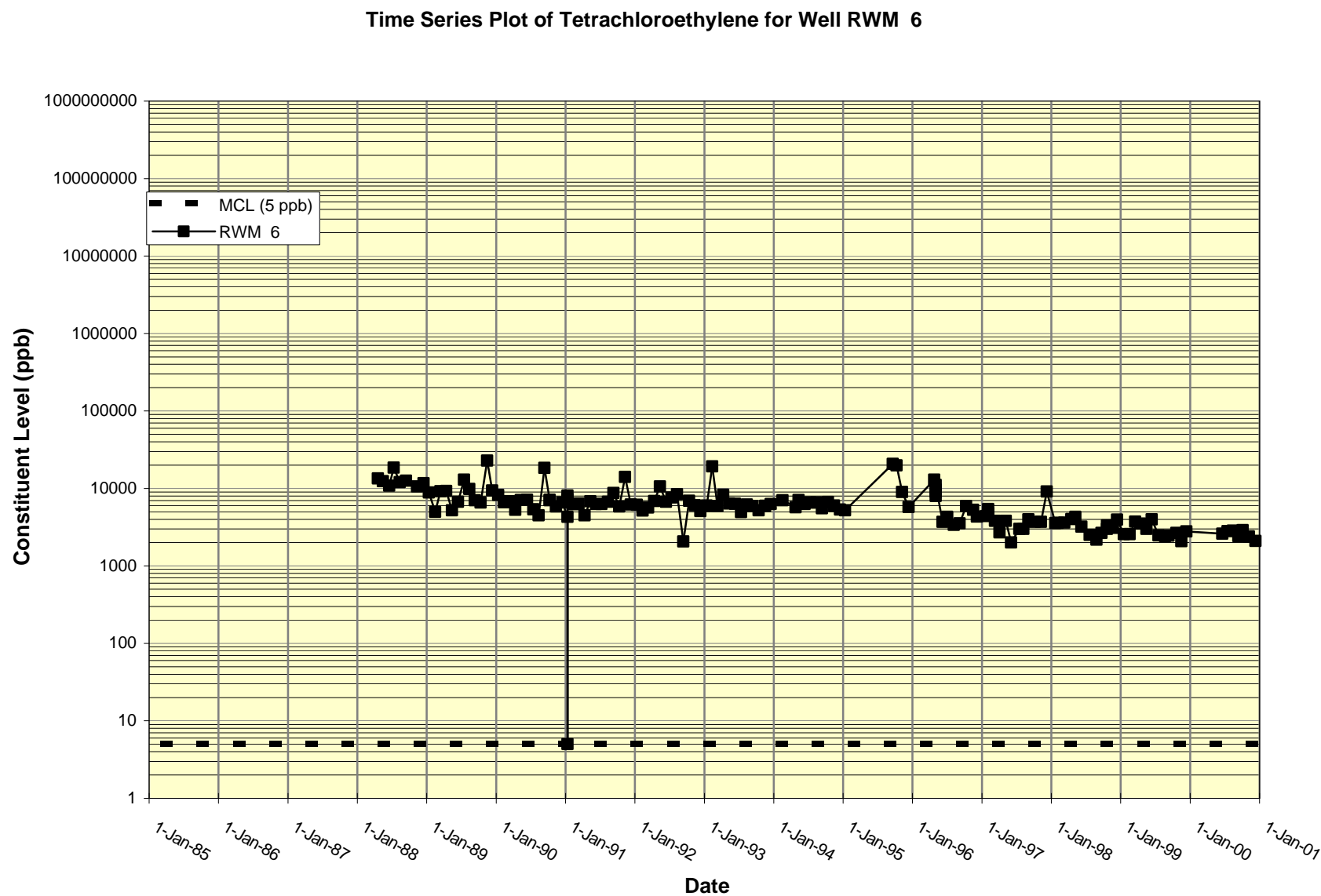


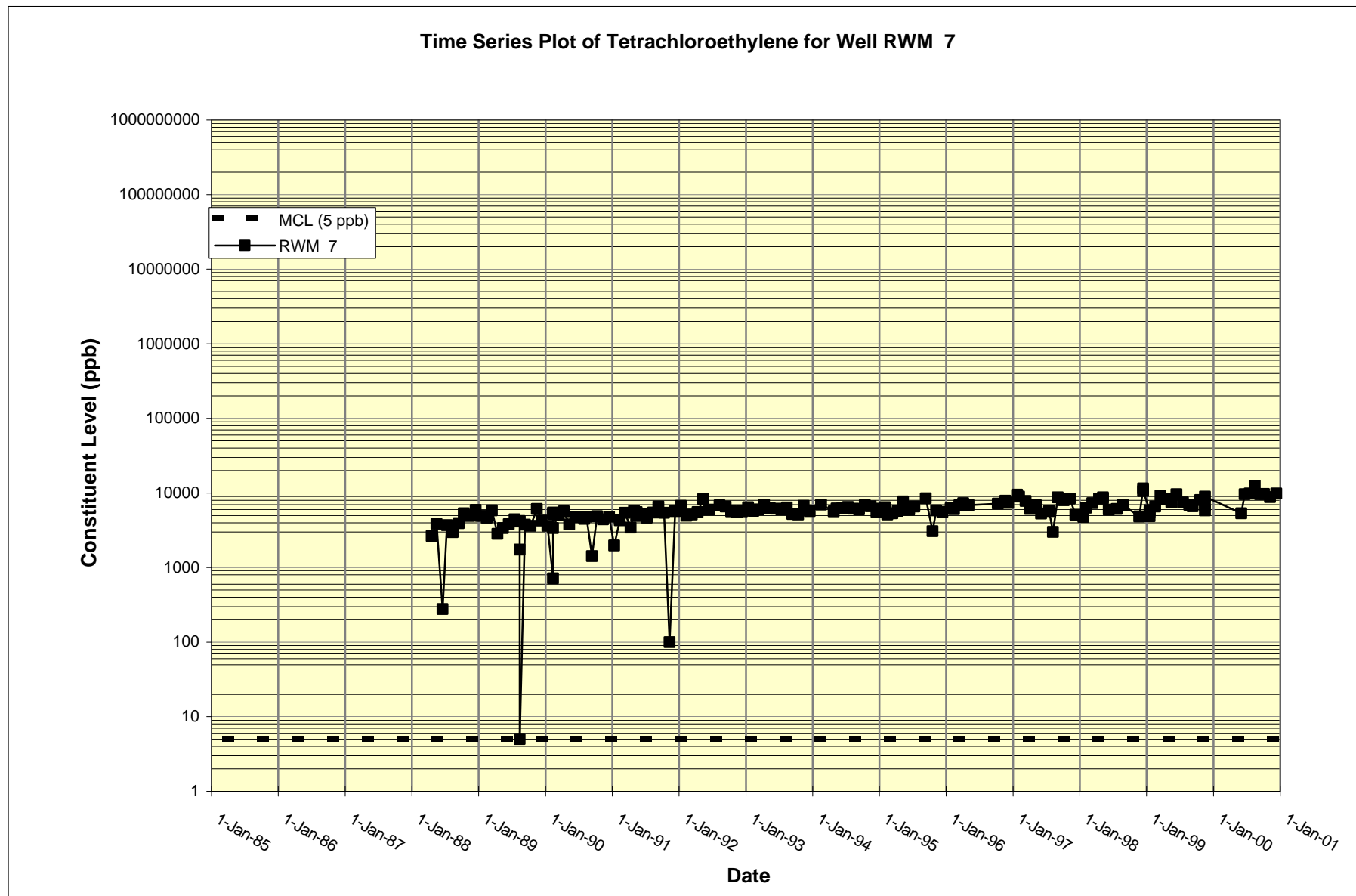


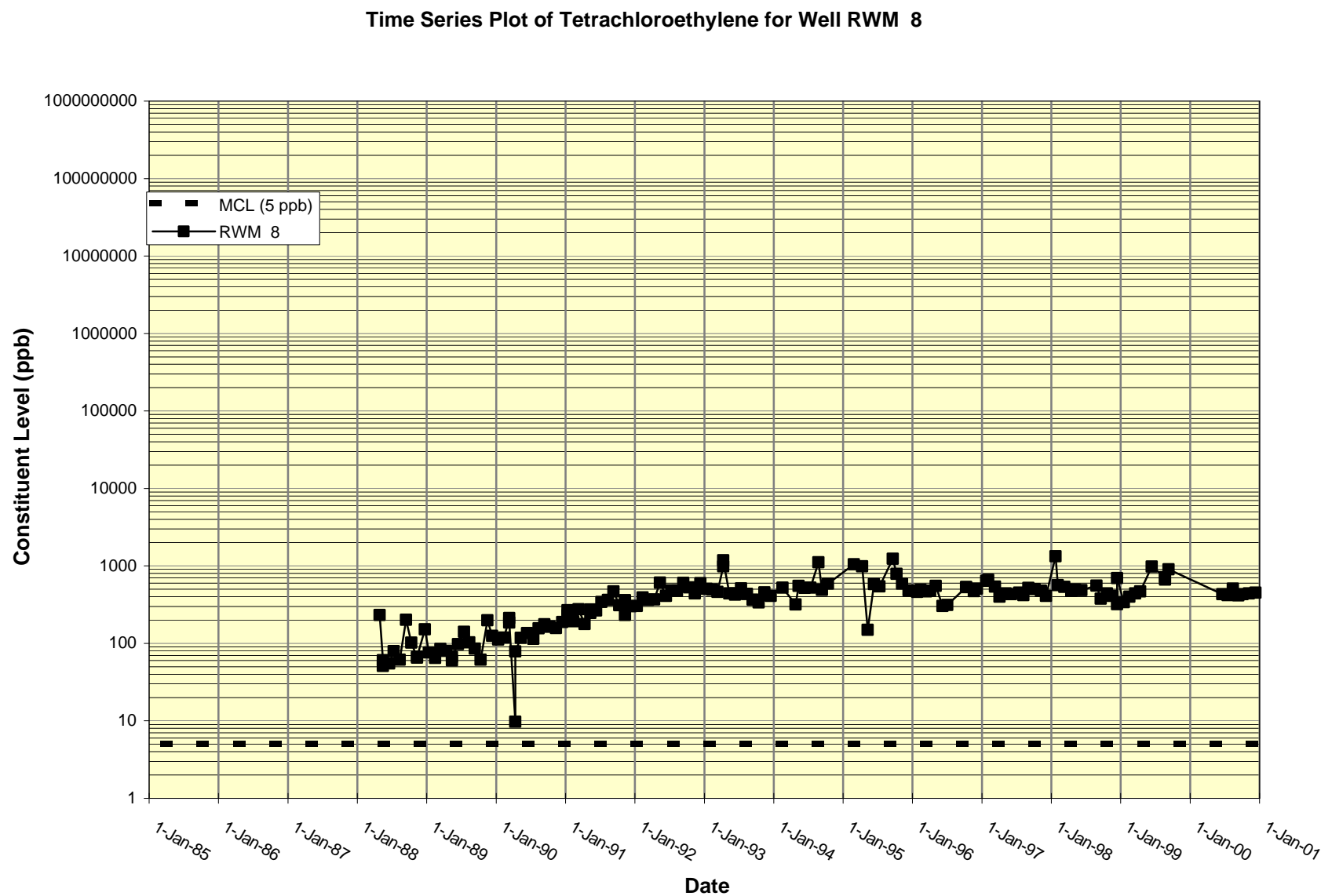


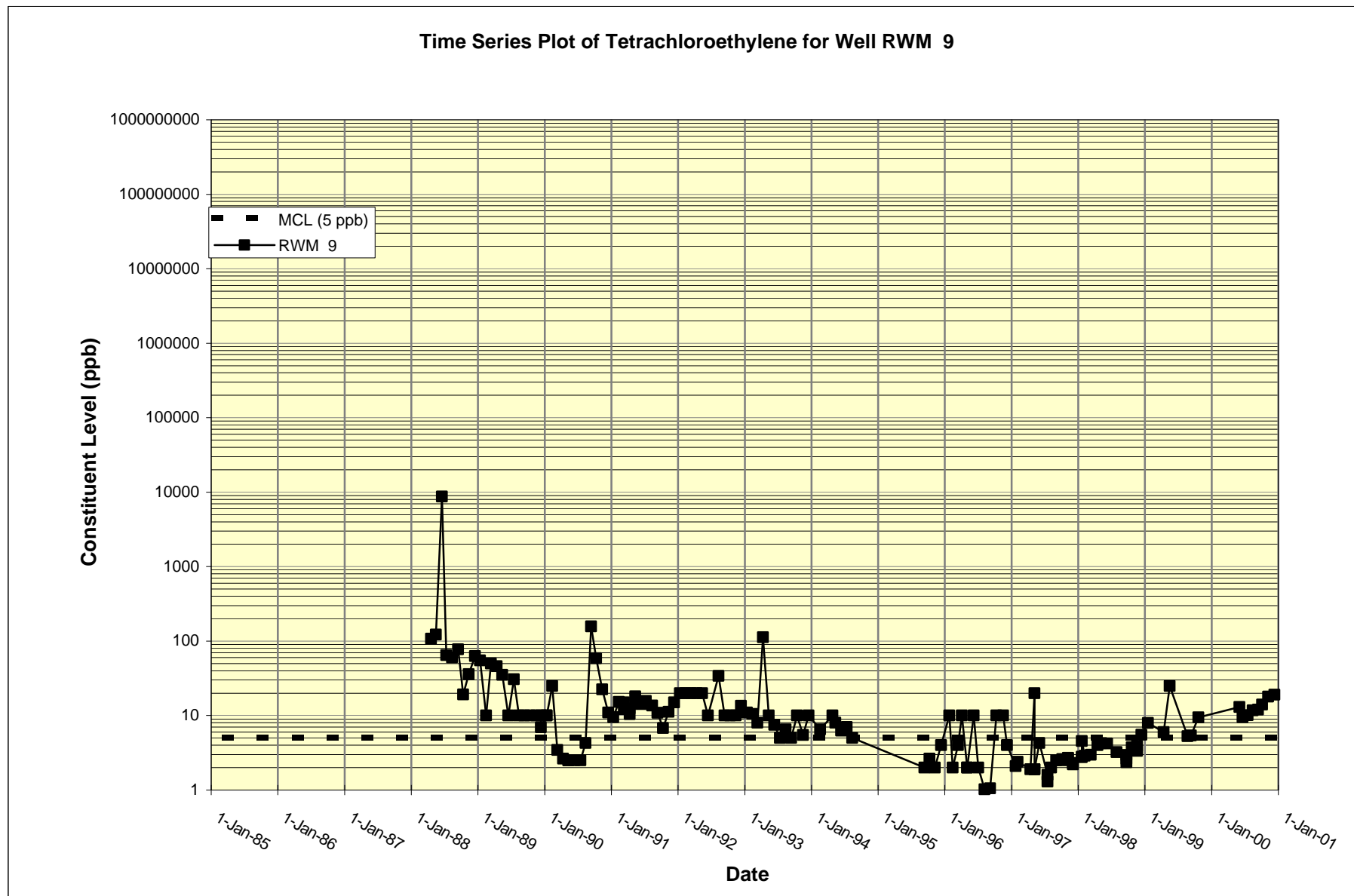


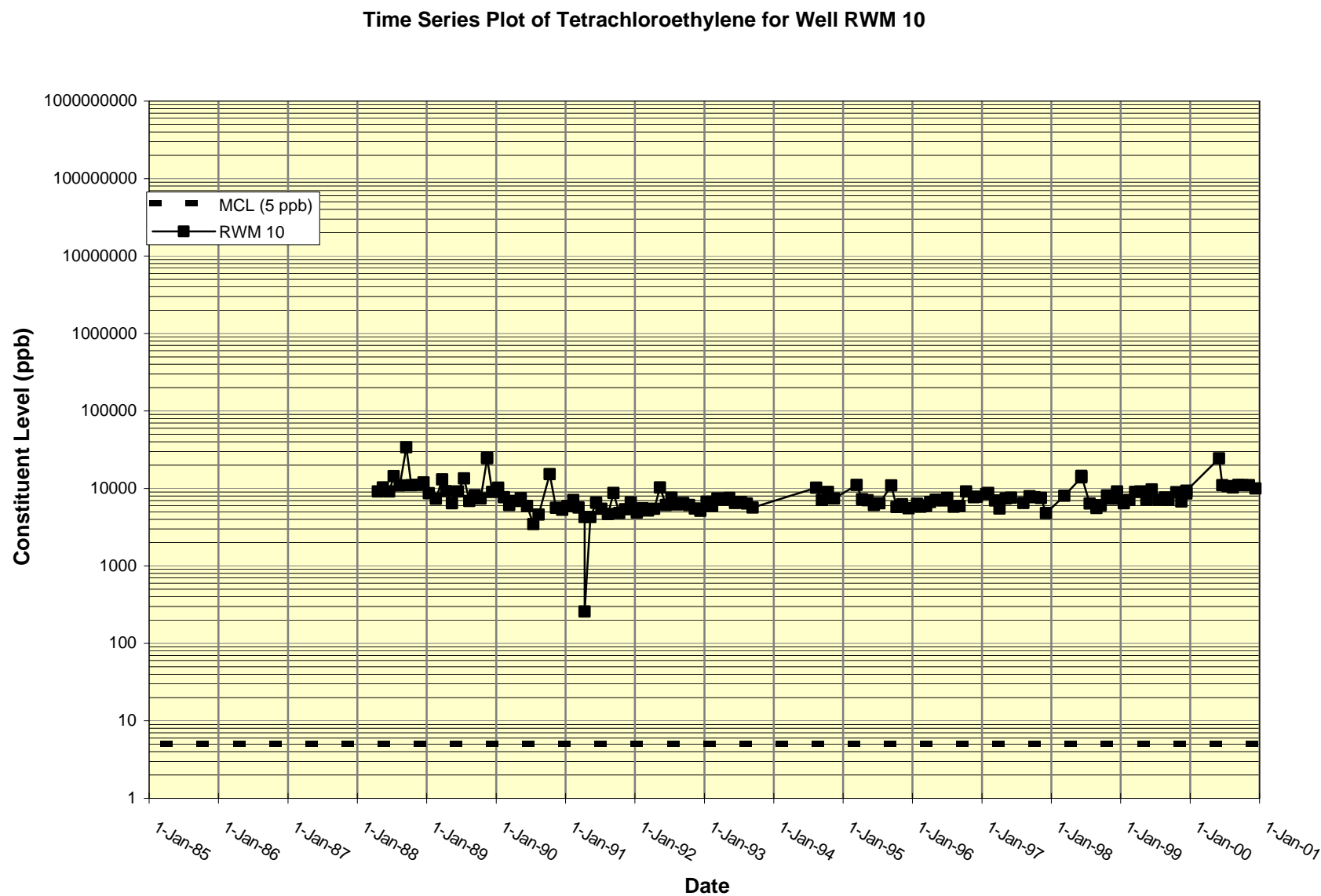


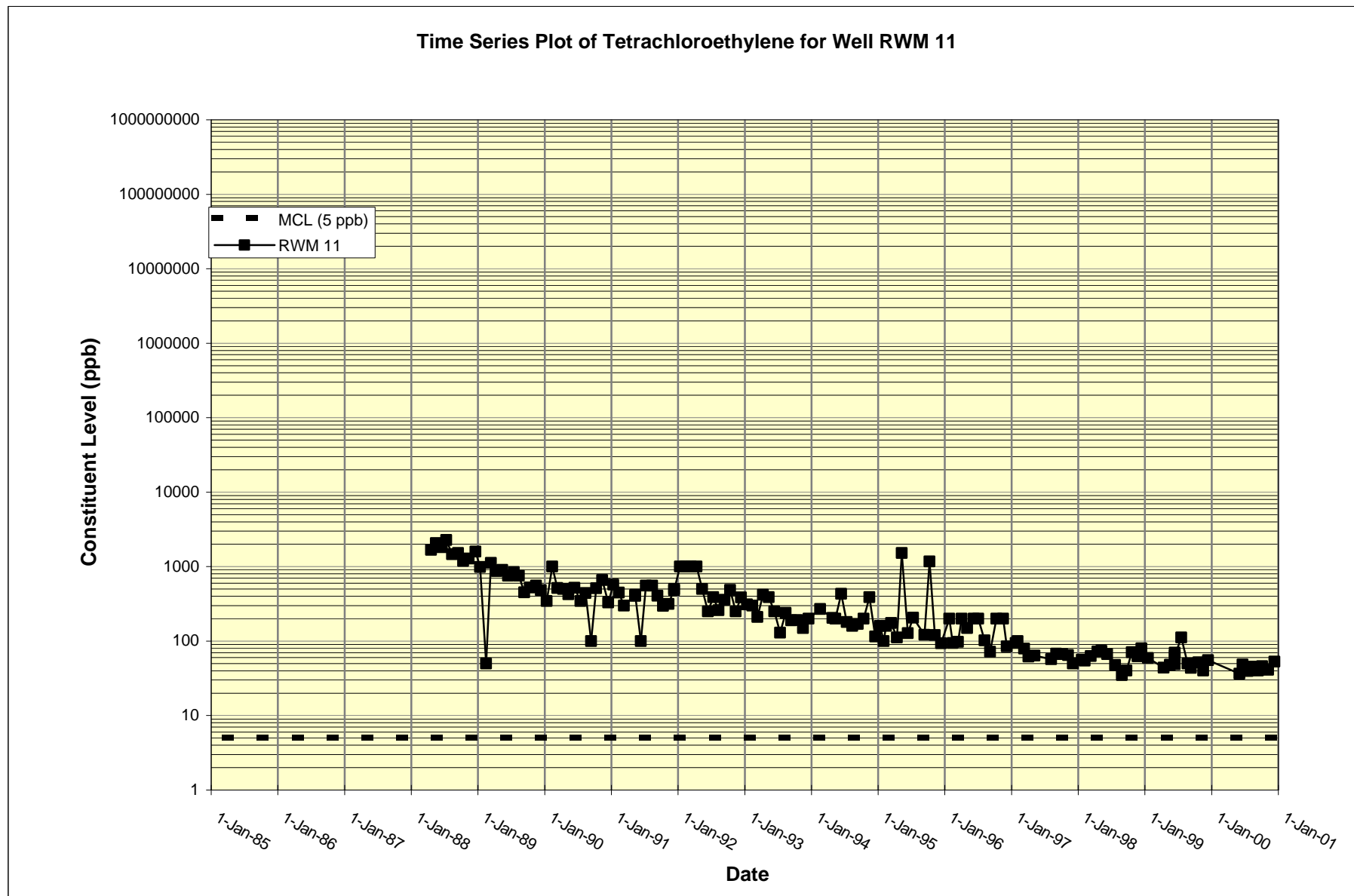


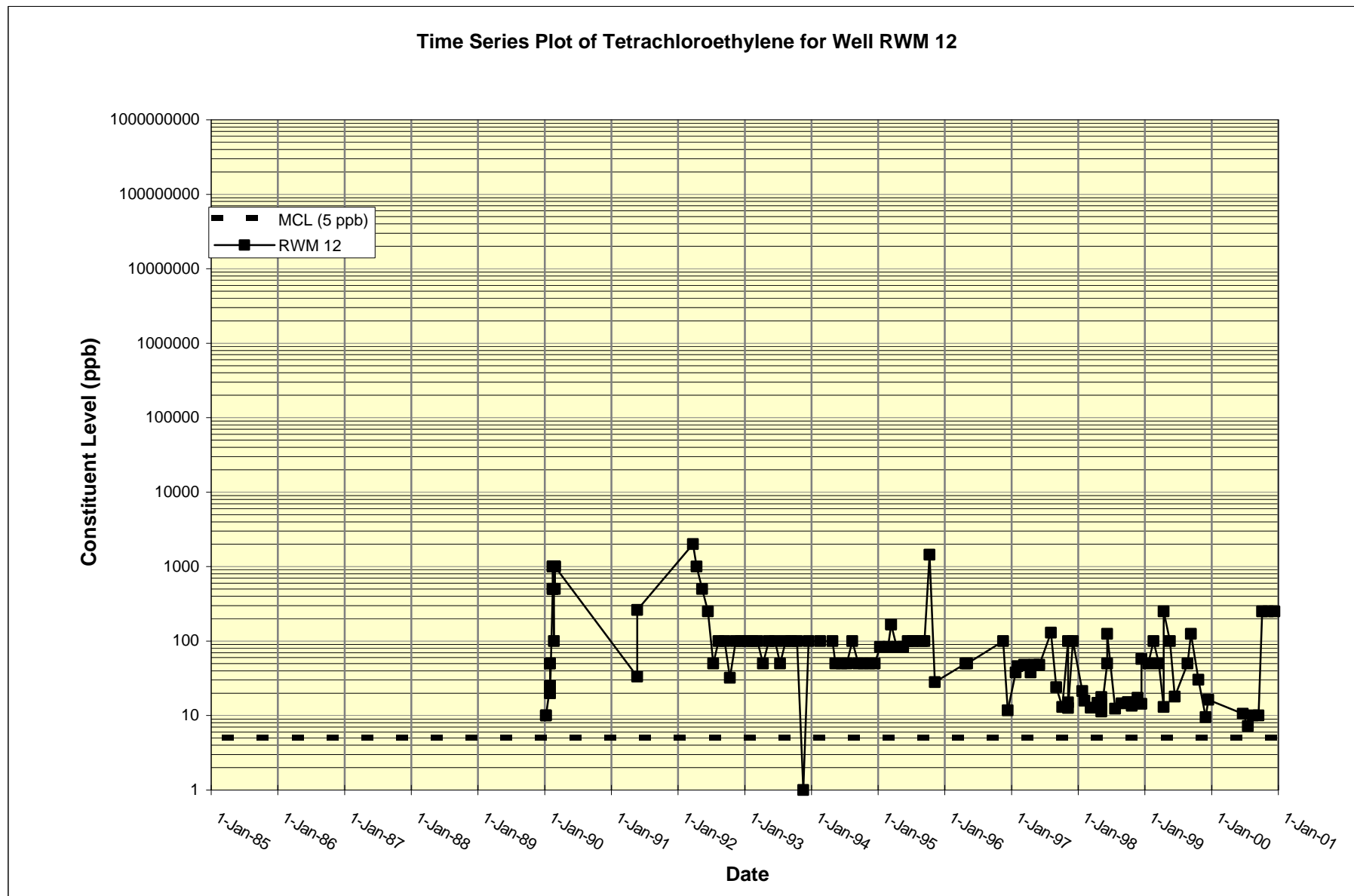


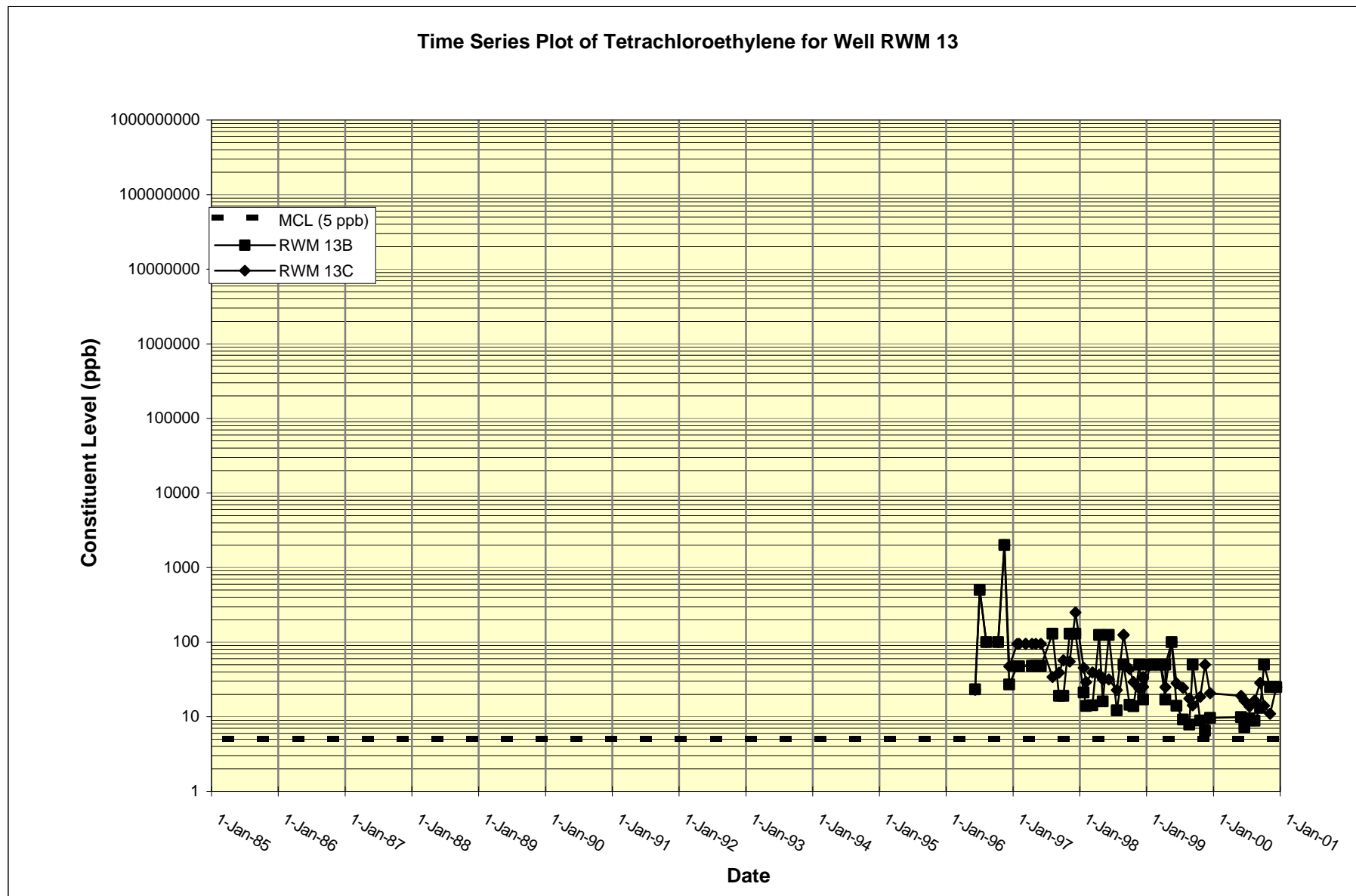


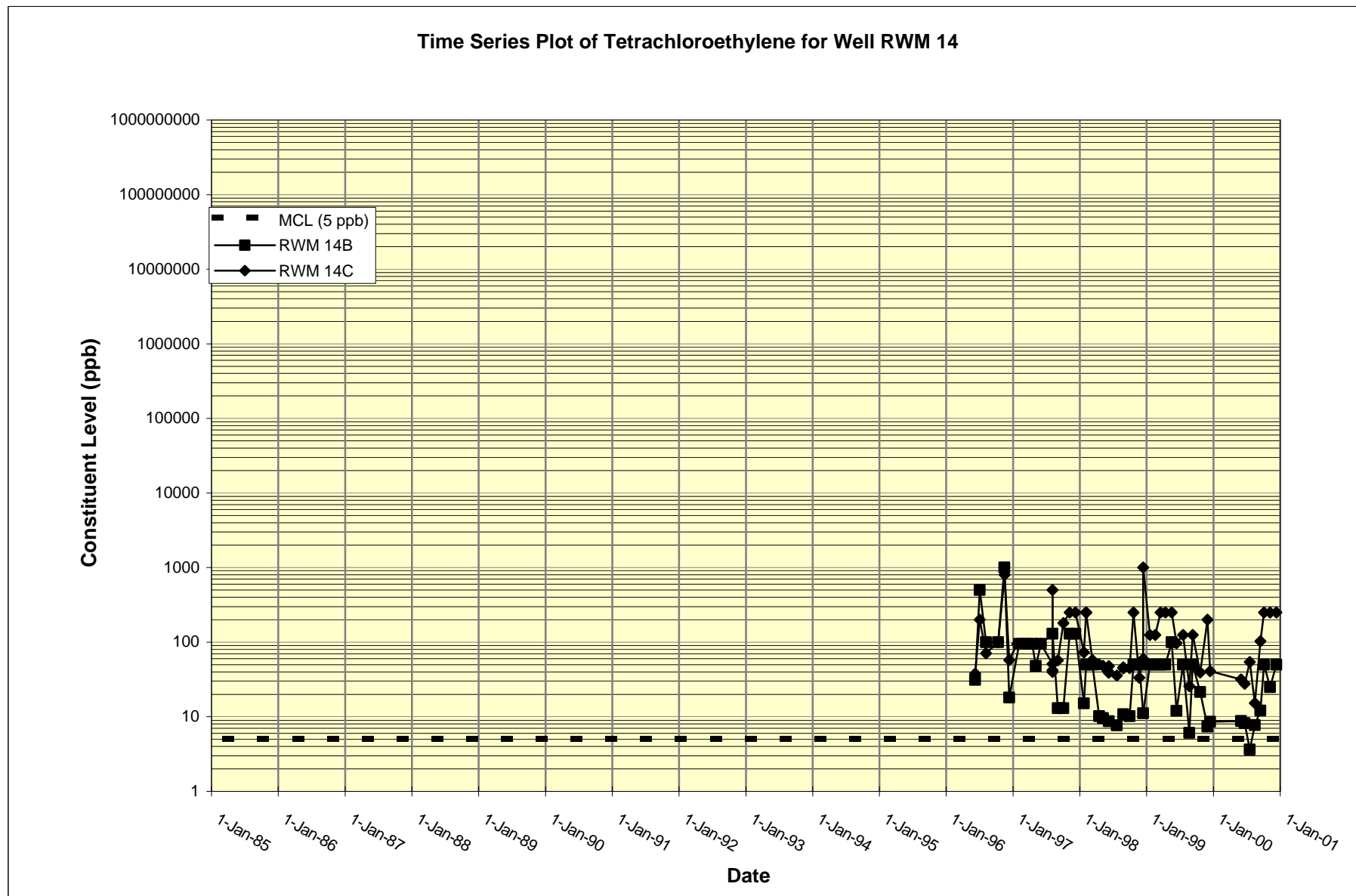


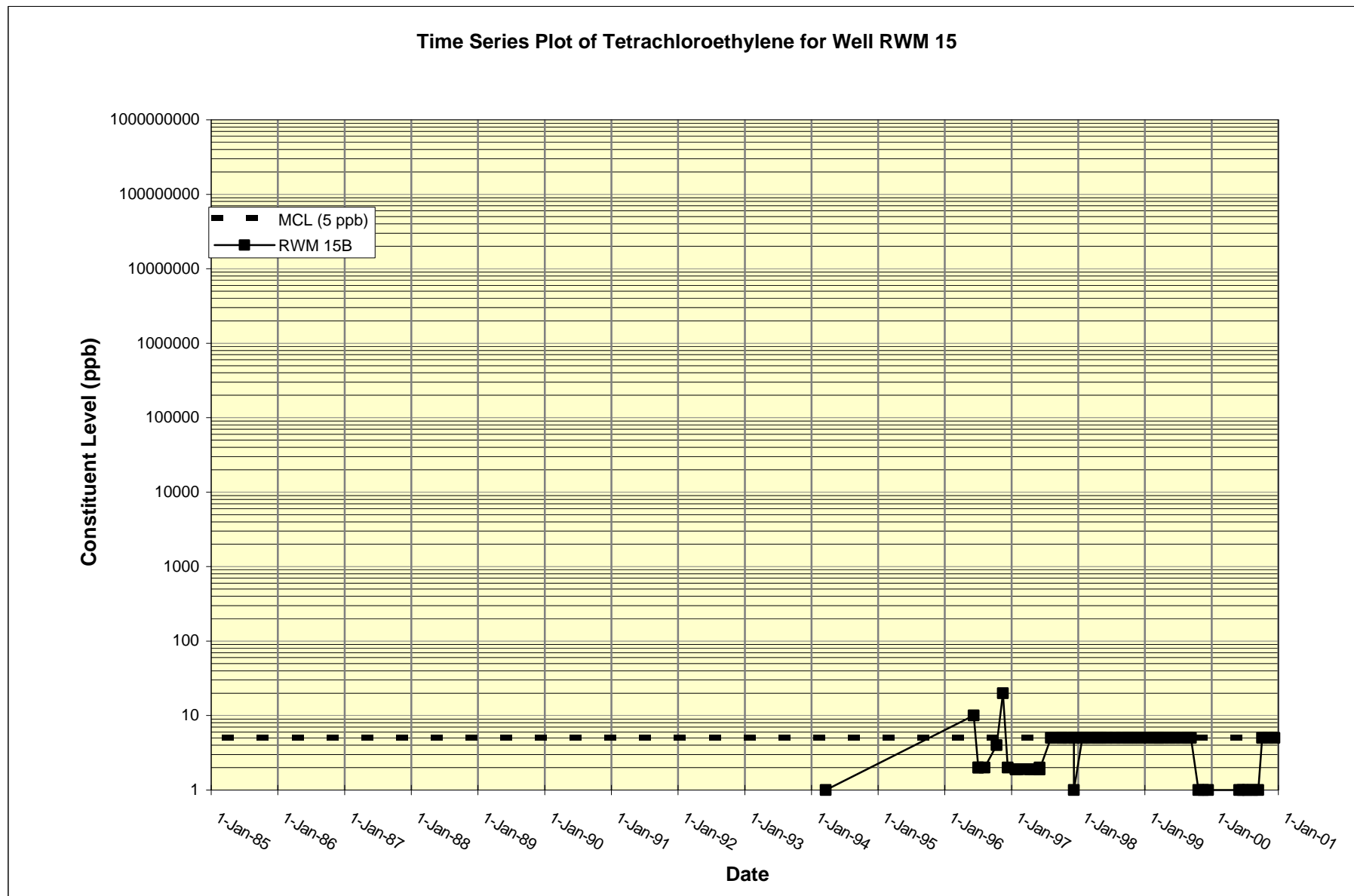


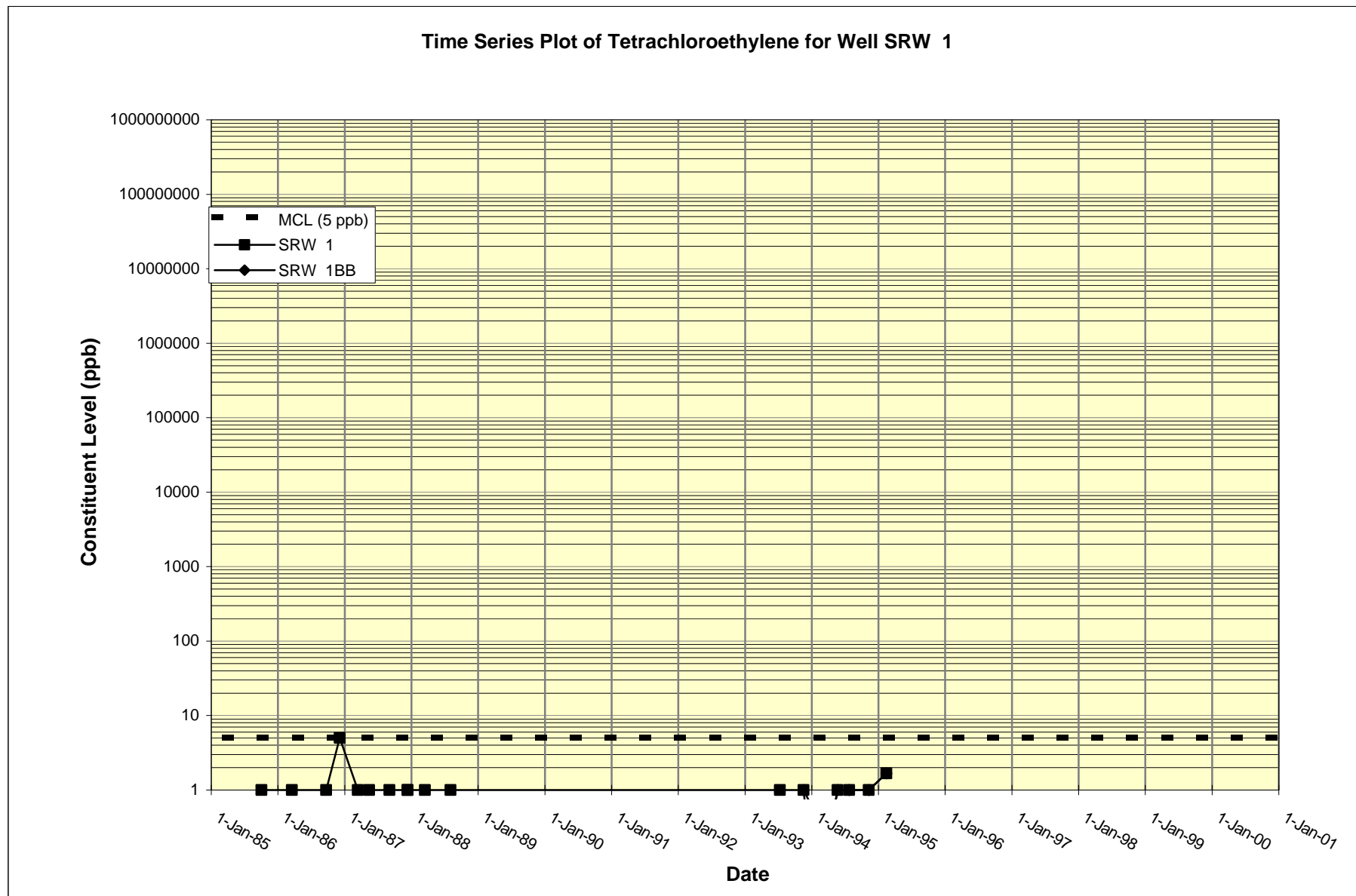


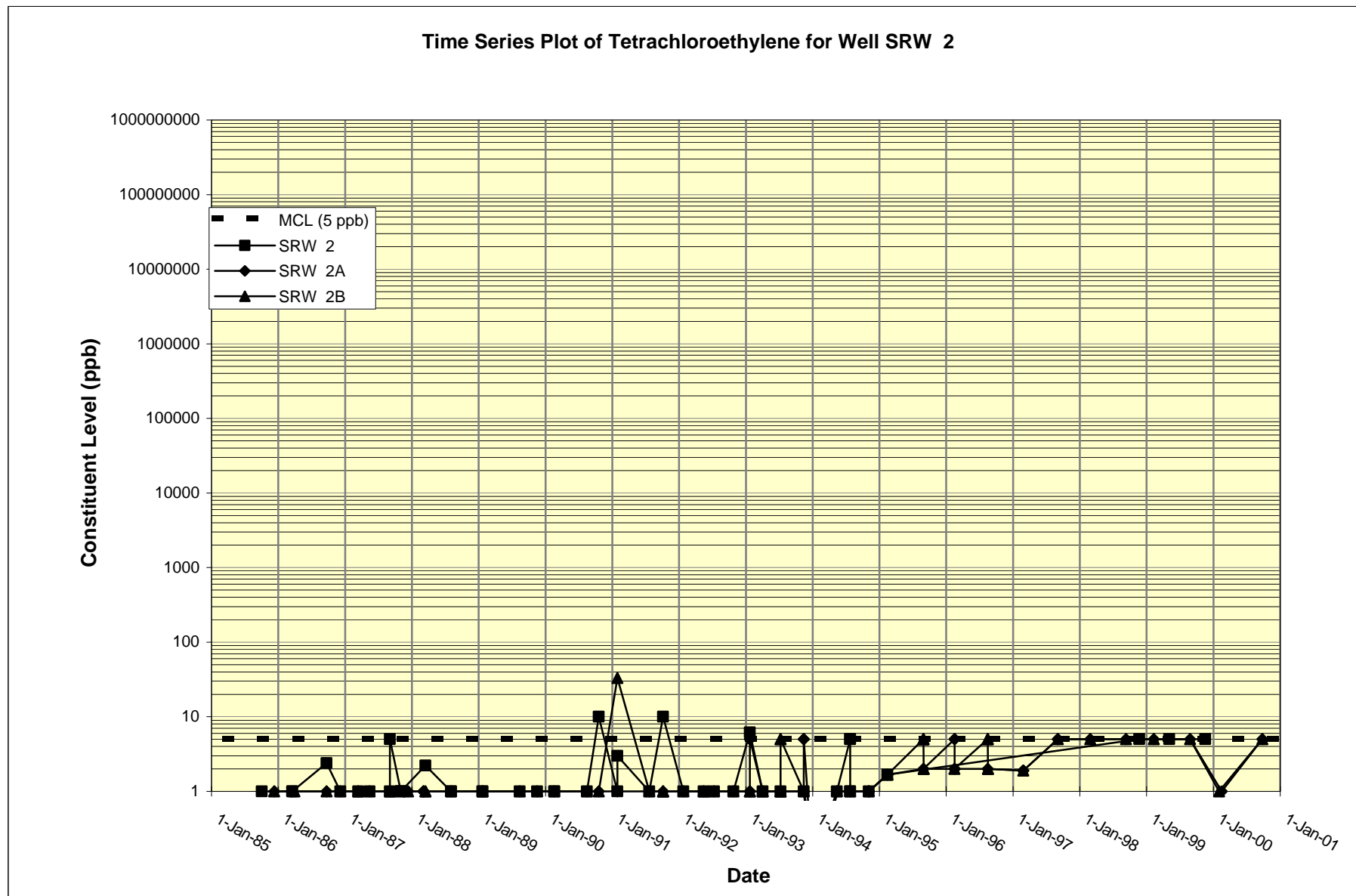


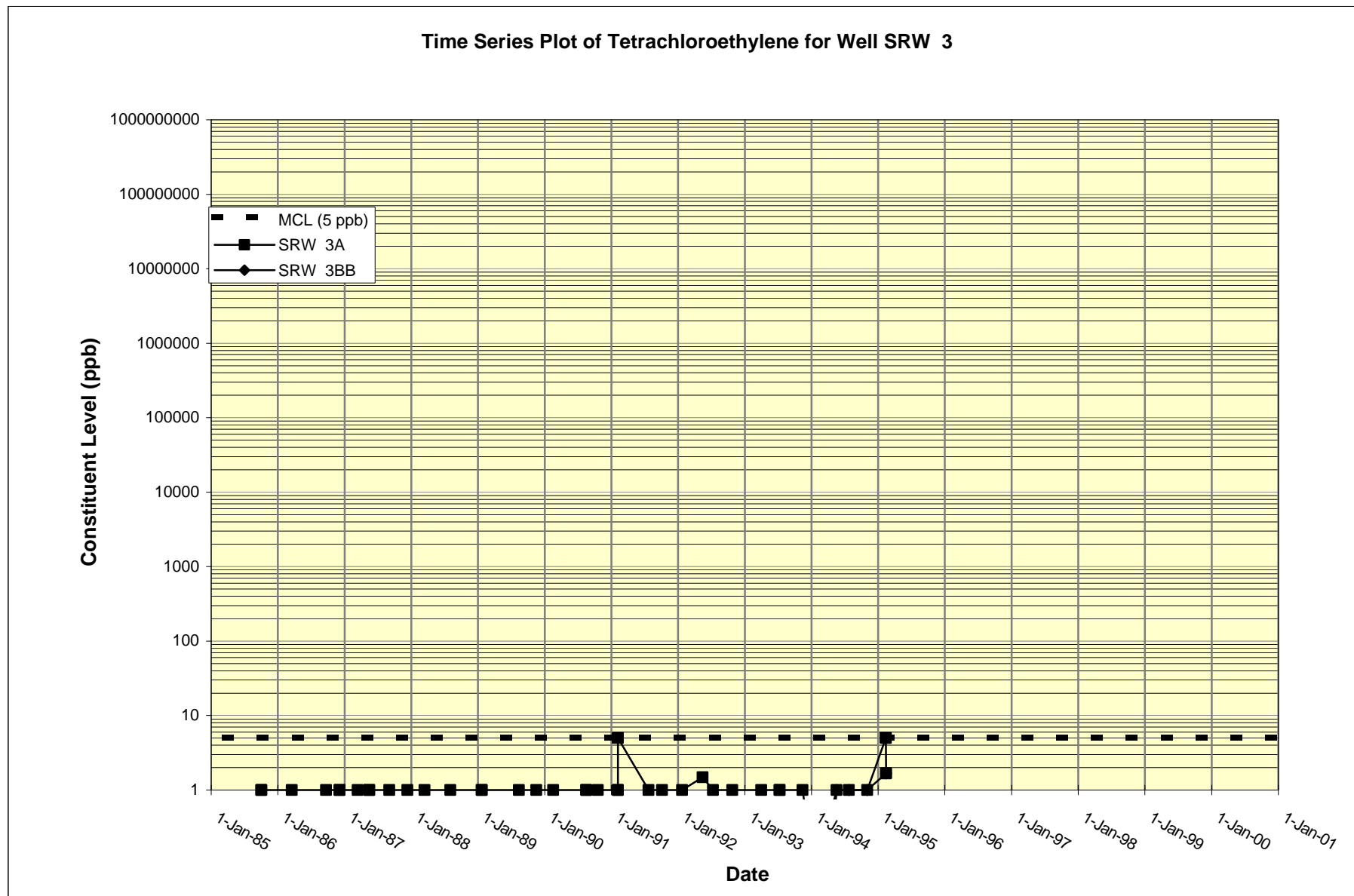


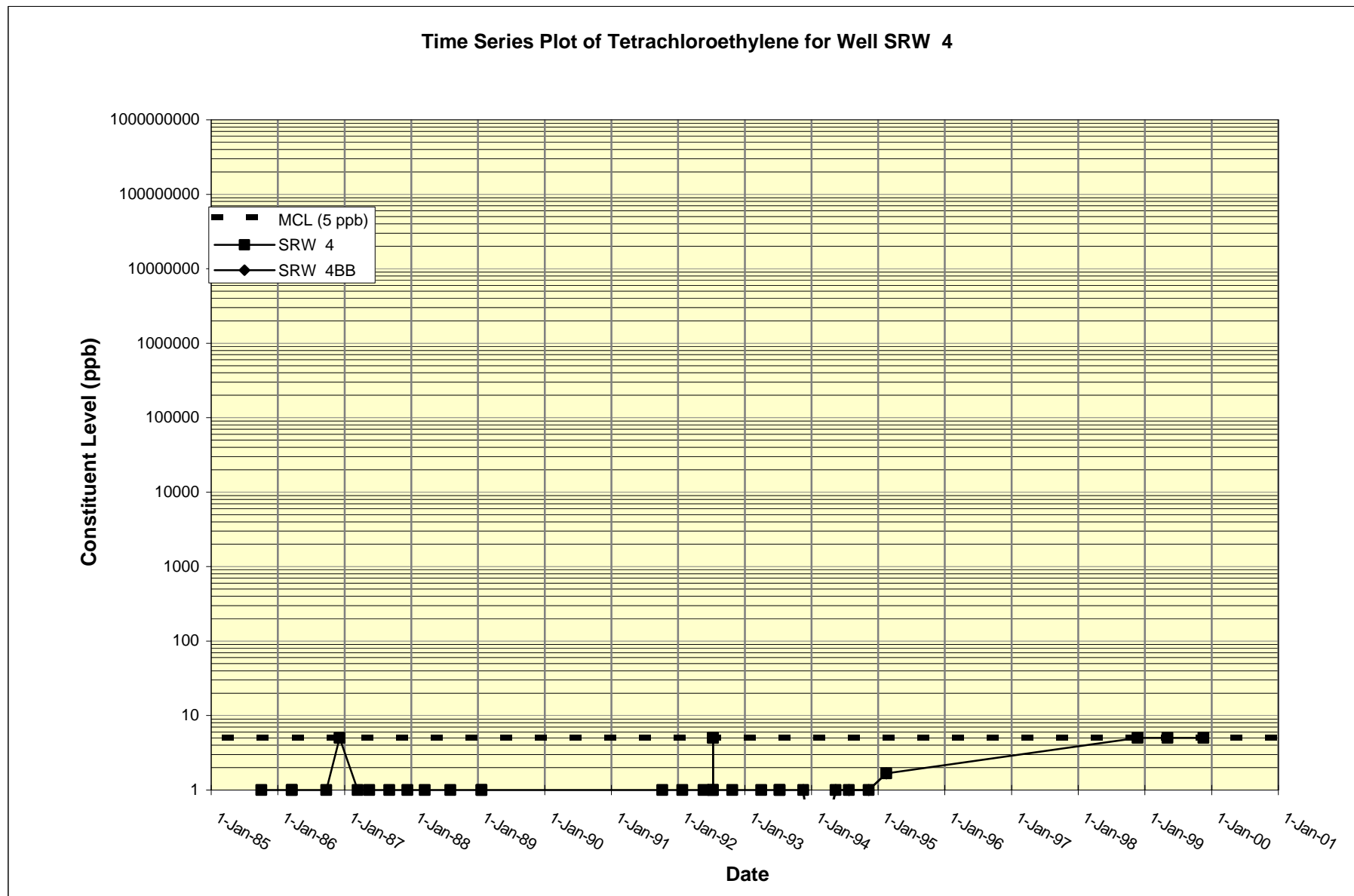


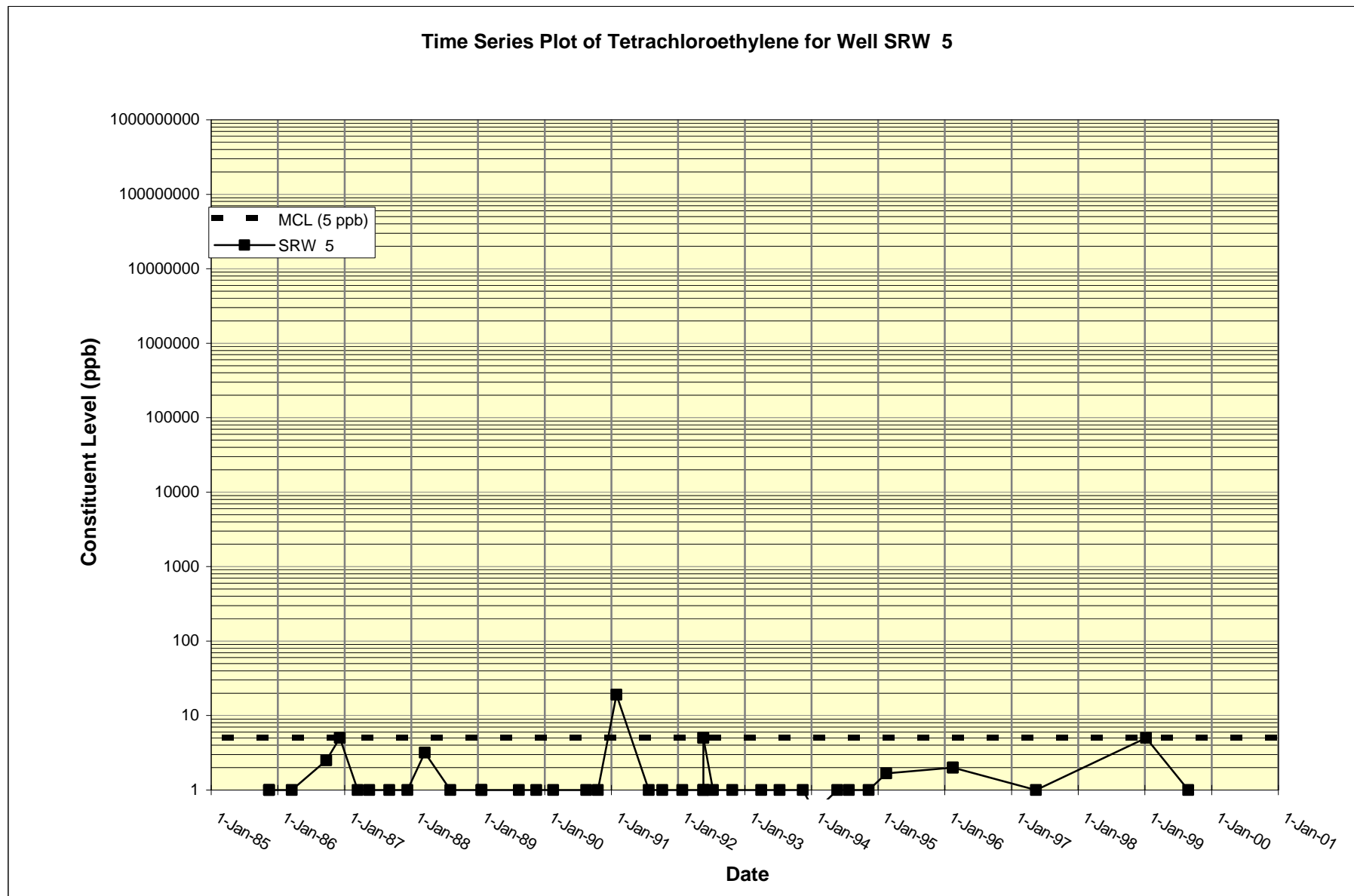


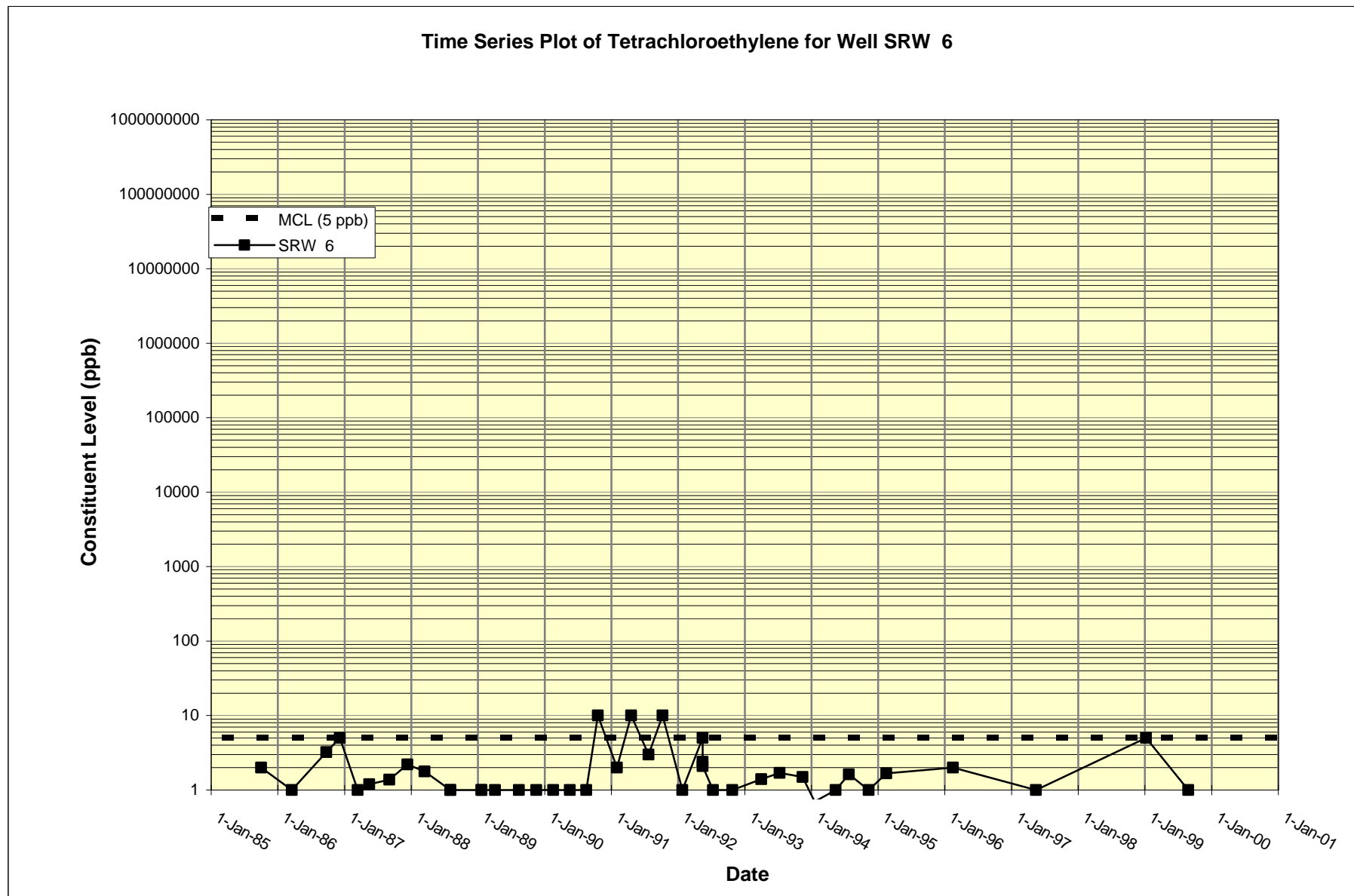


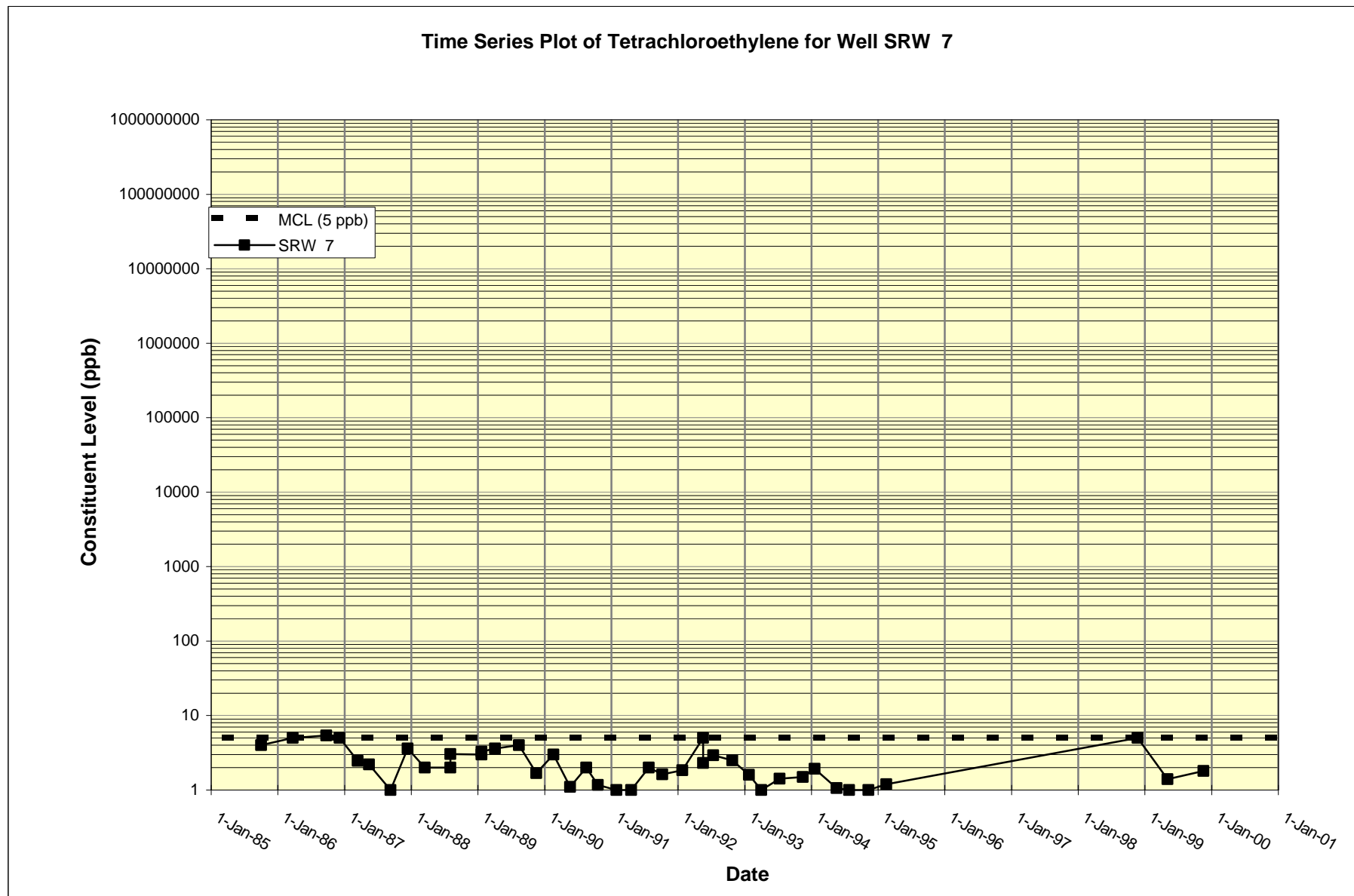


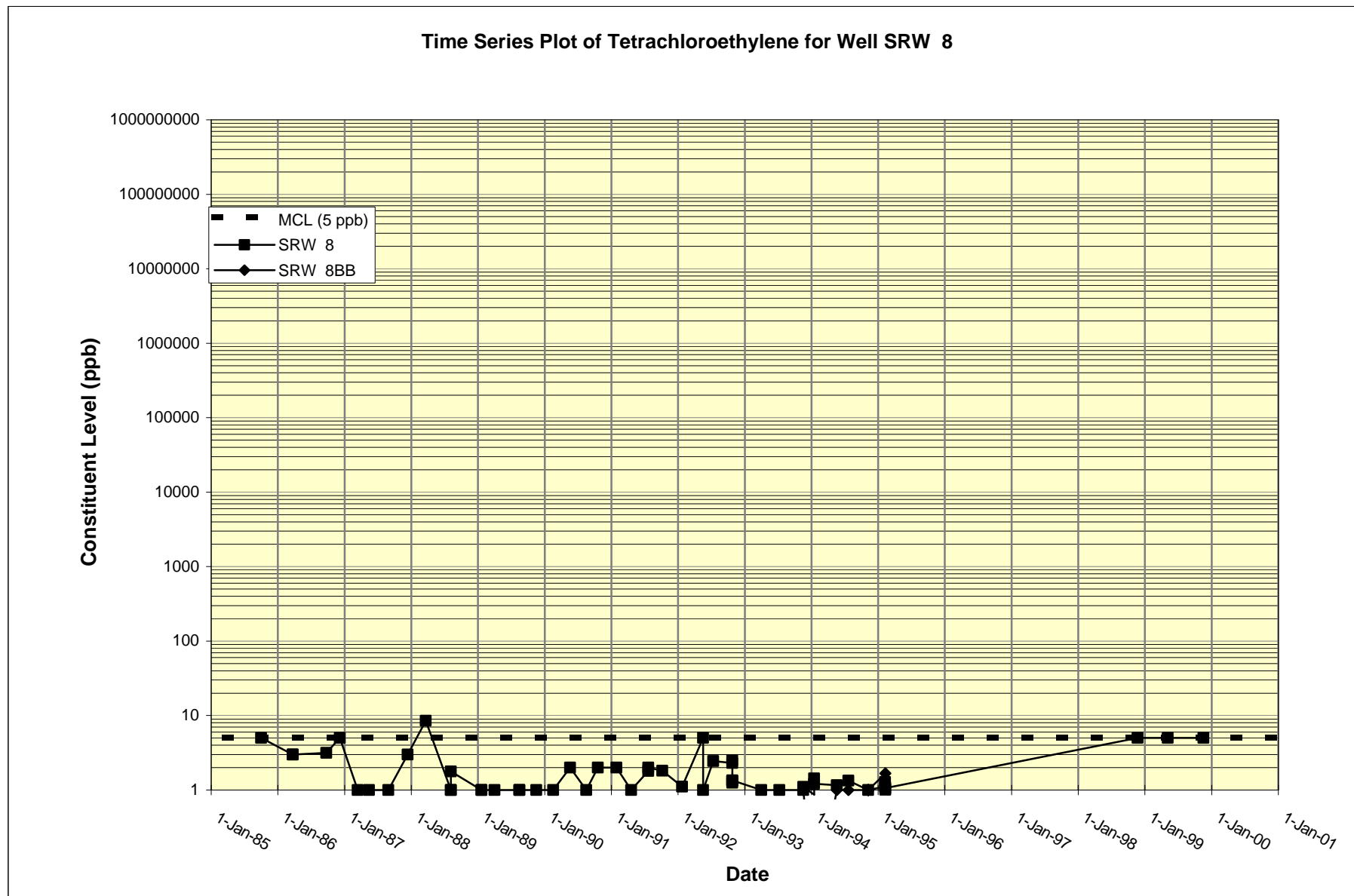


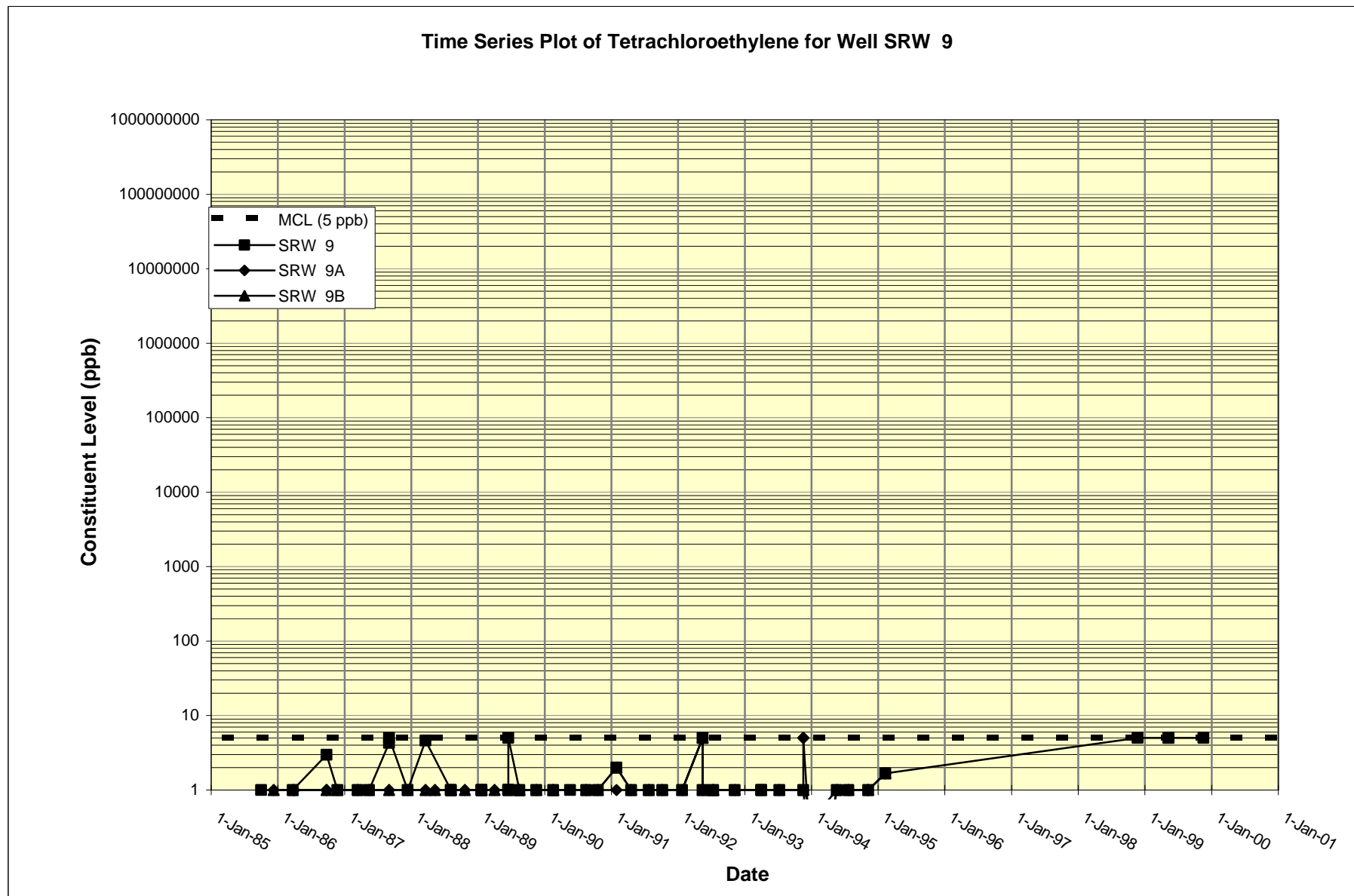


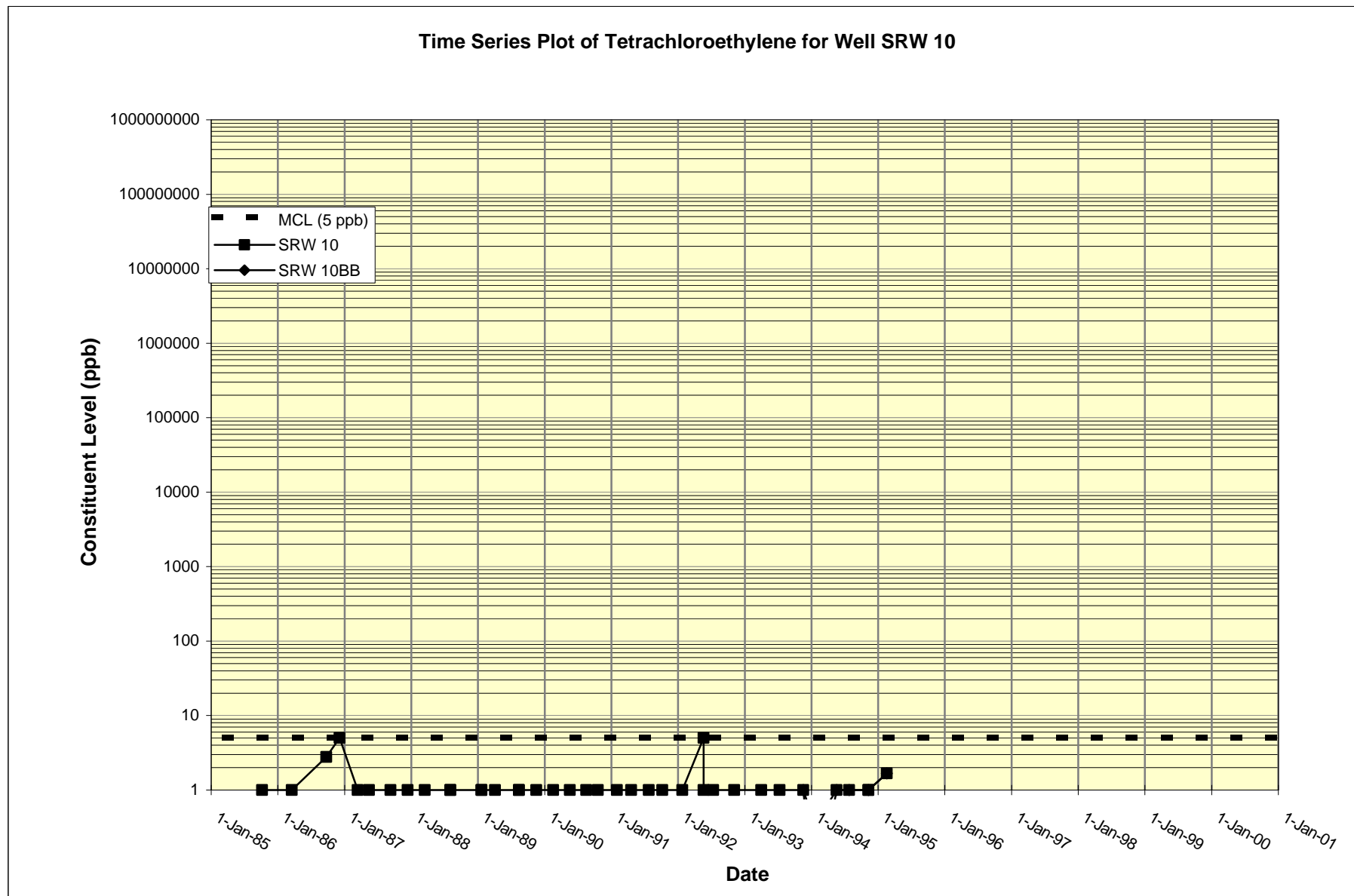


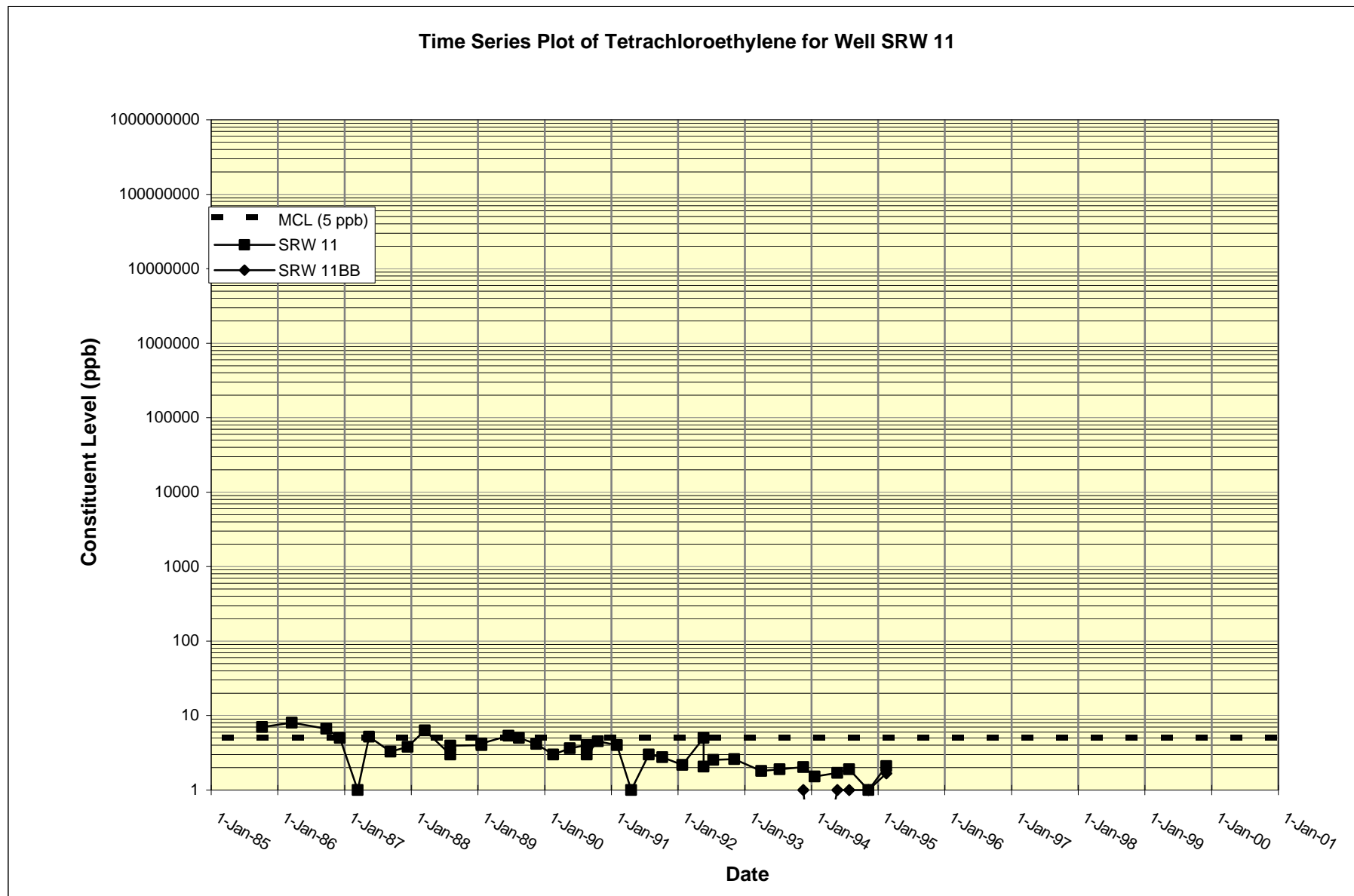


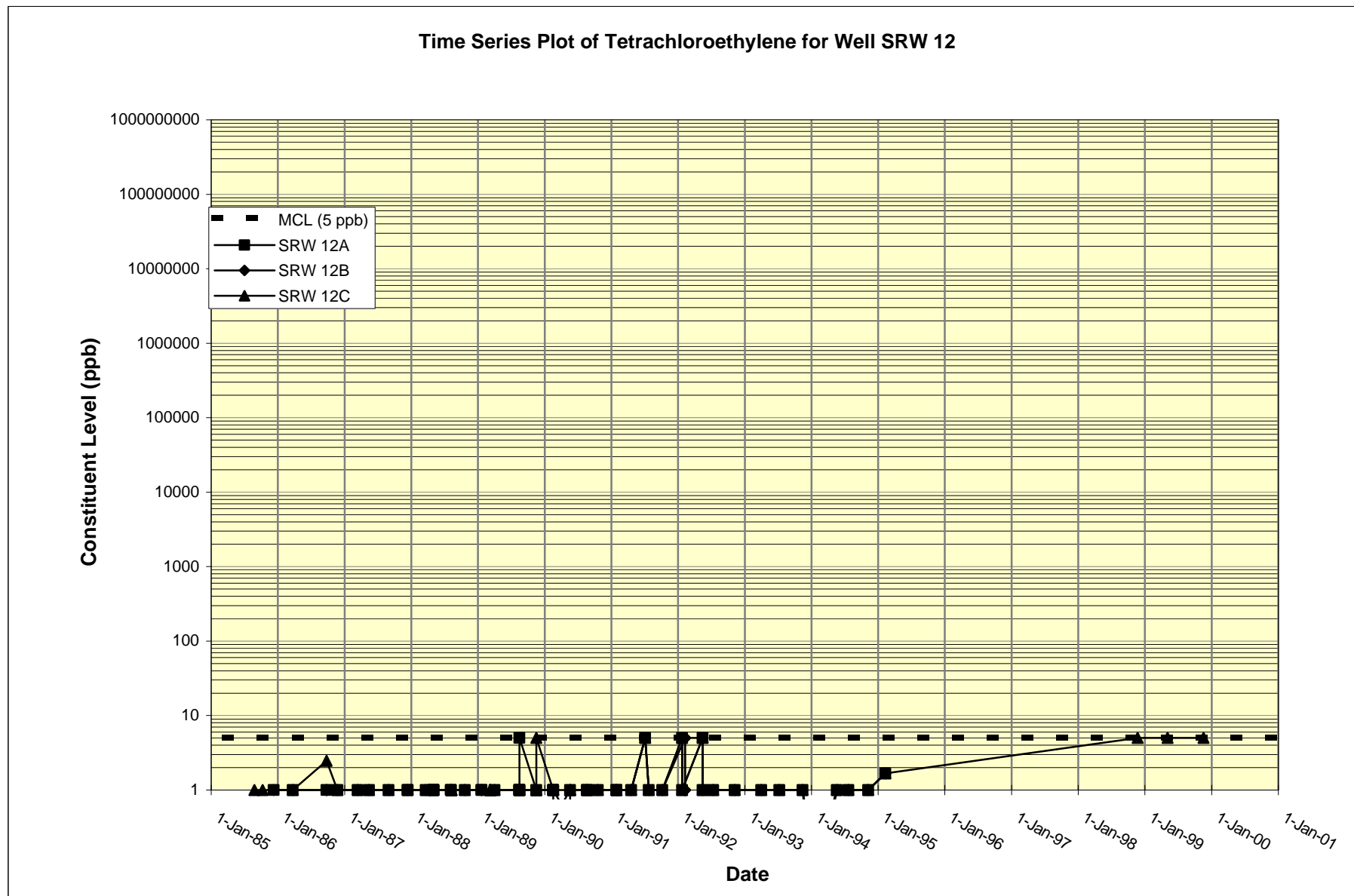


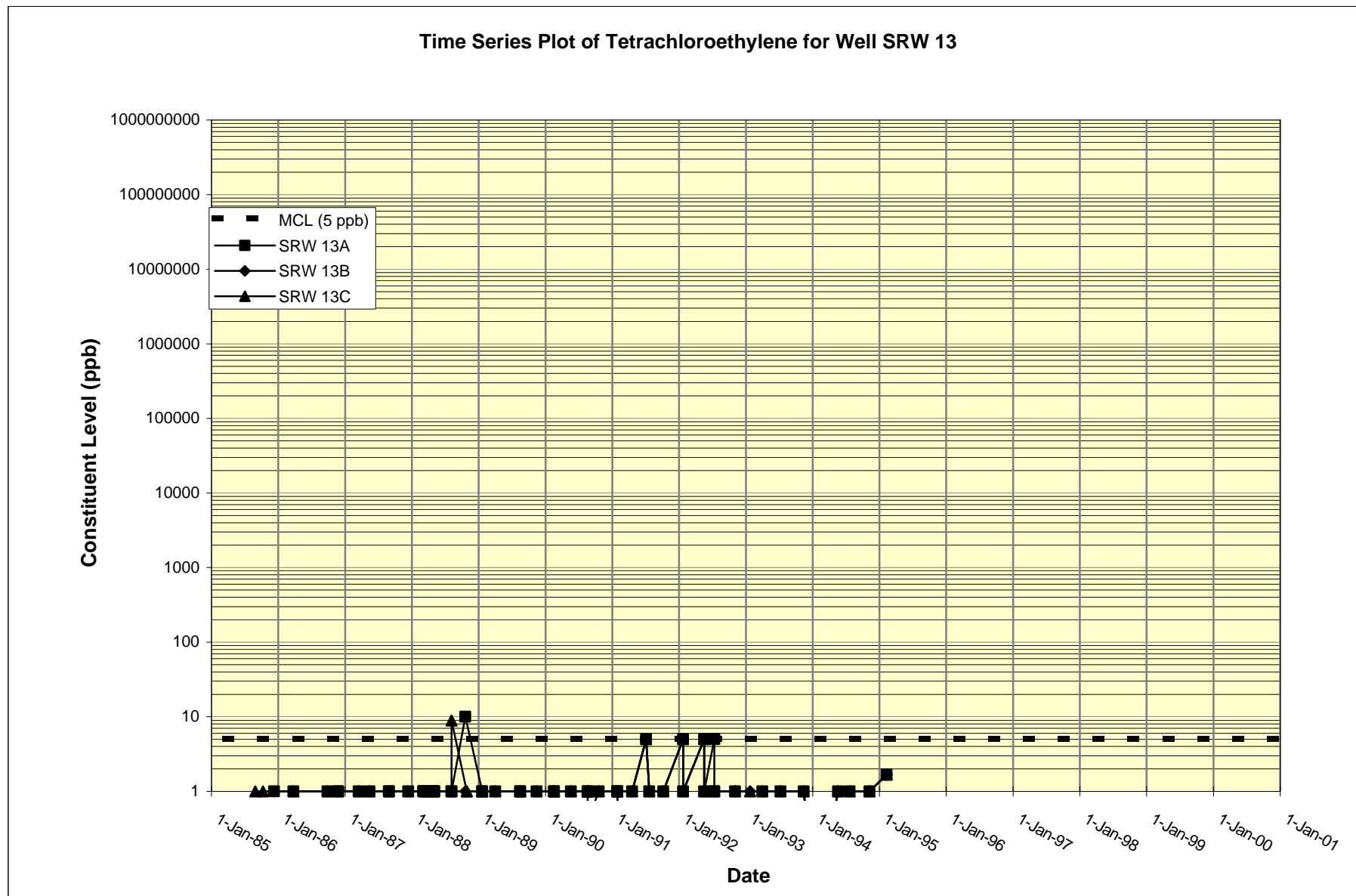


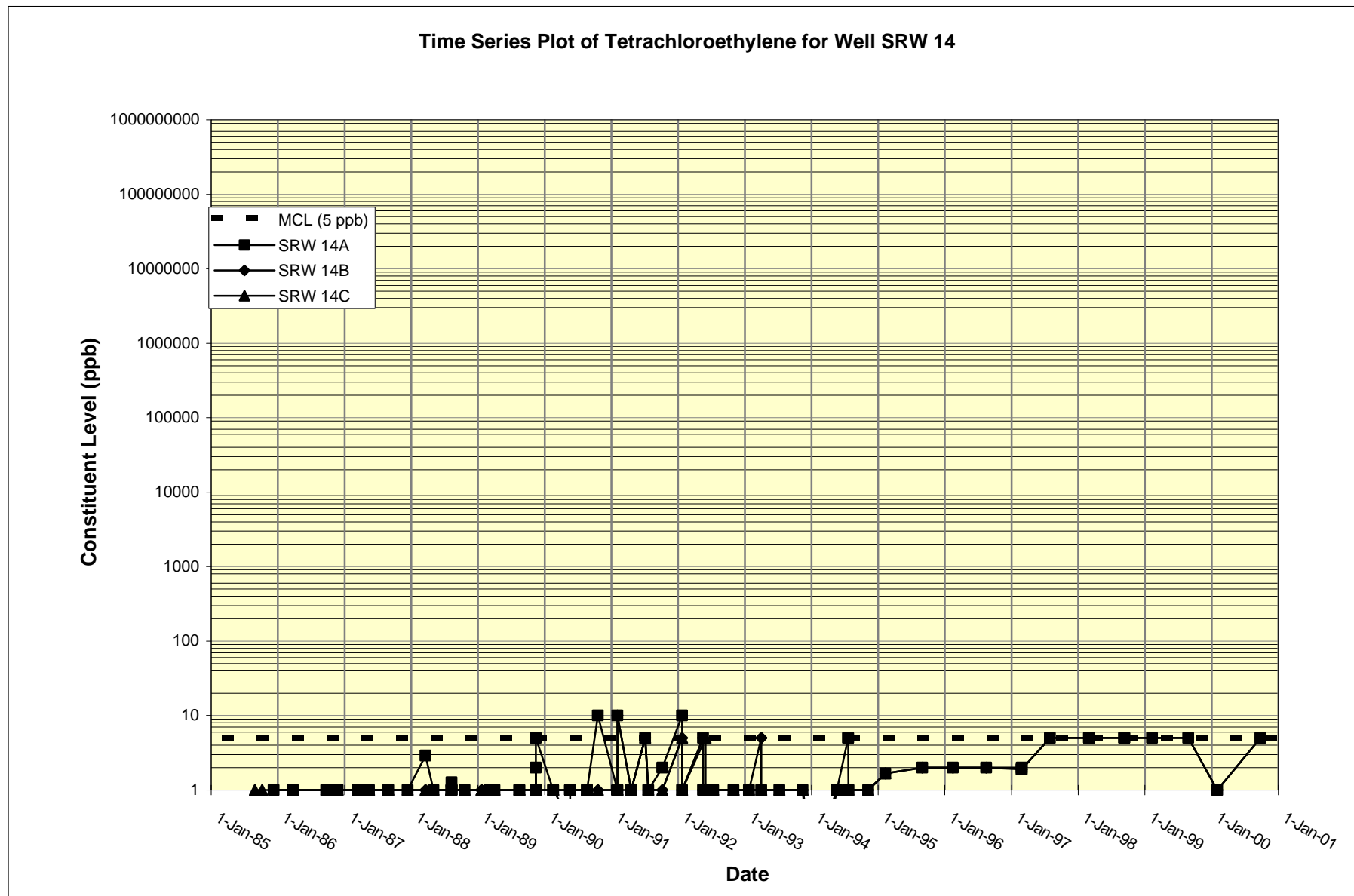


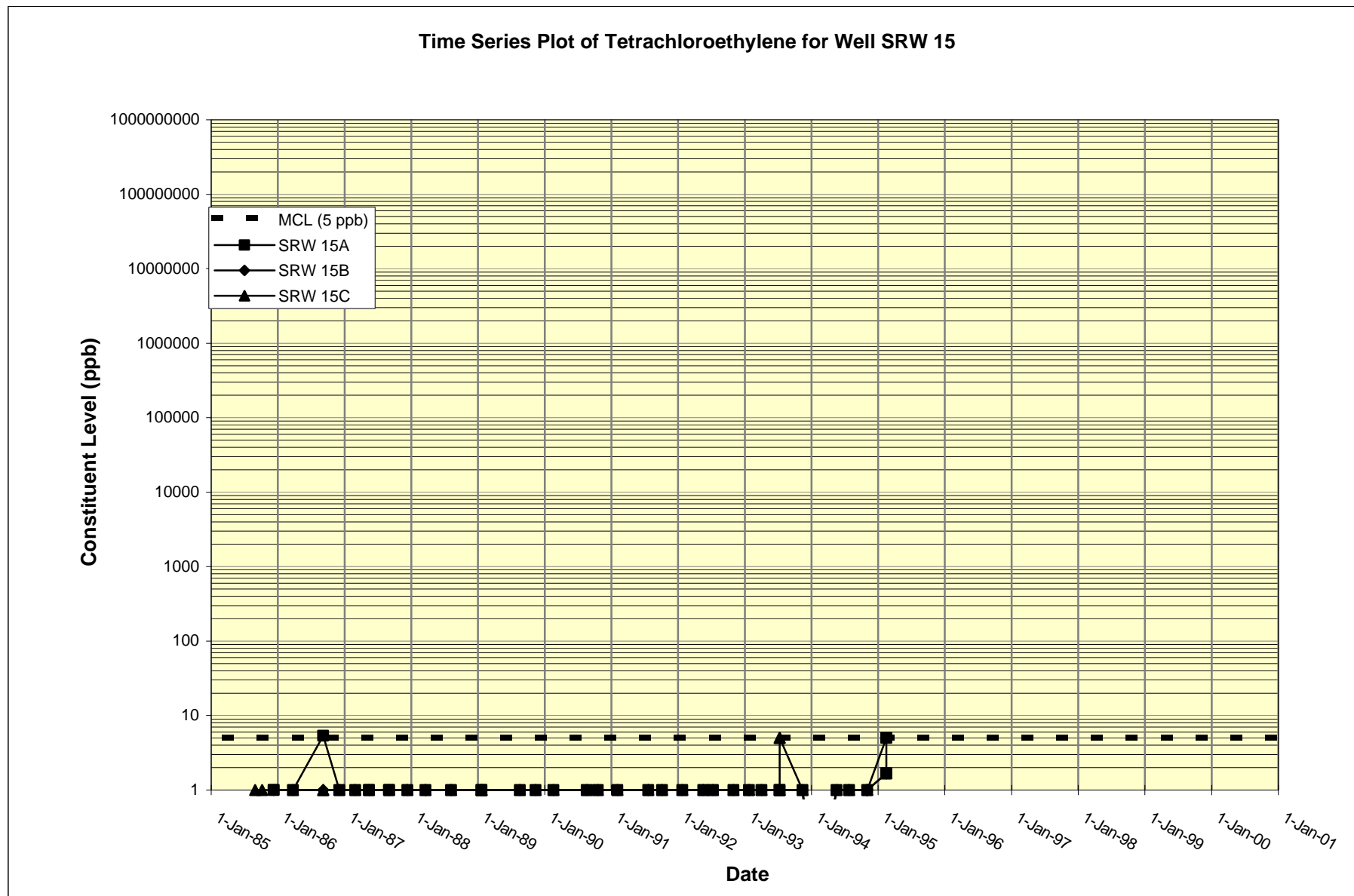


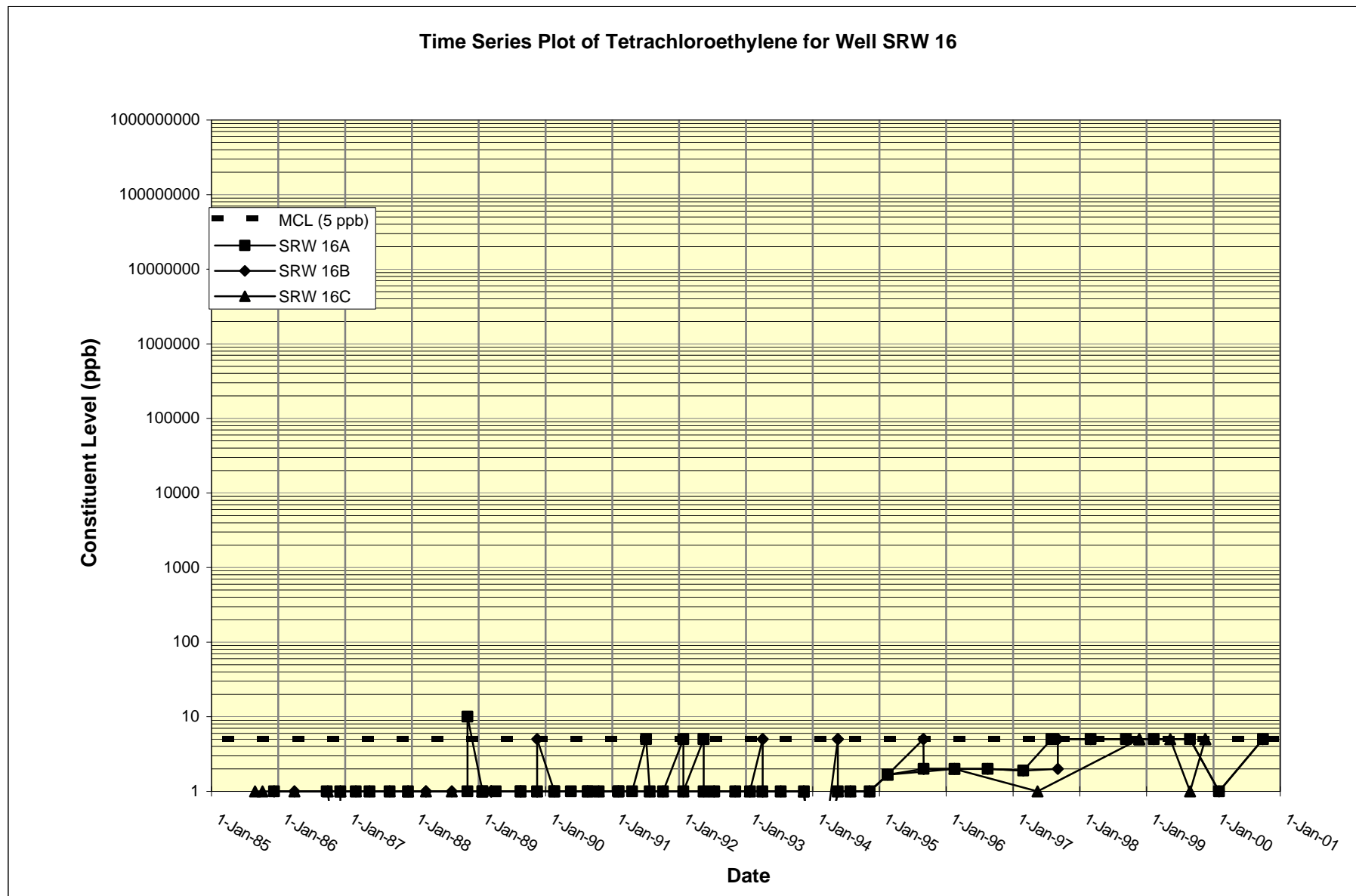


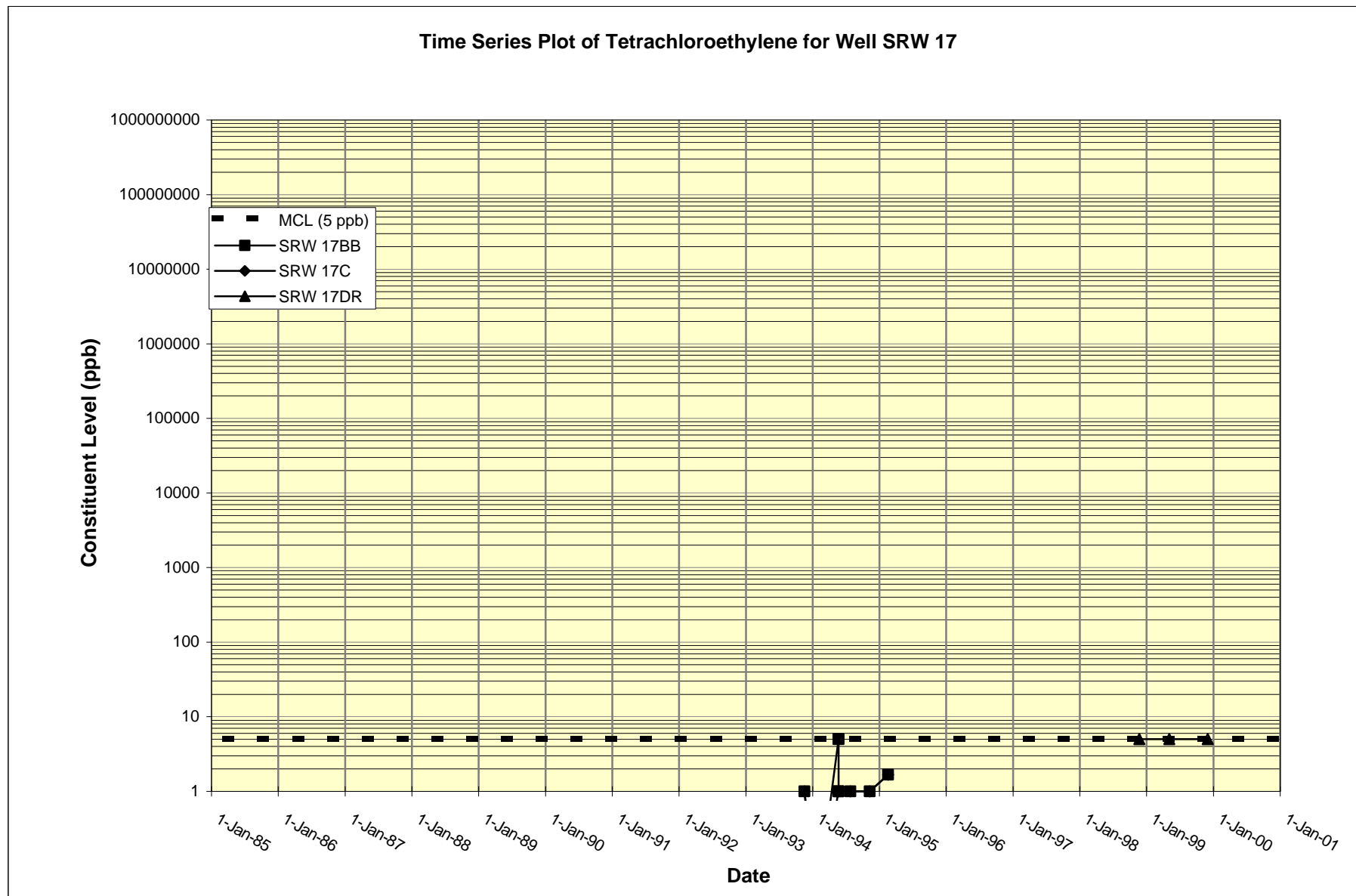


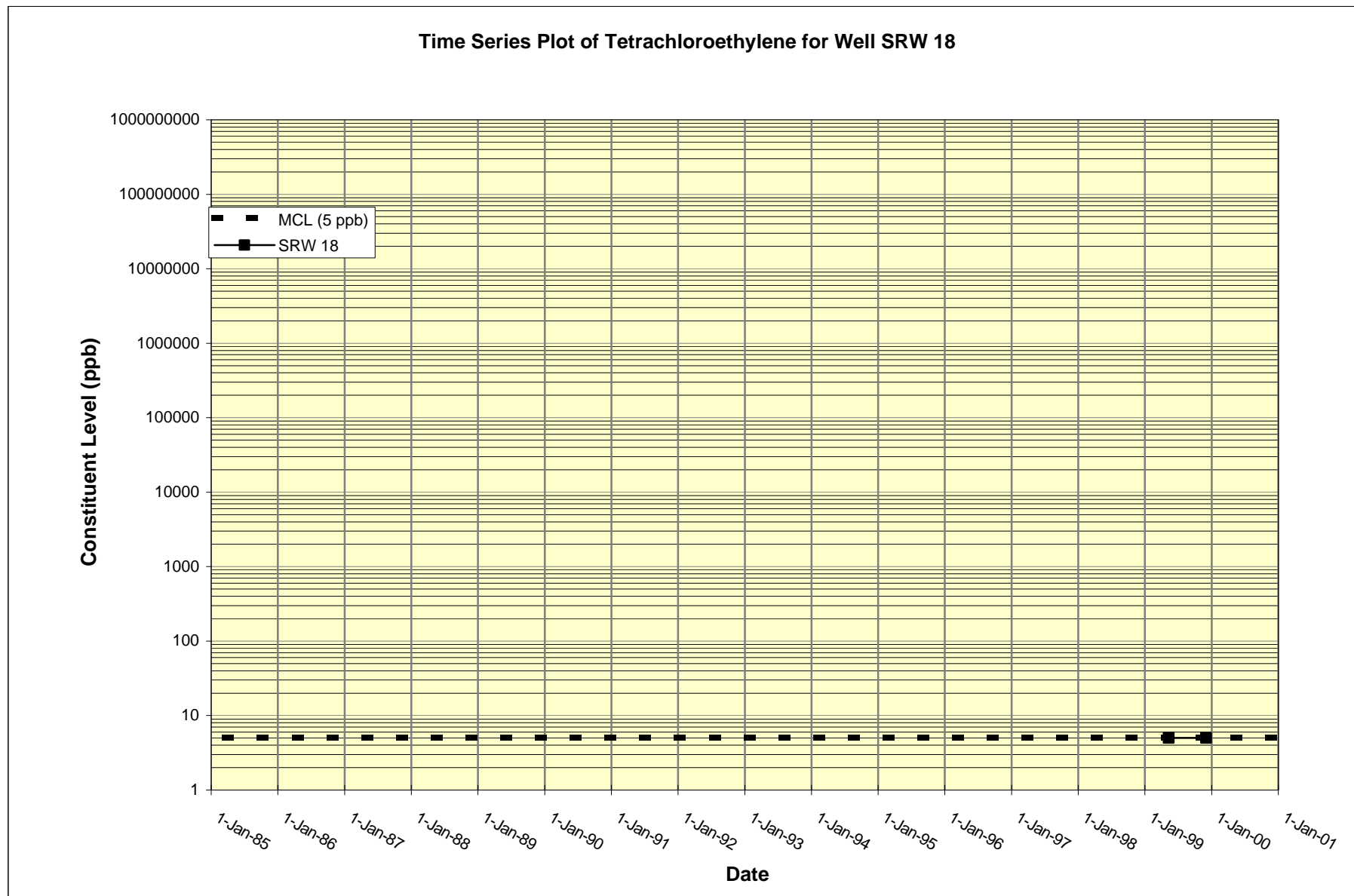


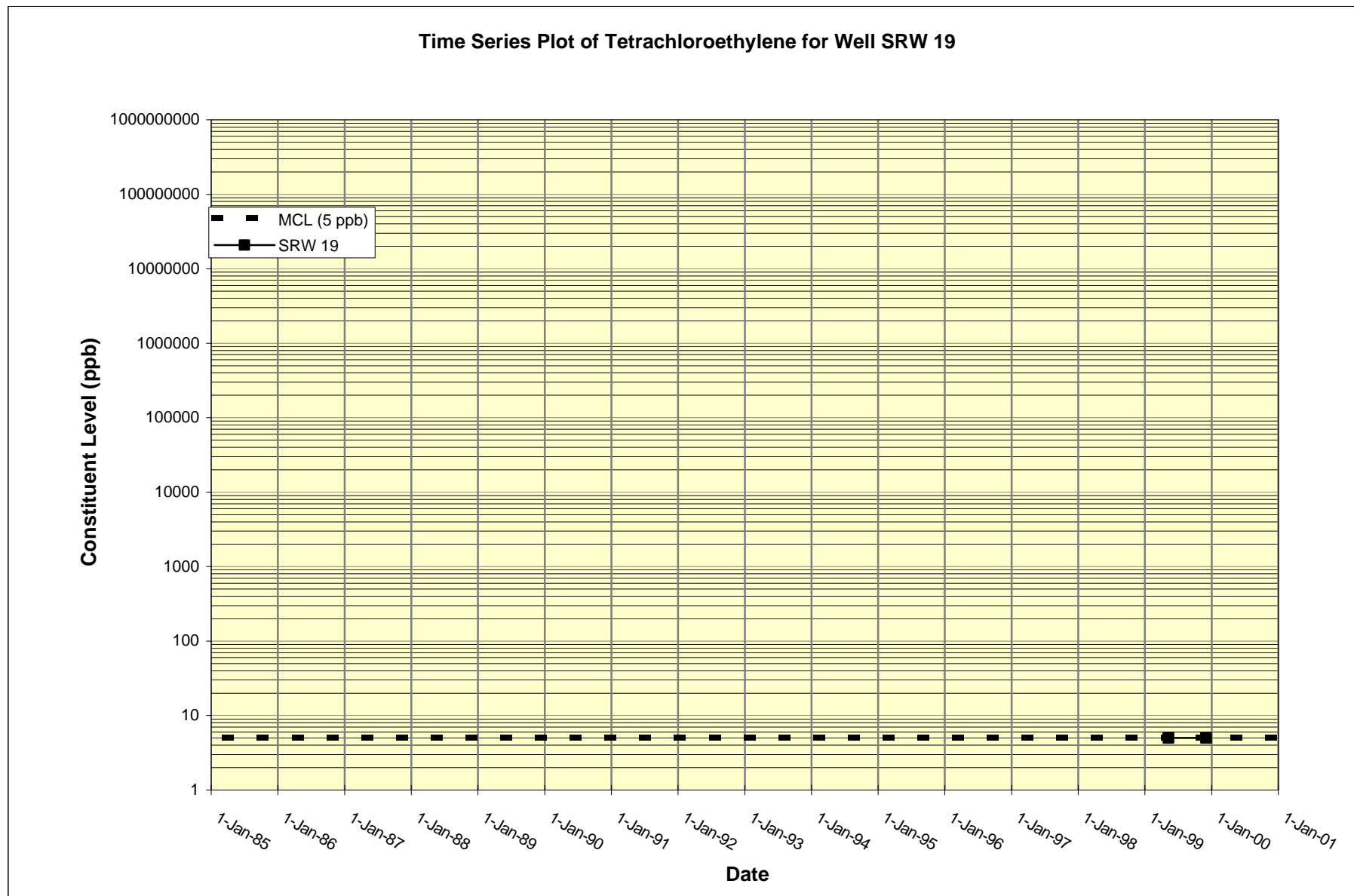








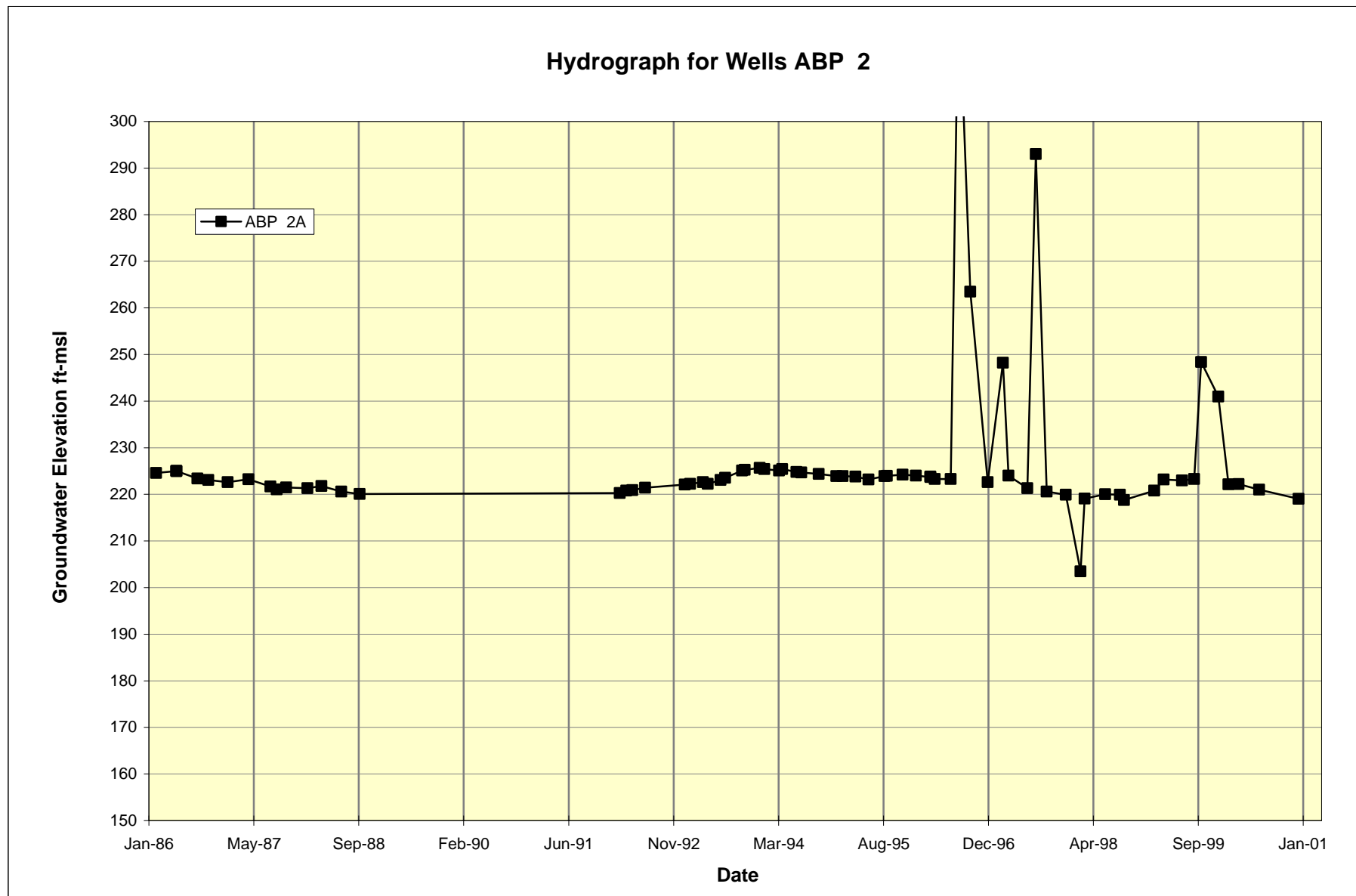


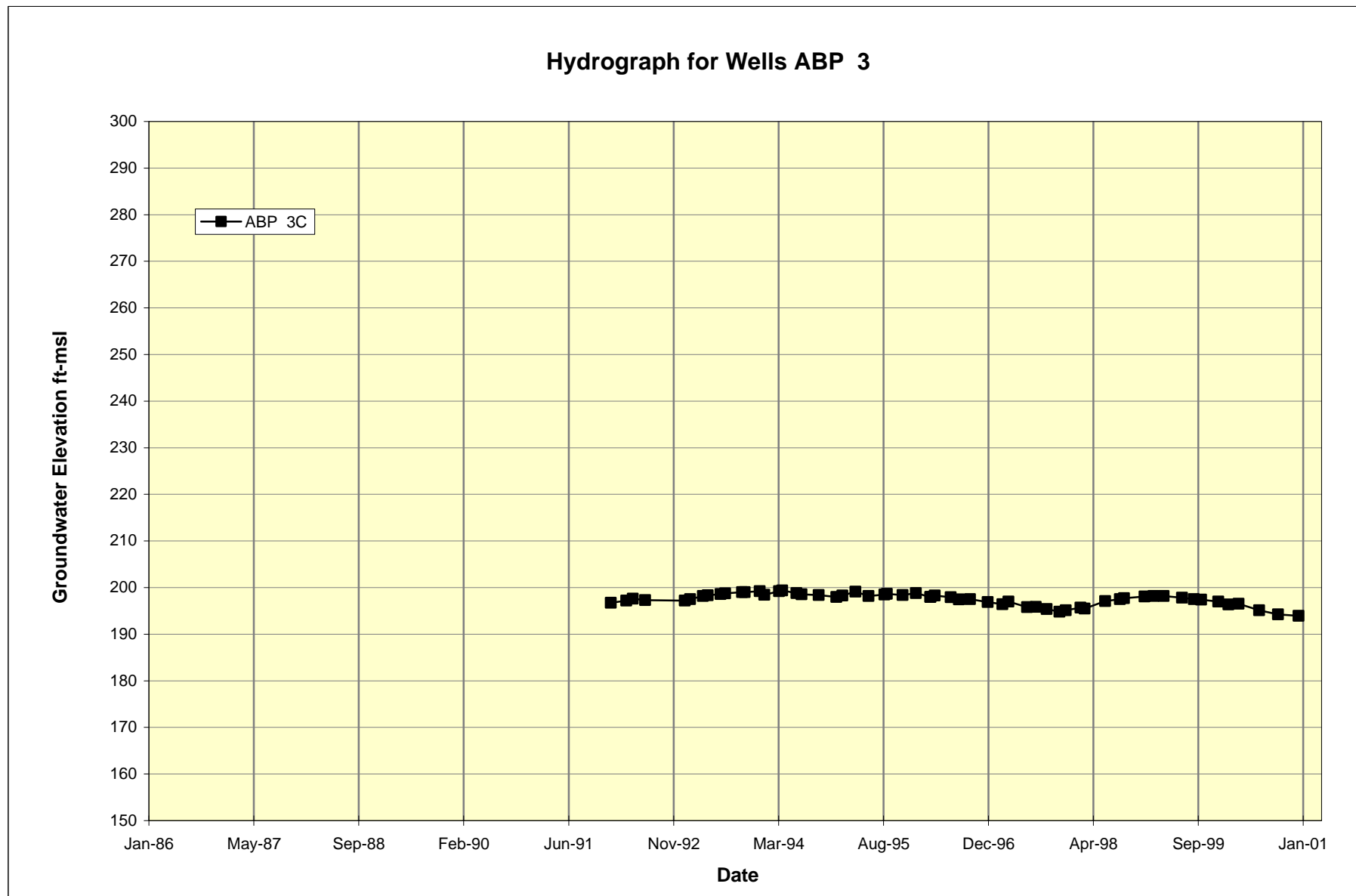


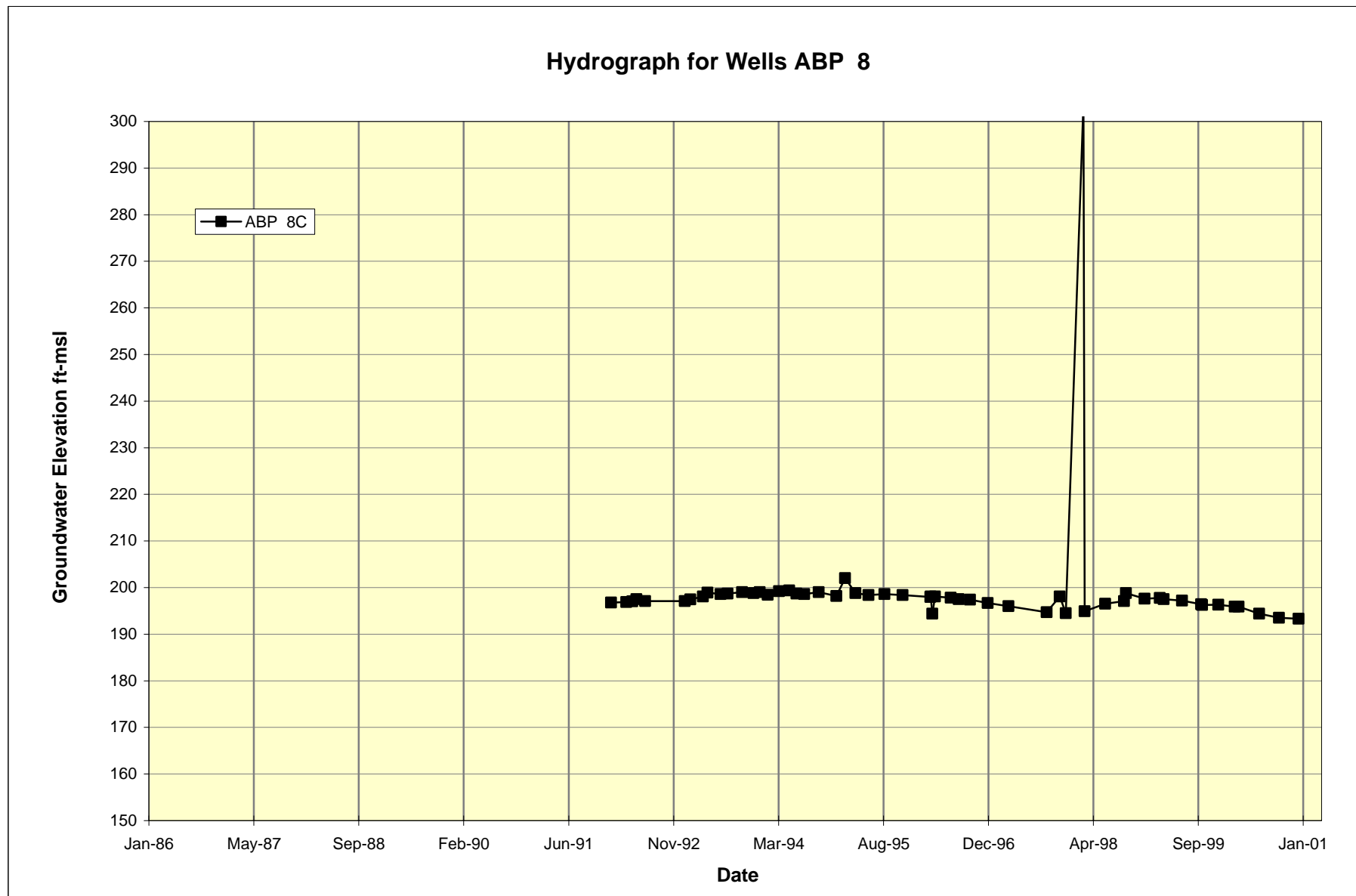
Appendix G

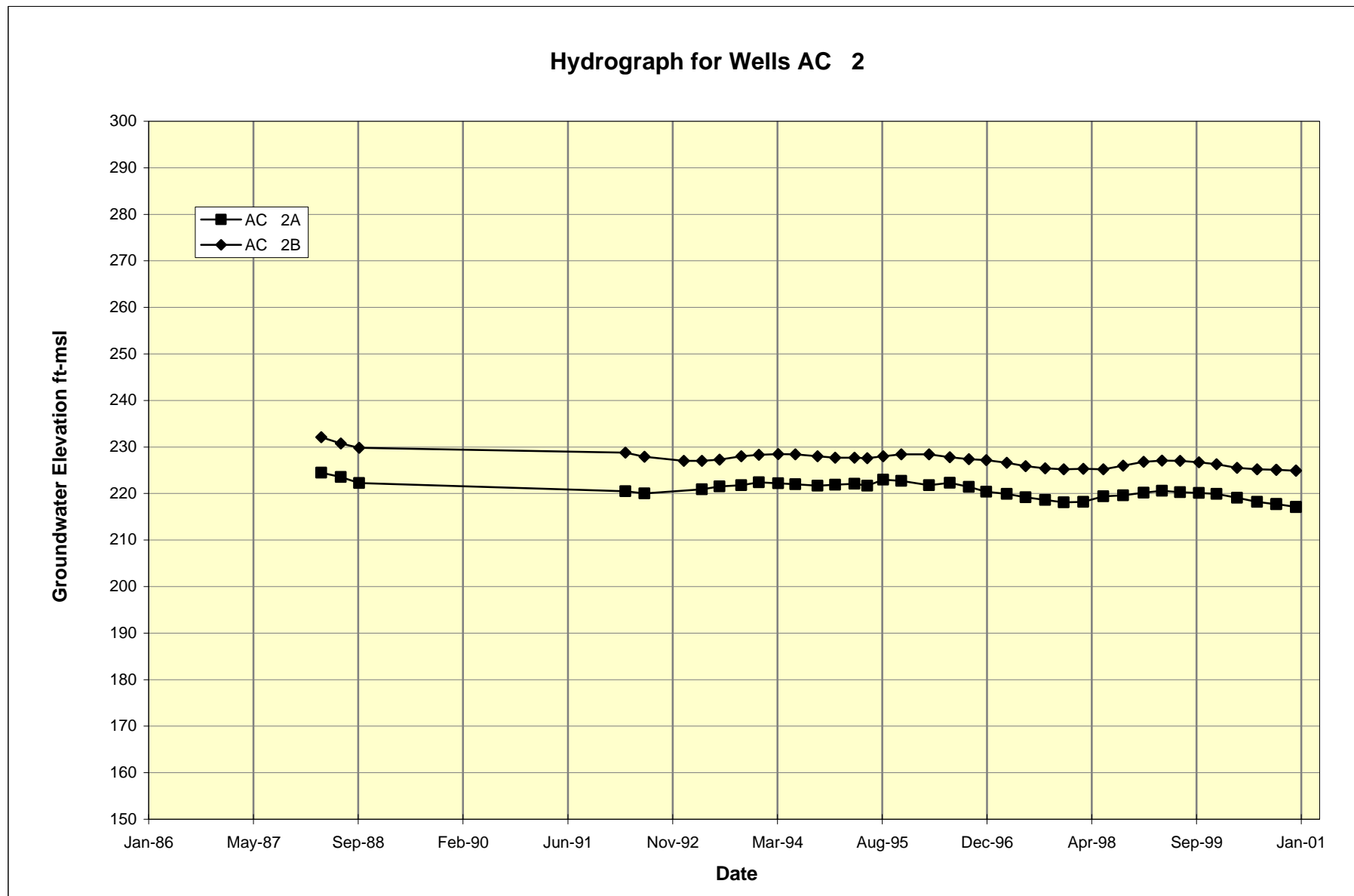
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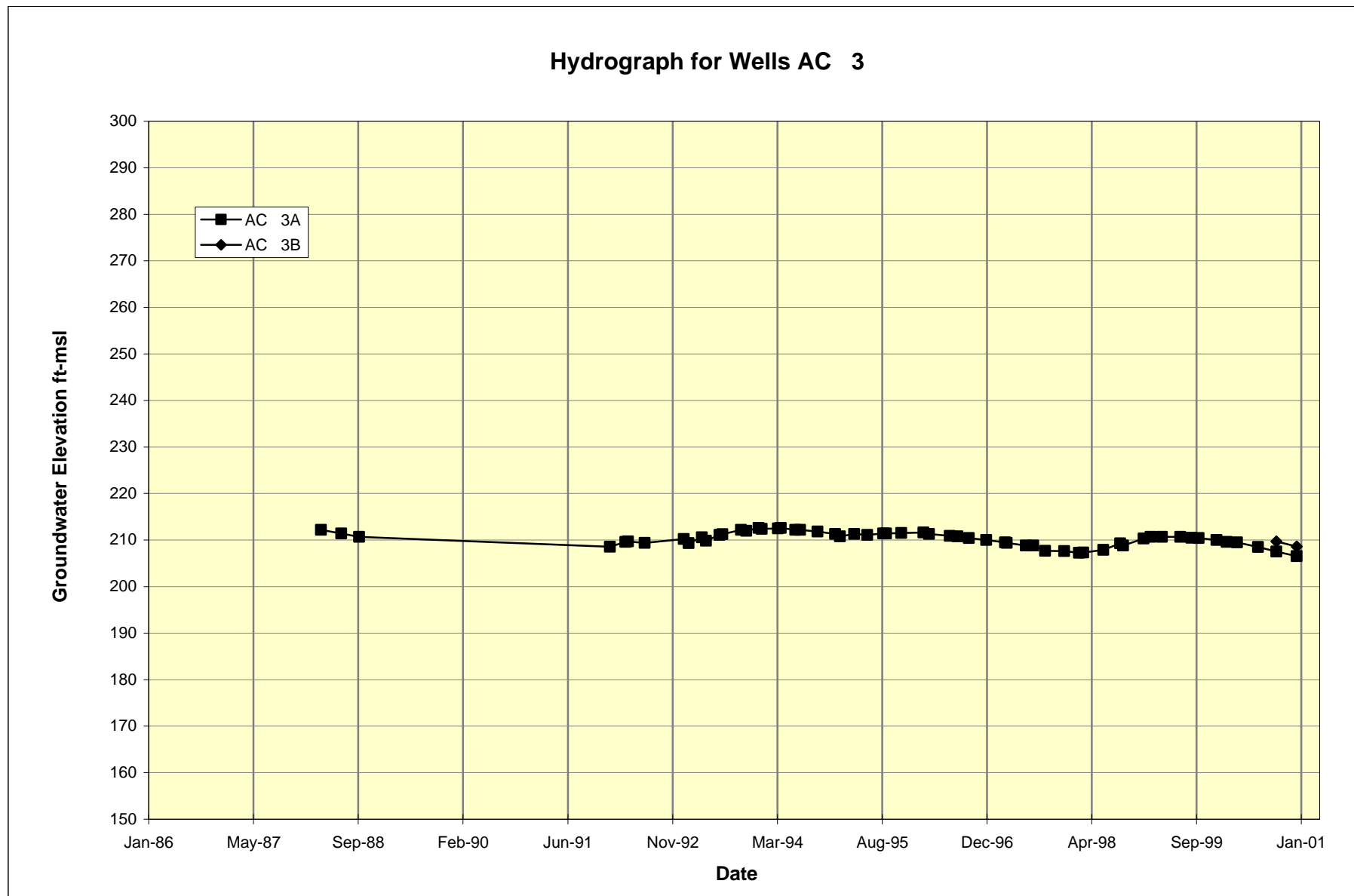
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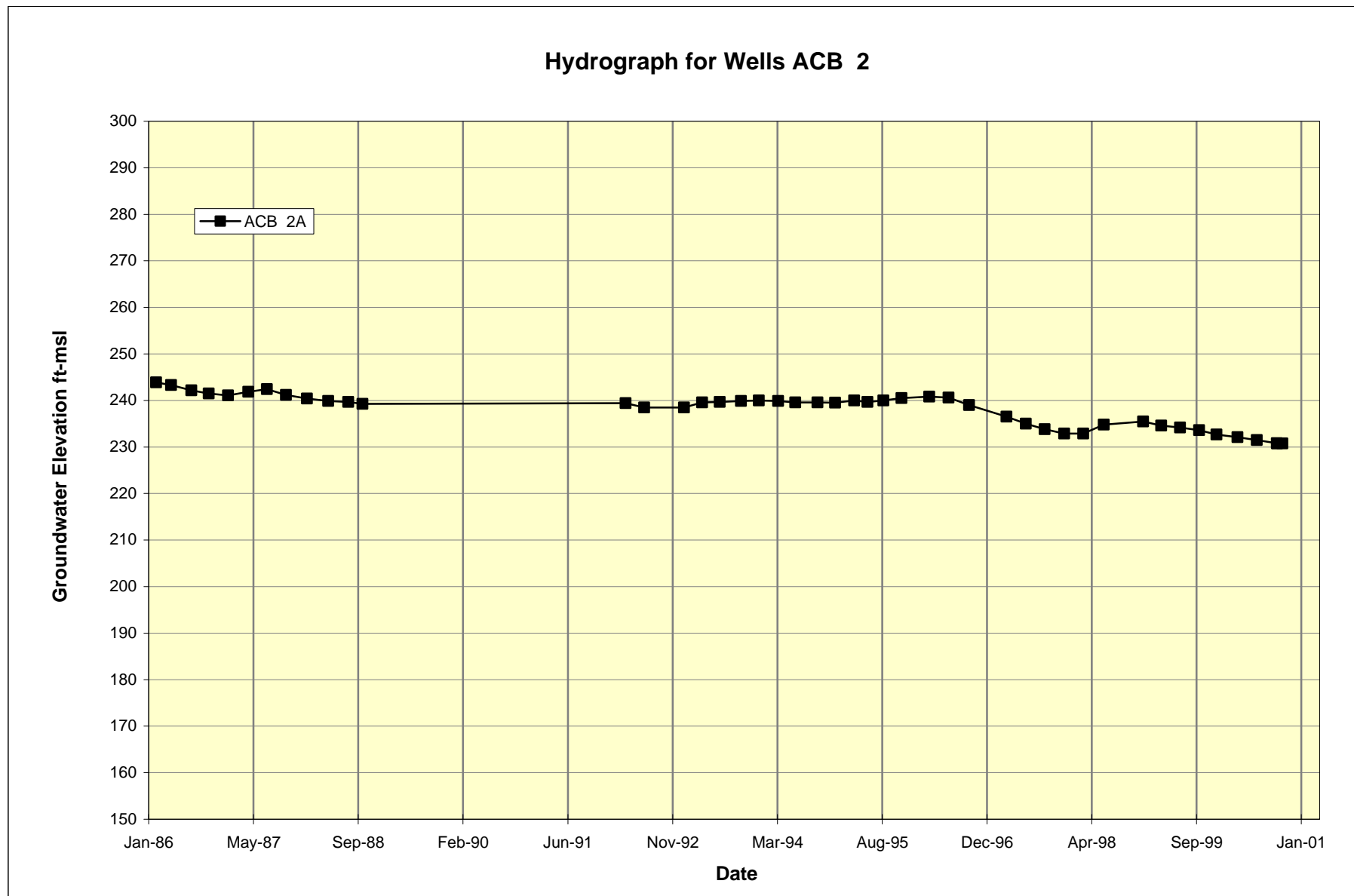


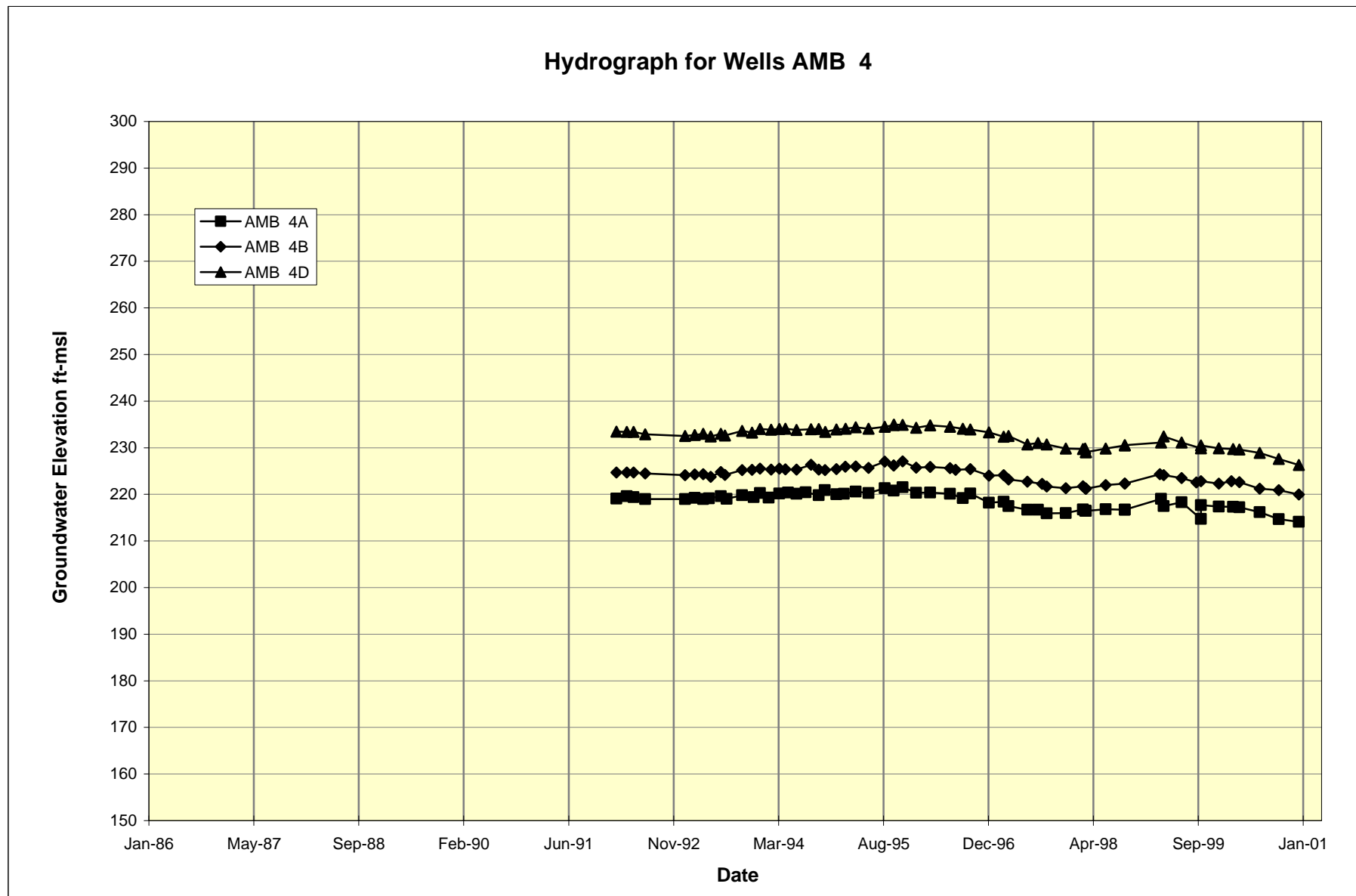


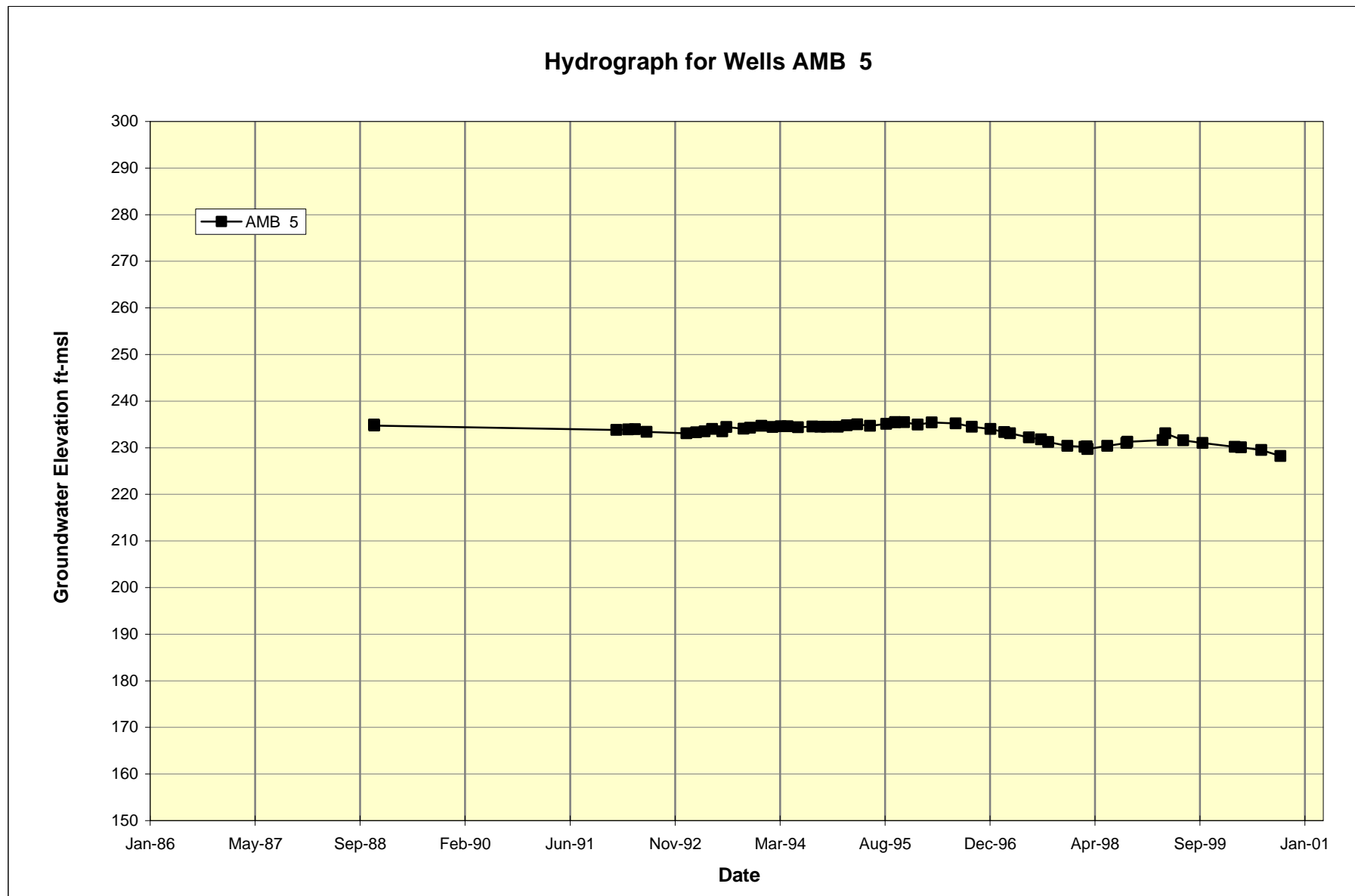


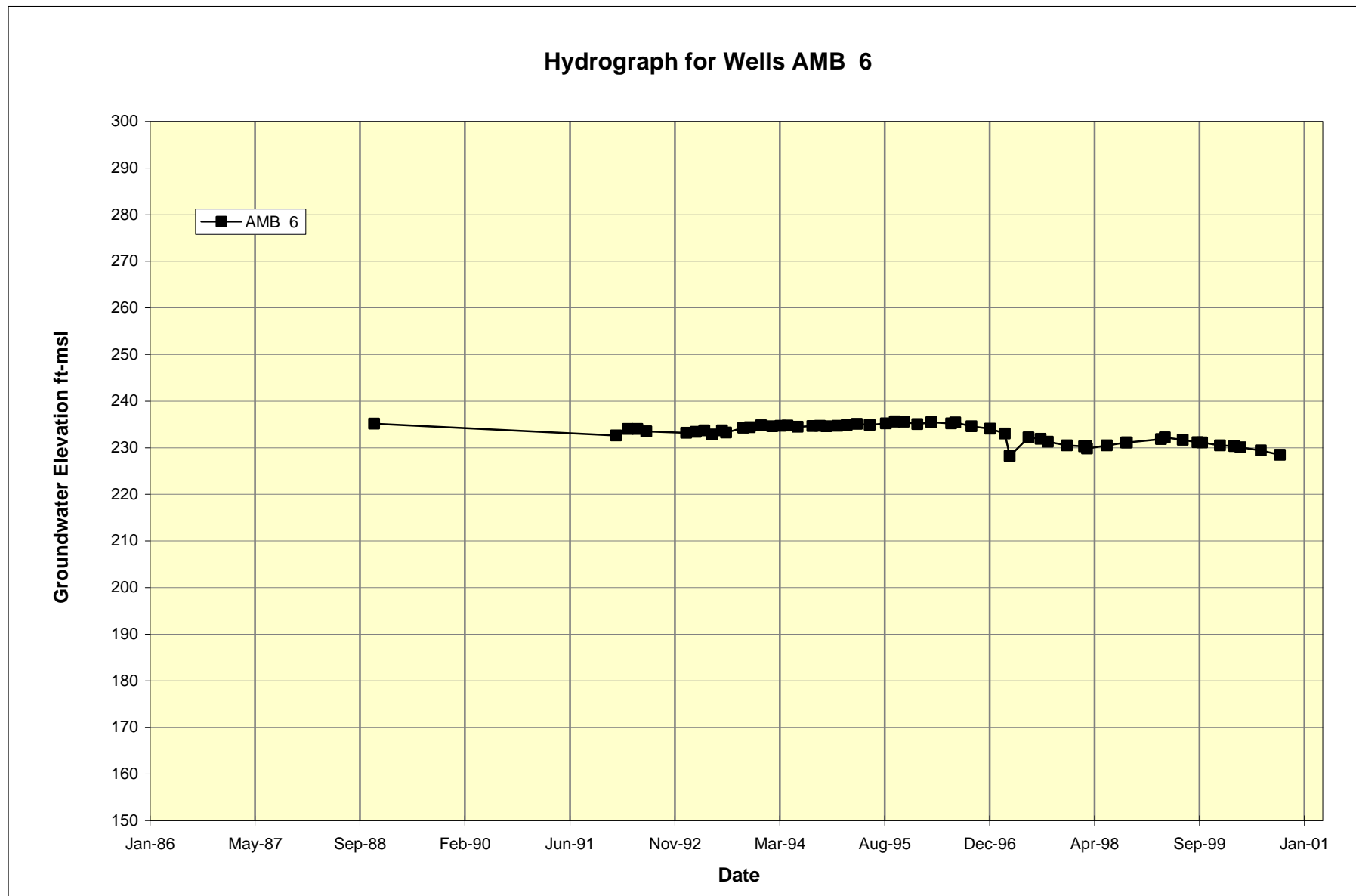


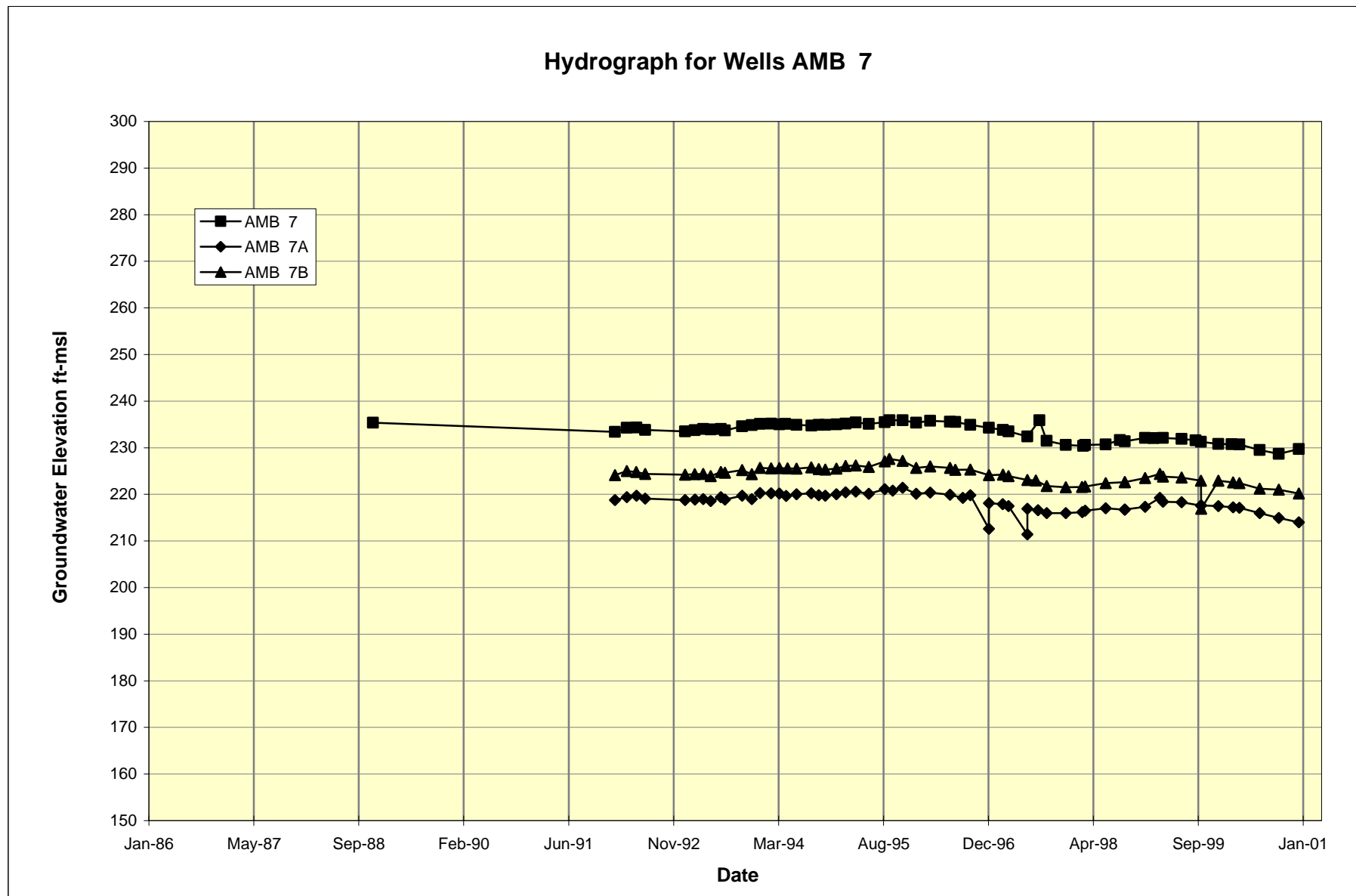


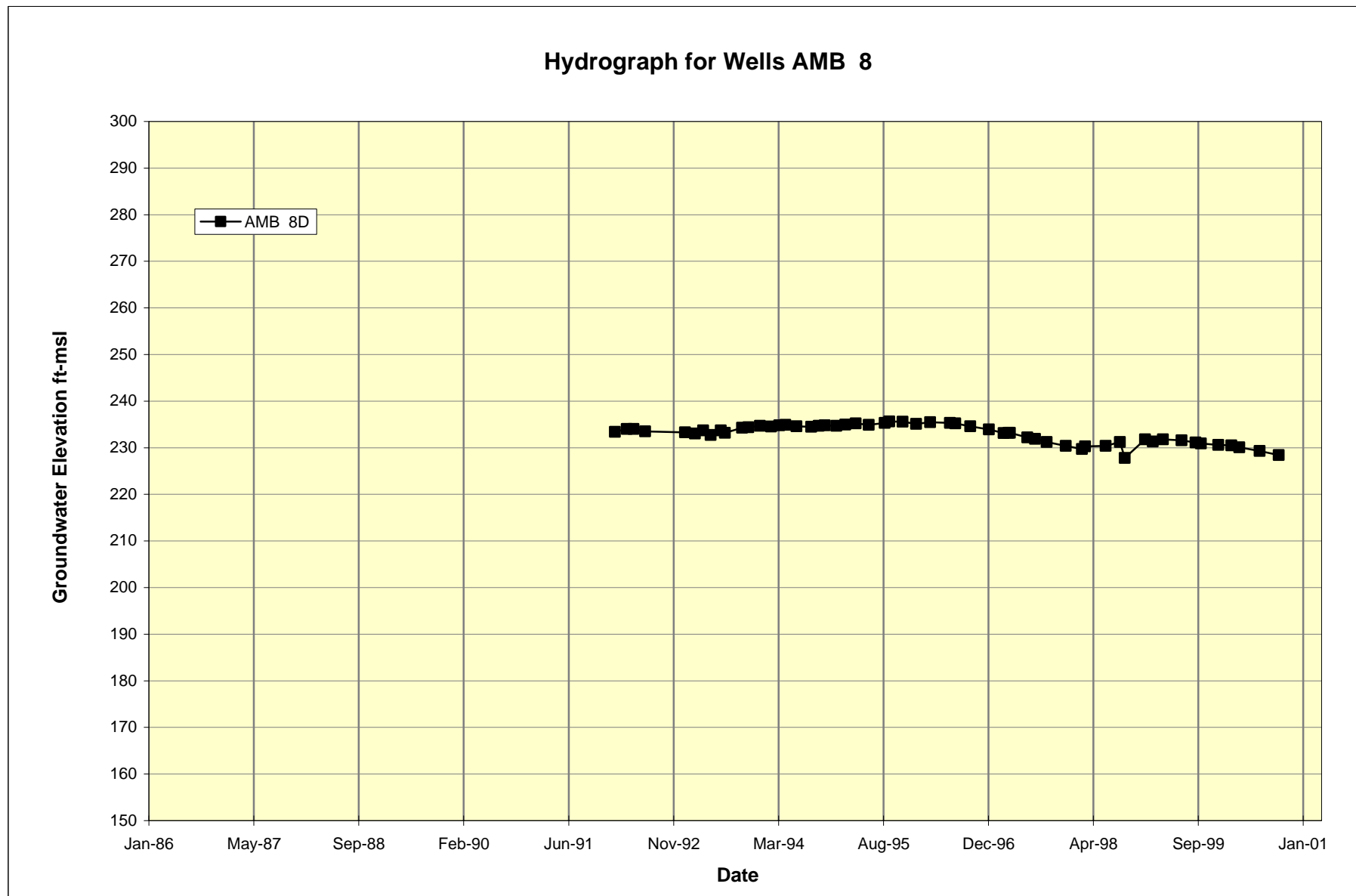


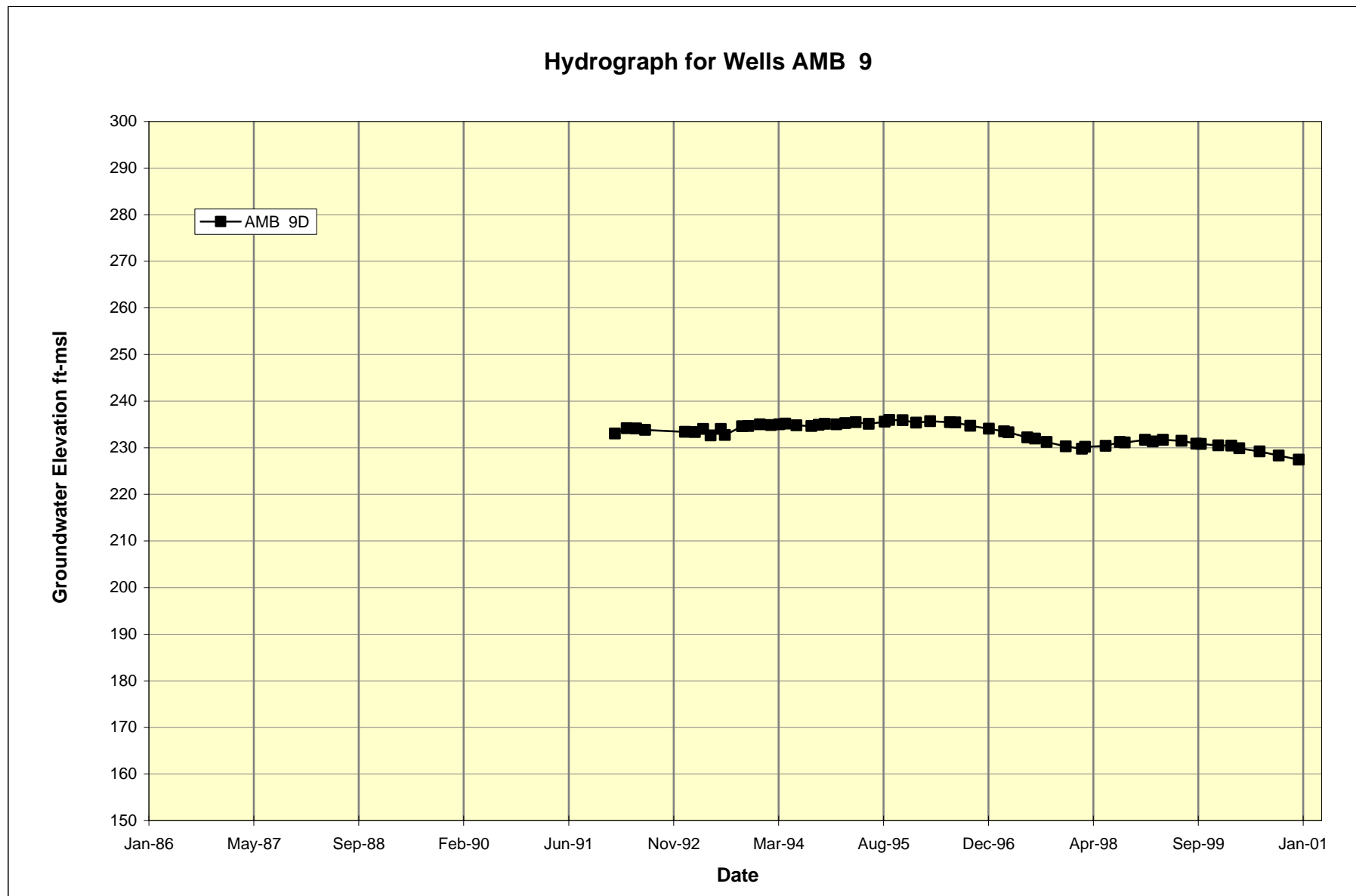


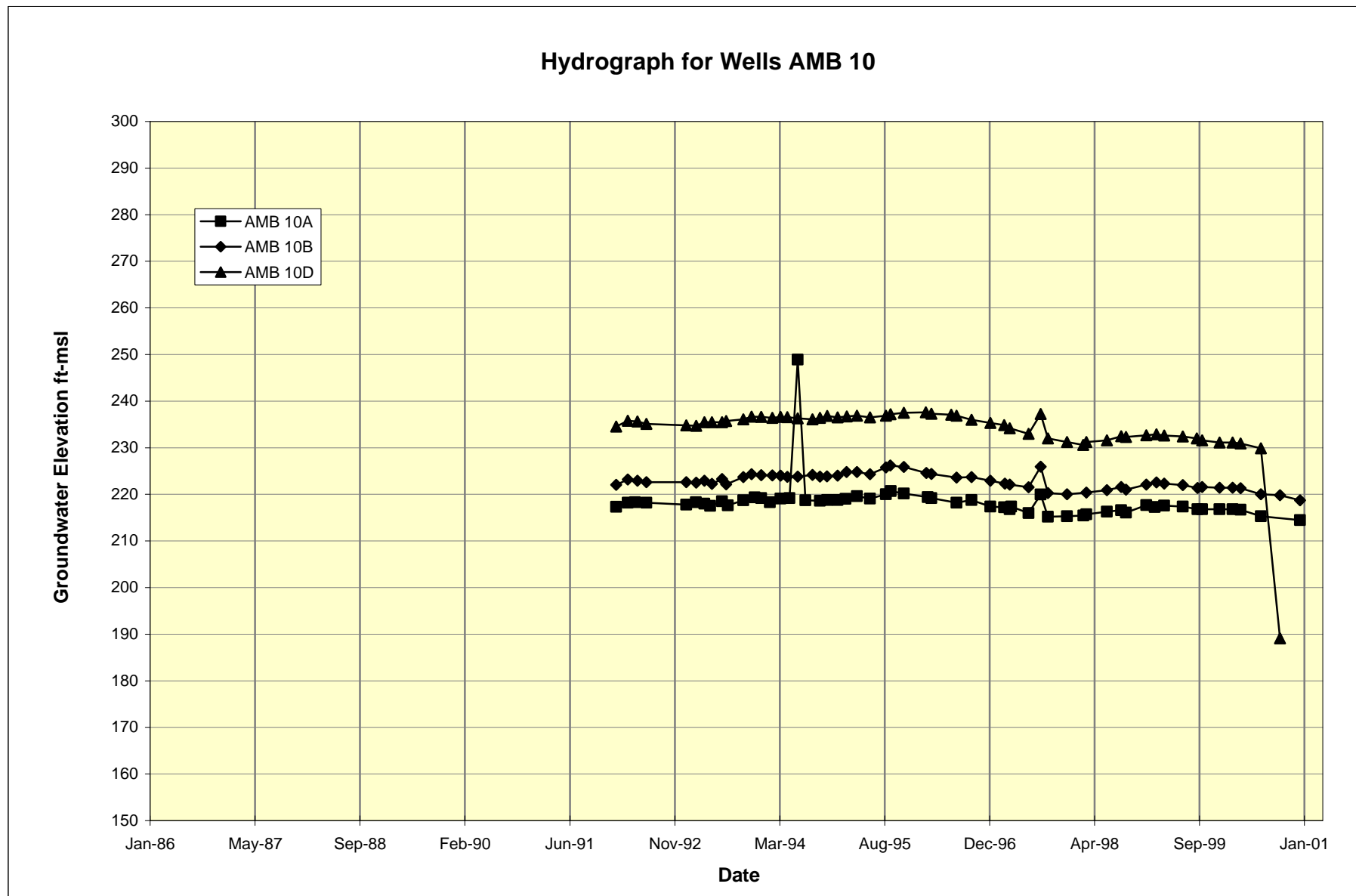


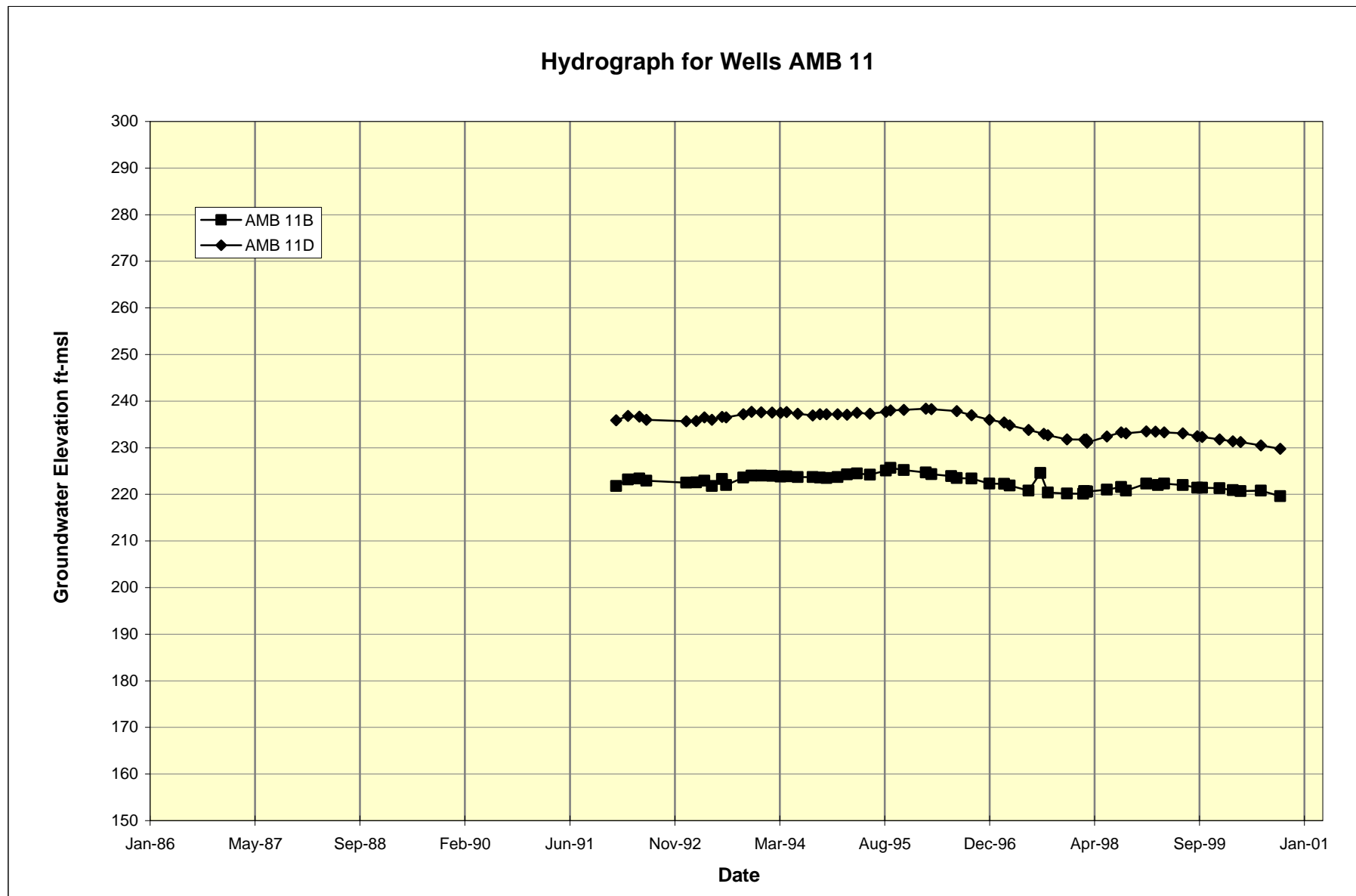


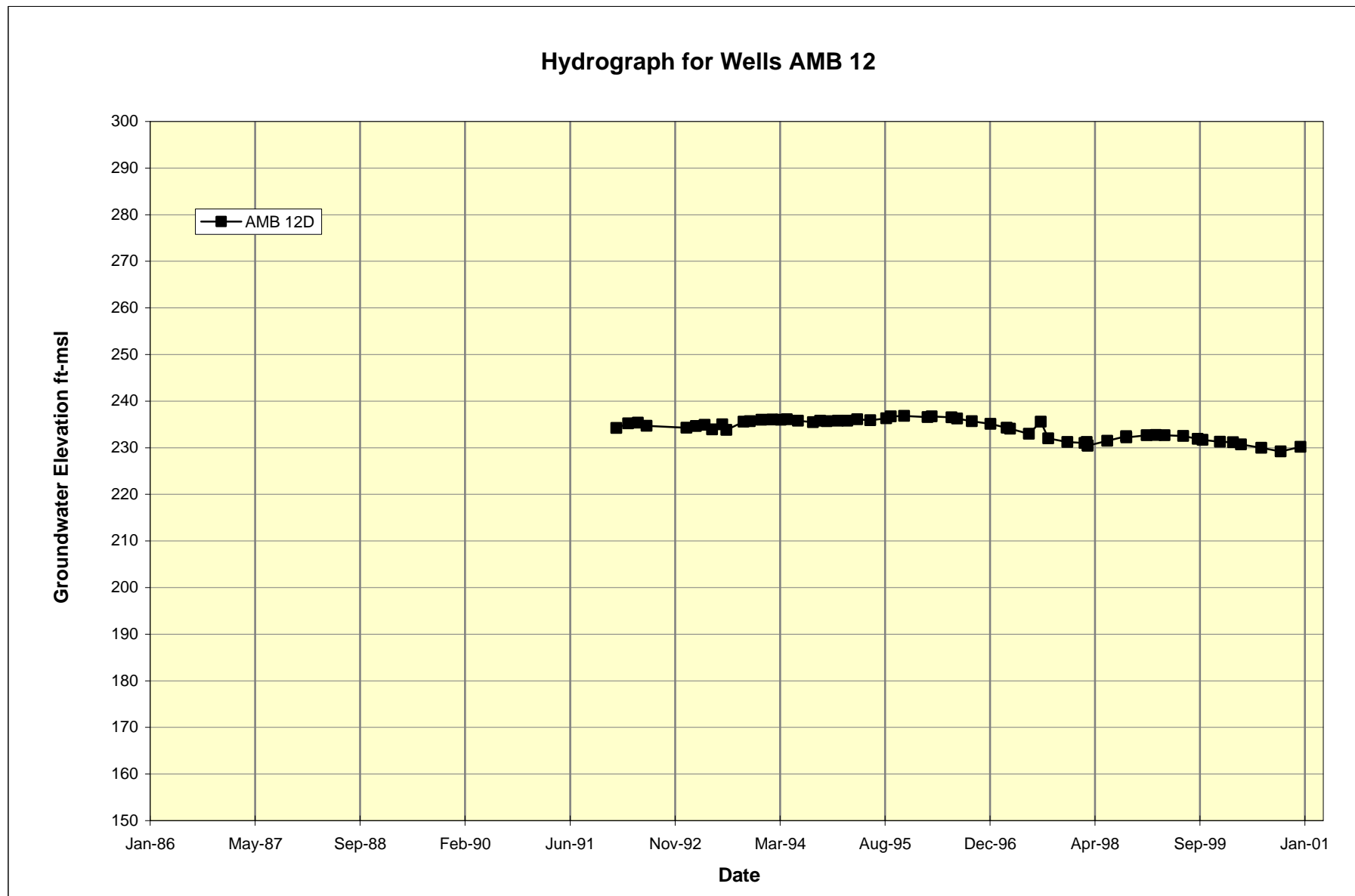


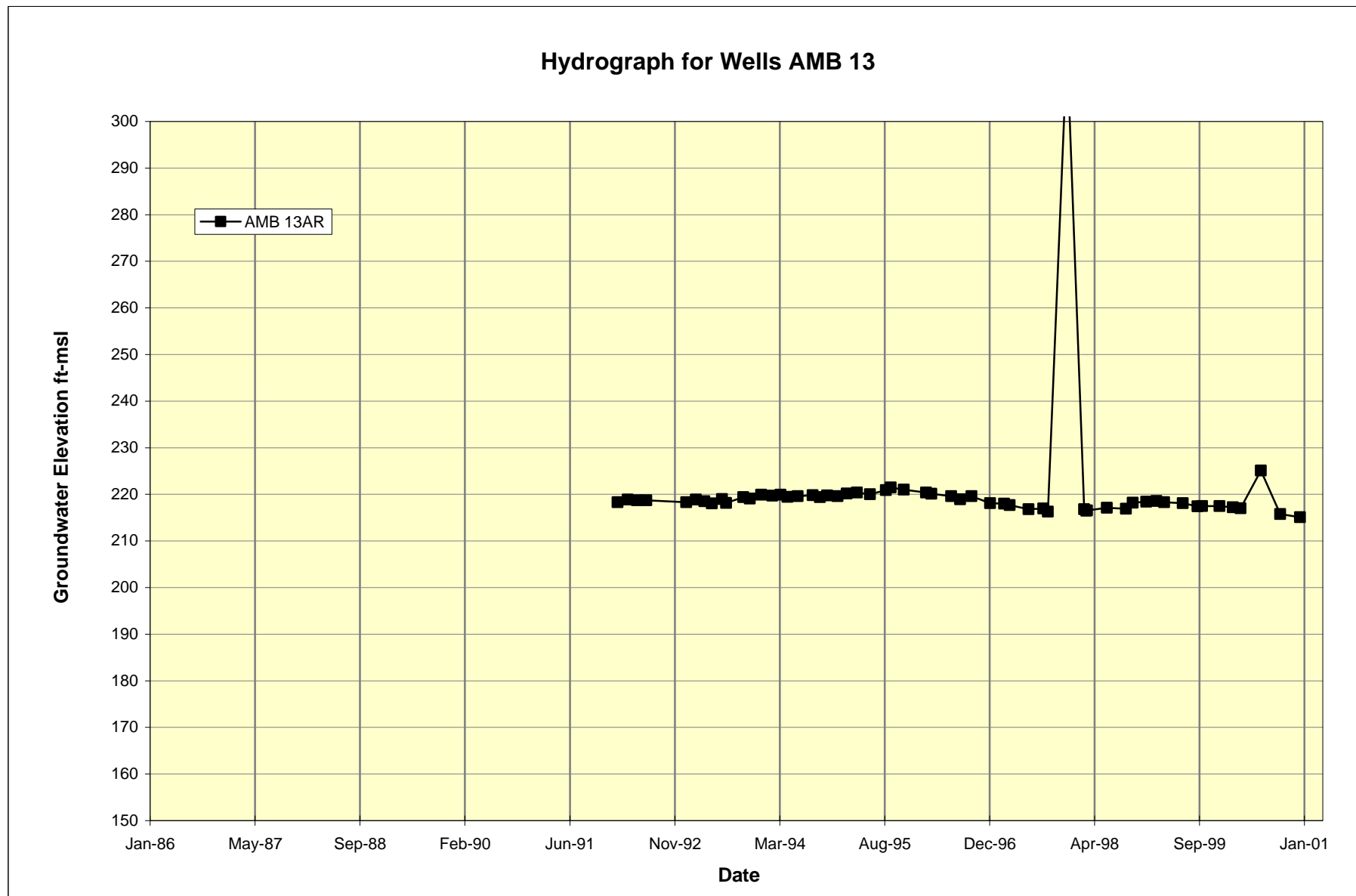


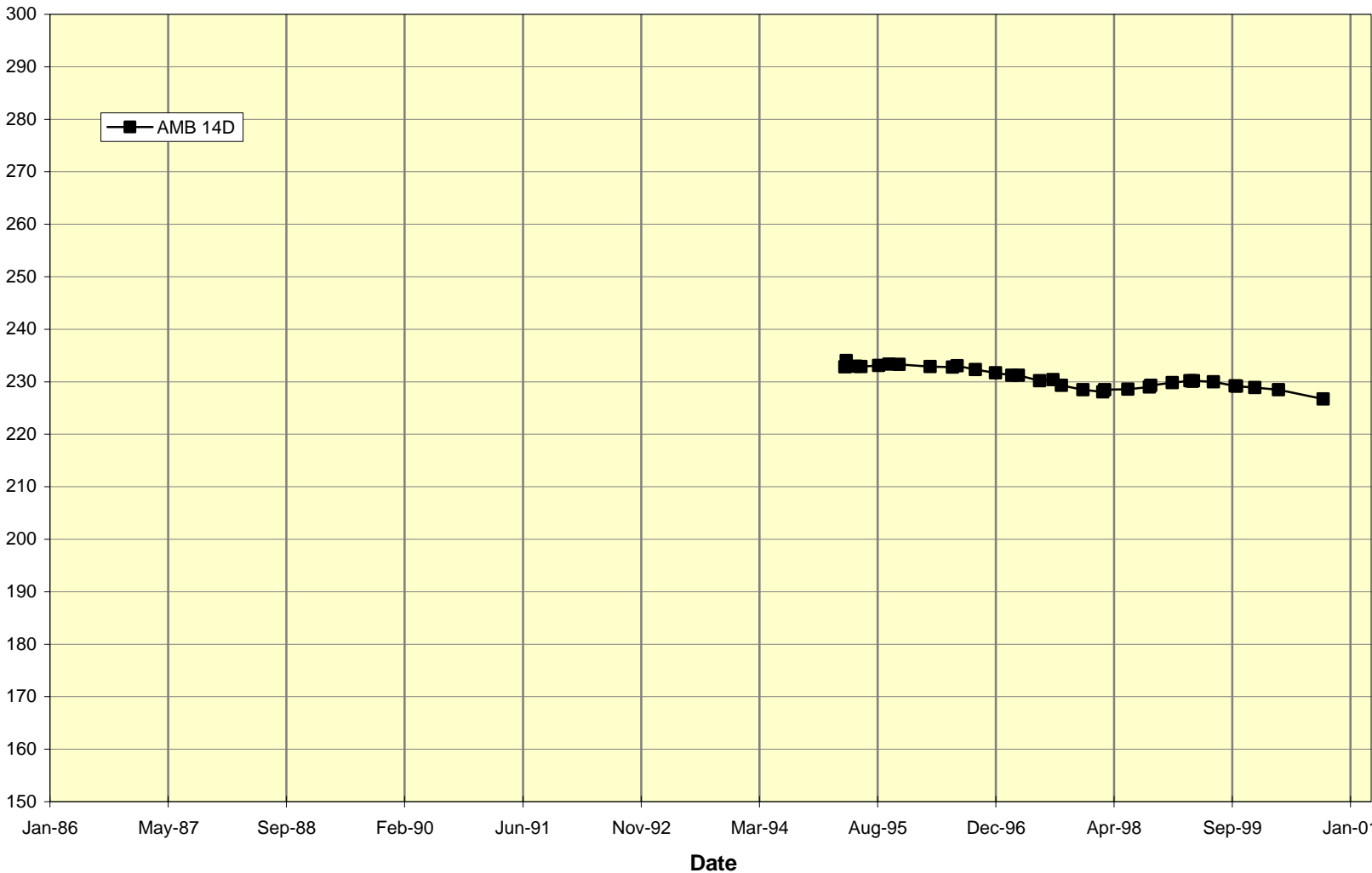


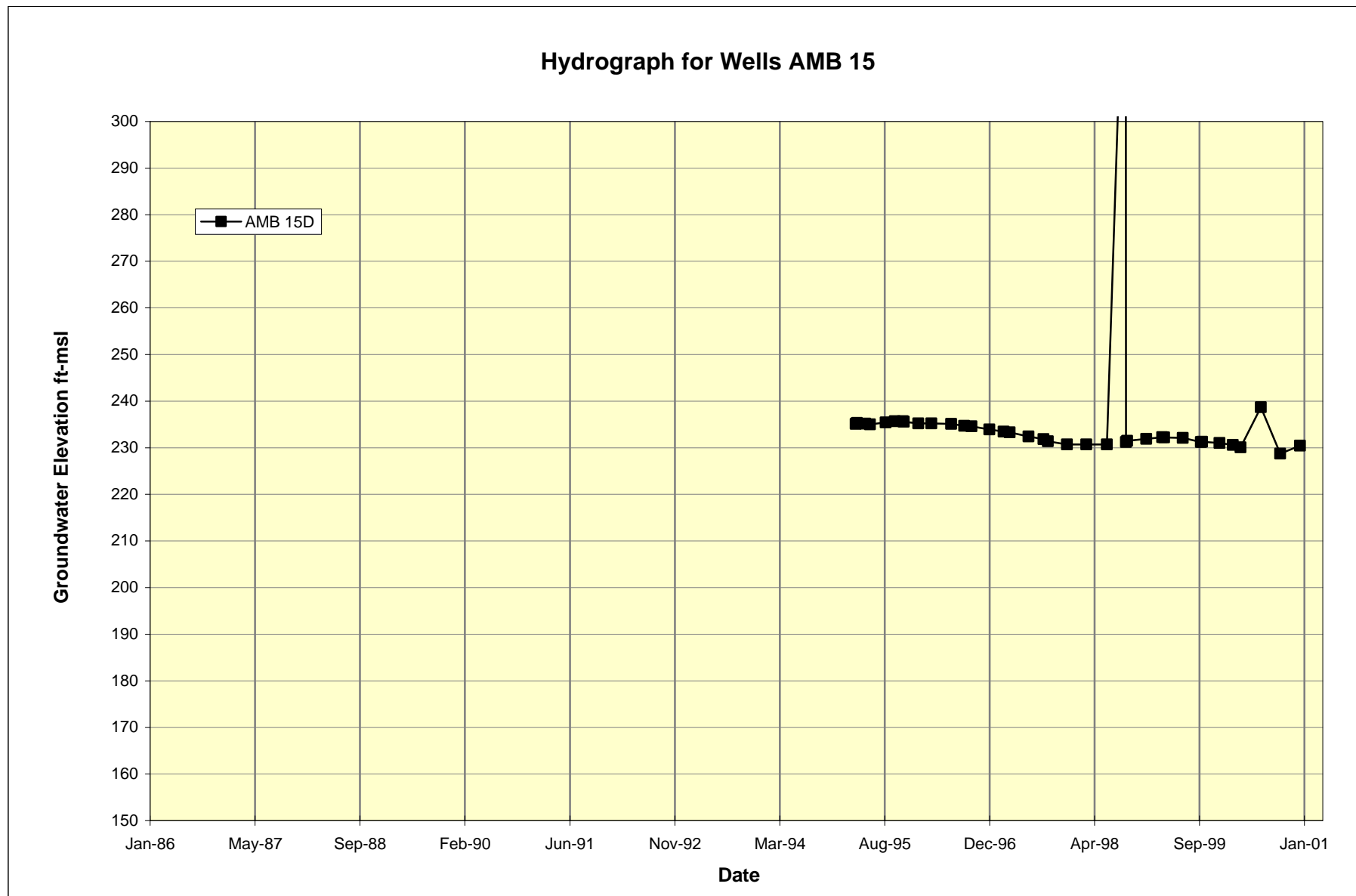


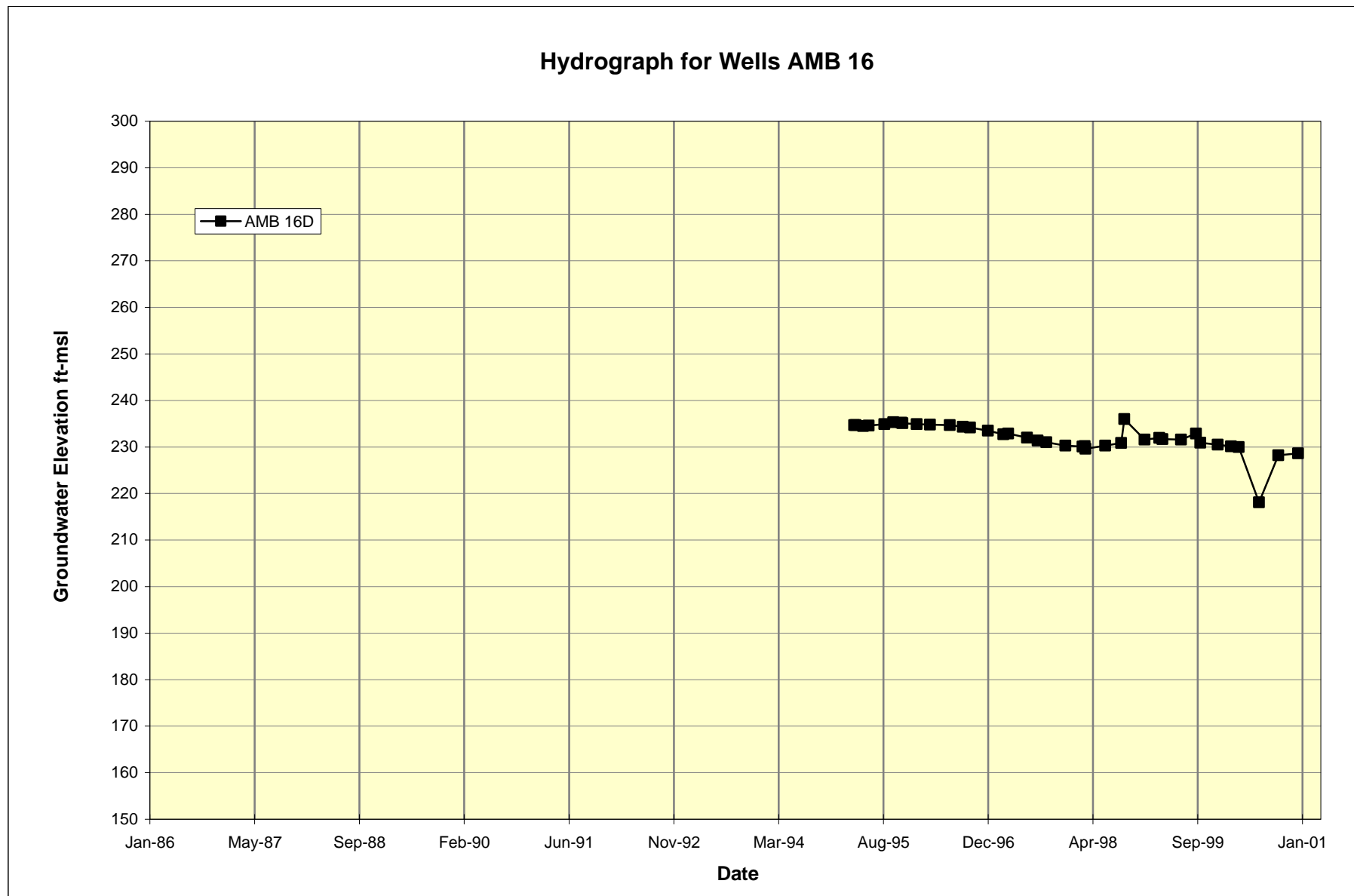


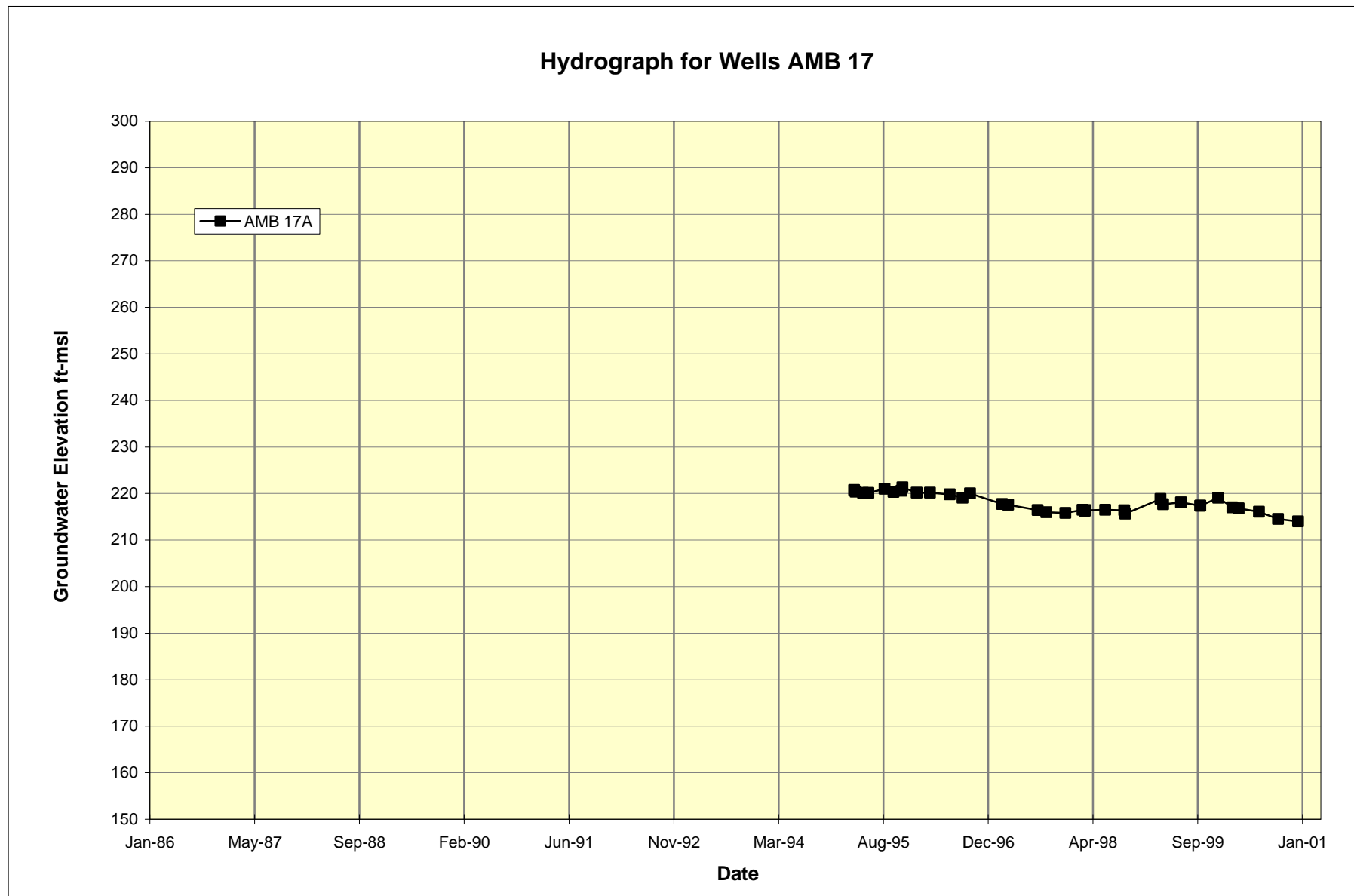


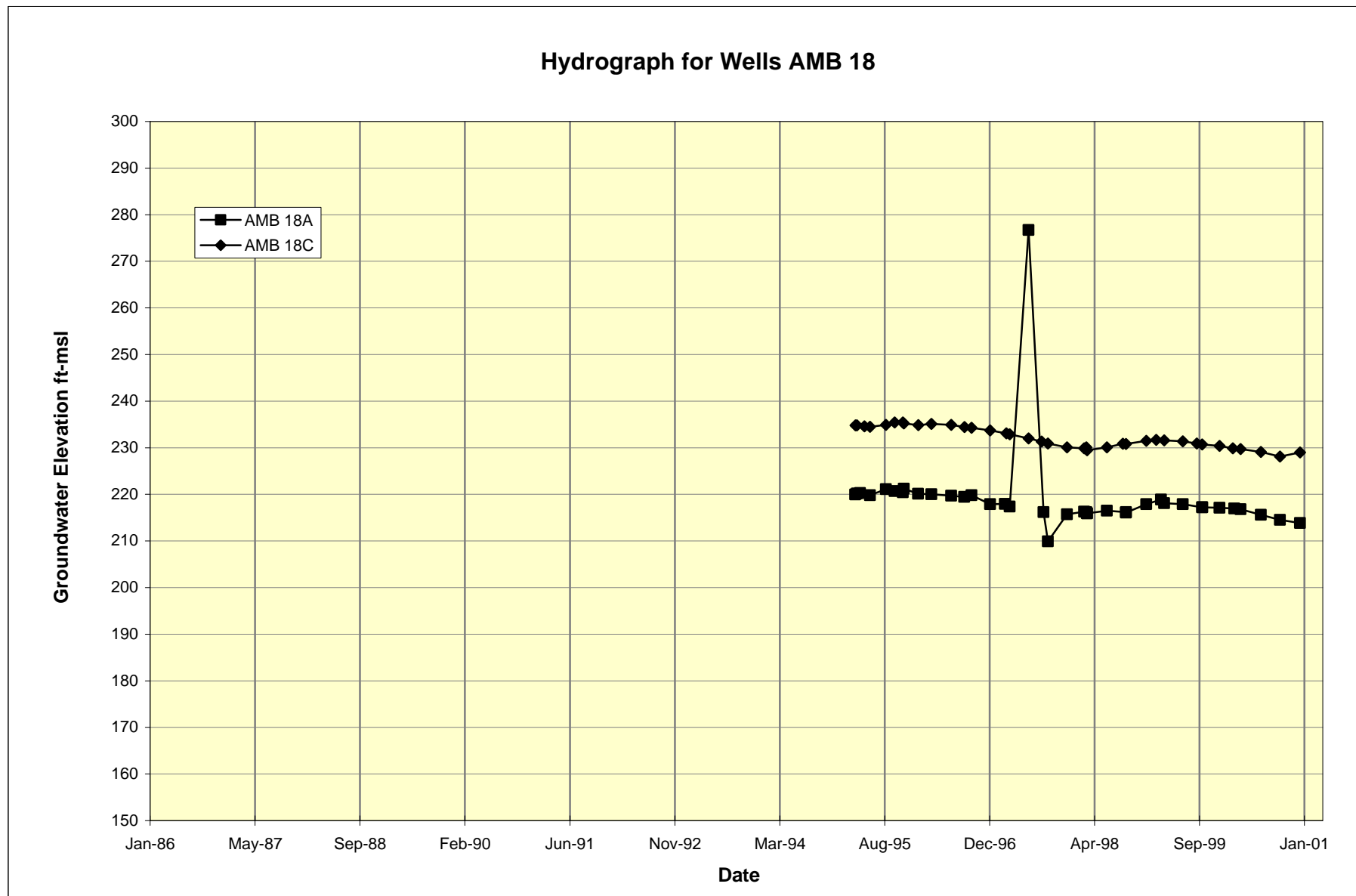


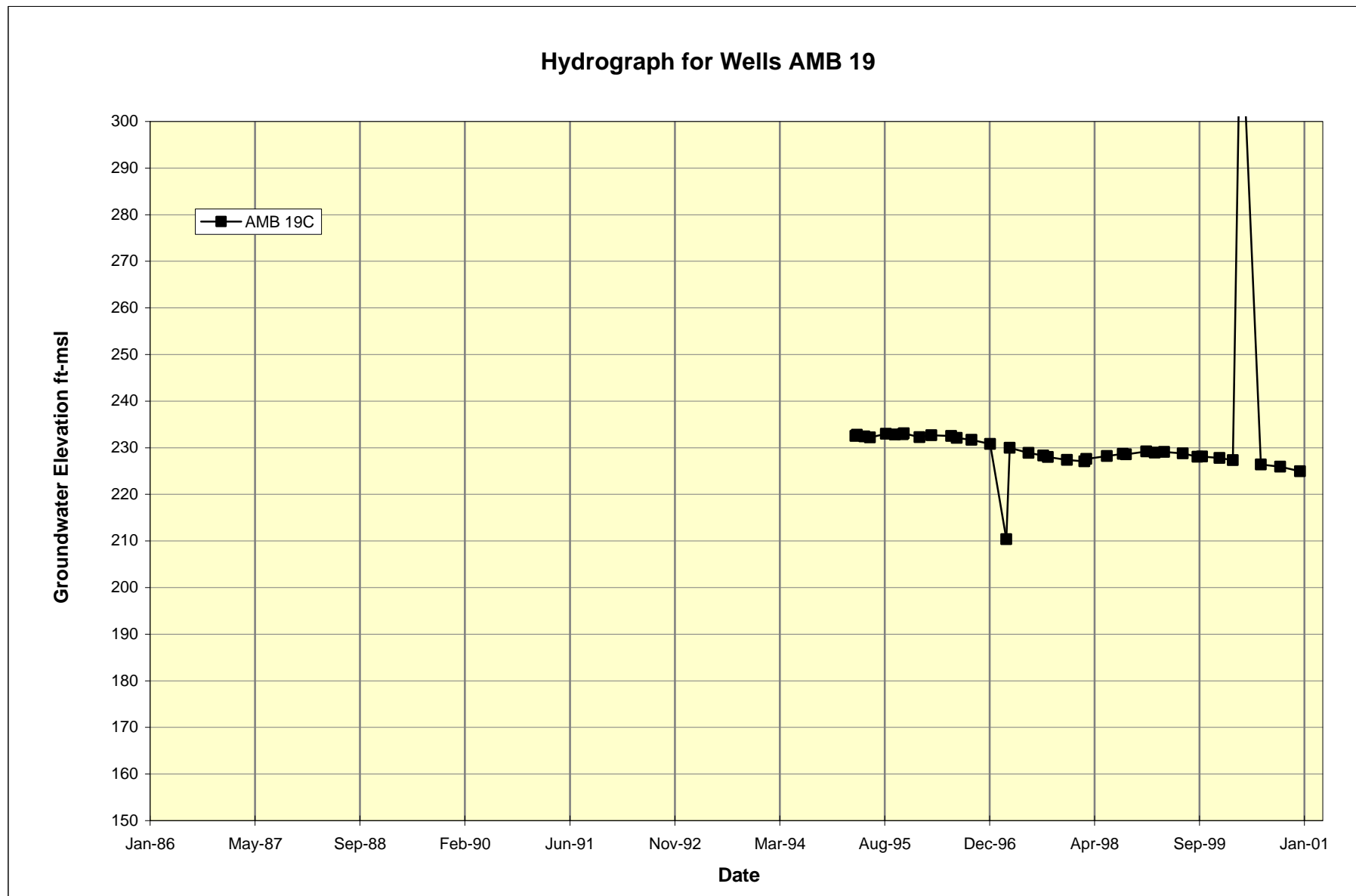


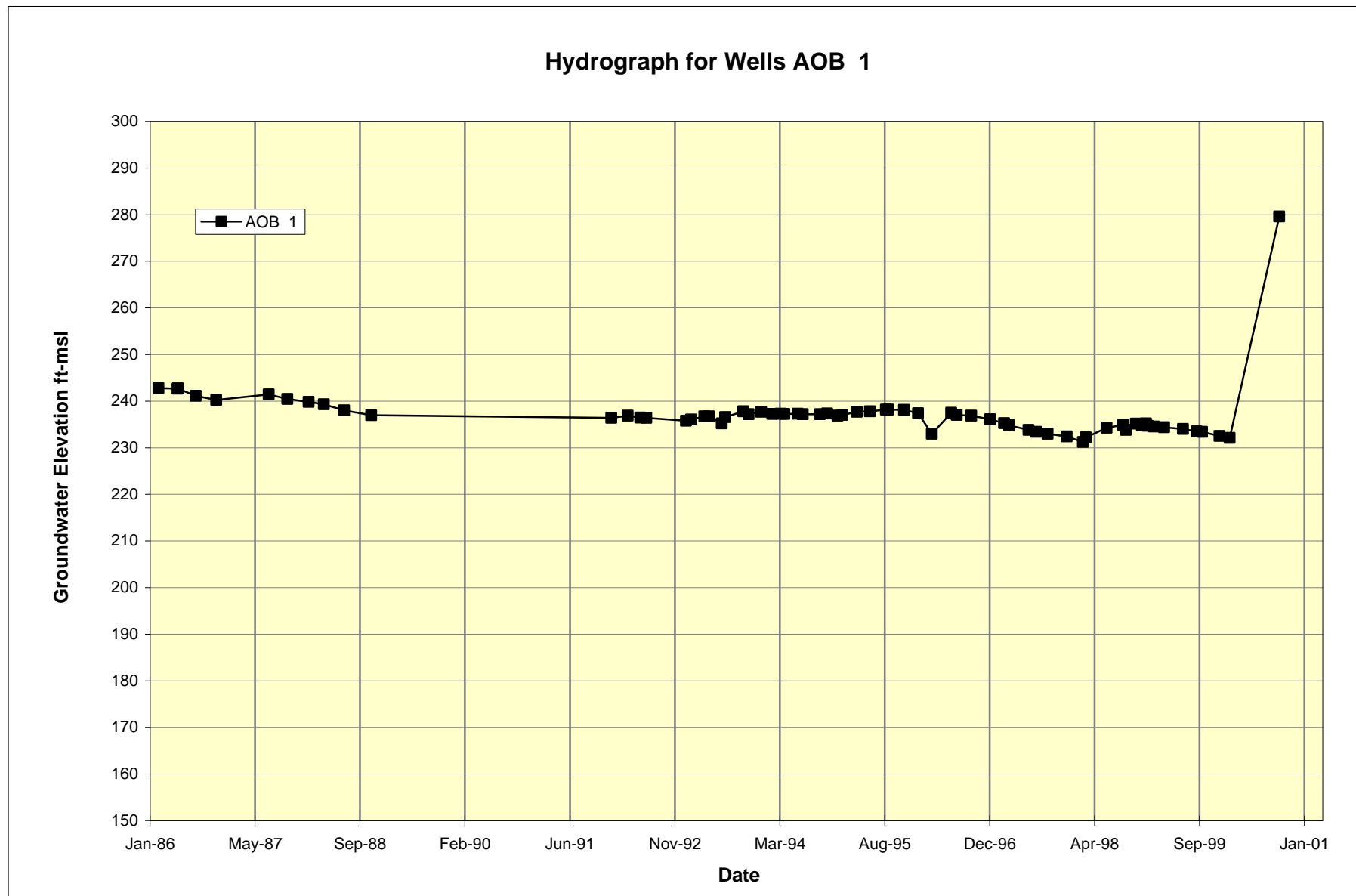


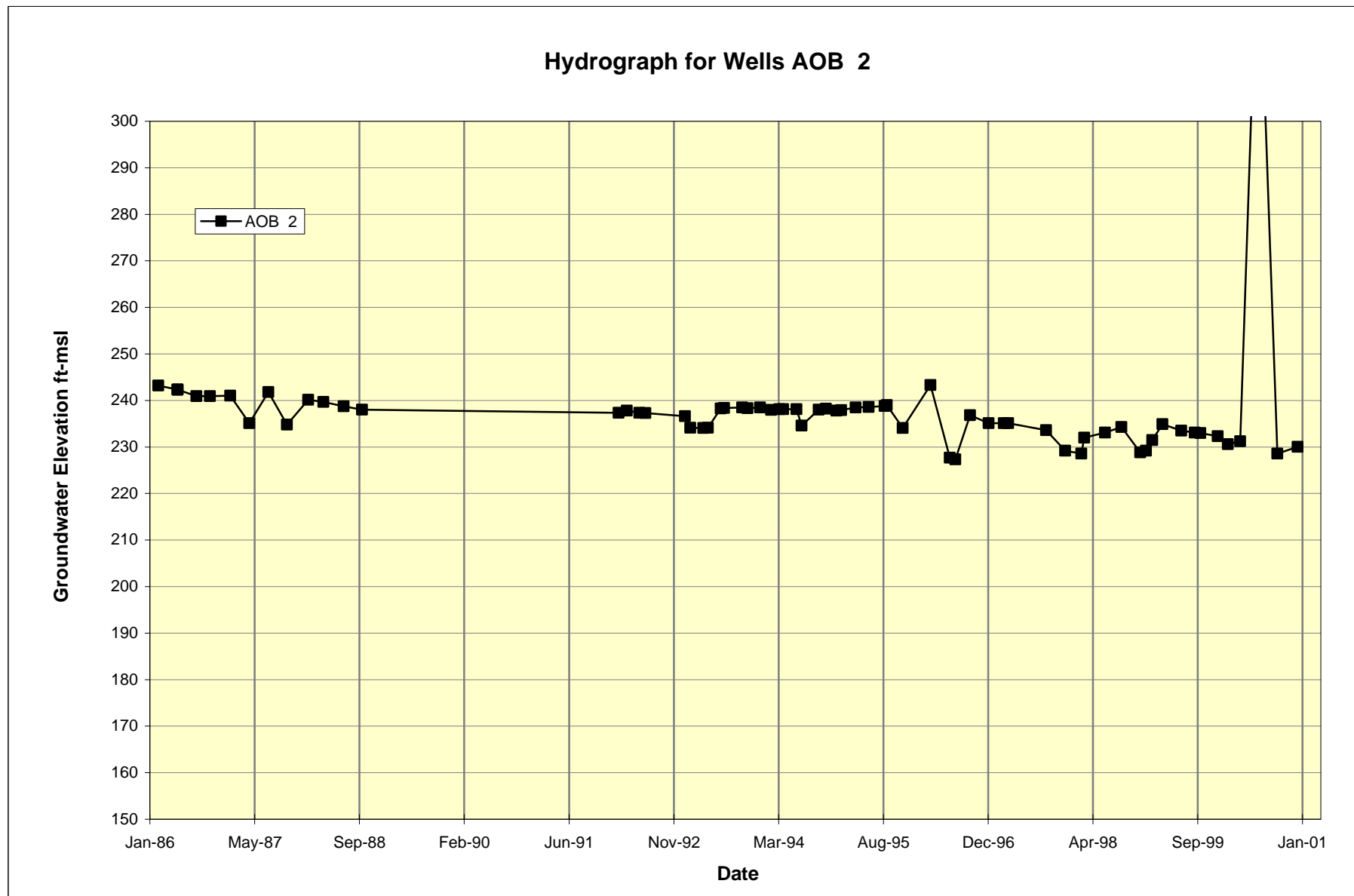


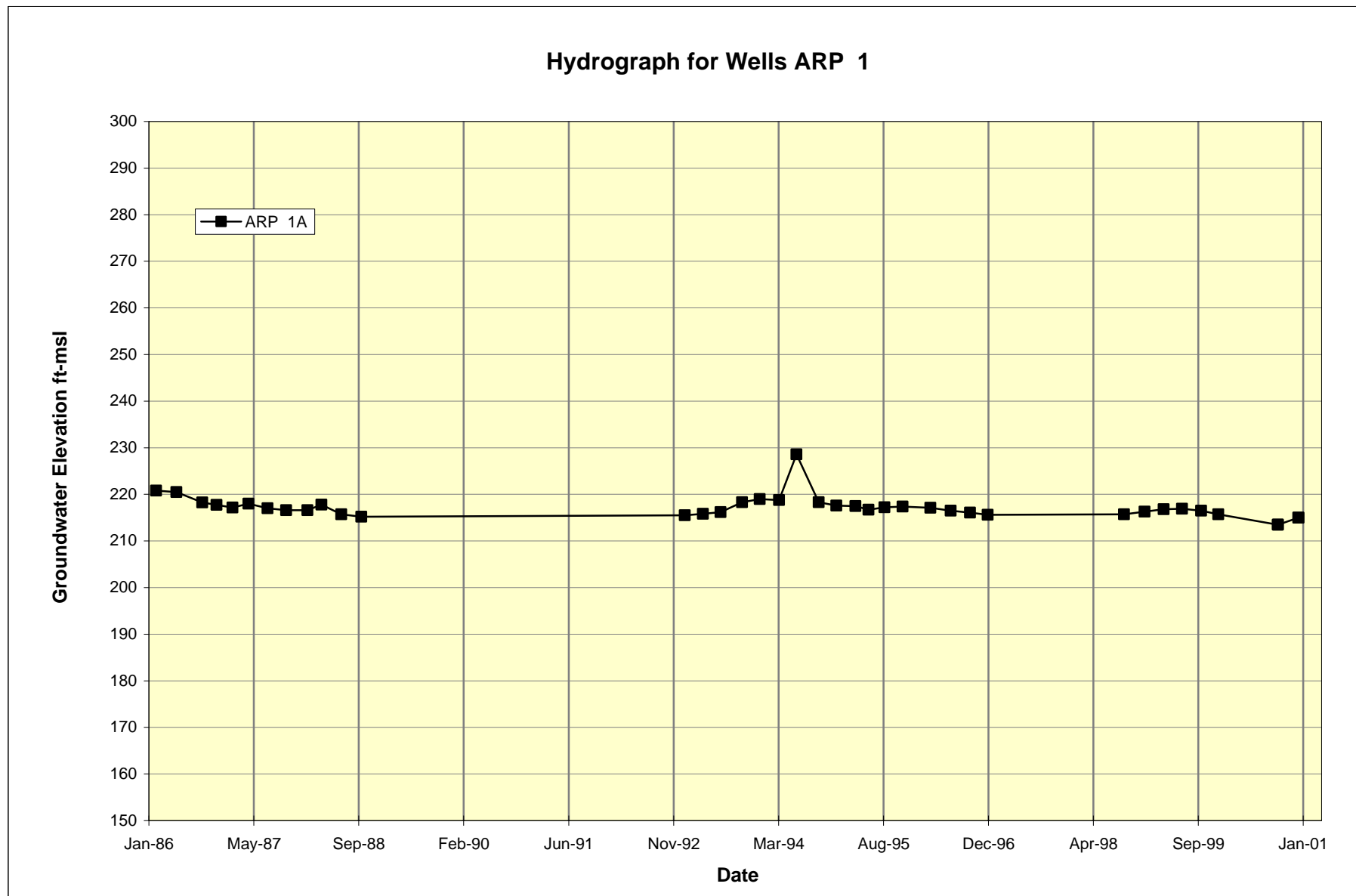


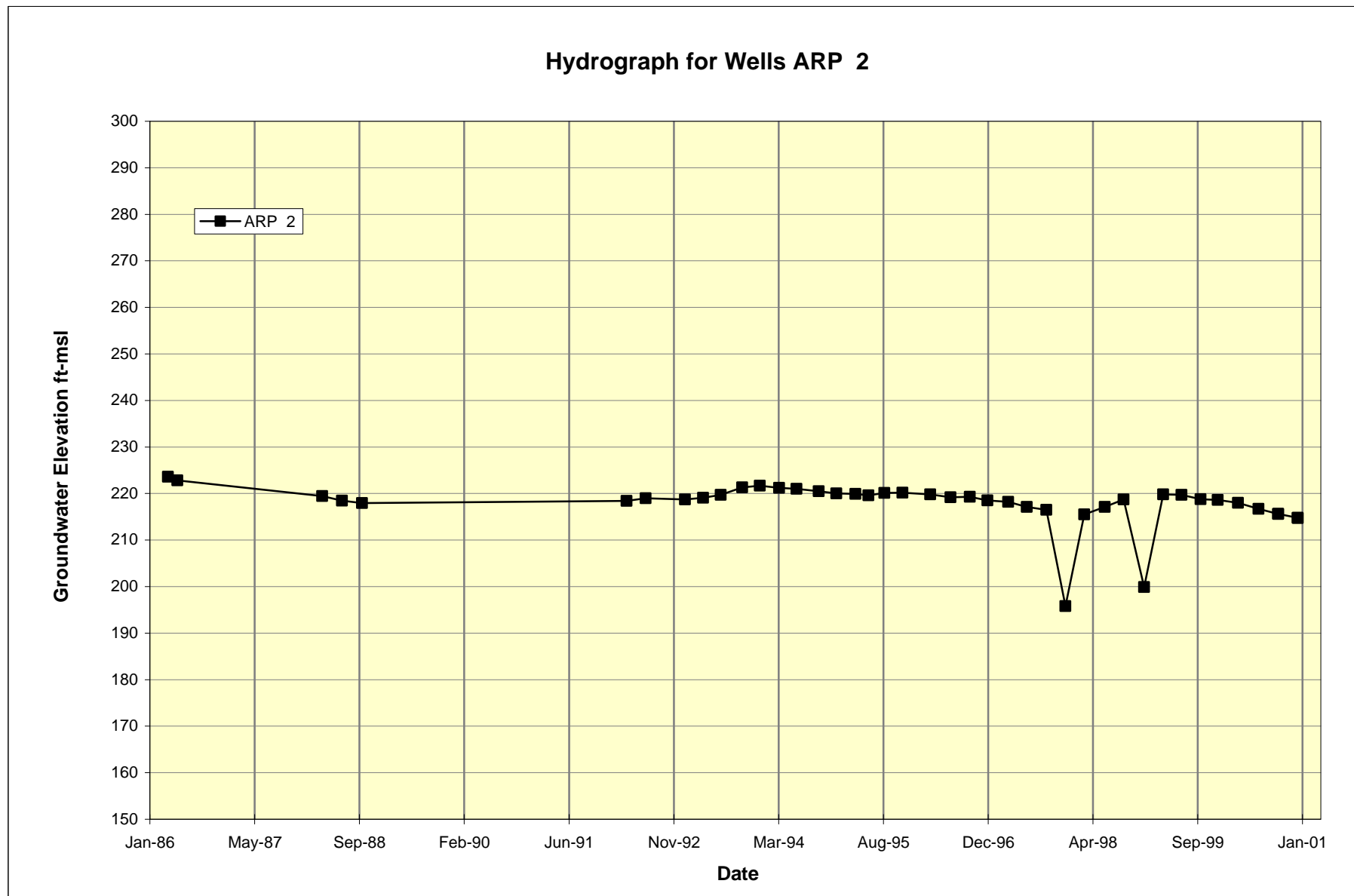


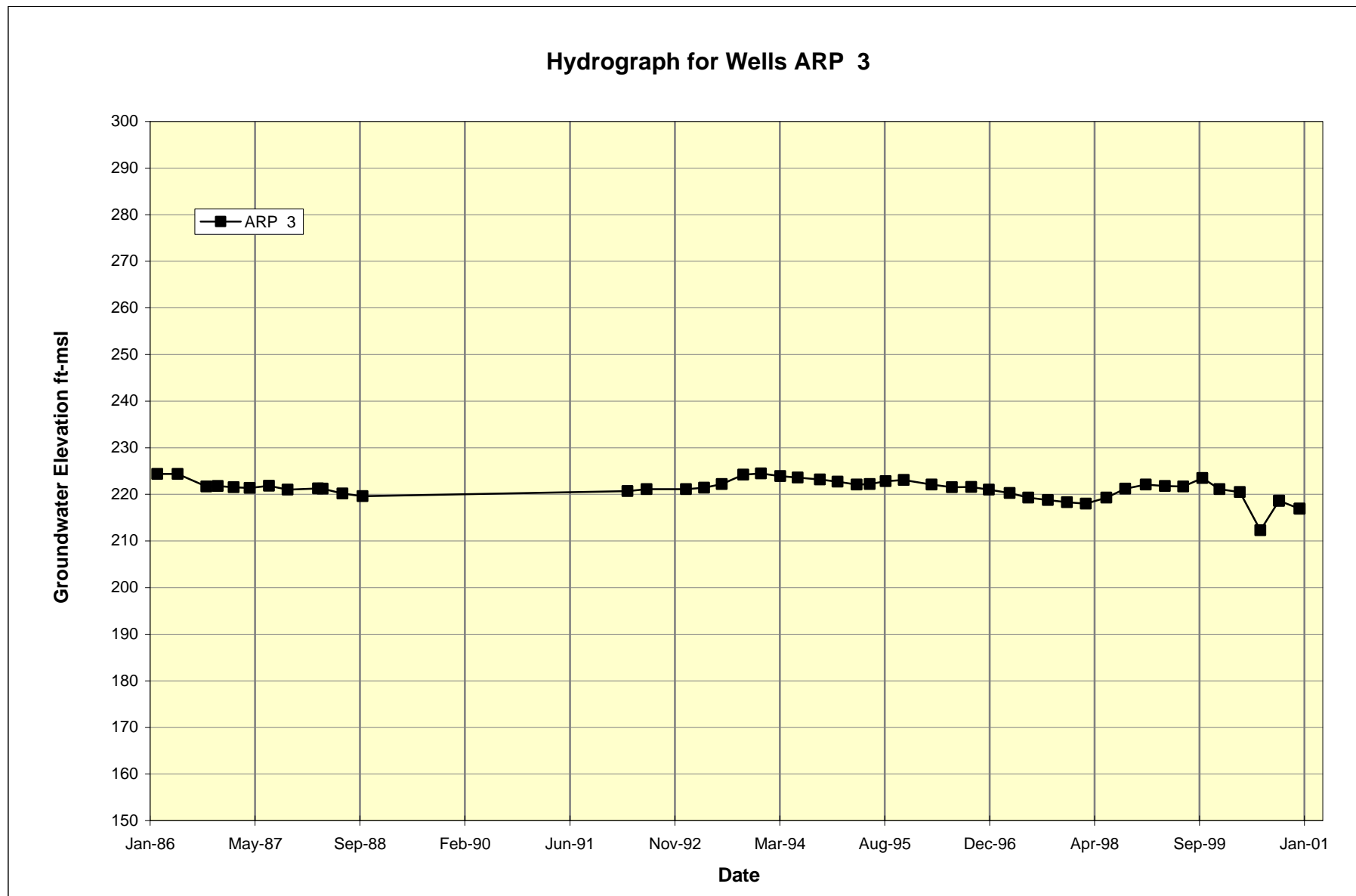


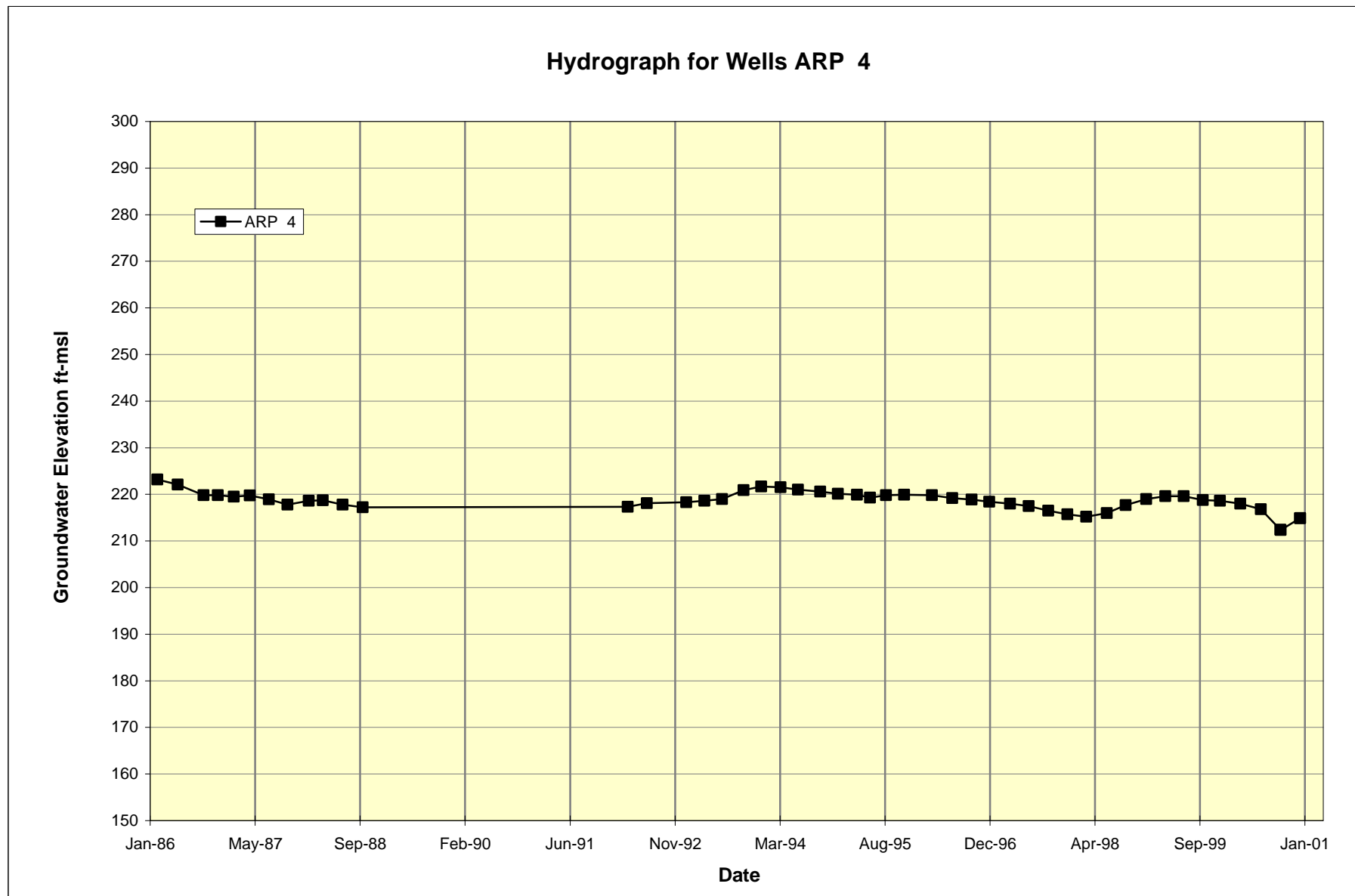


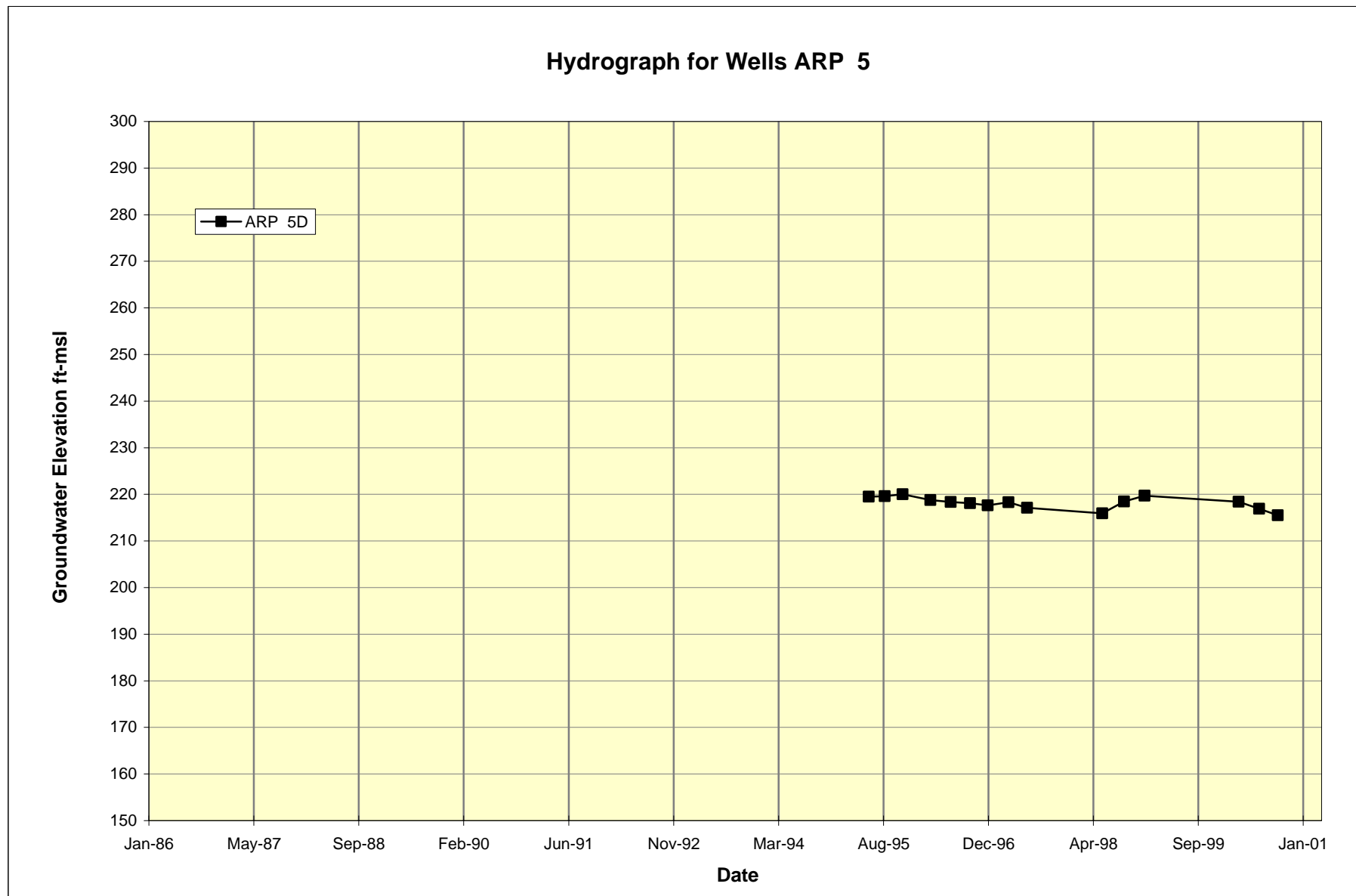


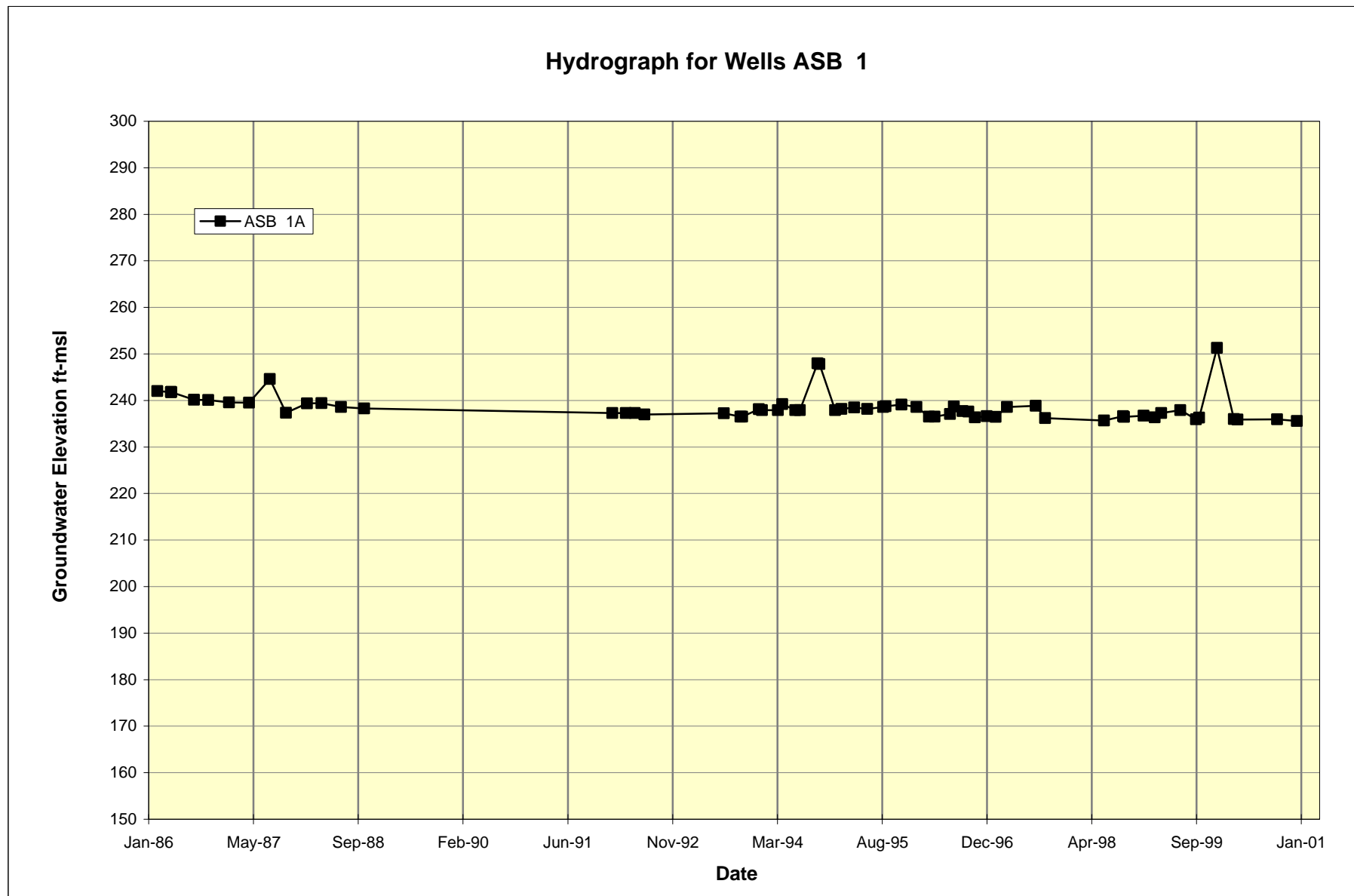


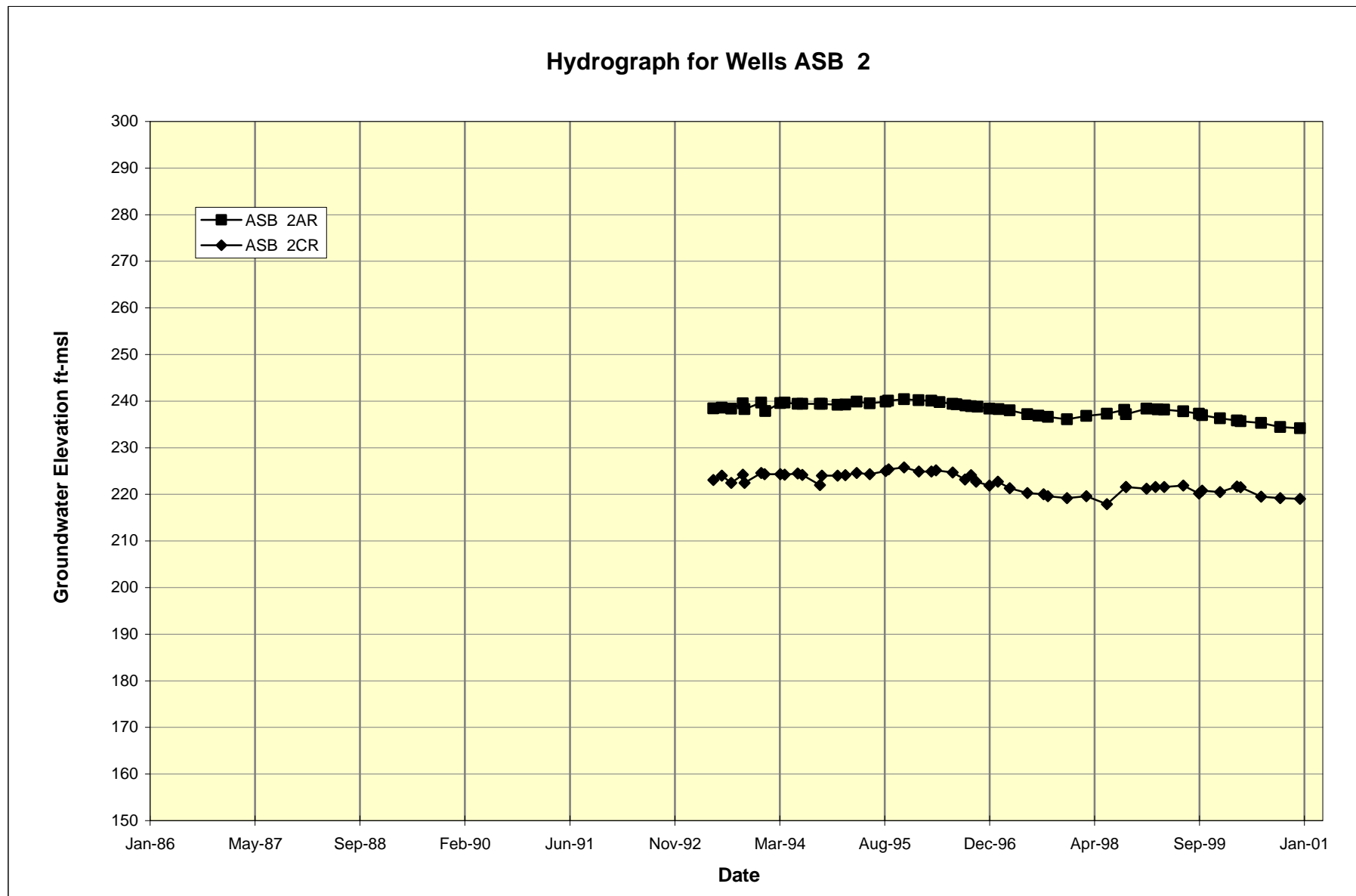


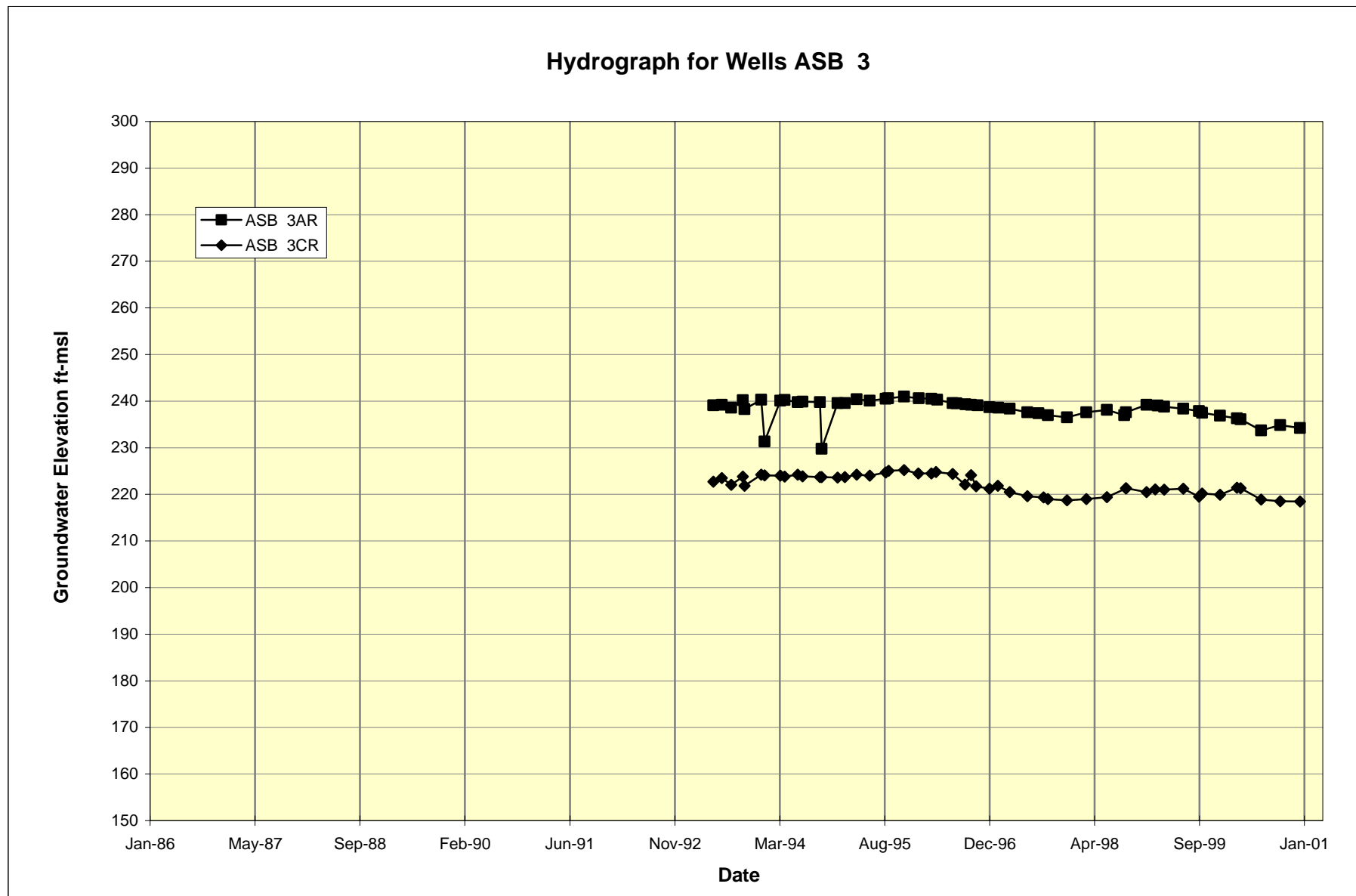


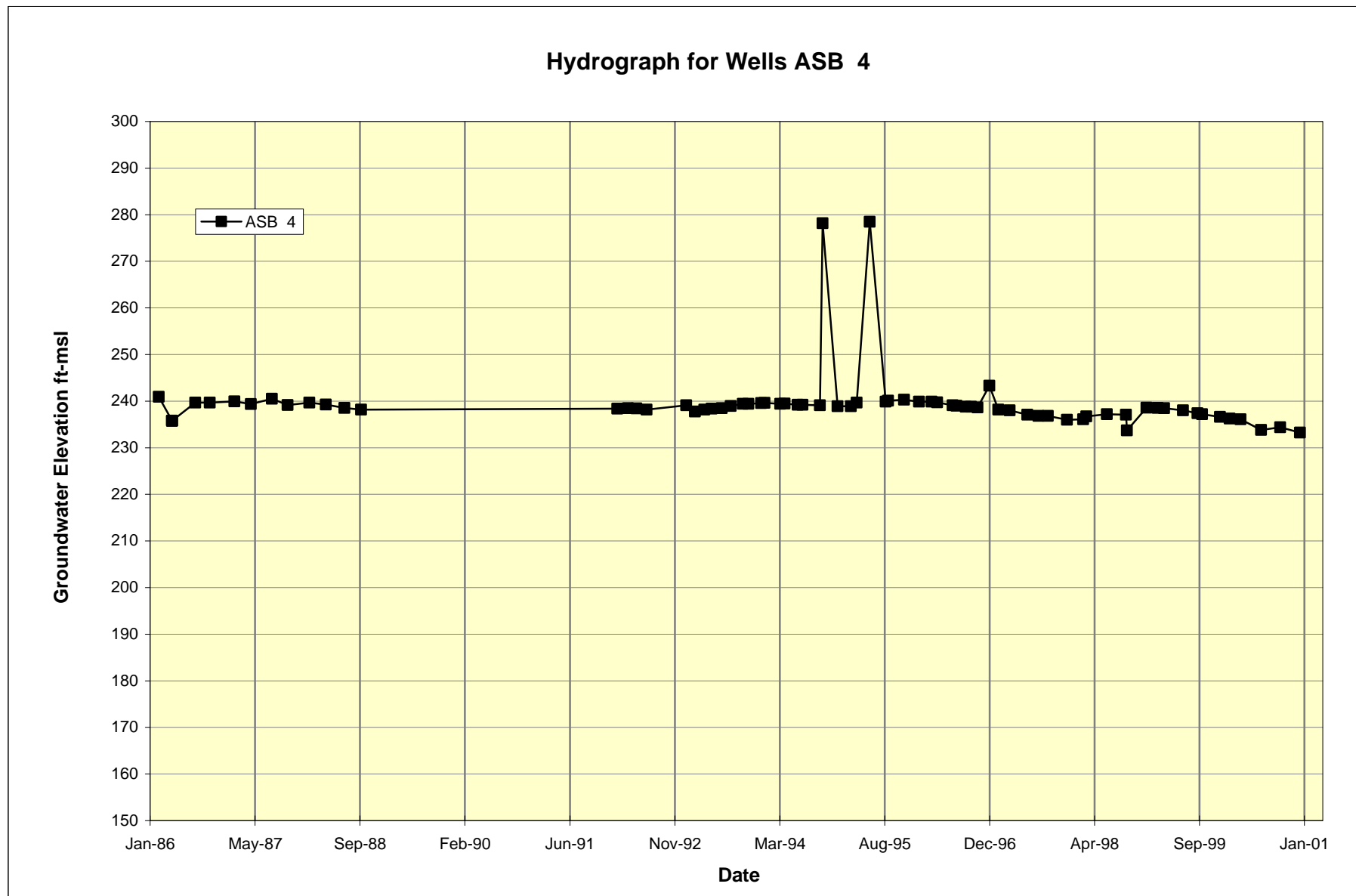


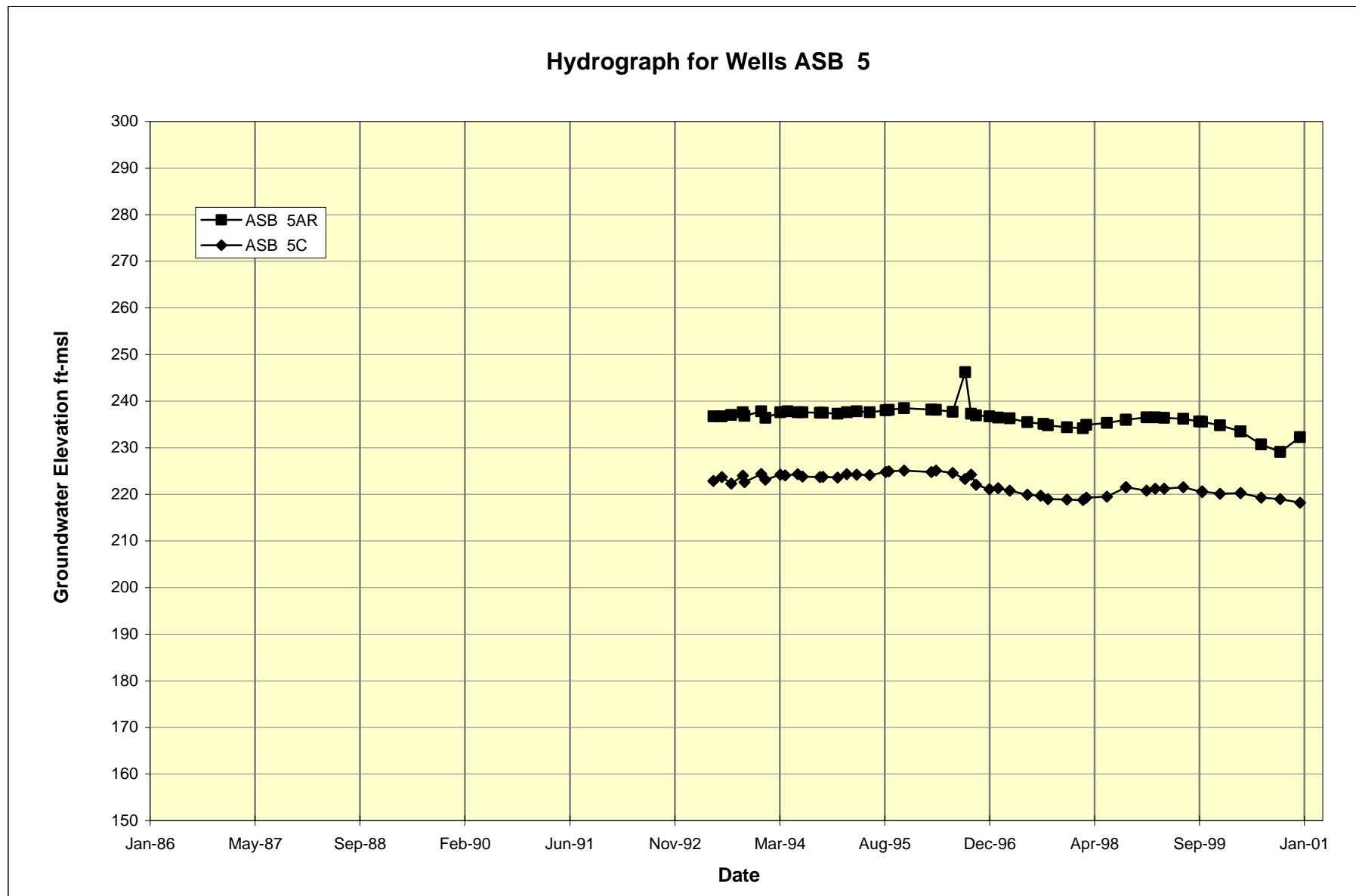


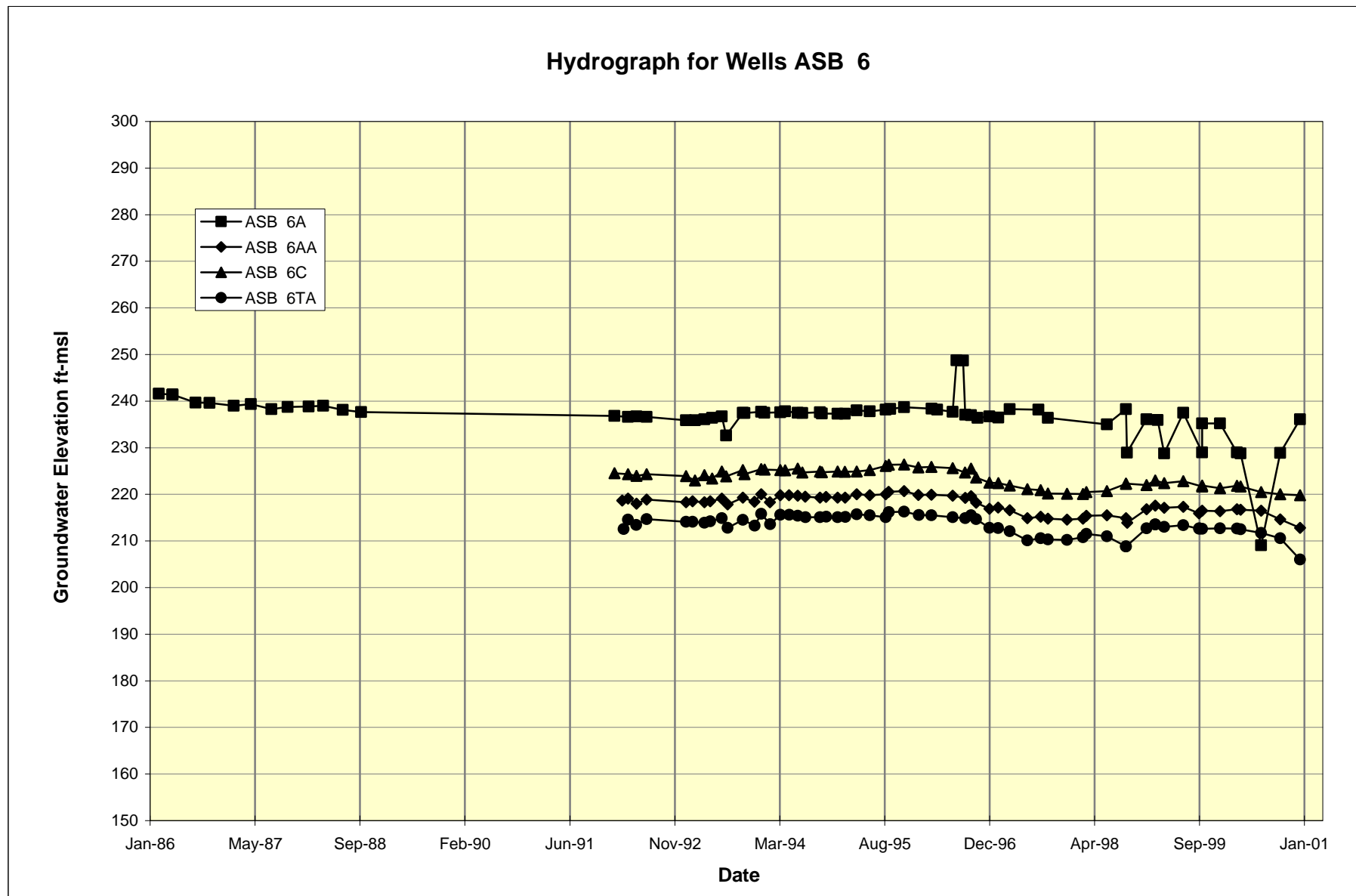


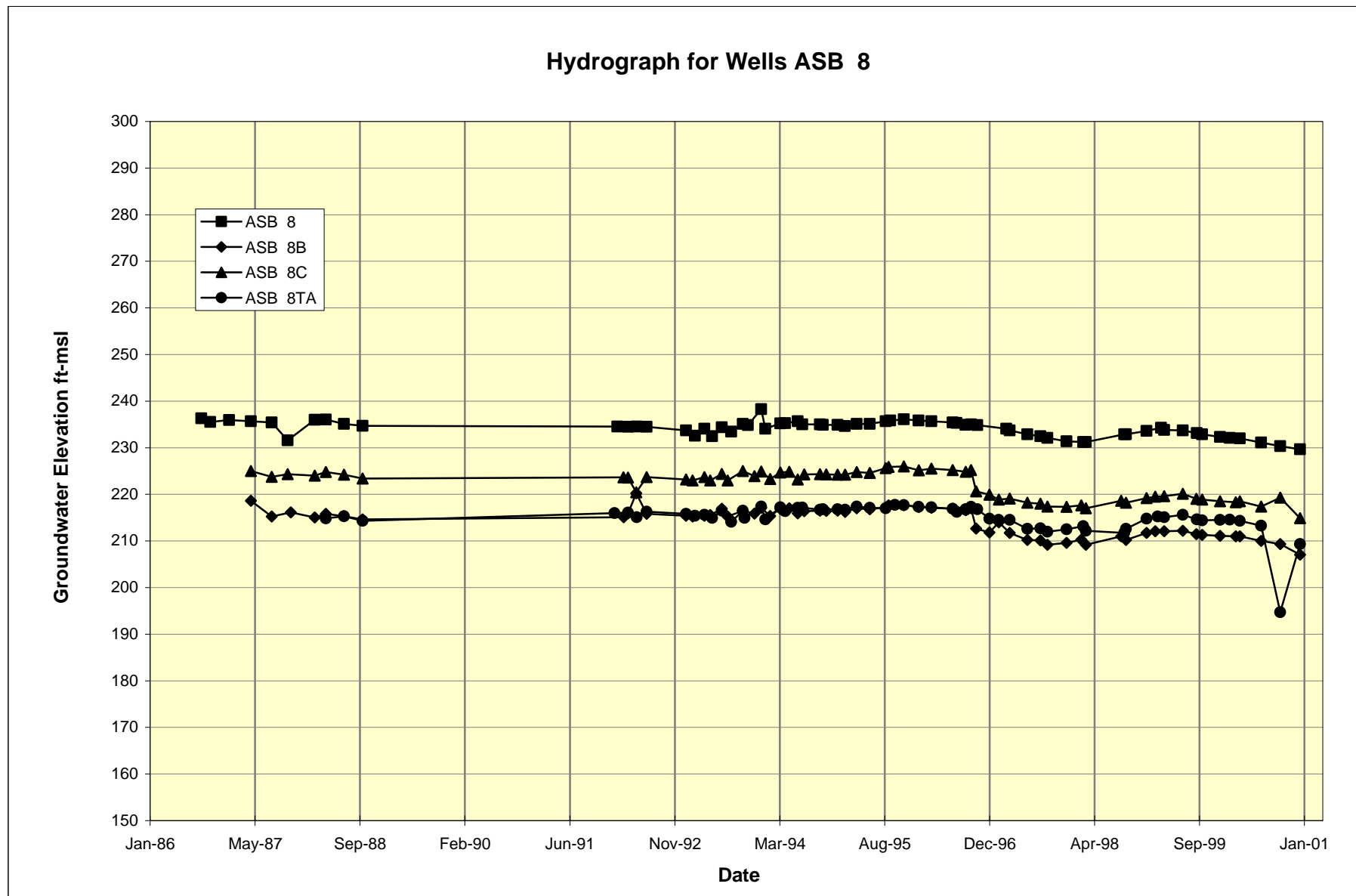


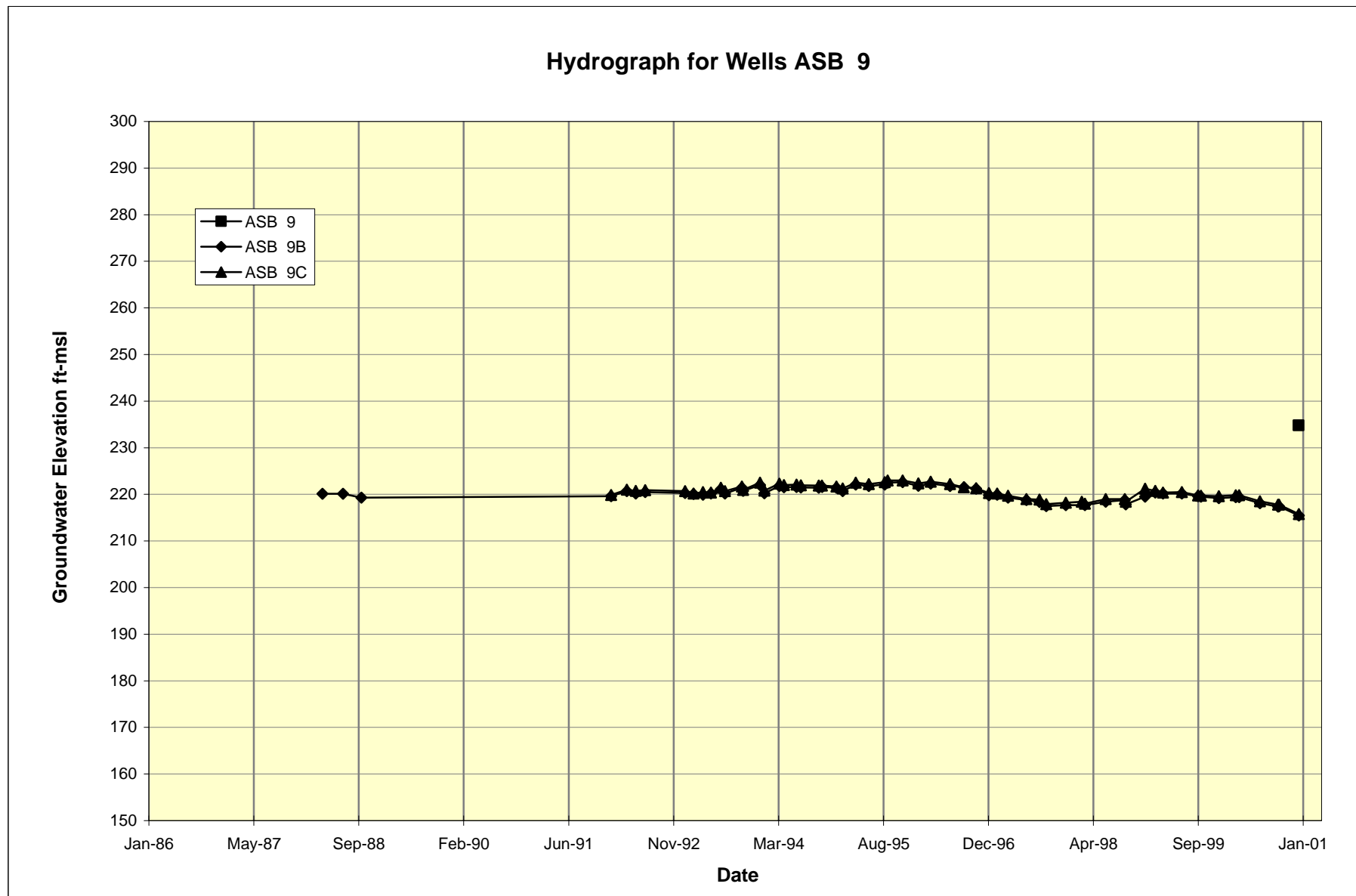


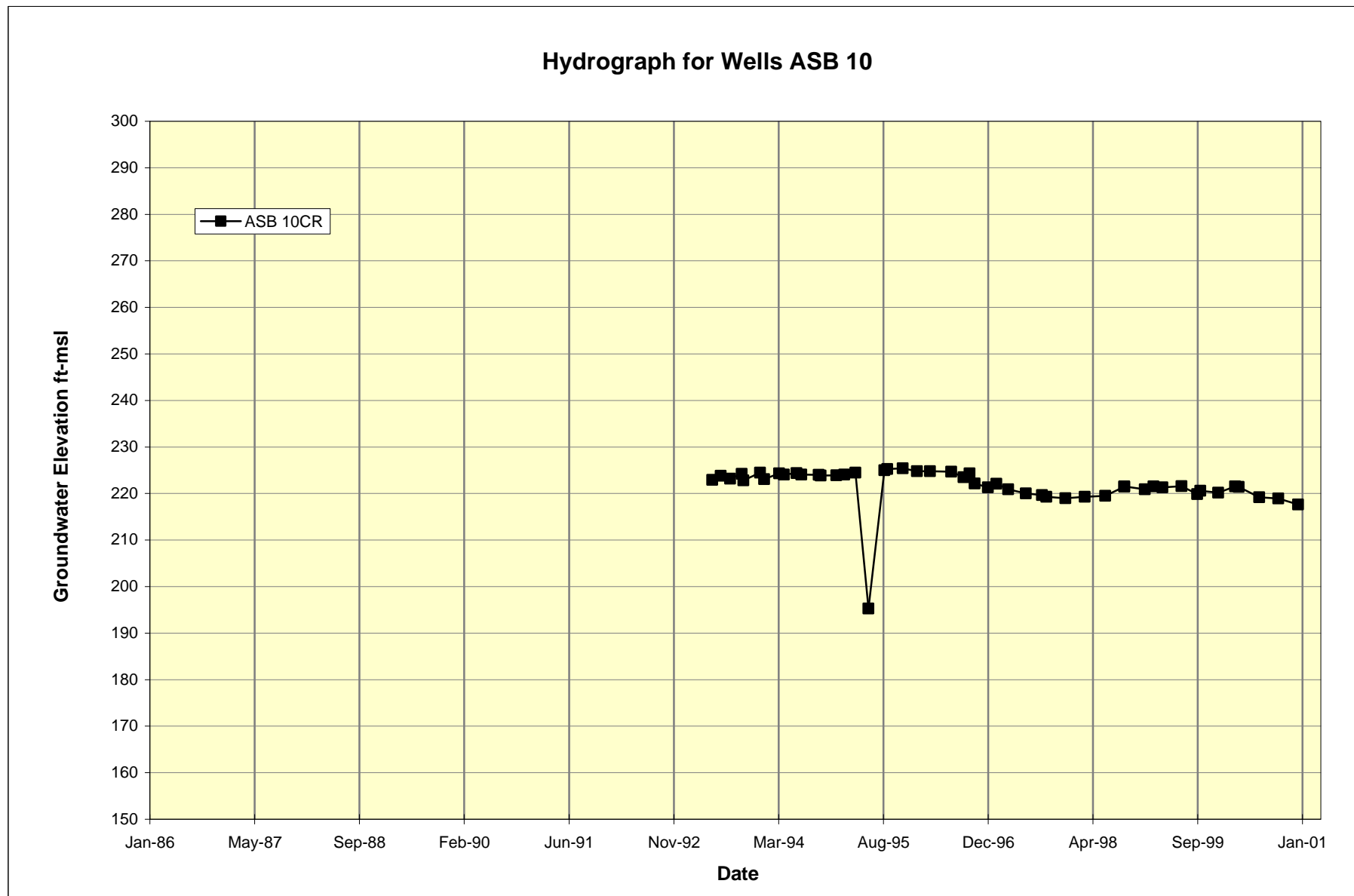


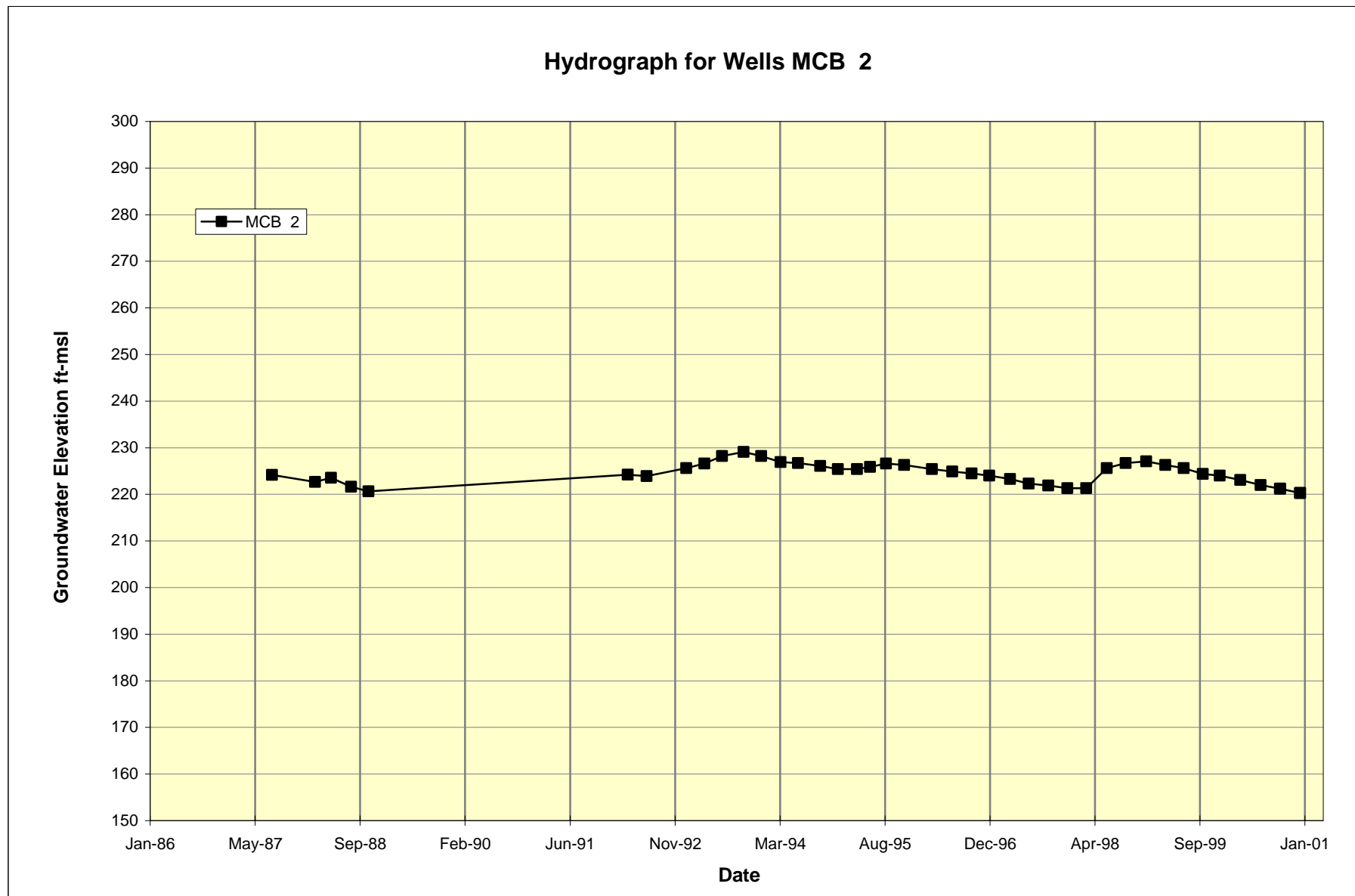


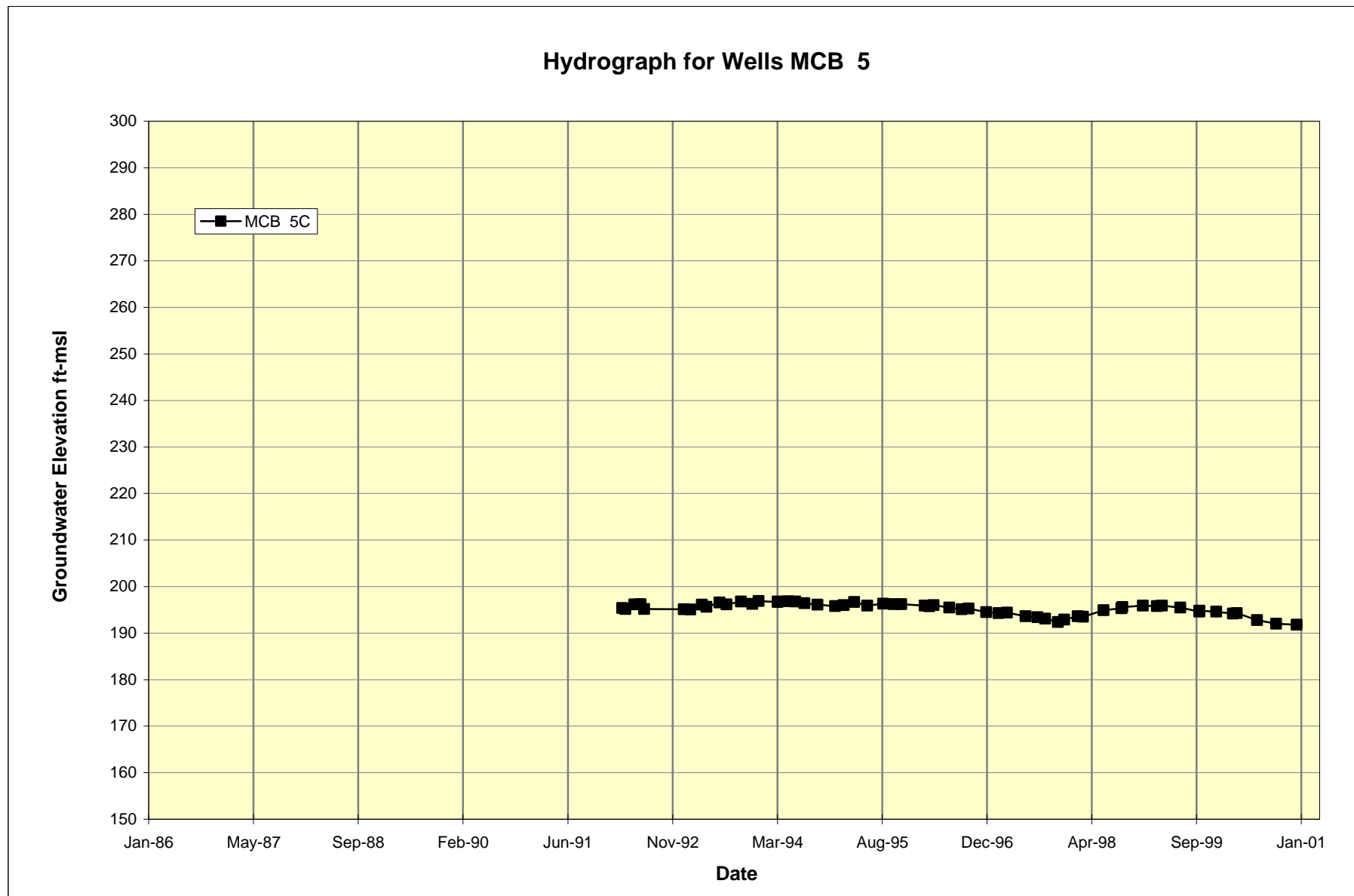


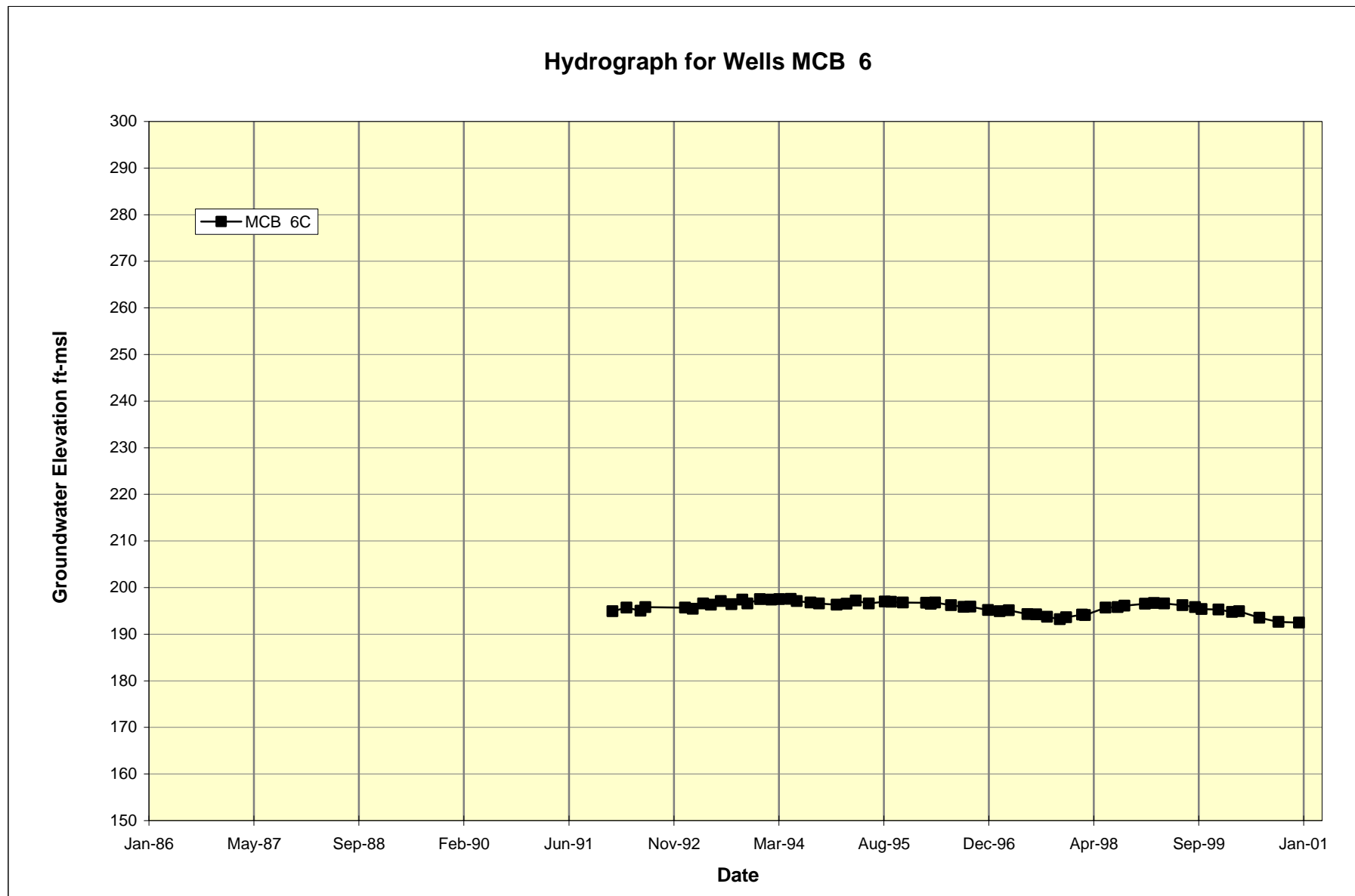


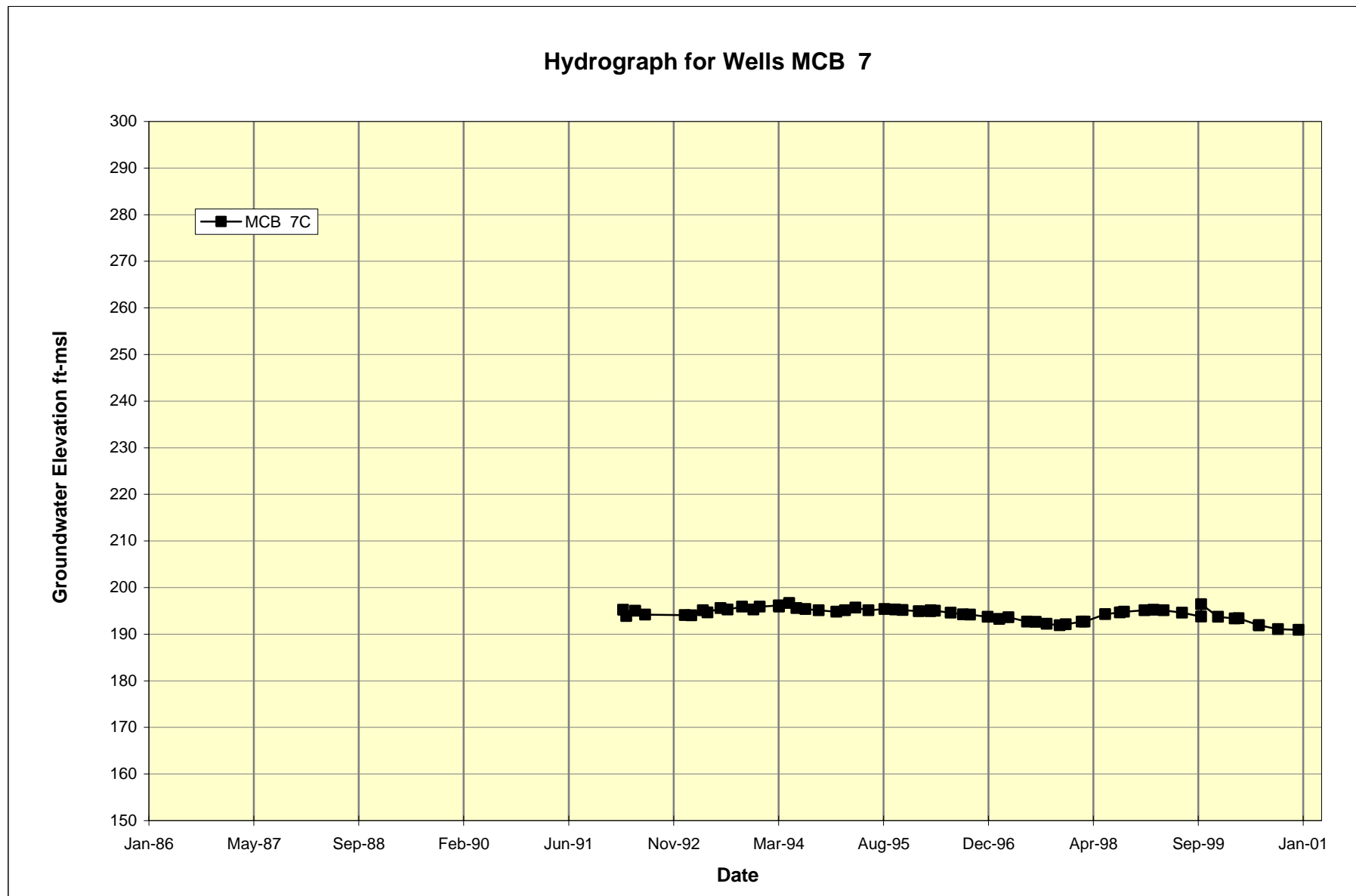


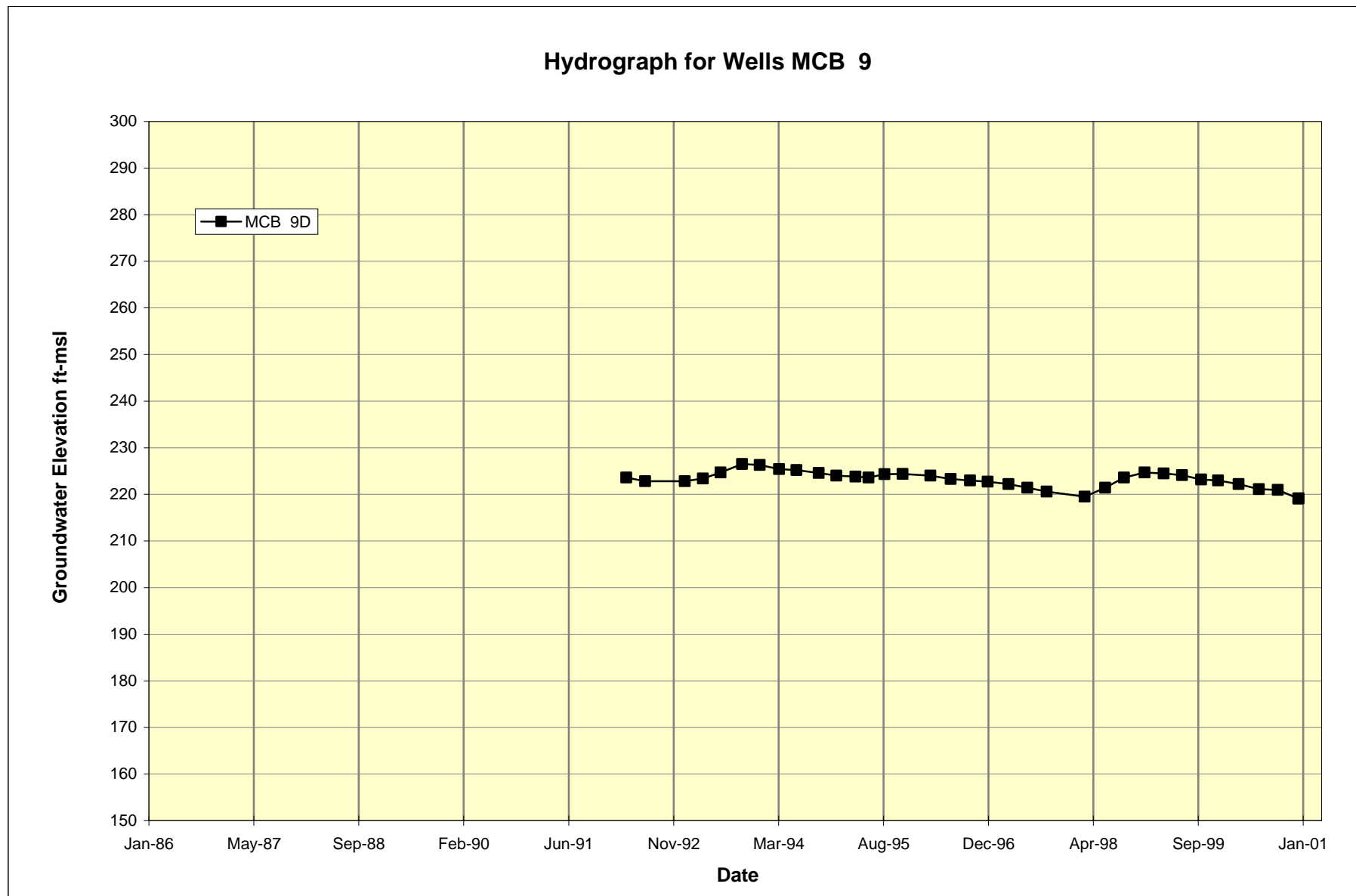


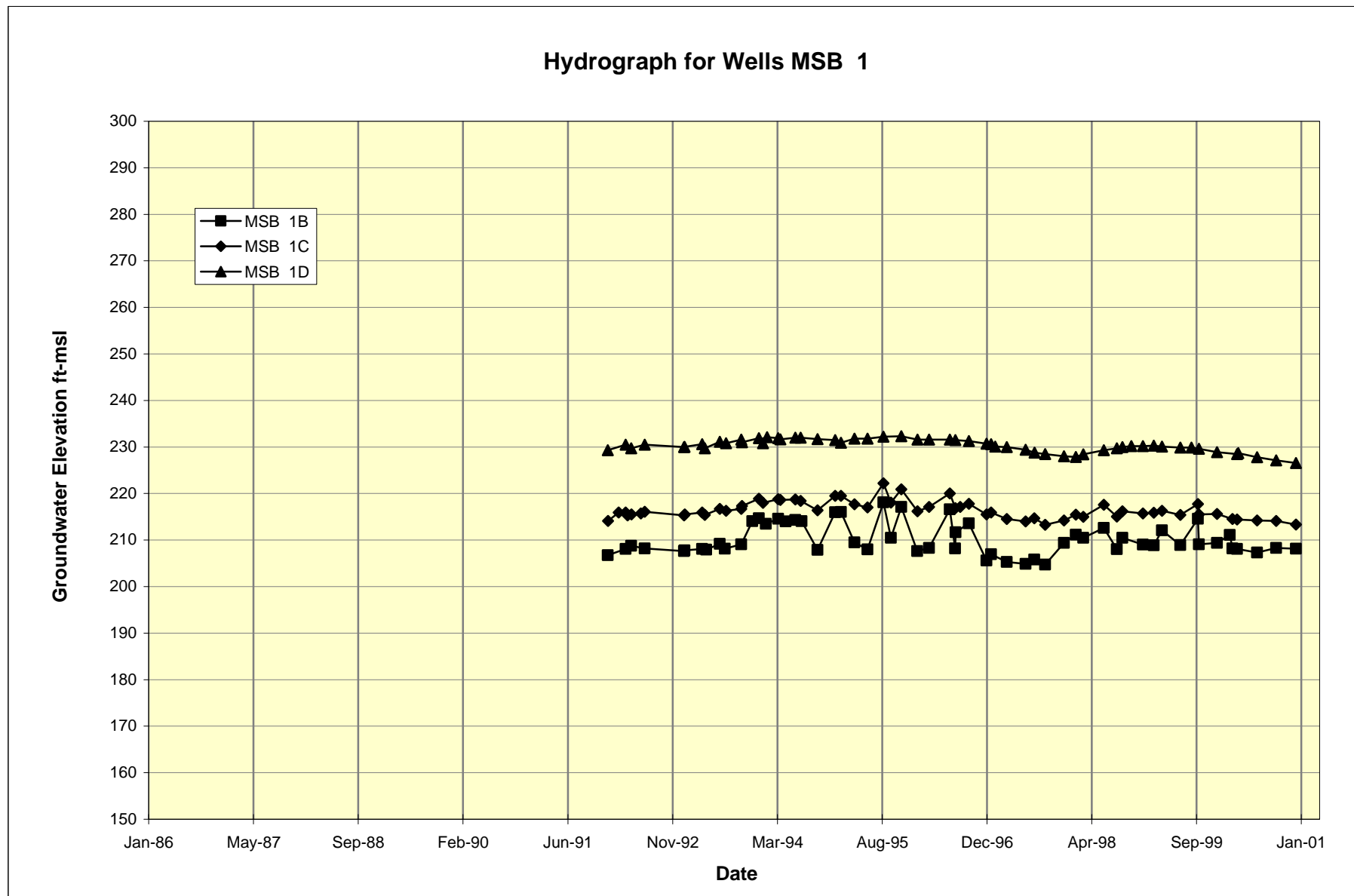


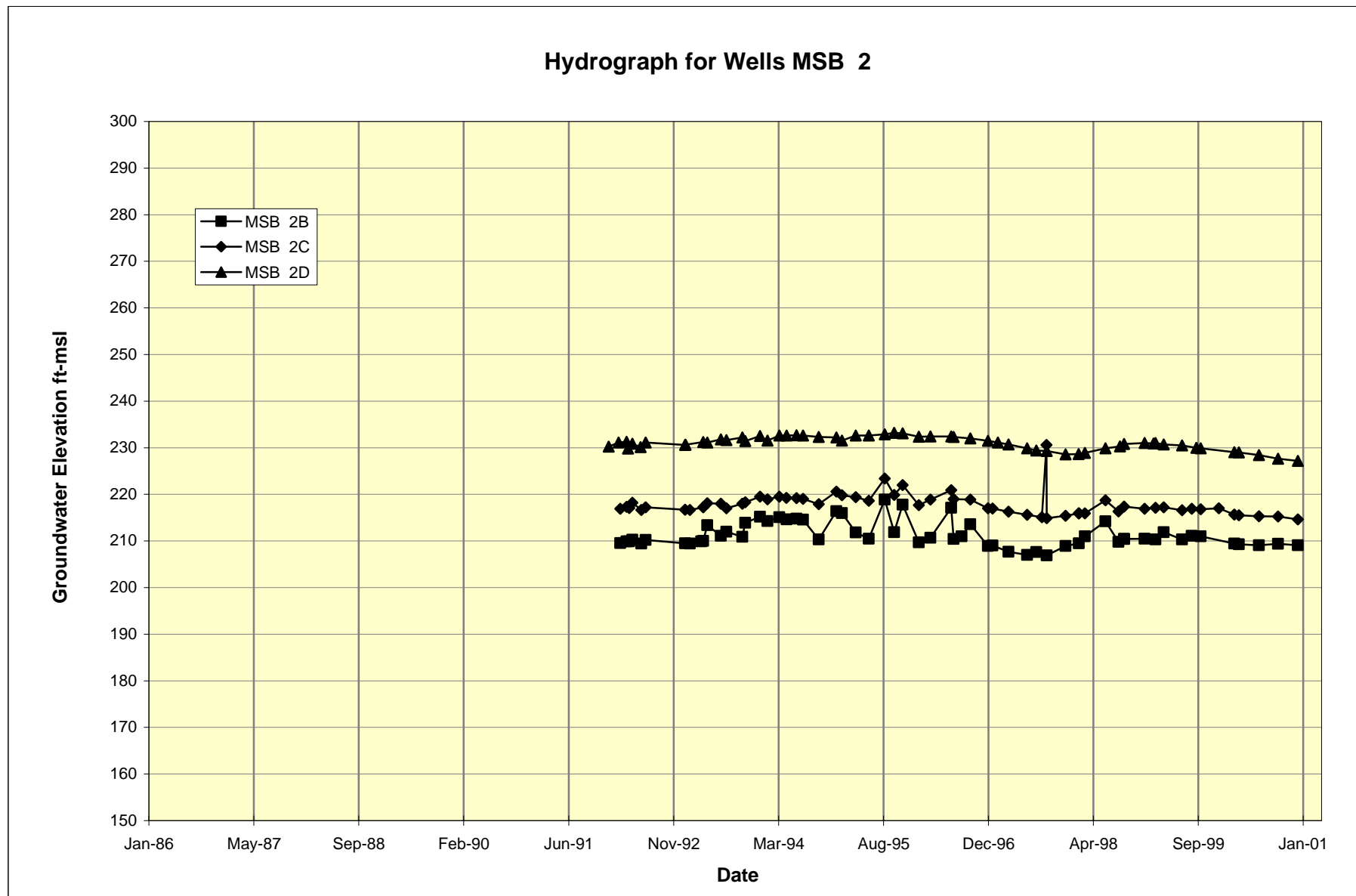


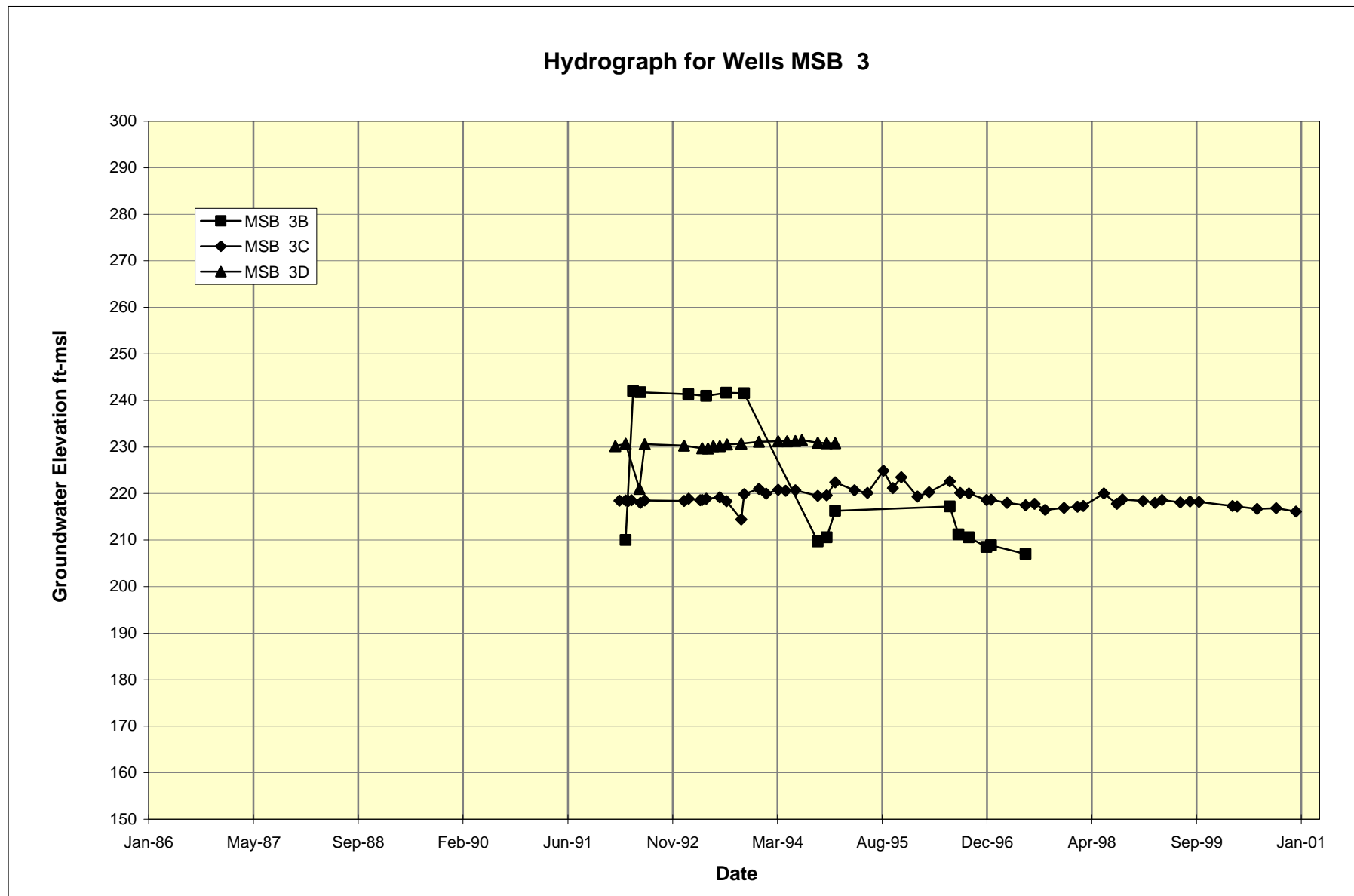


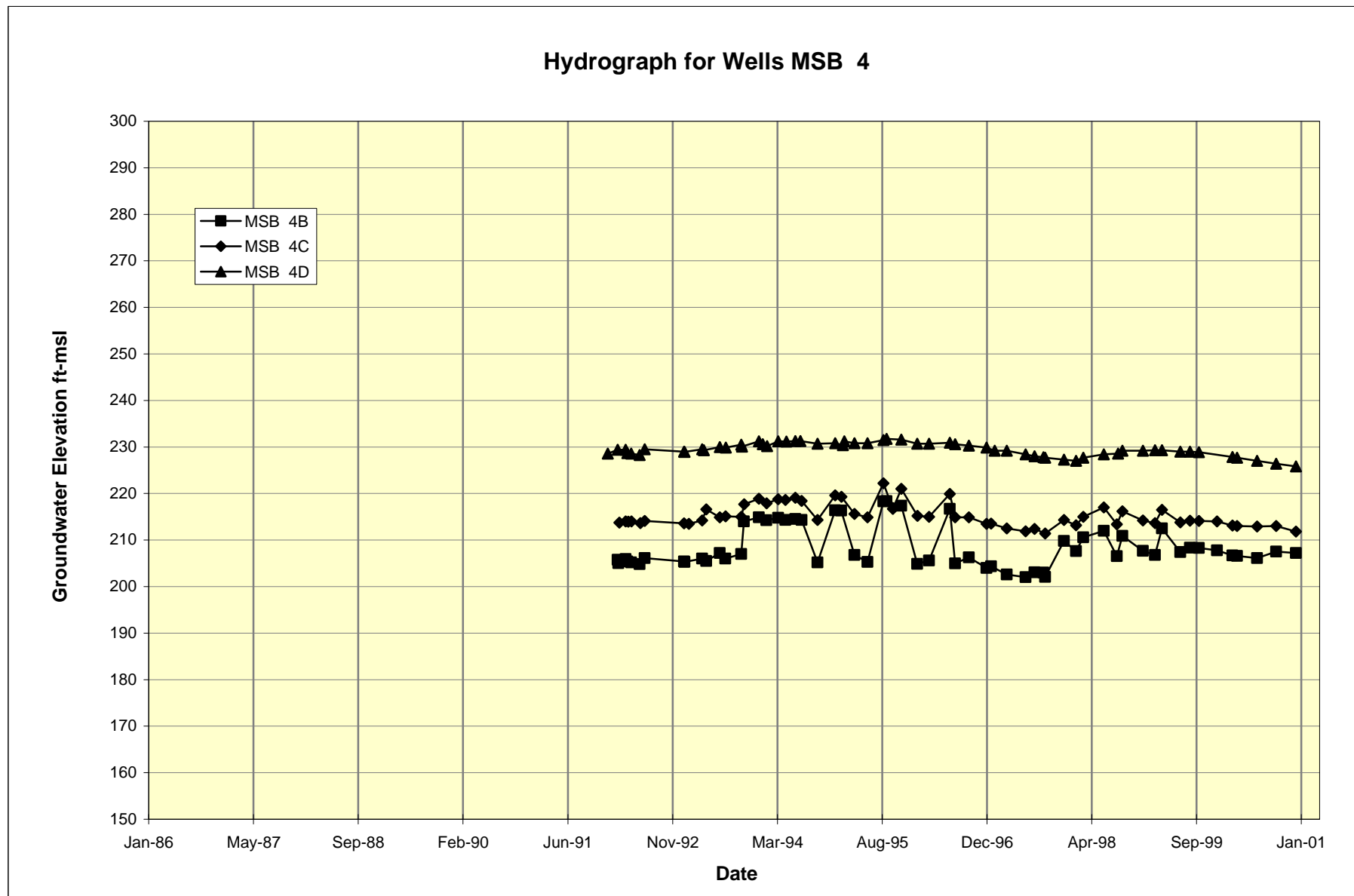


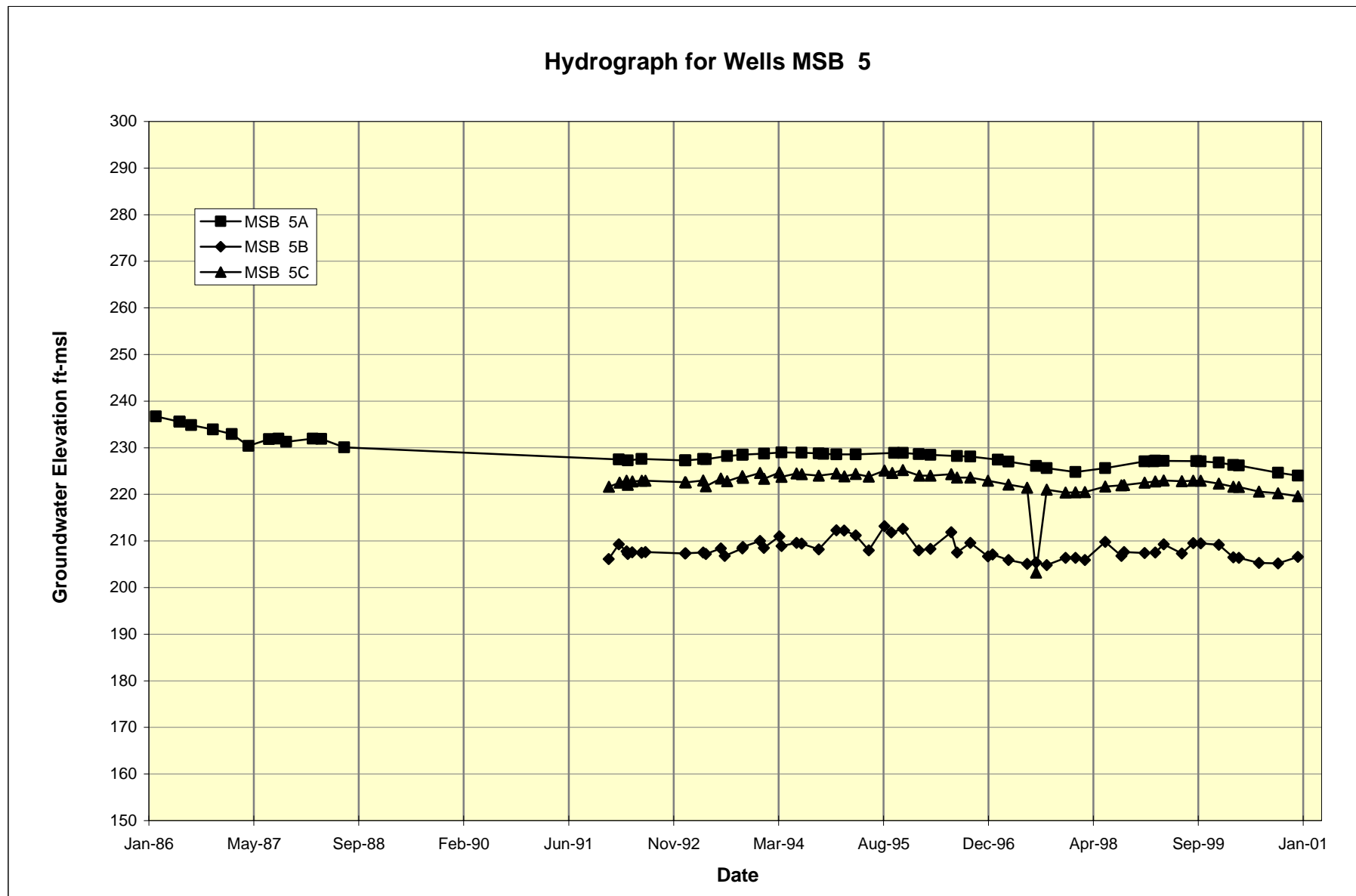


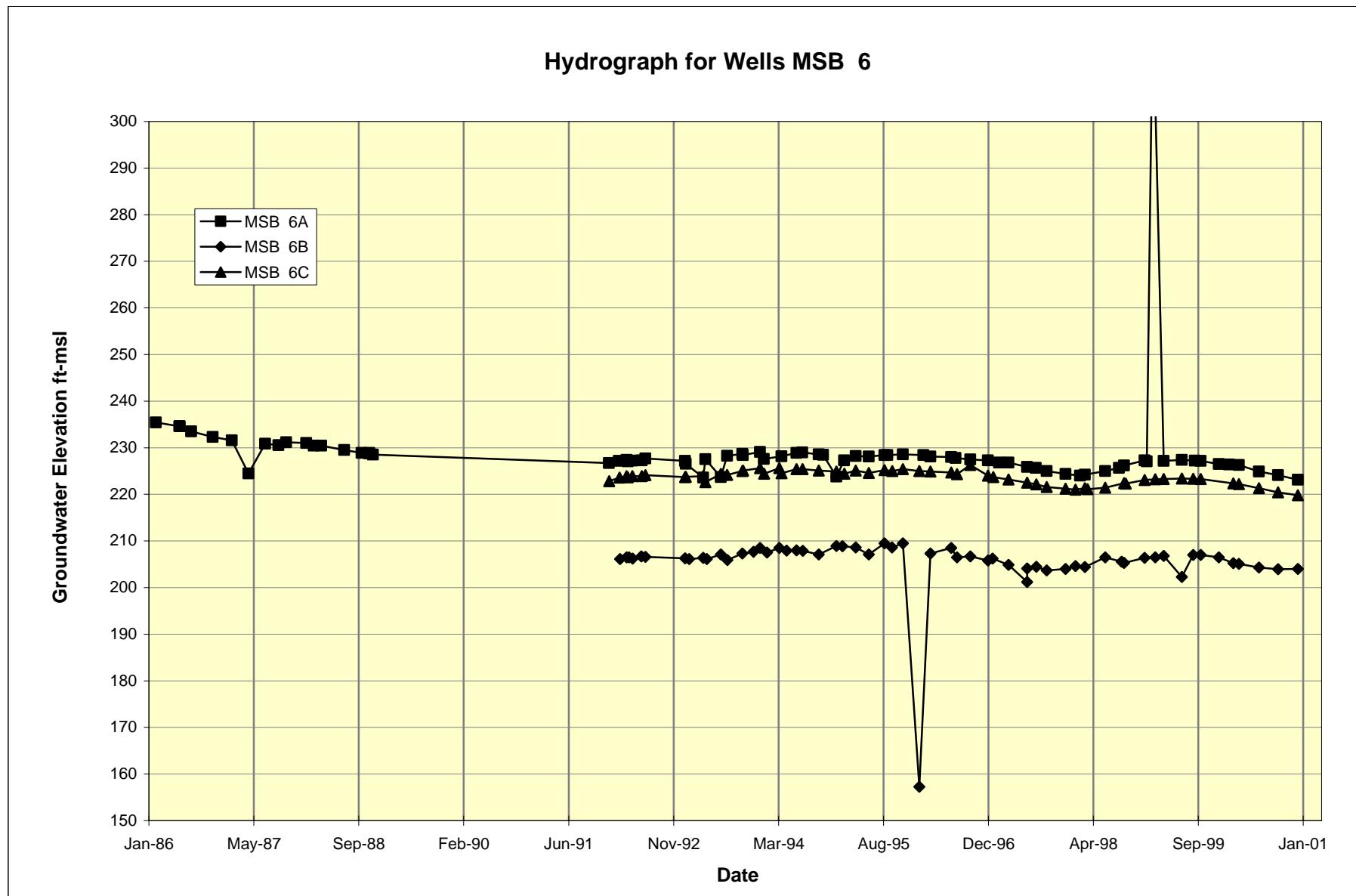


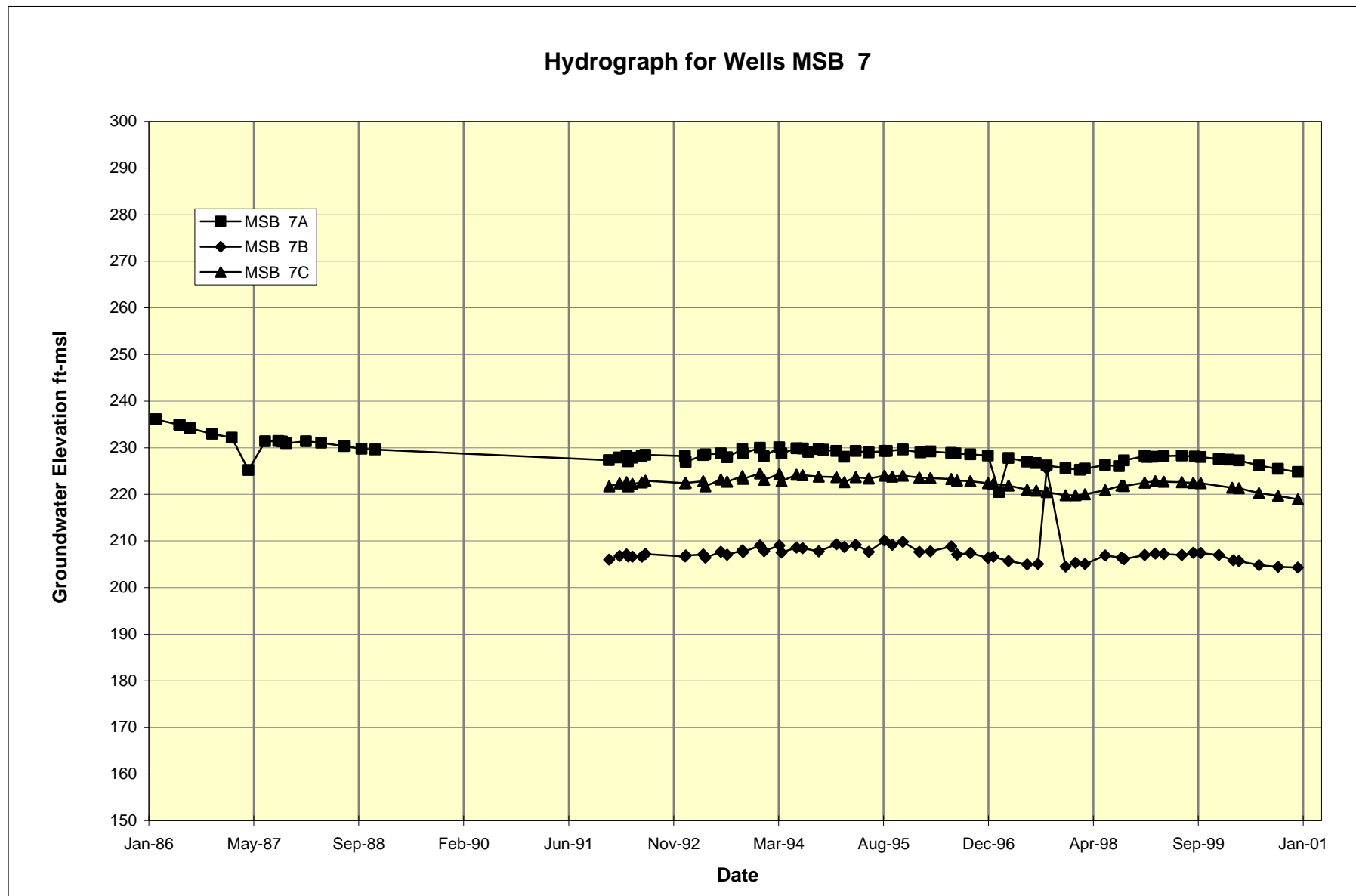


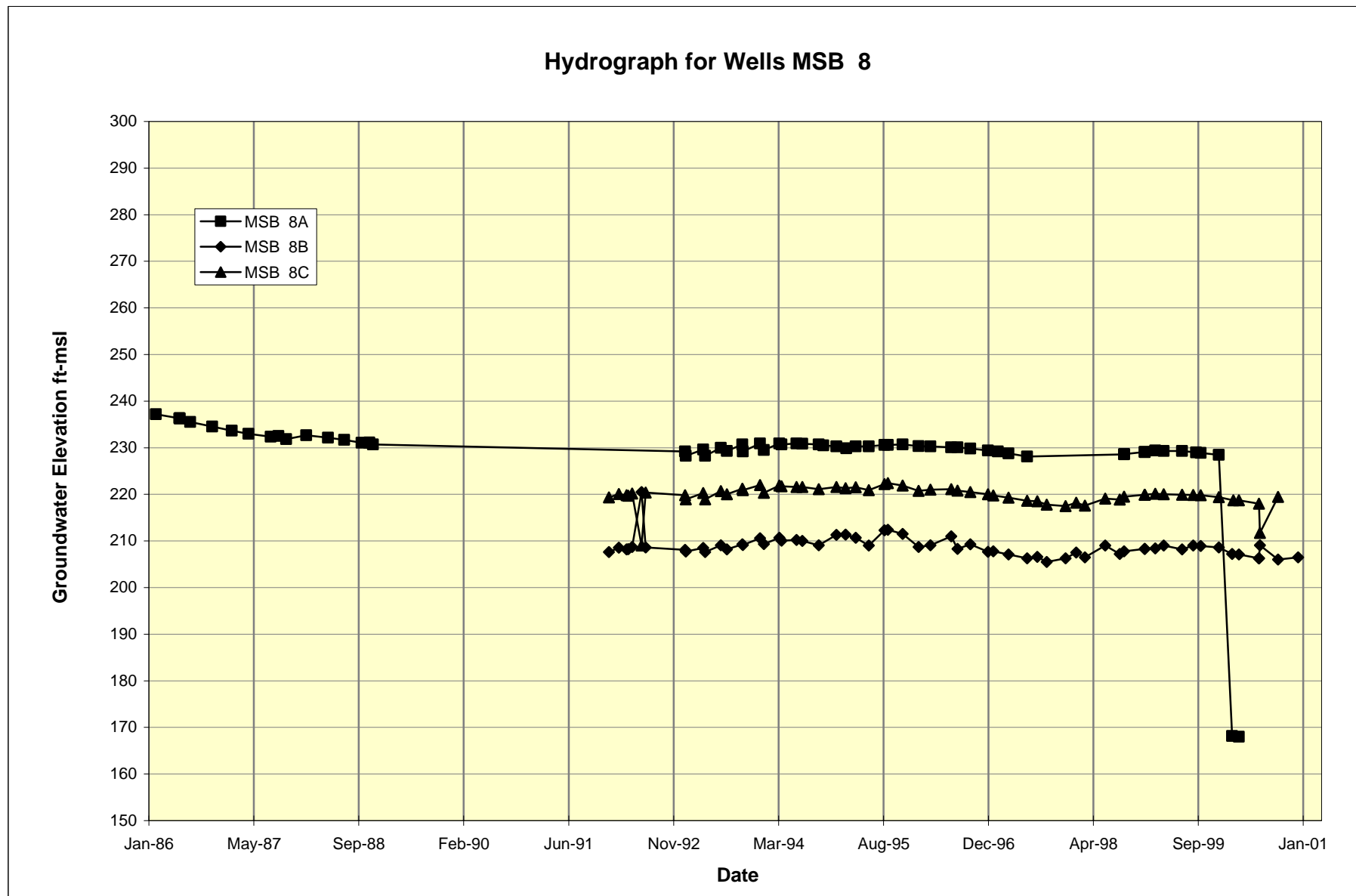


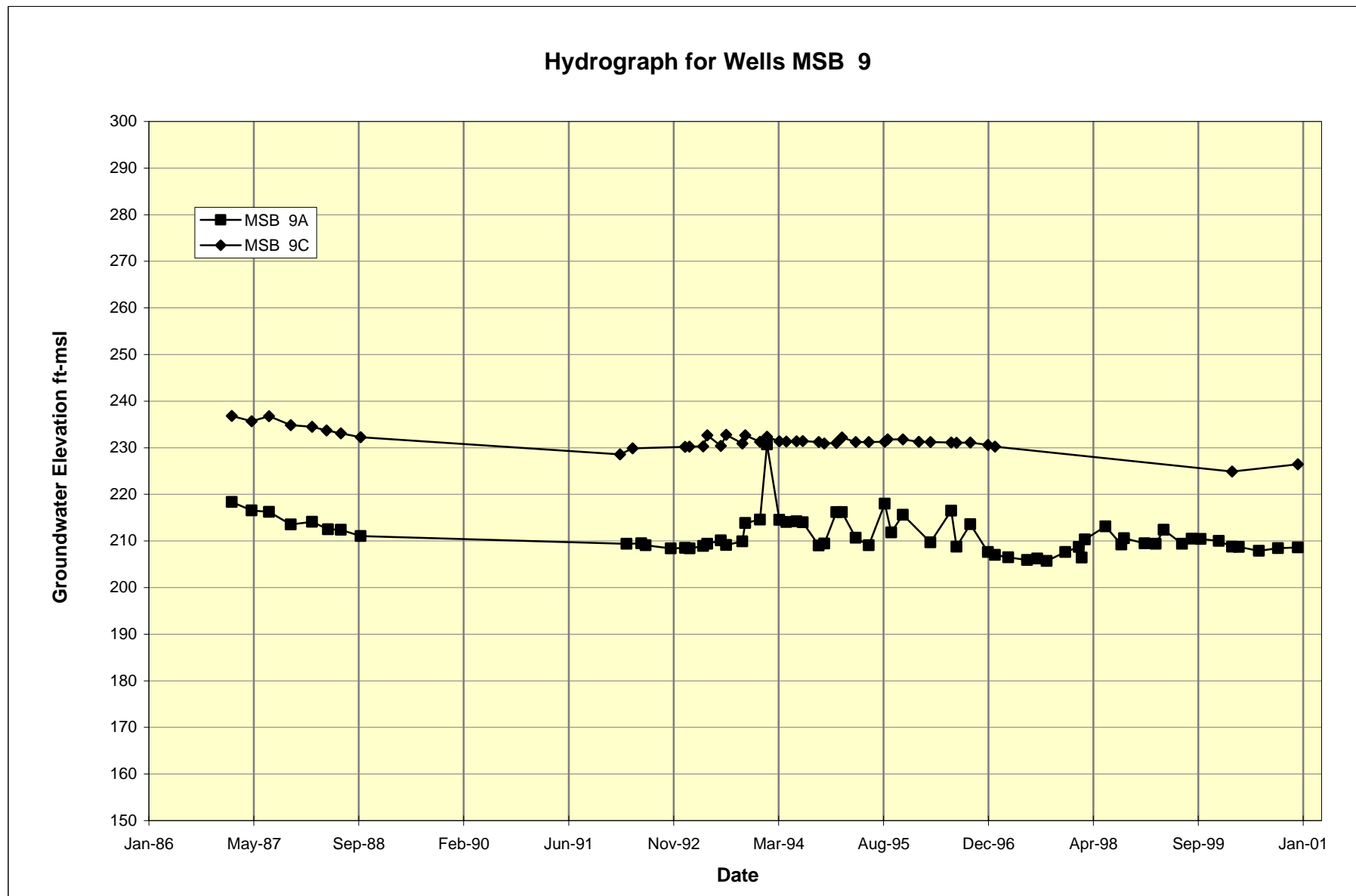


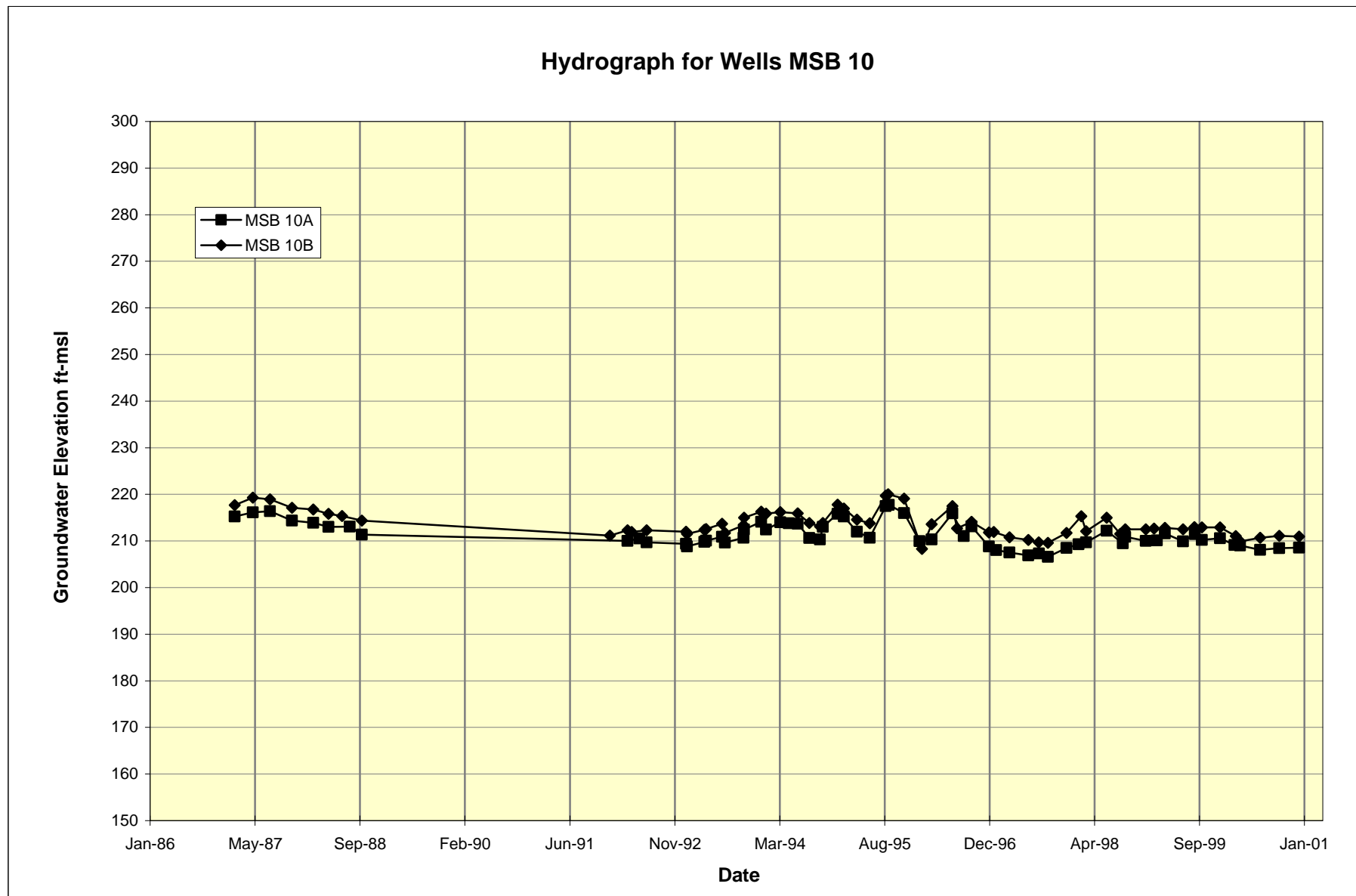


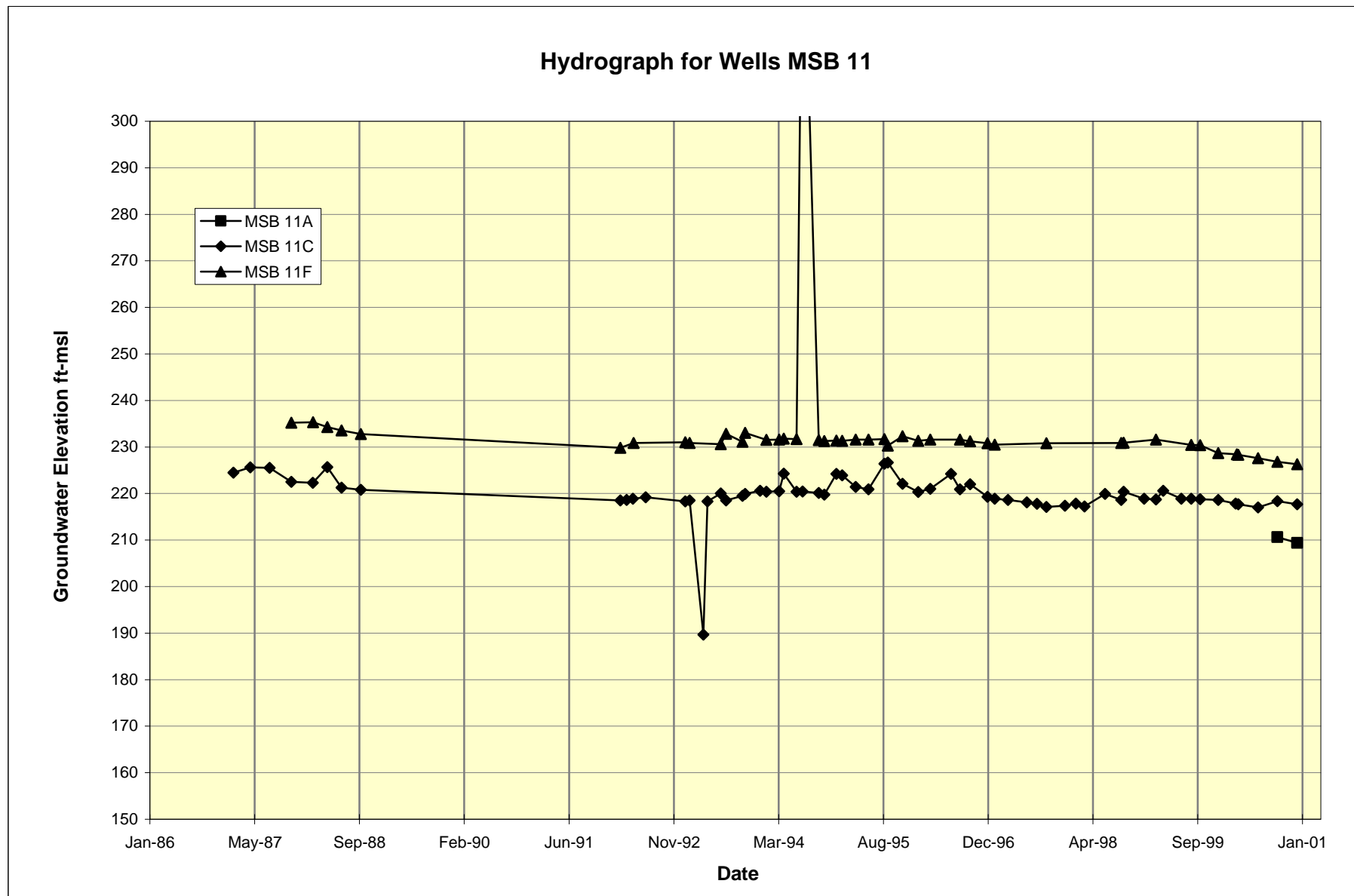


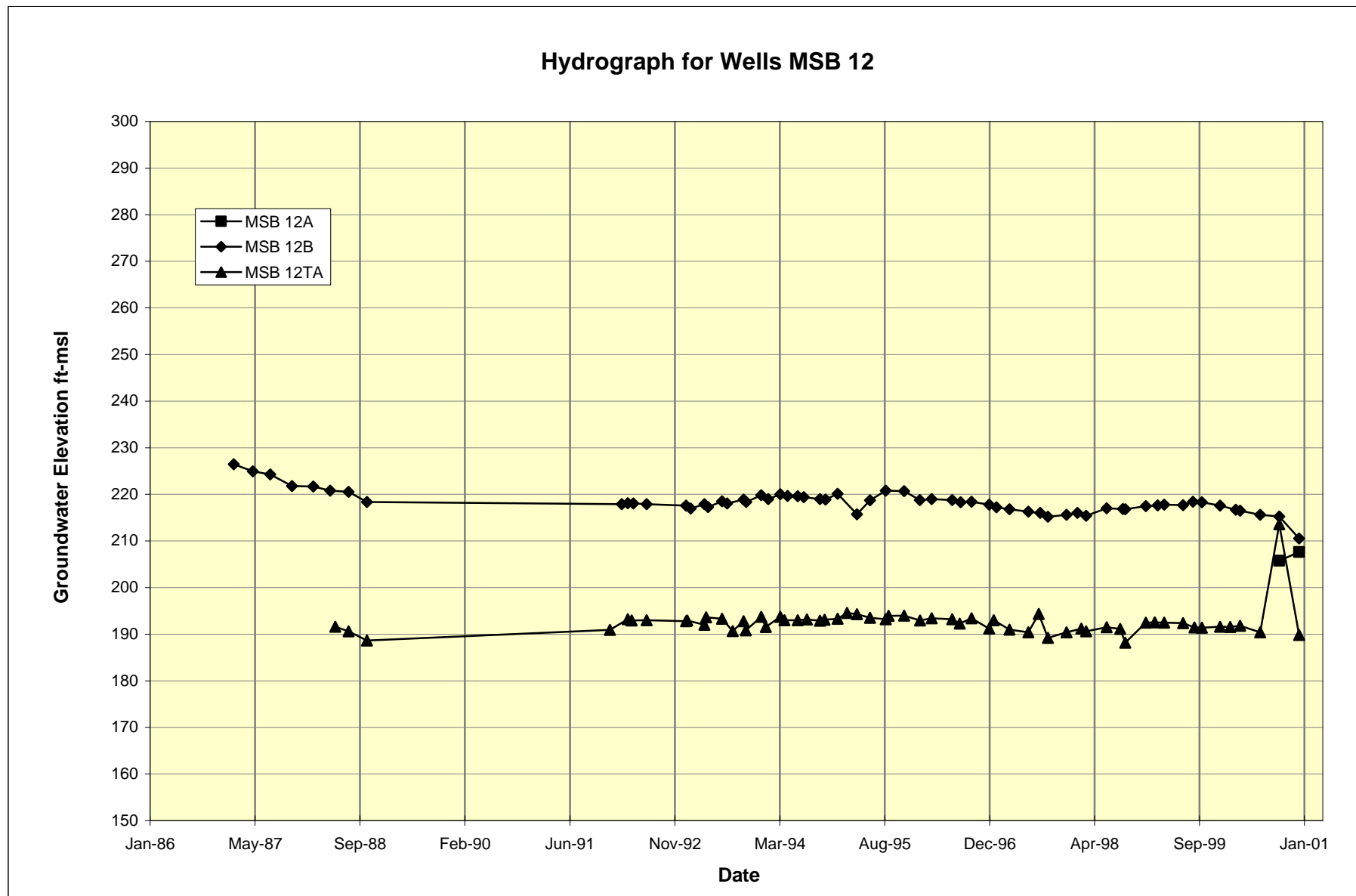


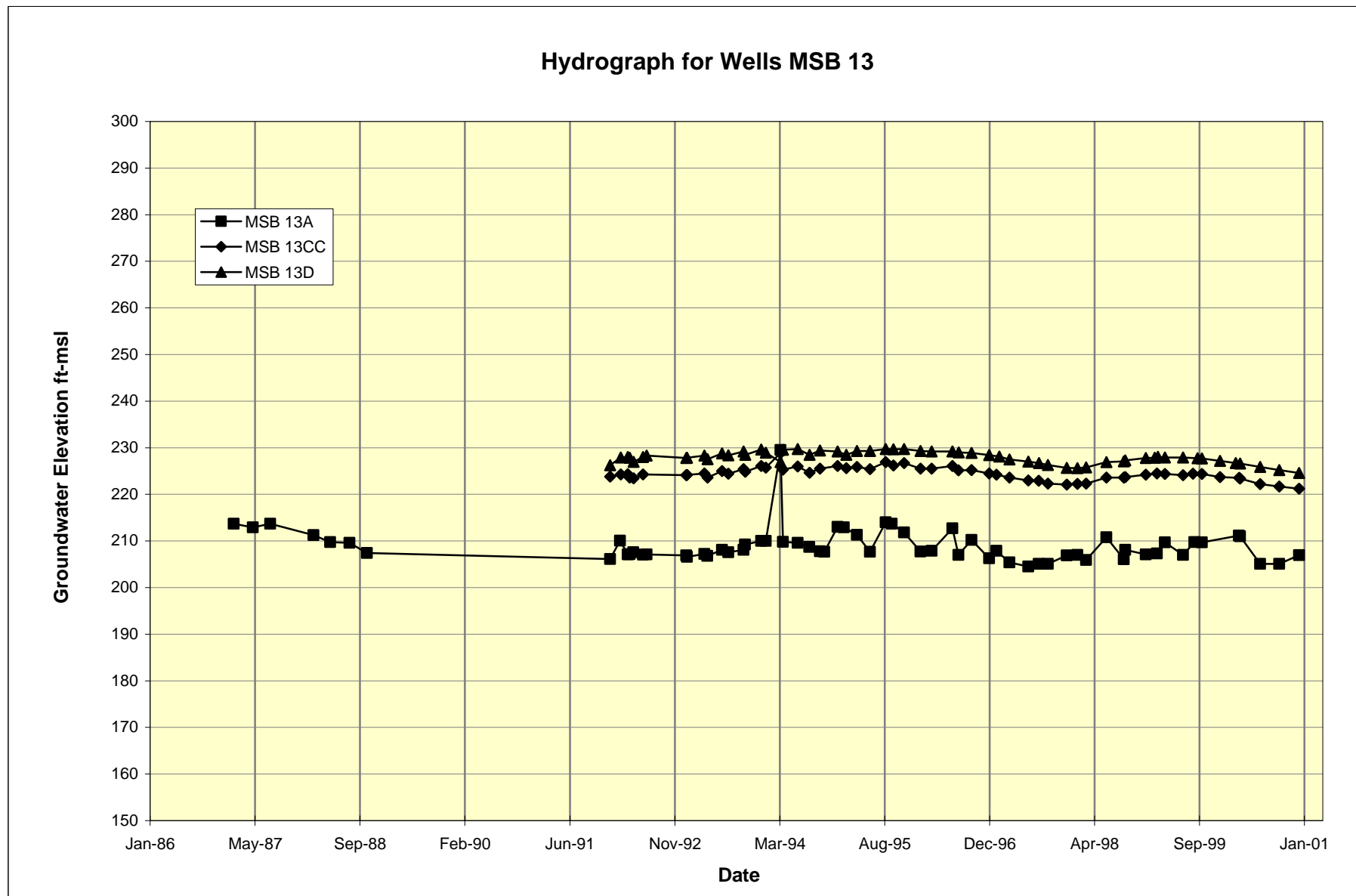


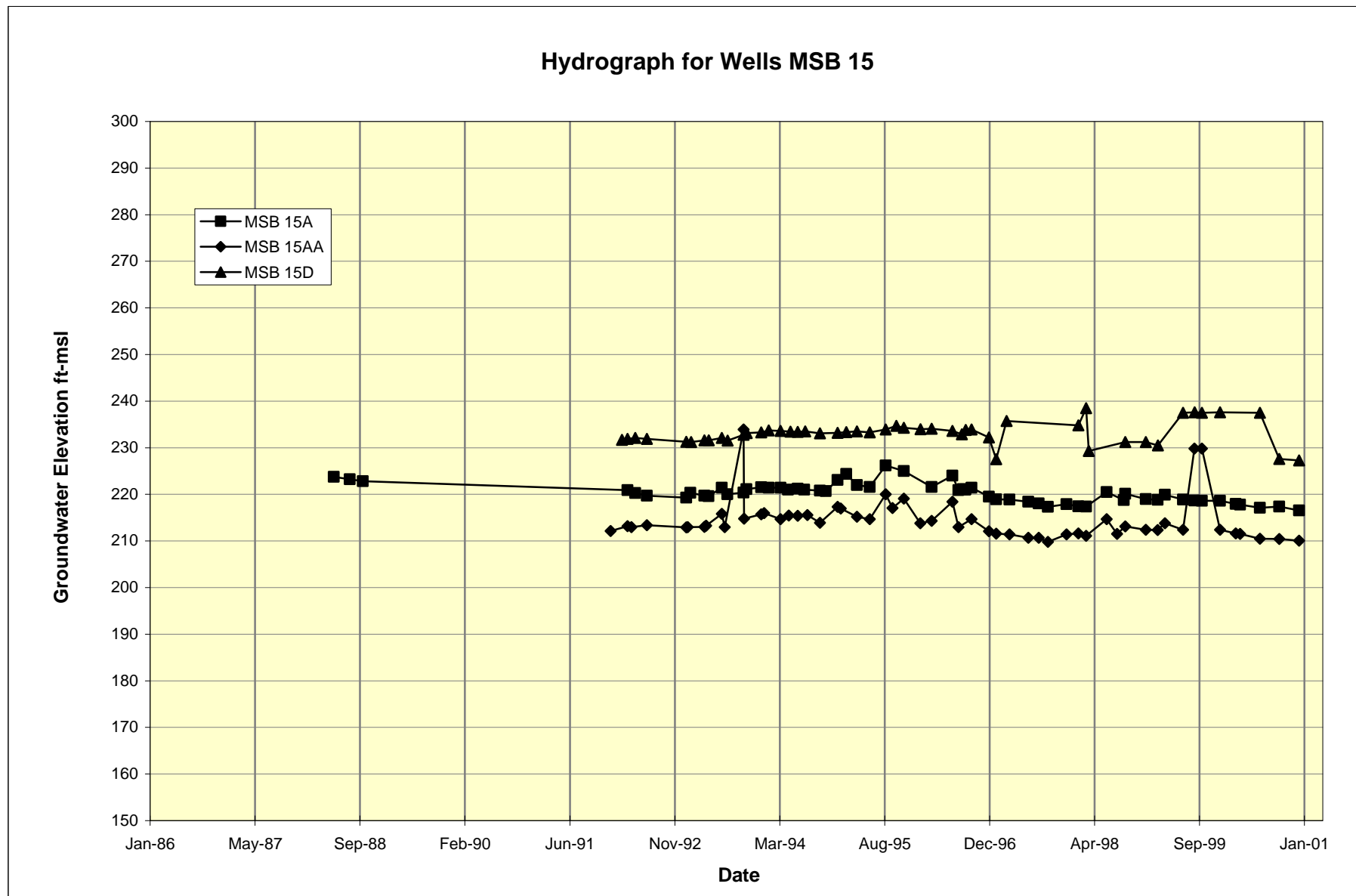


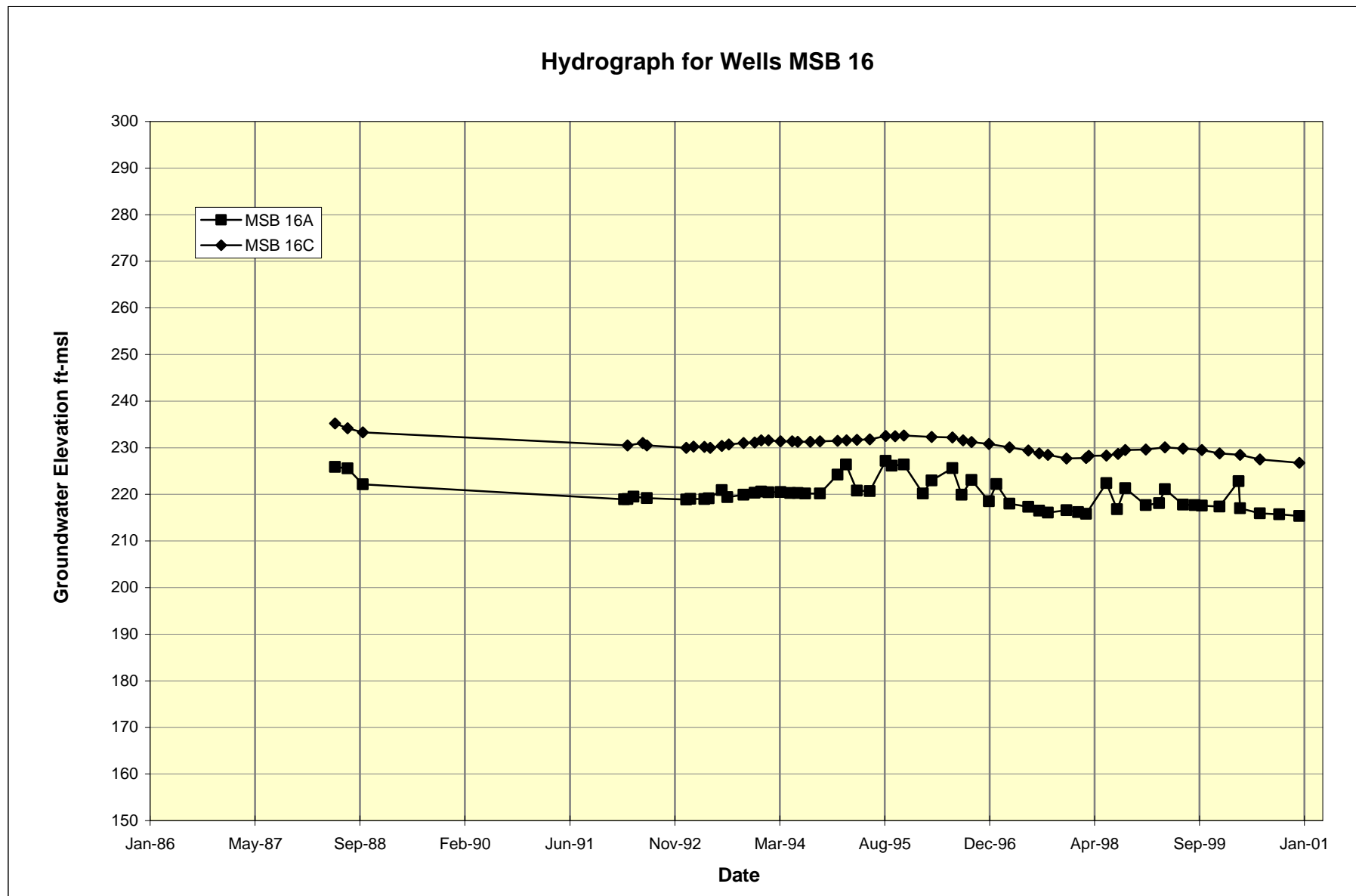


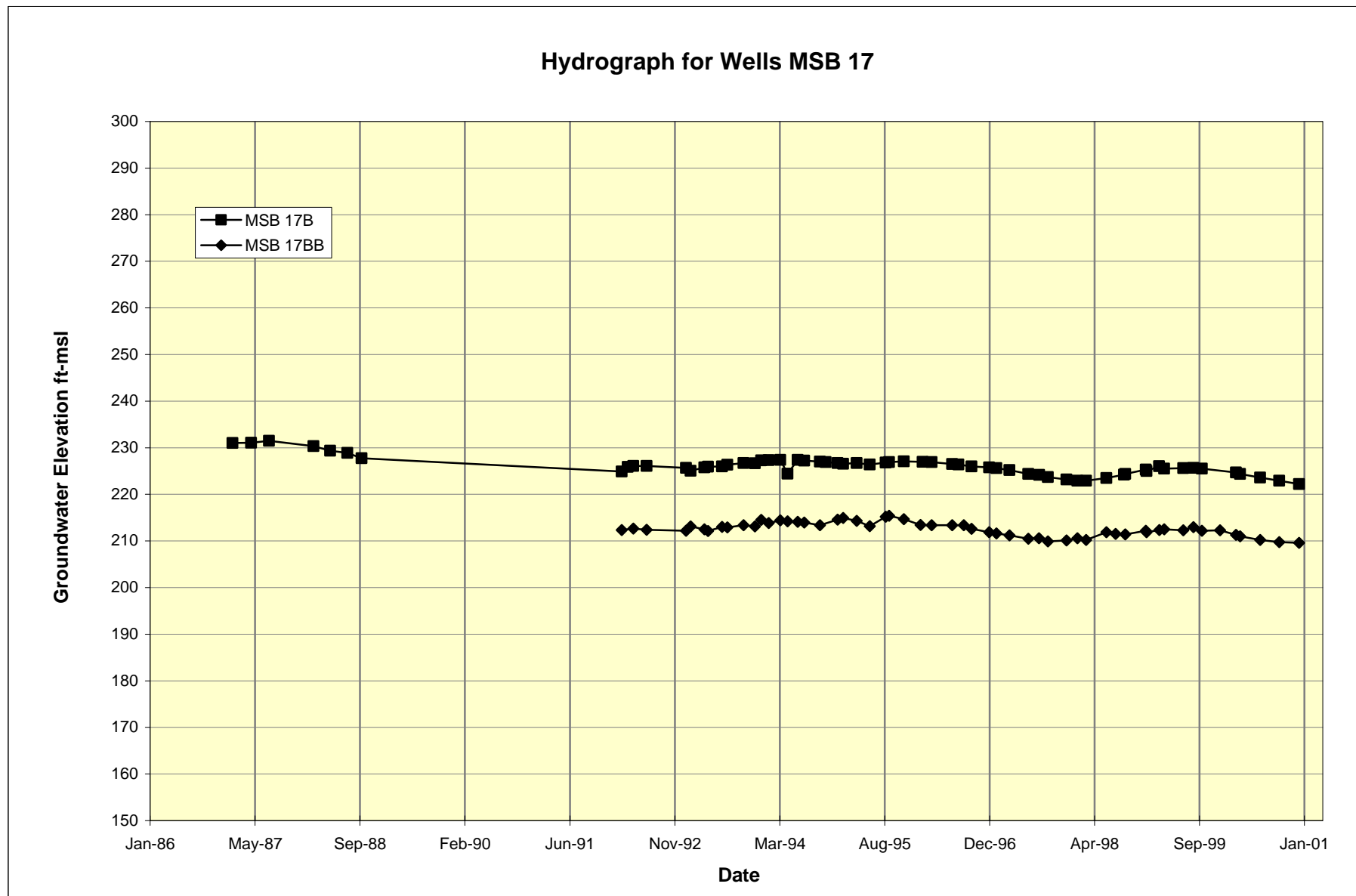


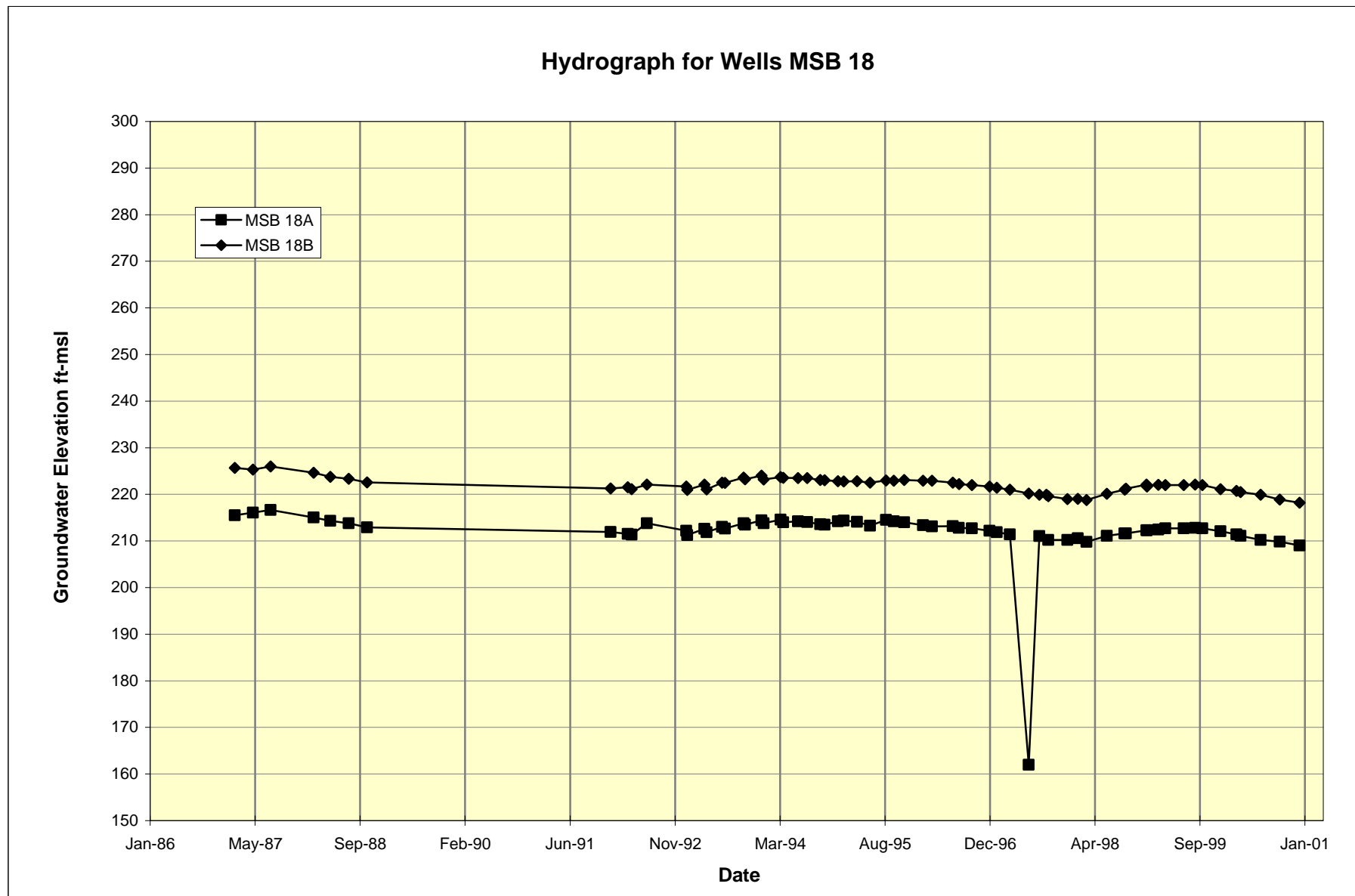


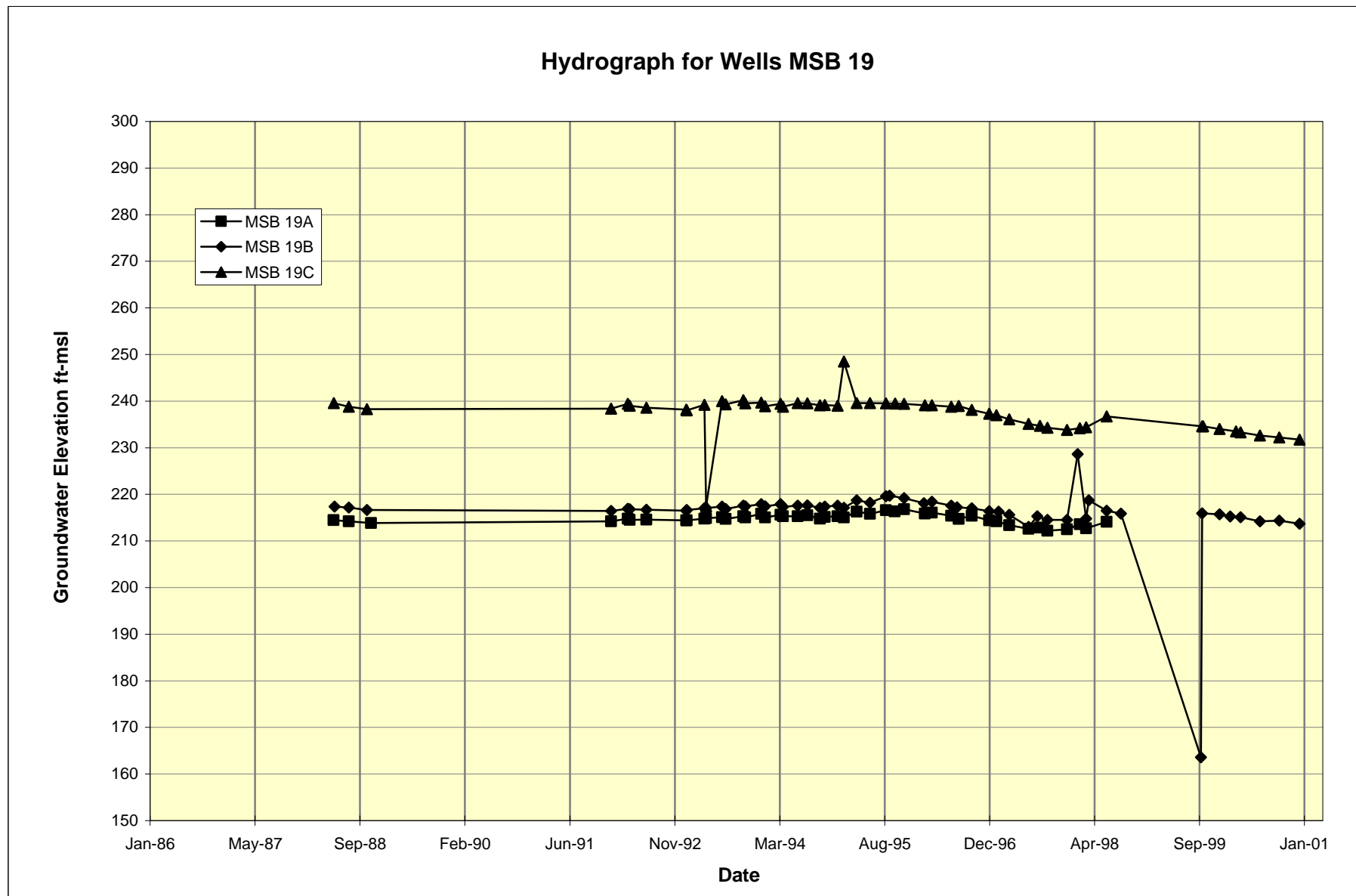


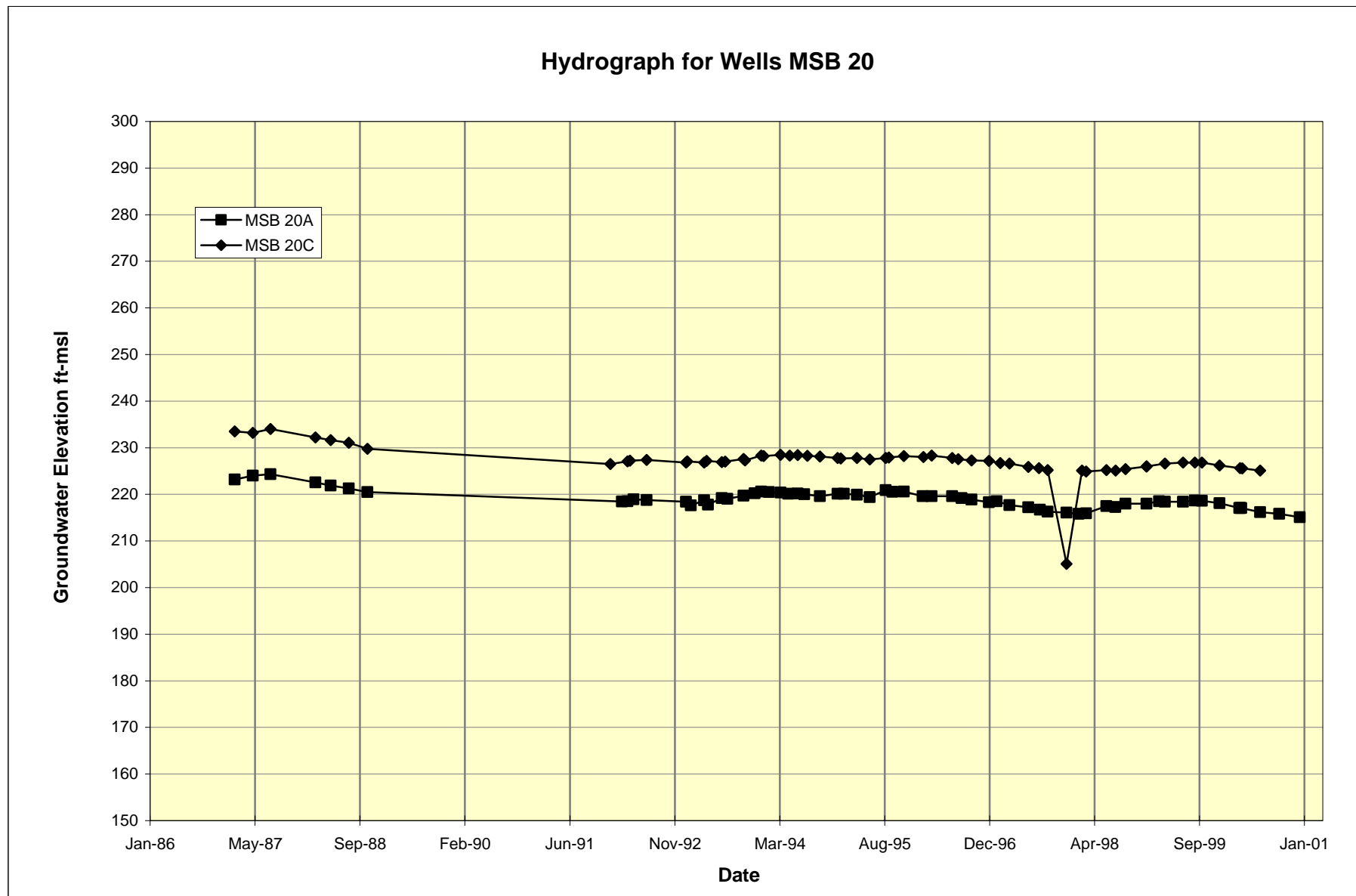


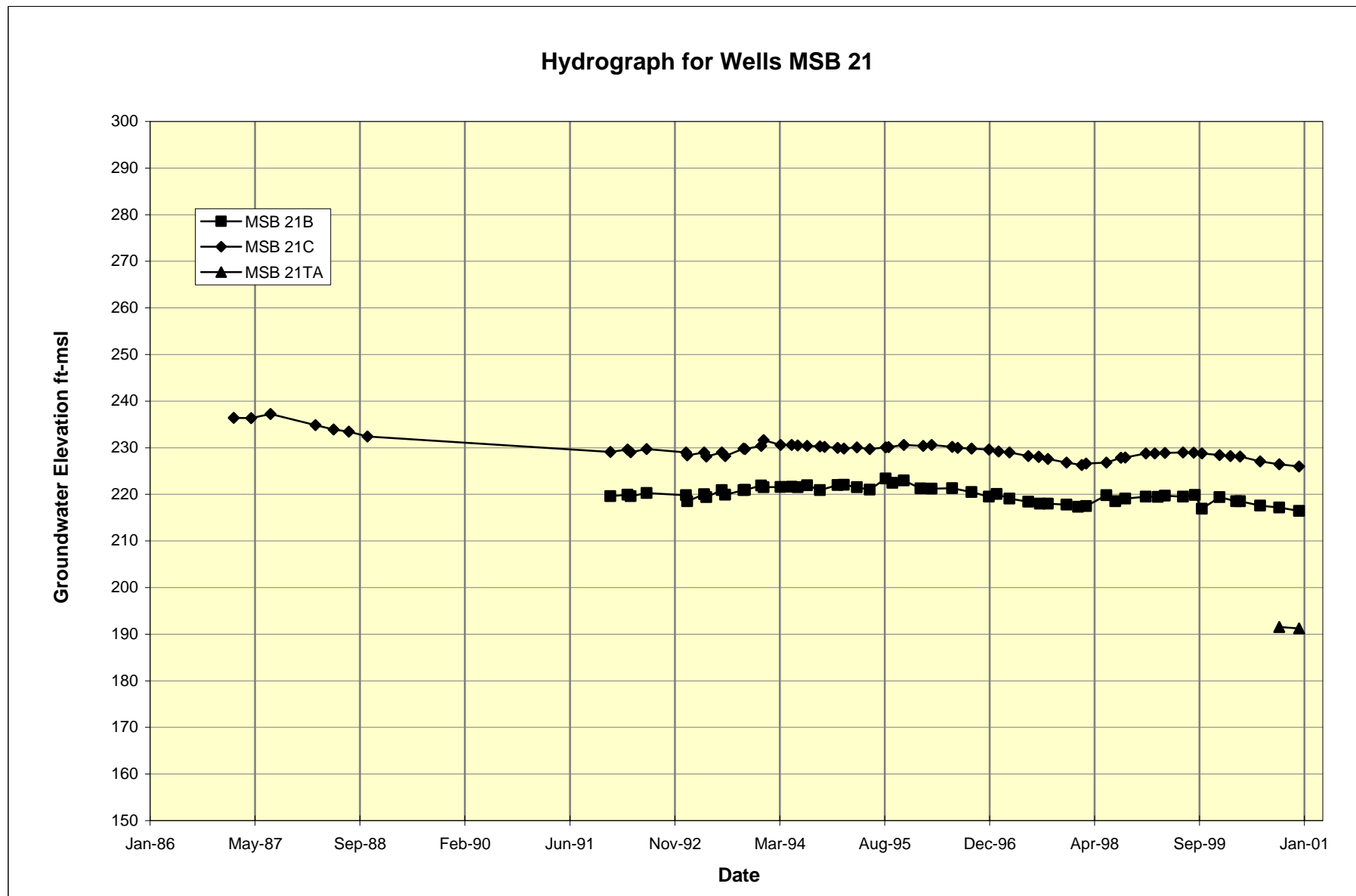


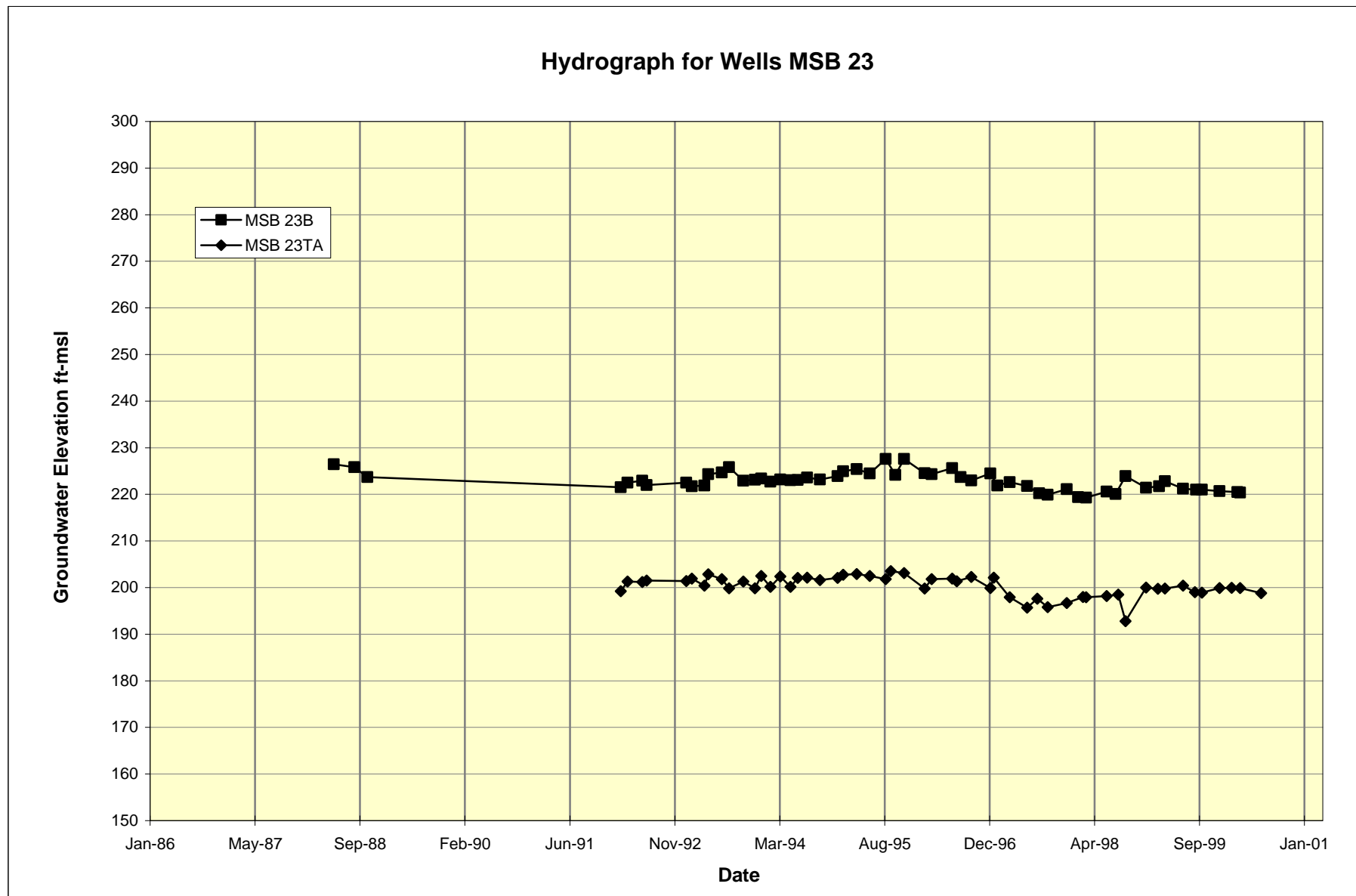


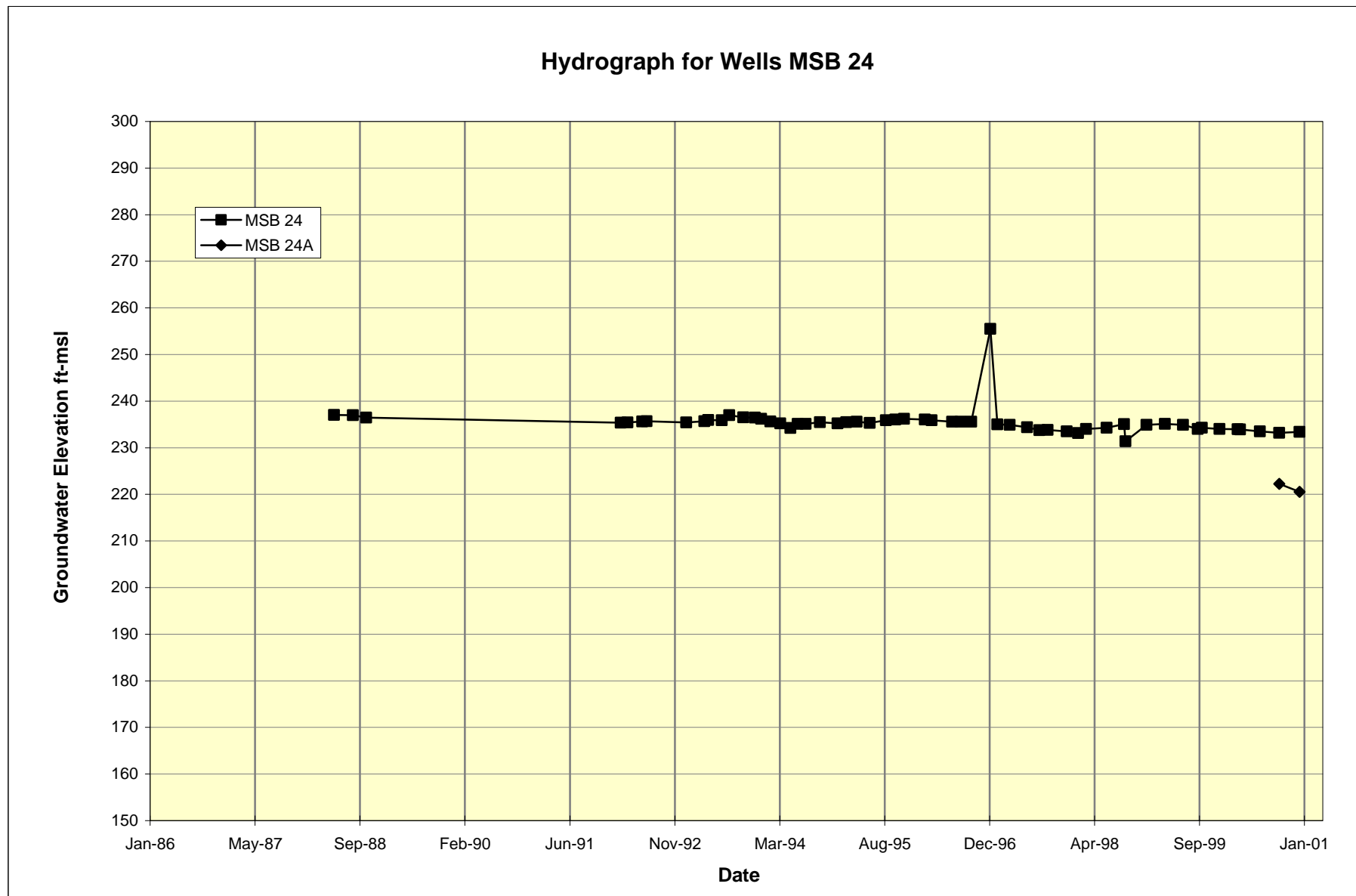


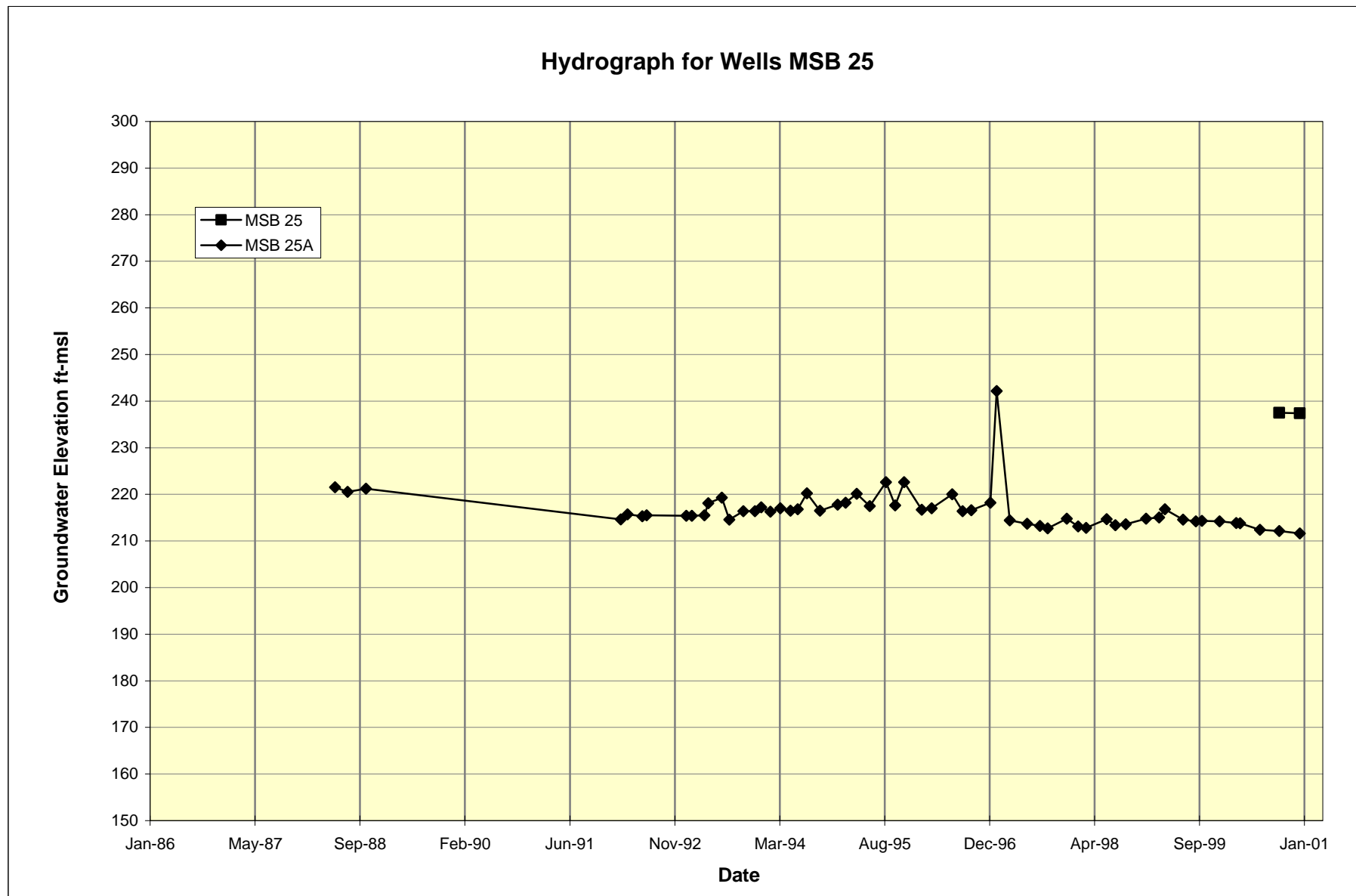


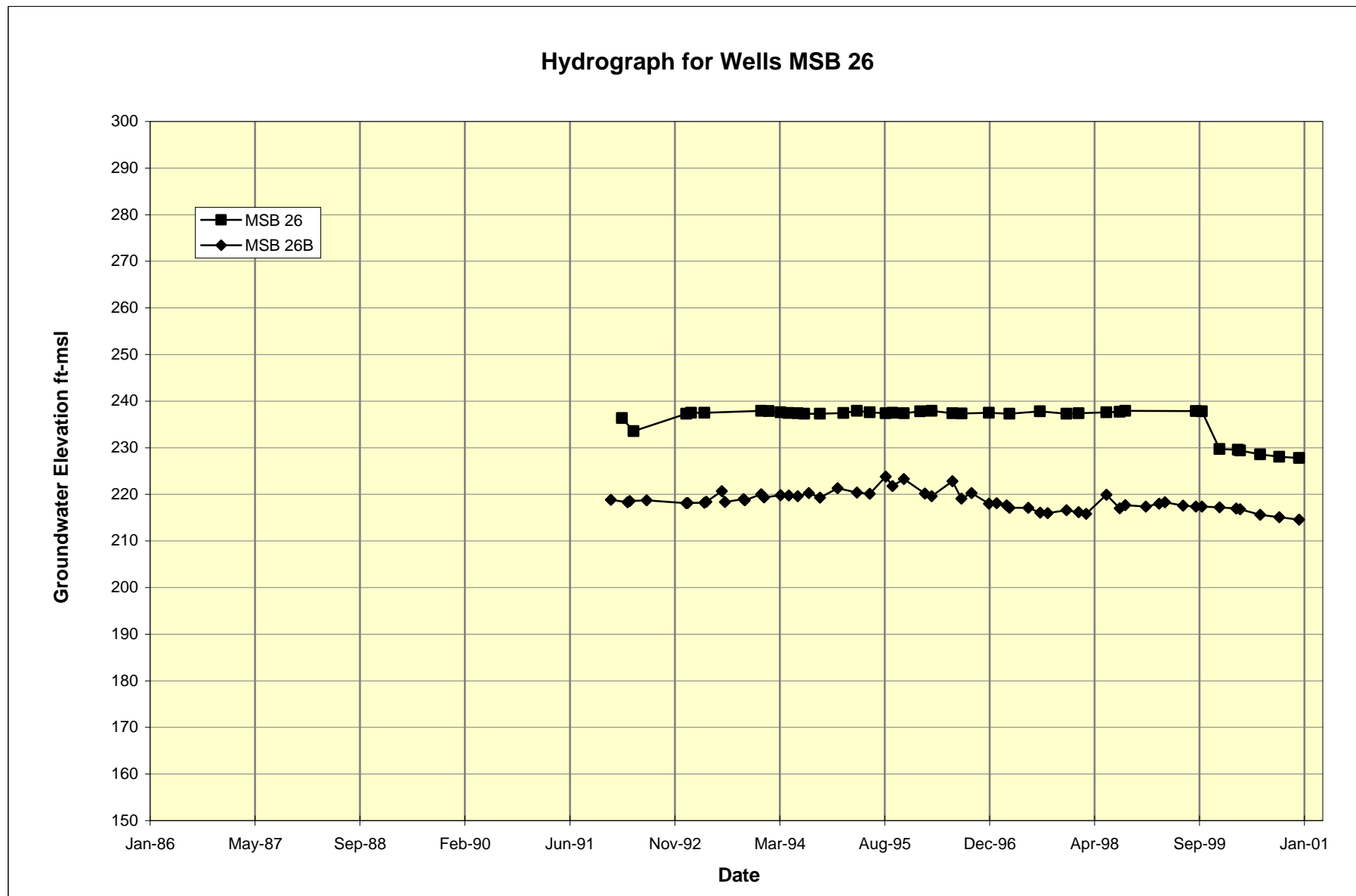


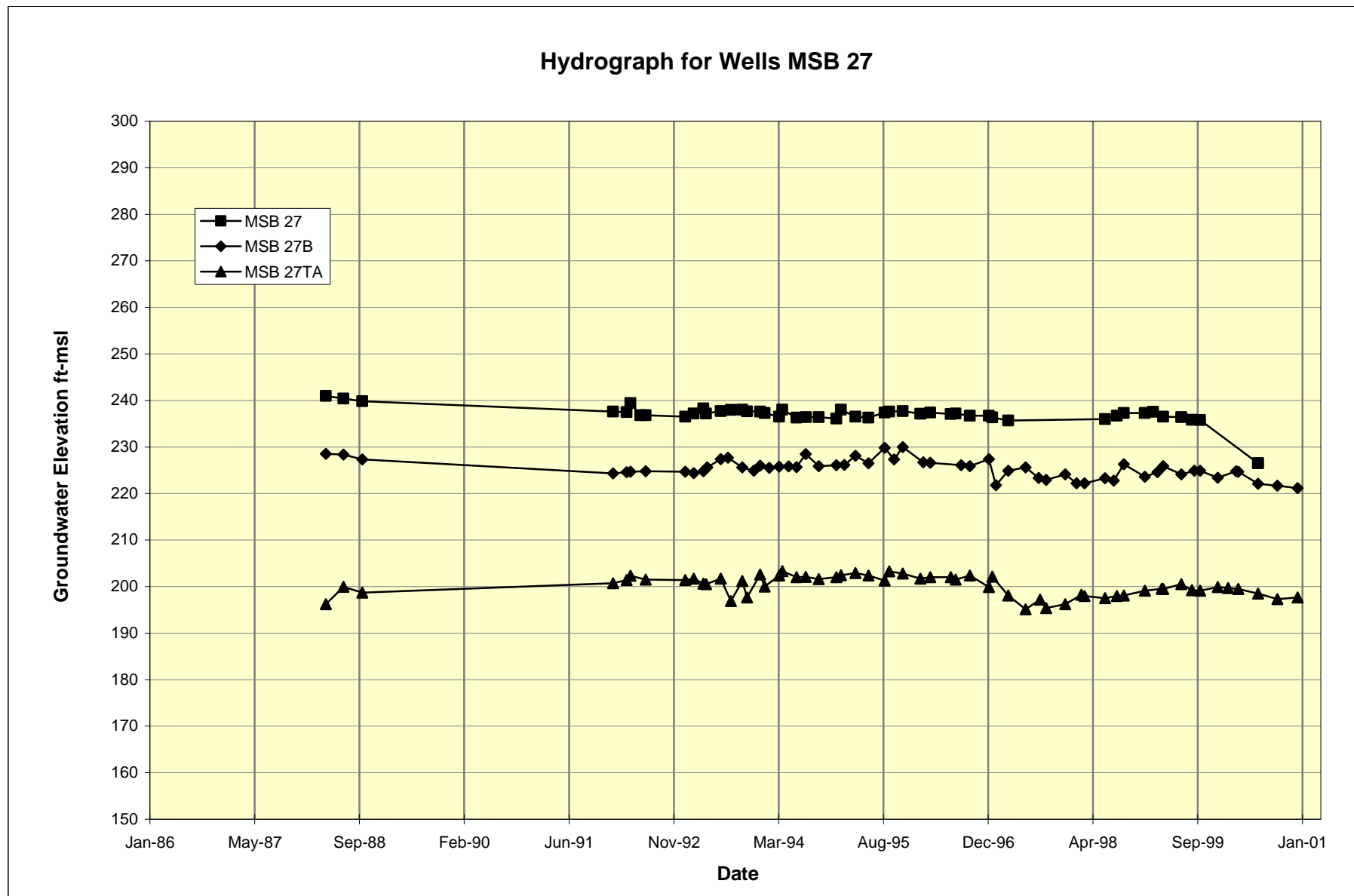


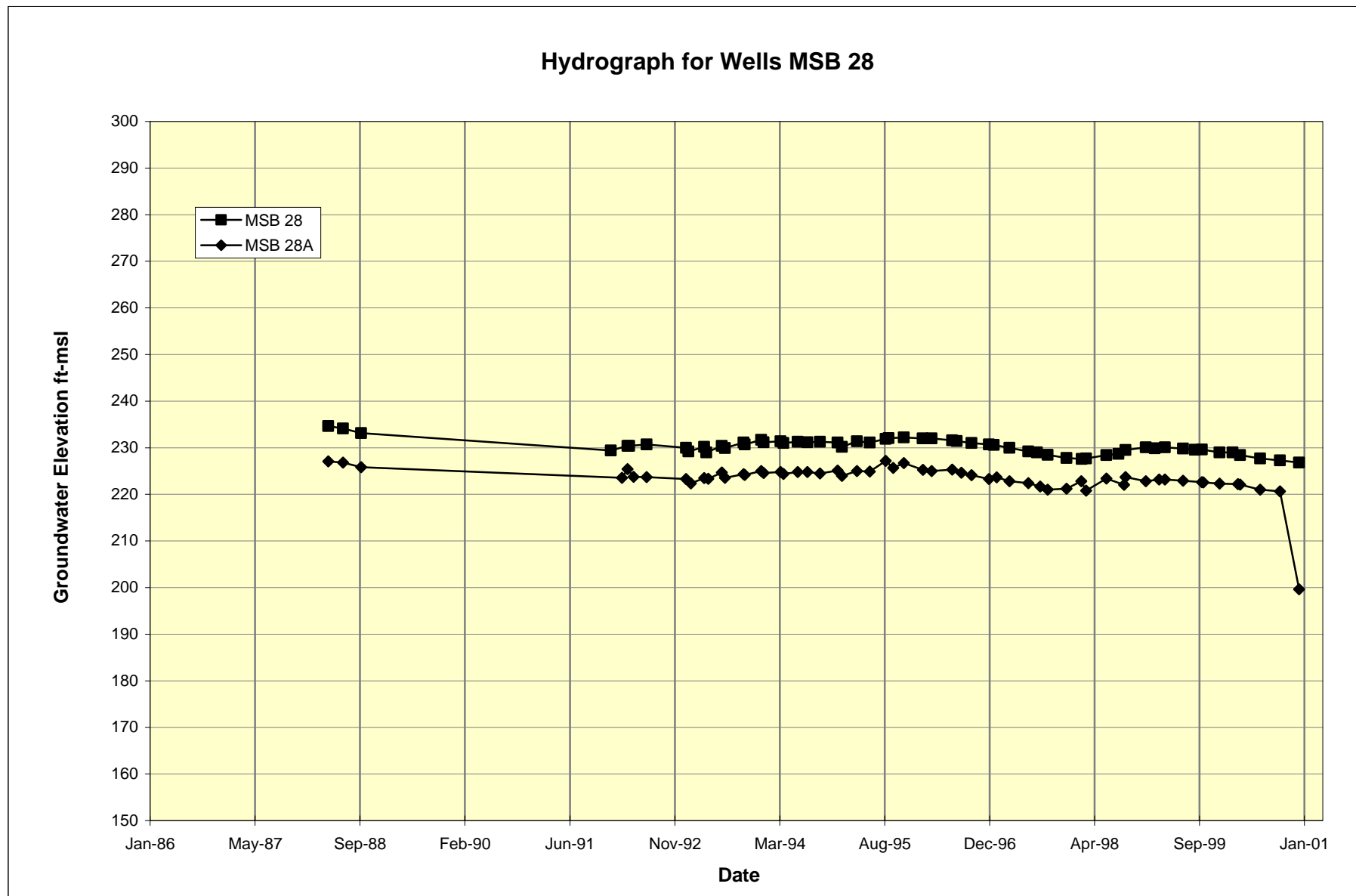


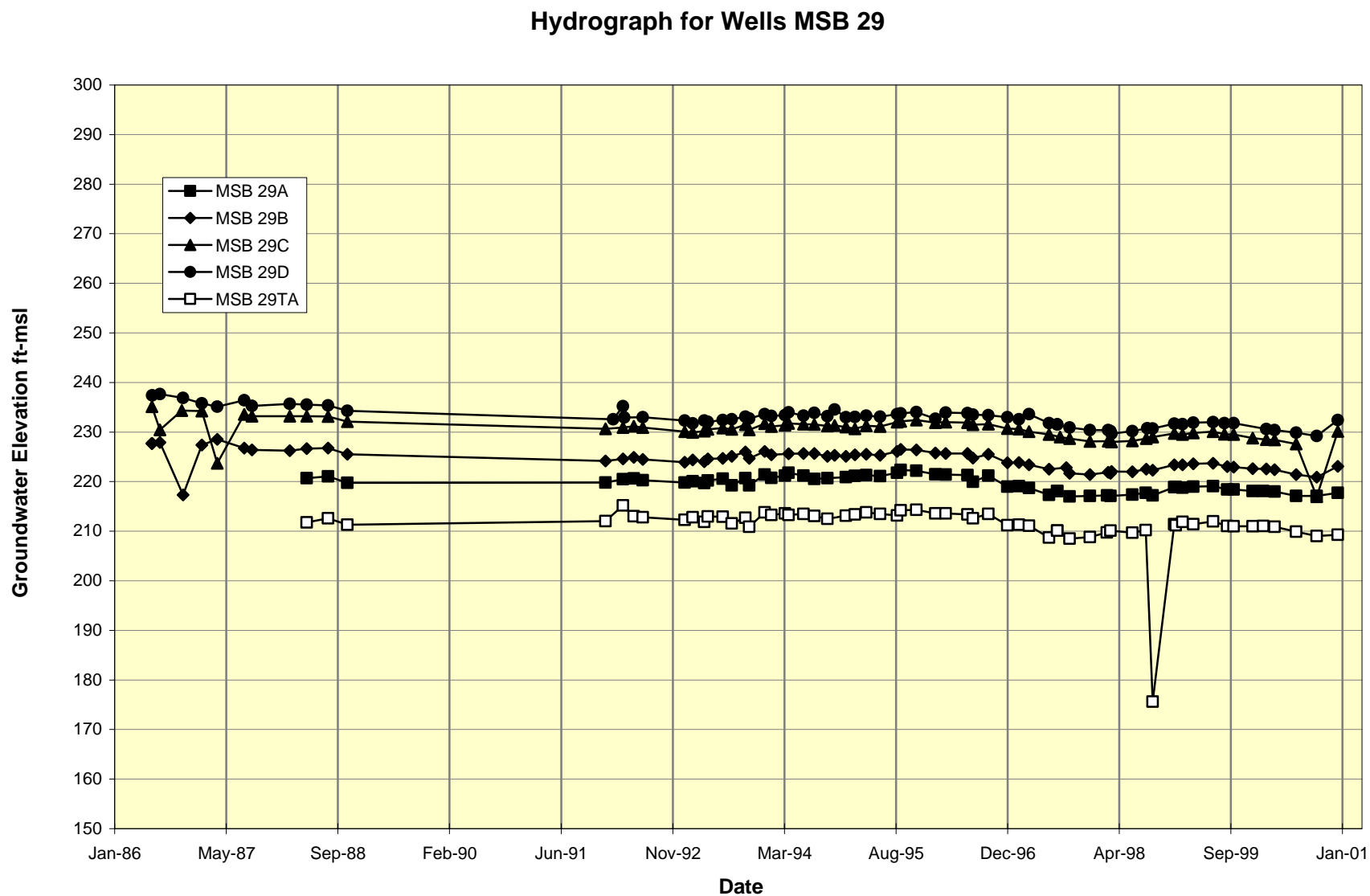


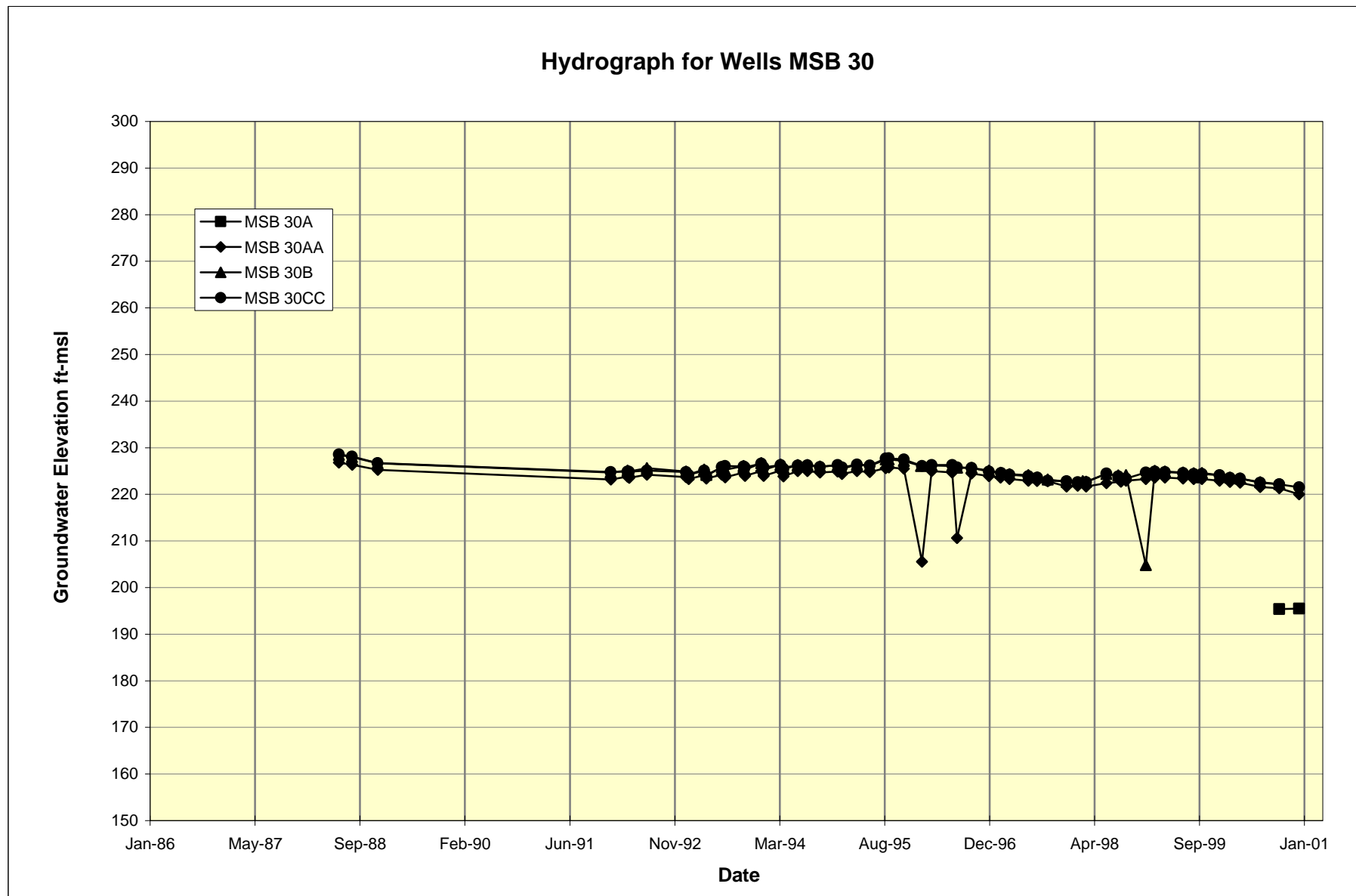


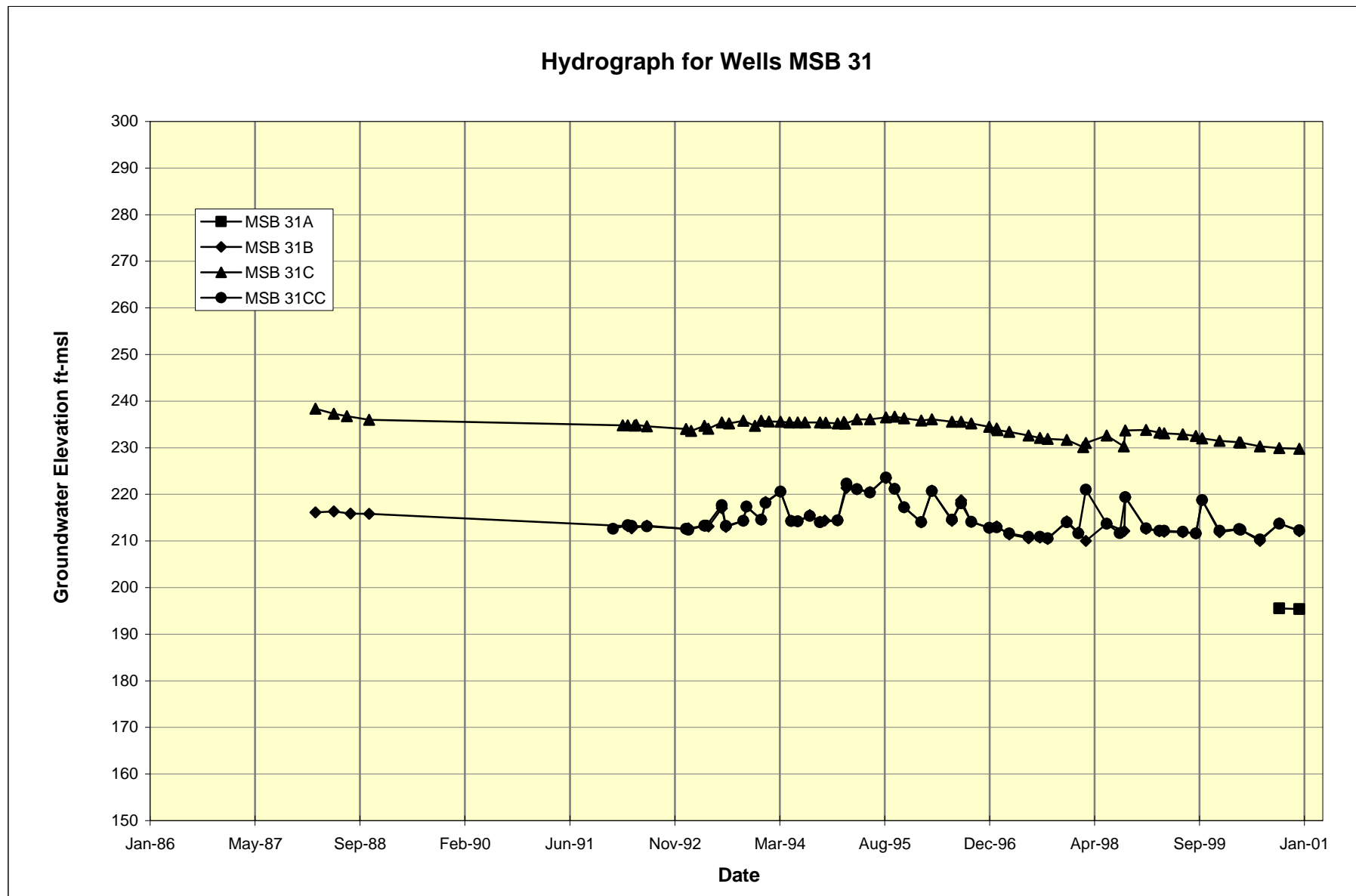


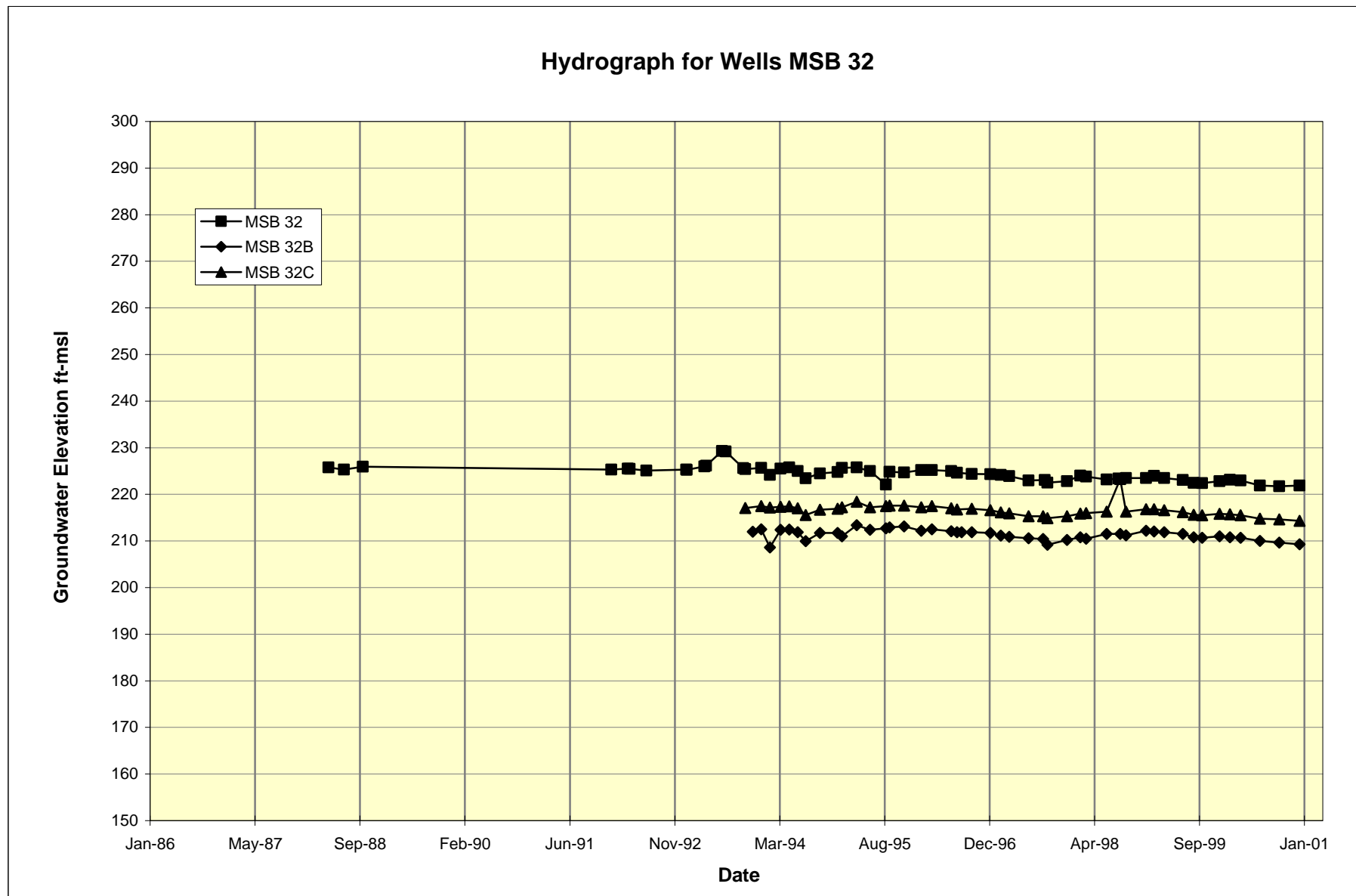


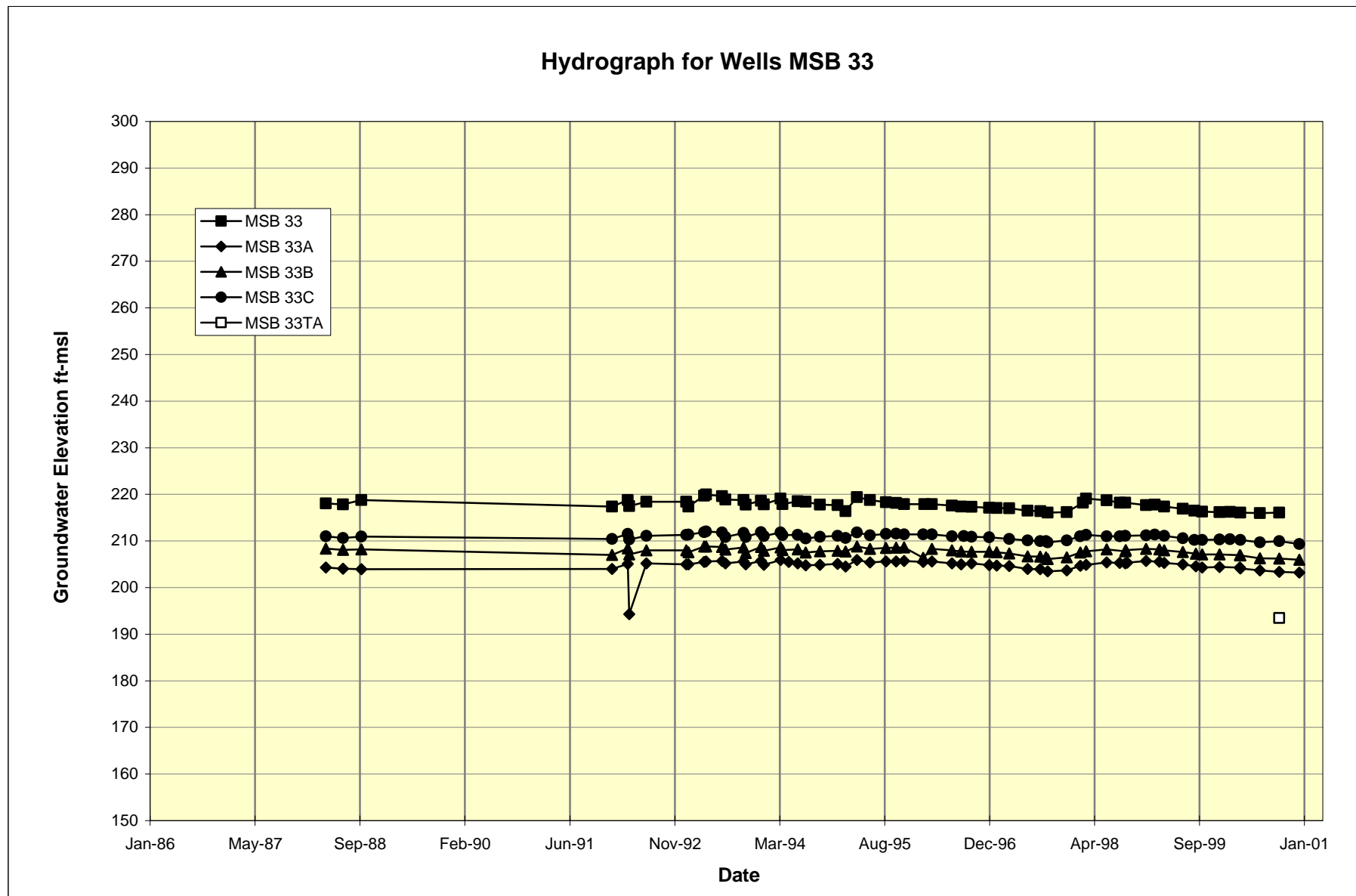


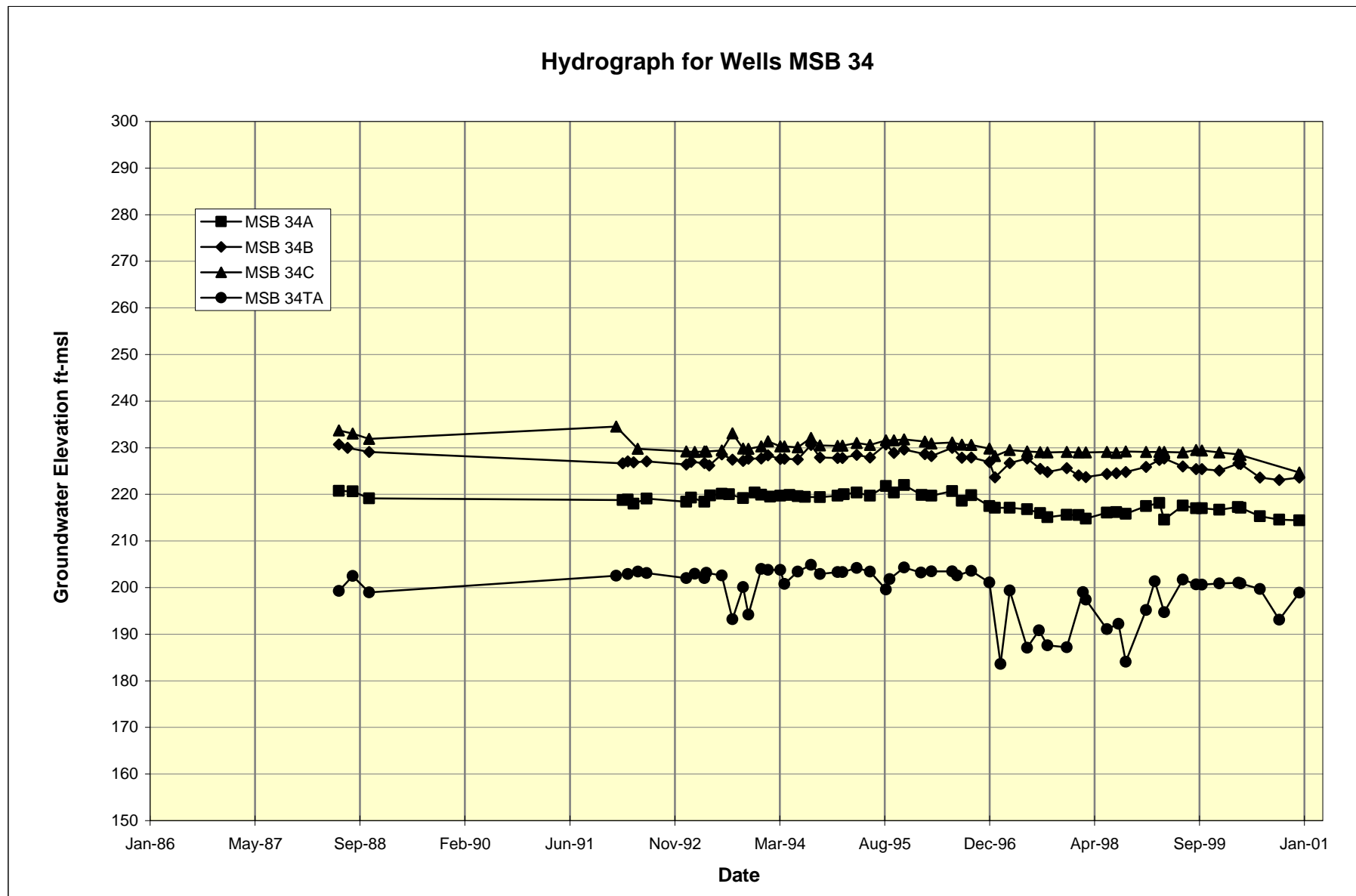


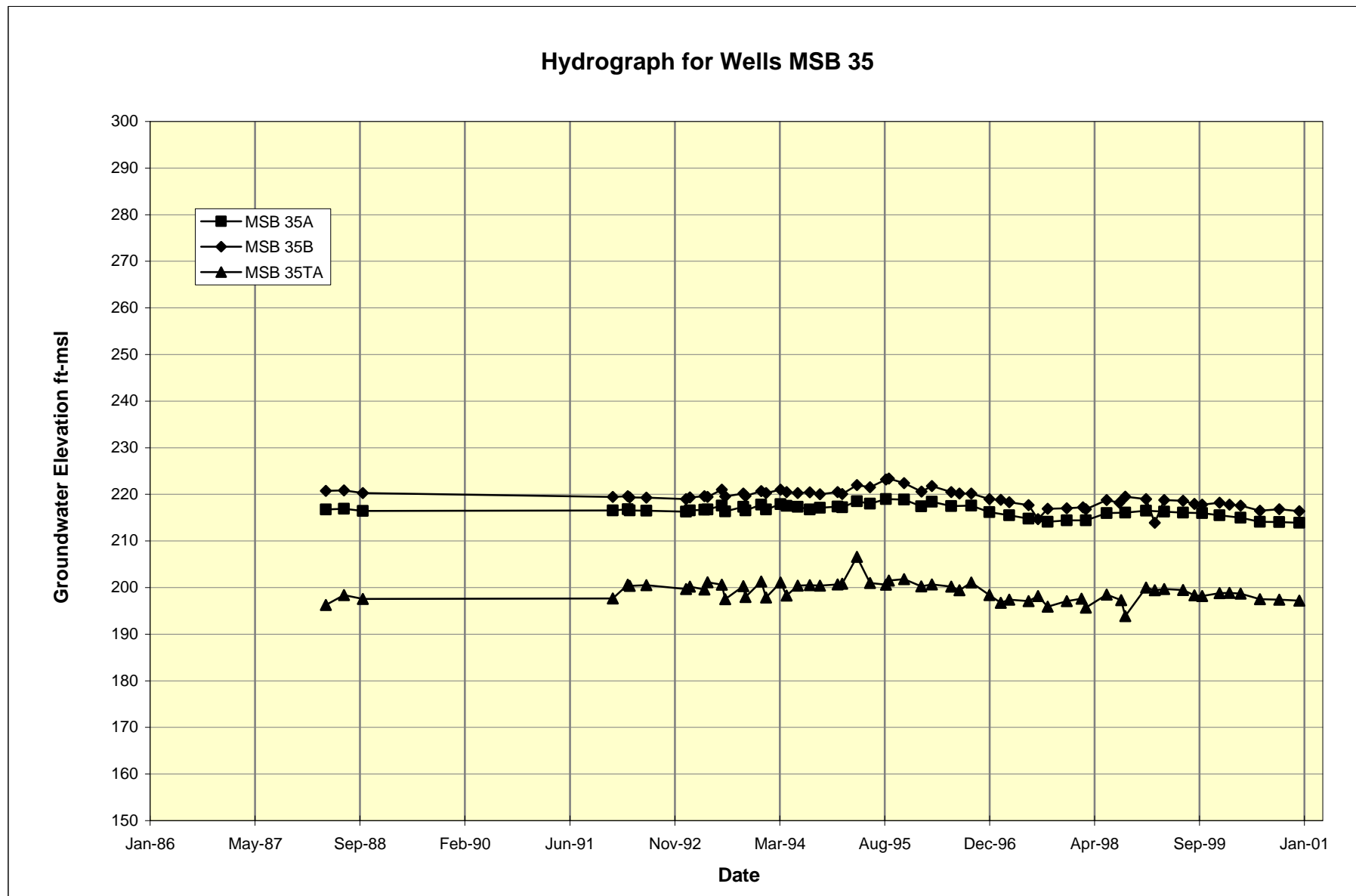


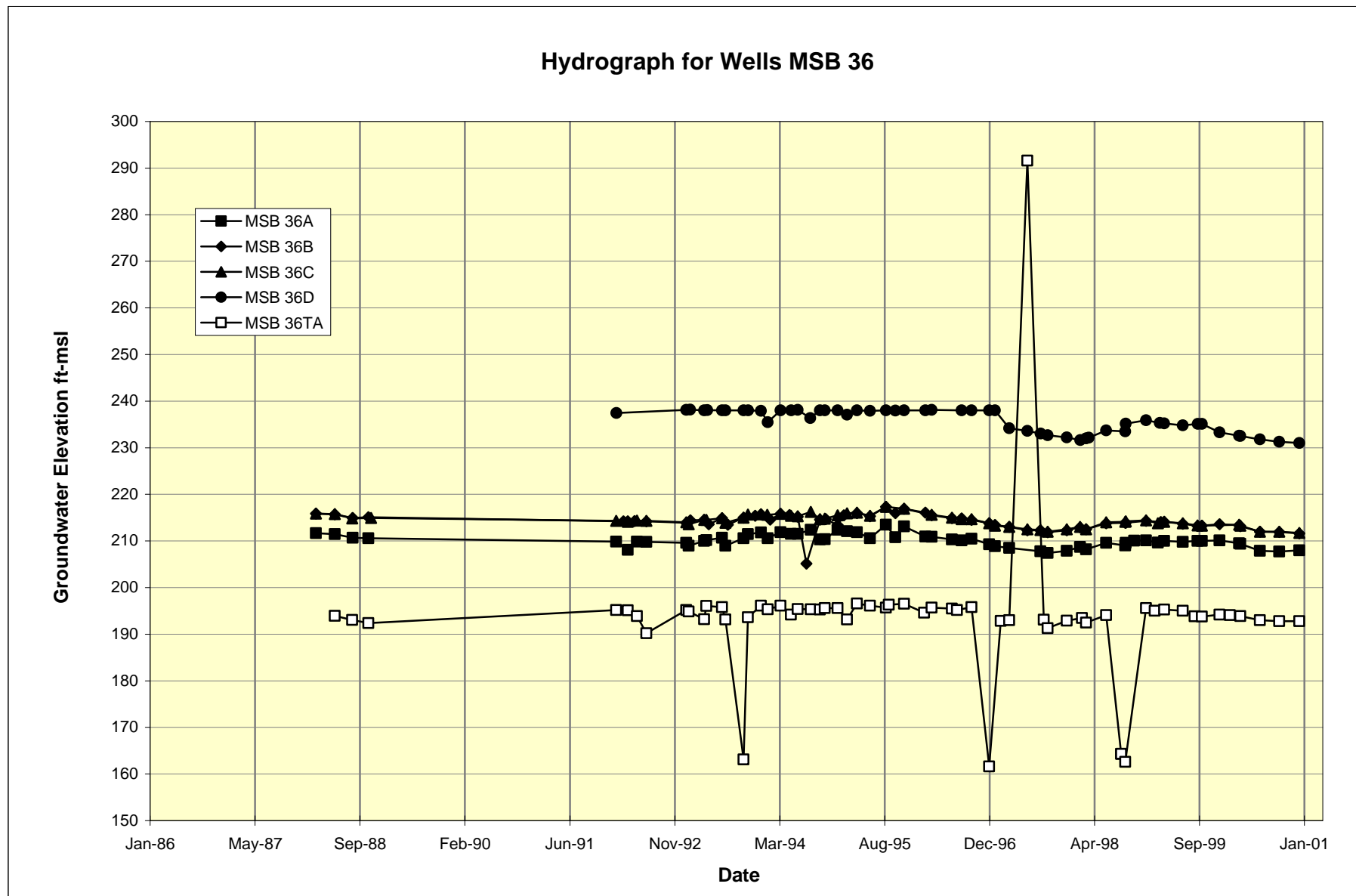


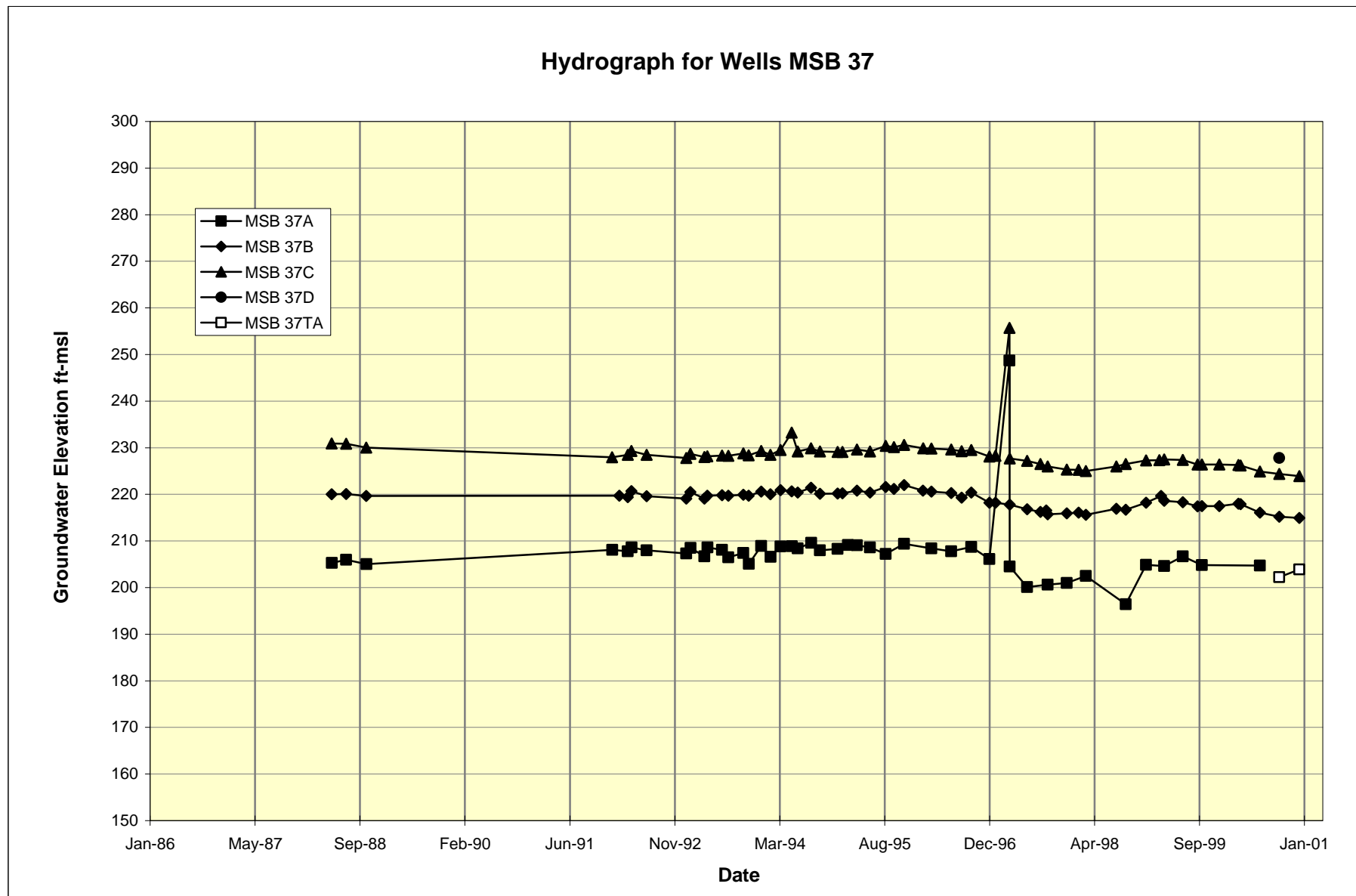


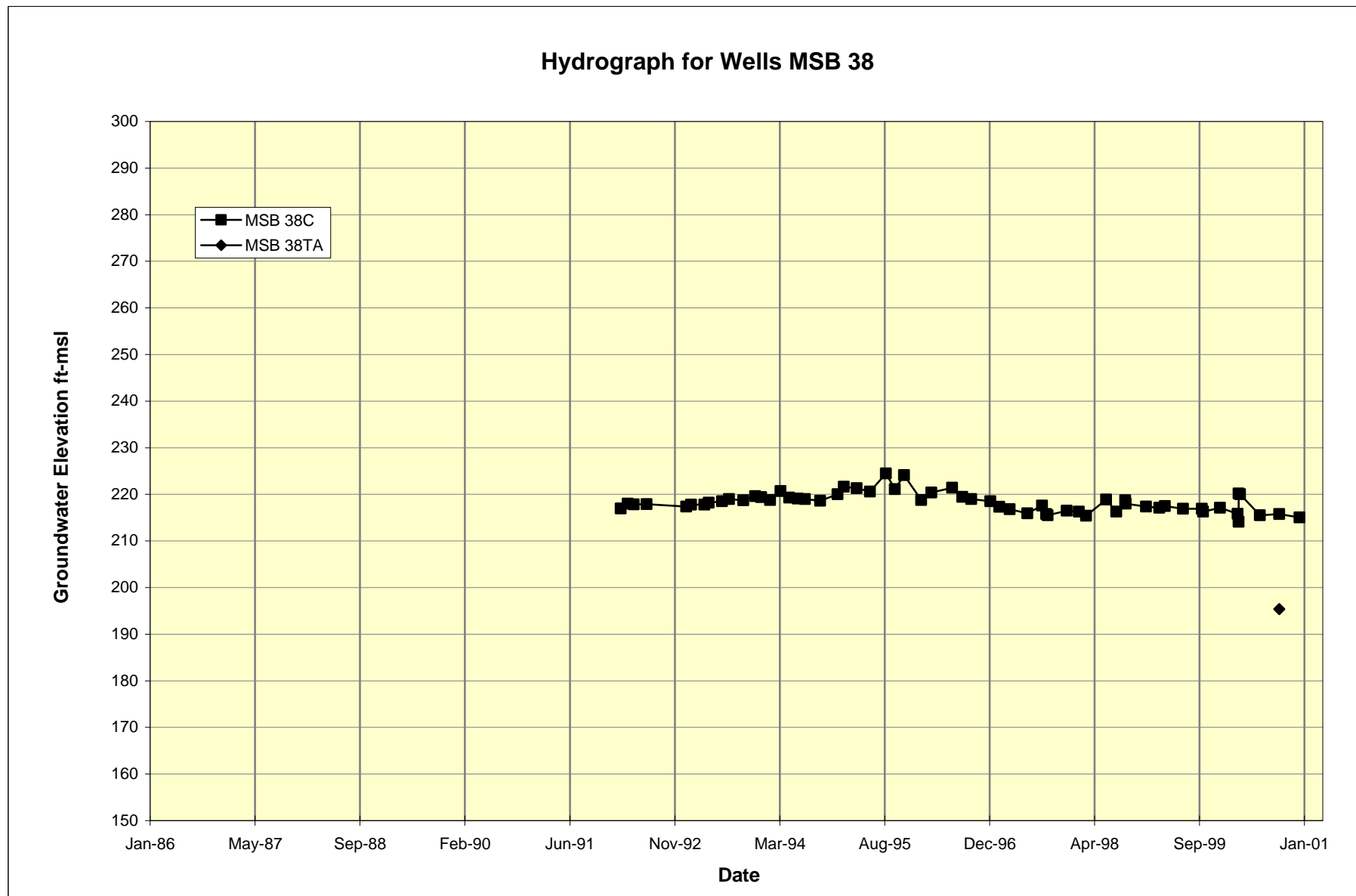


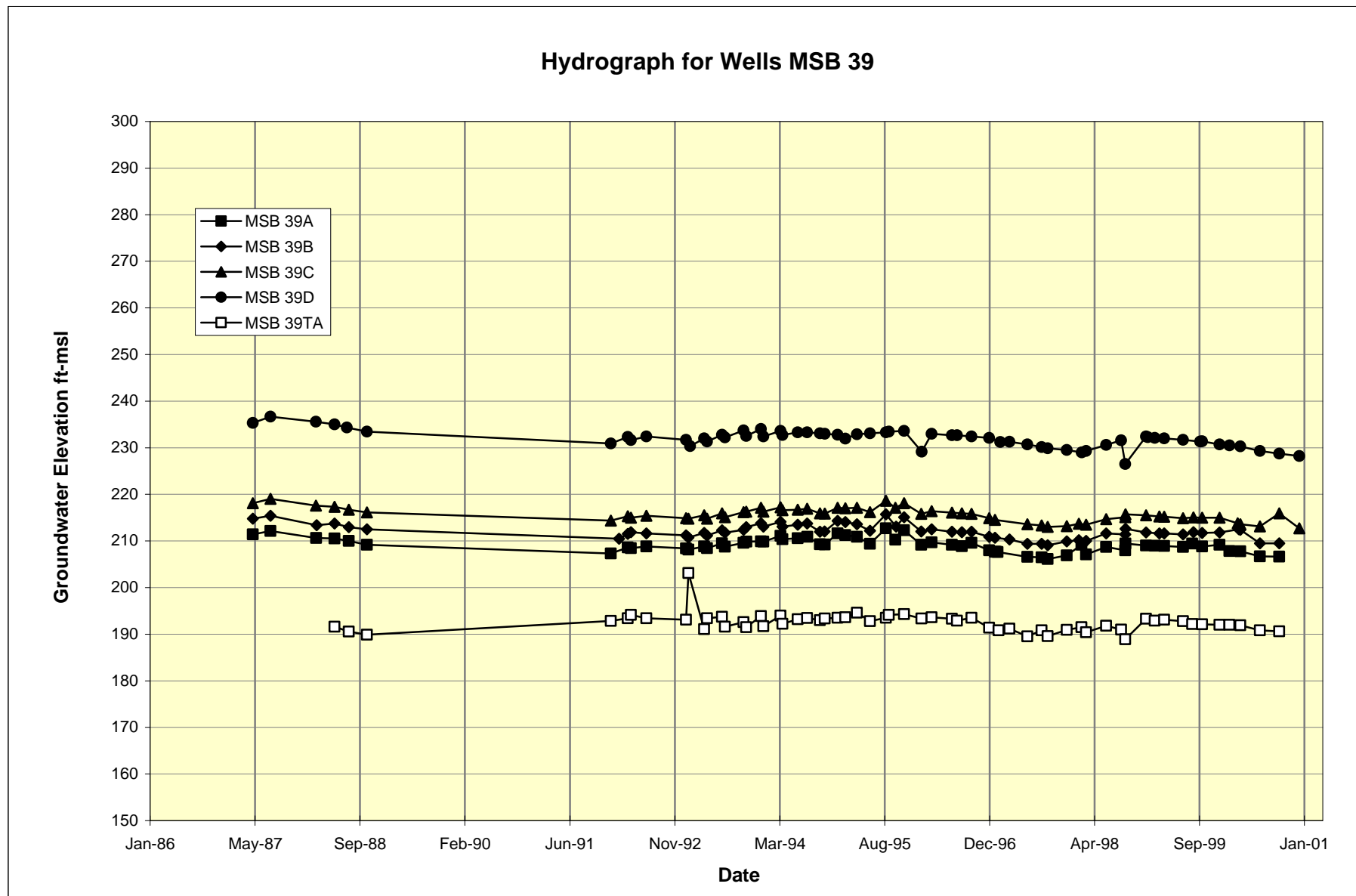


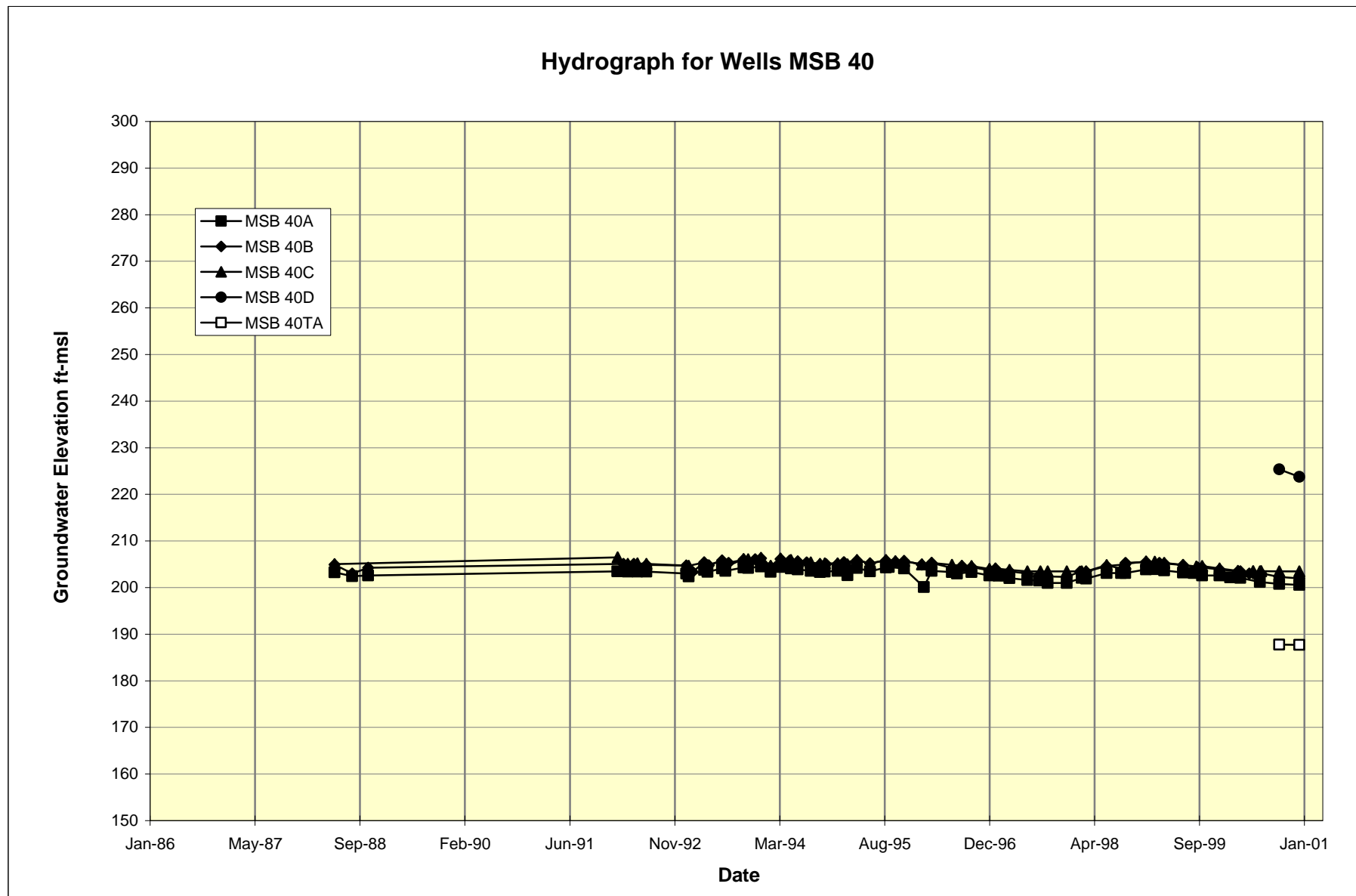


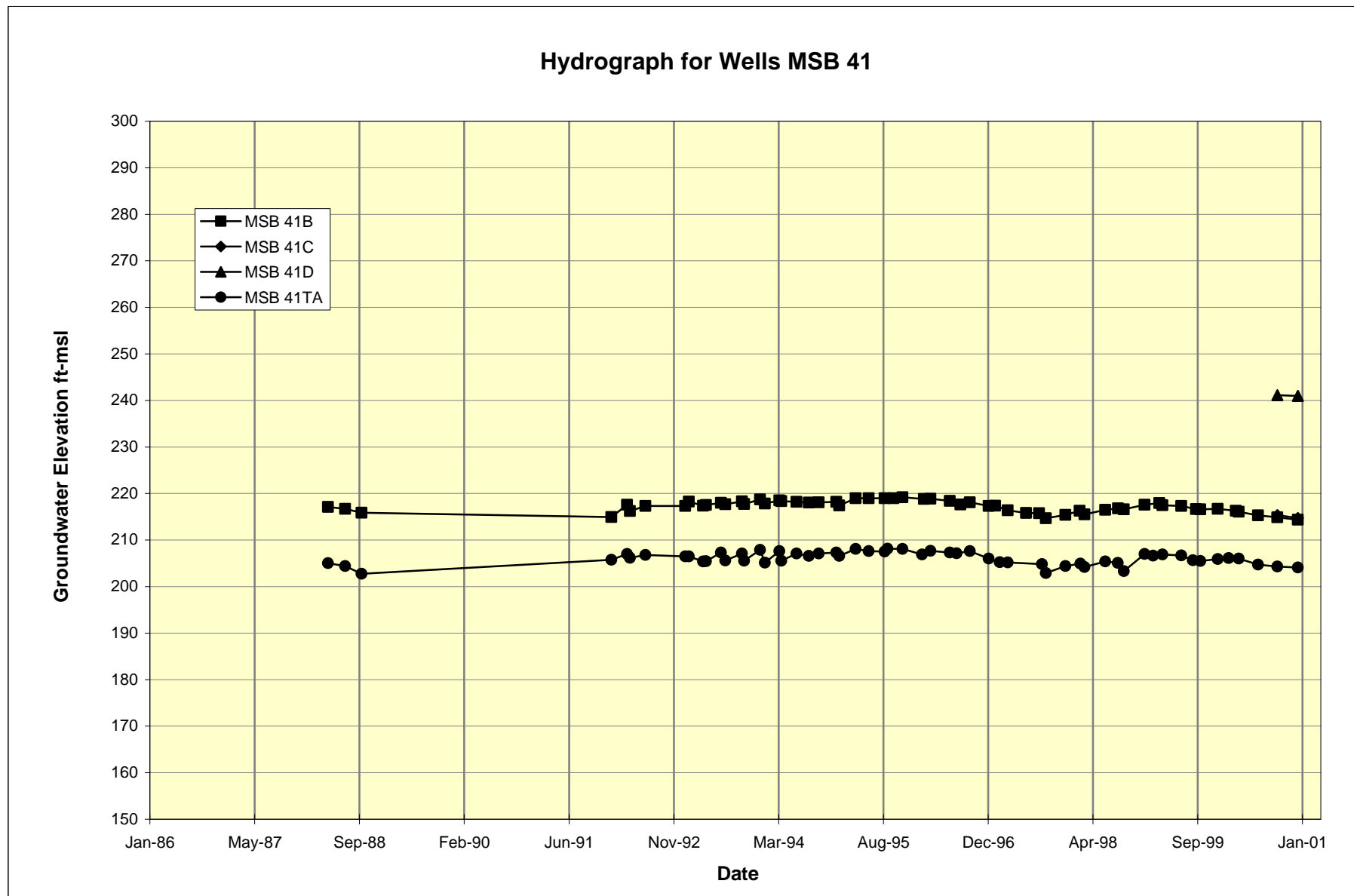


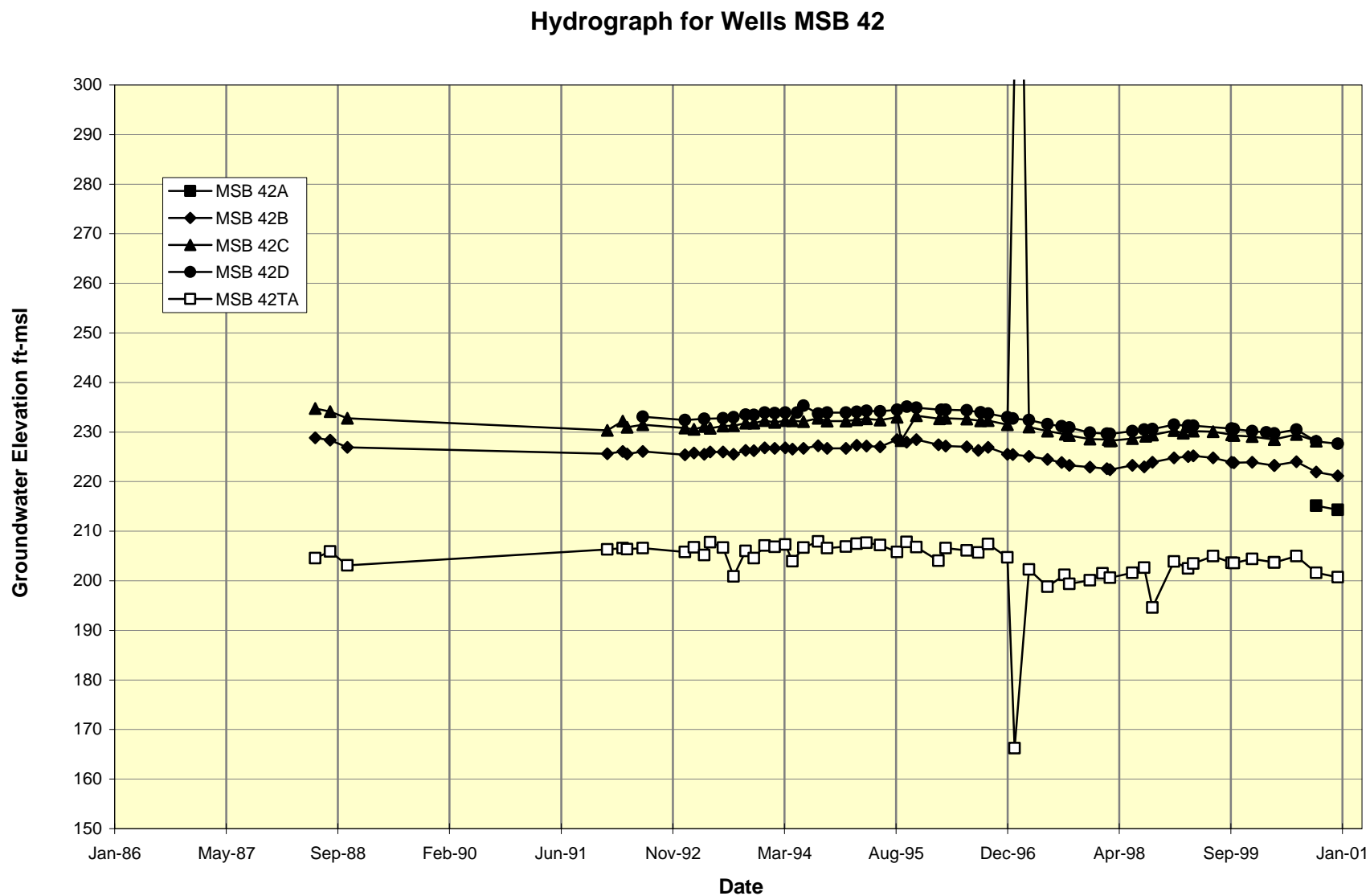


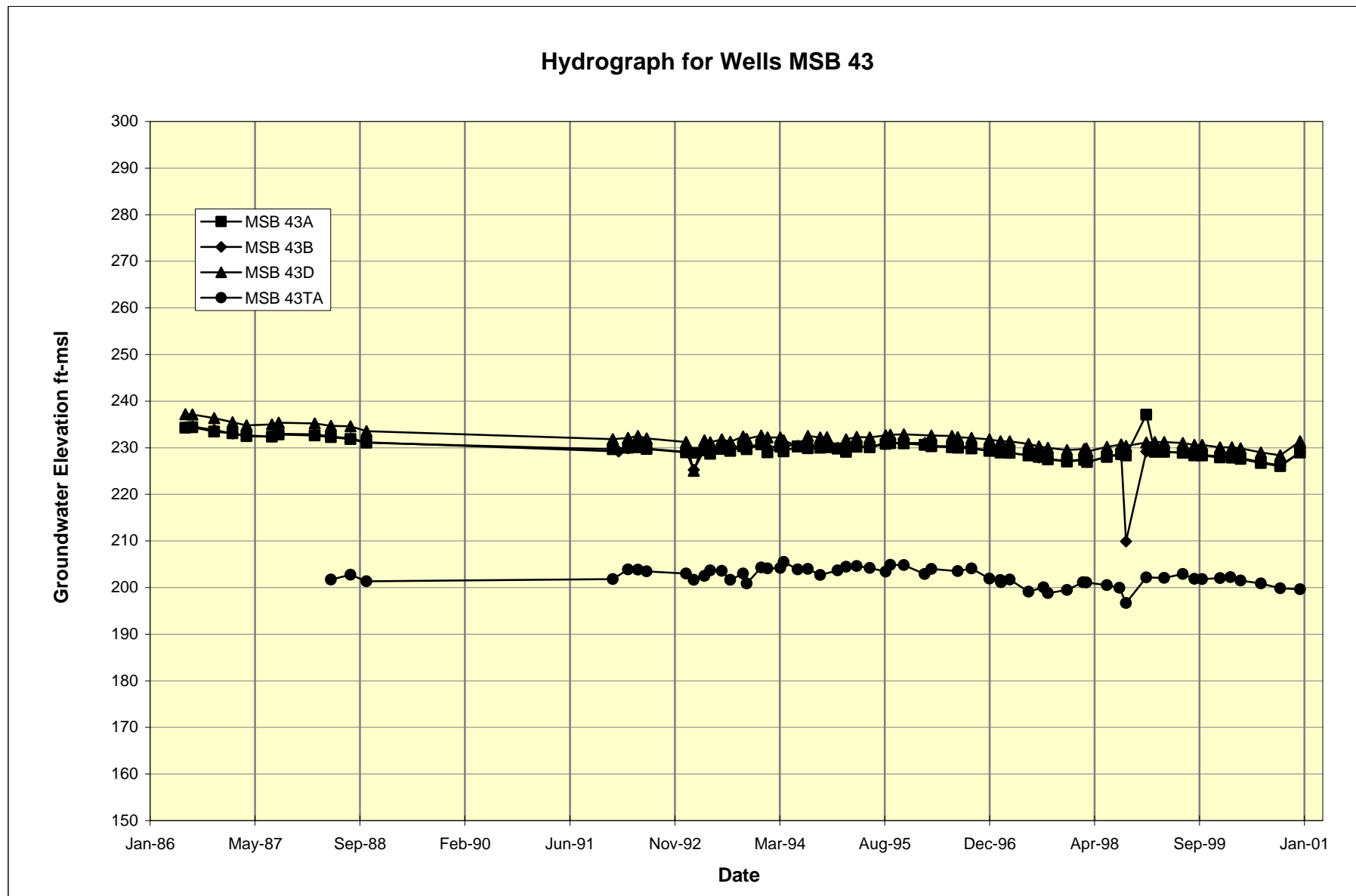


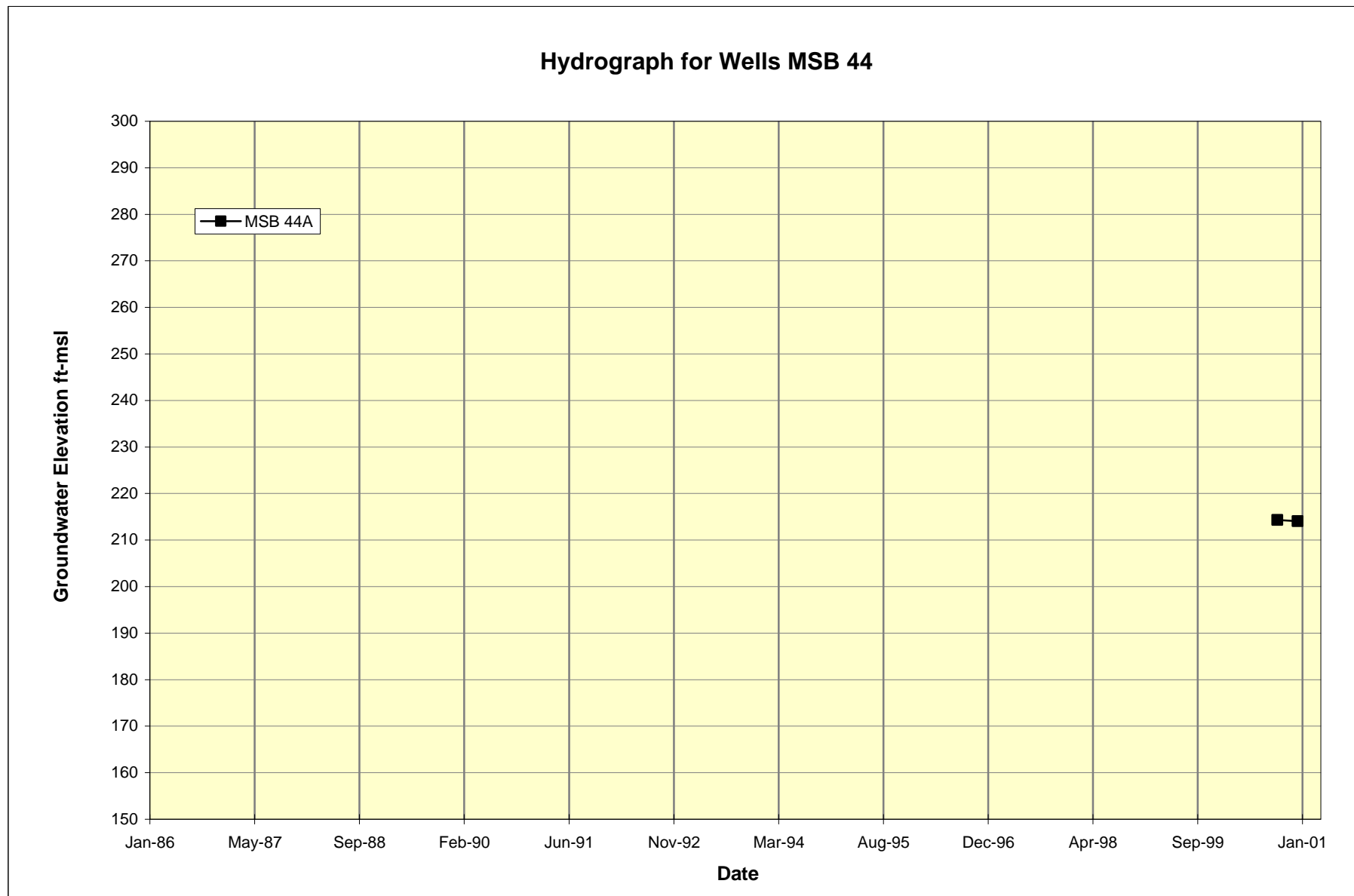


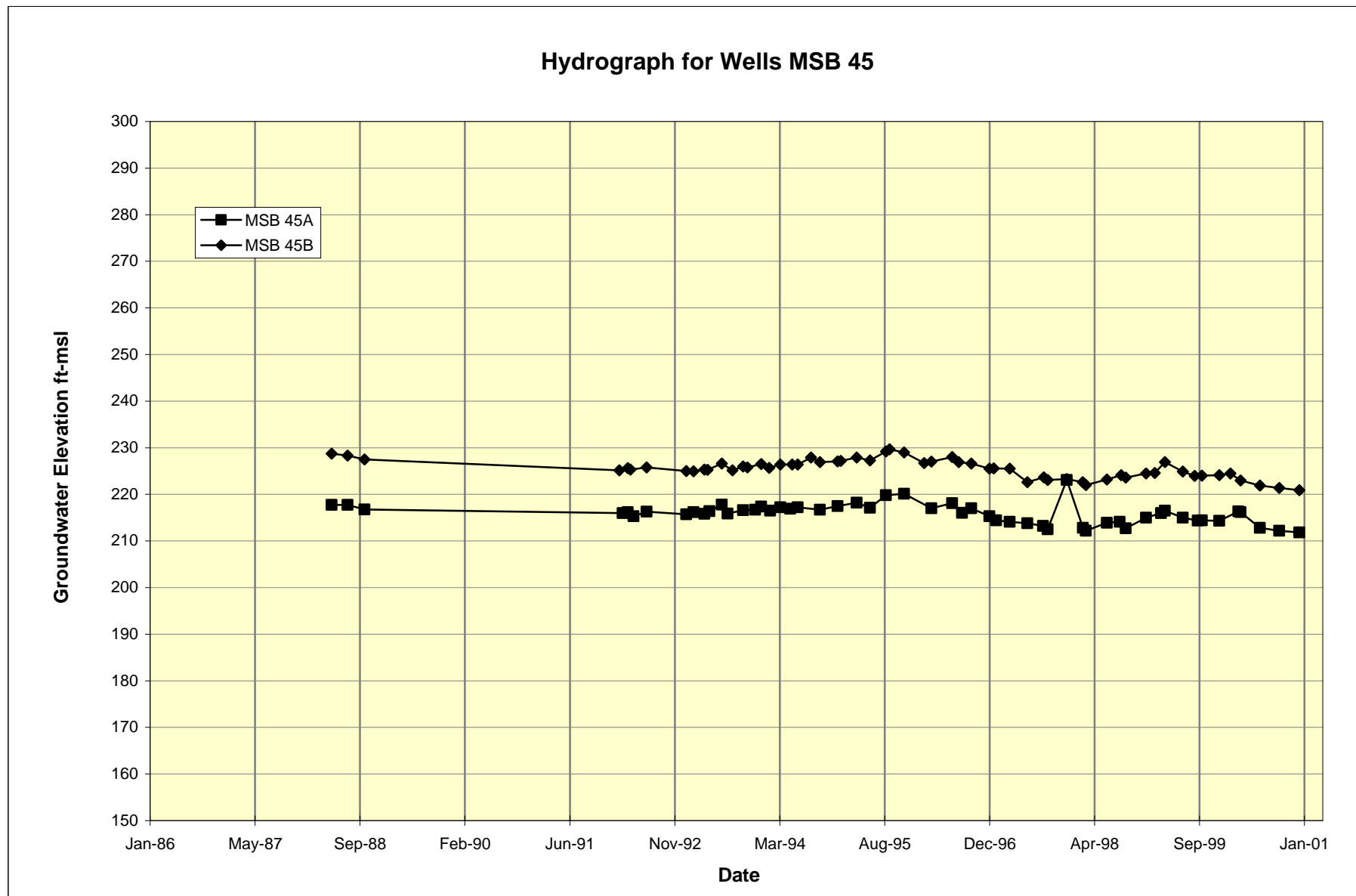


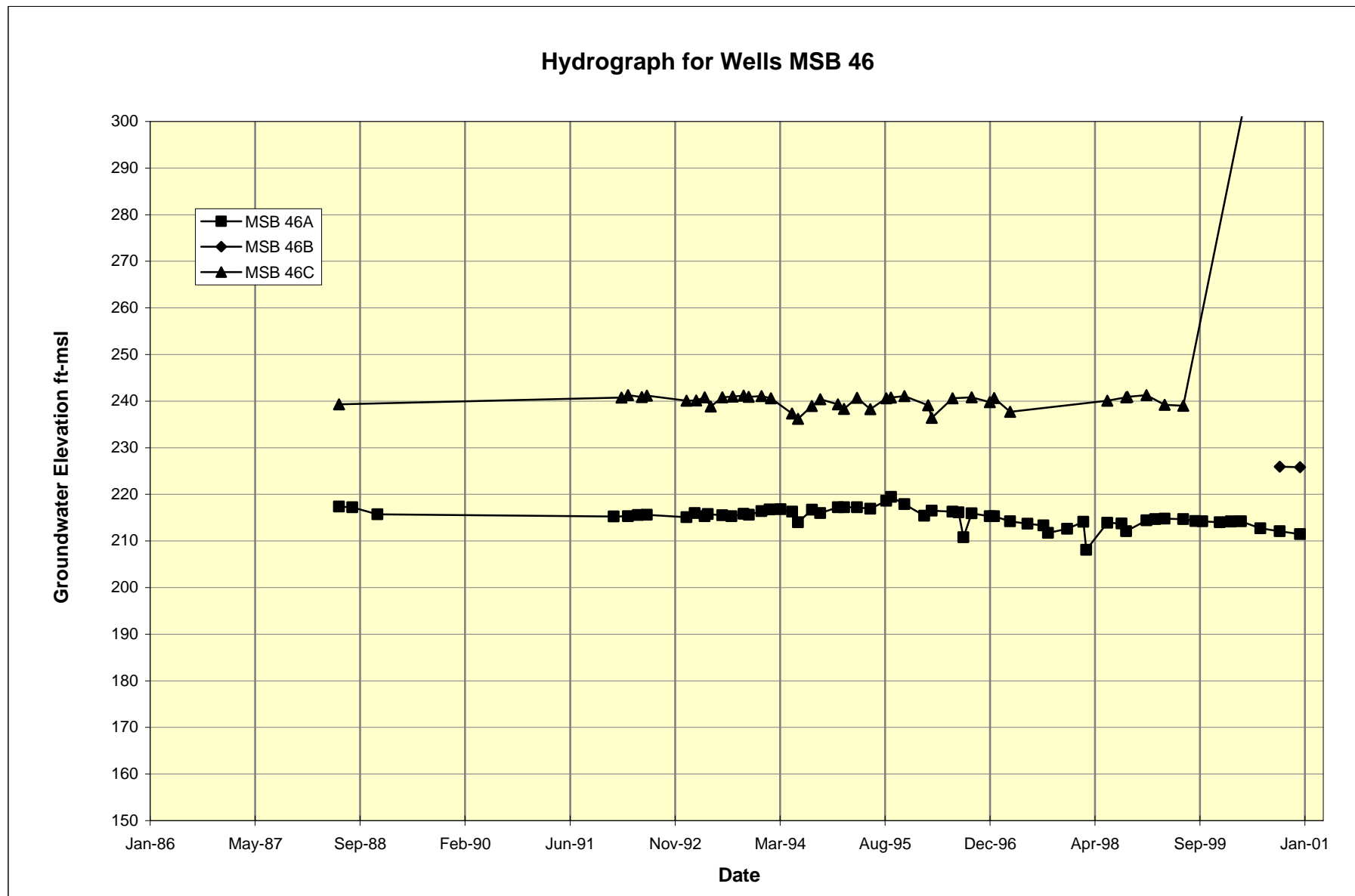


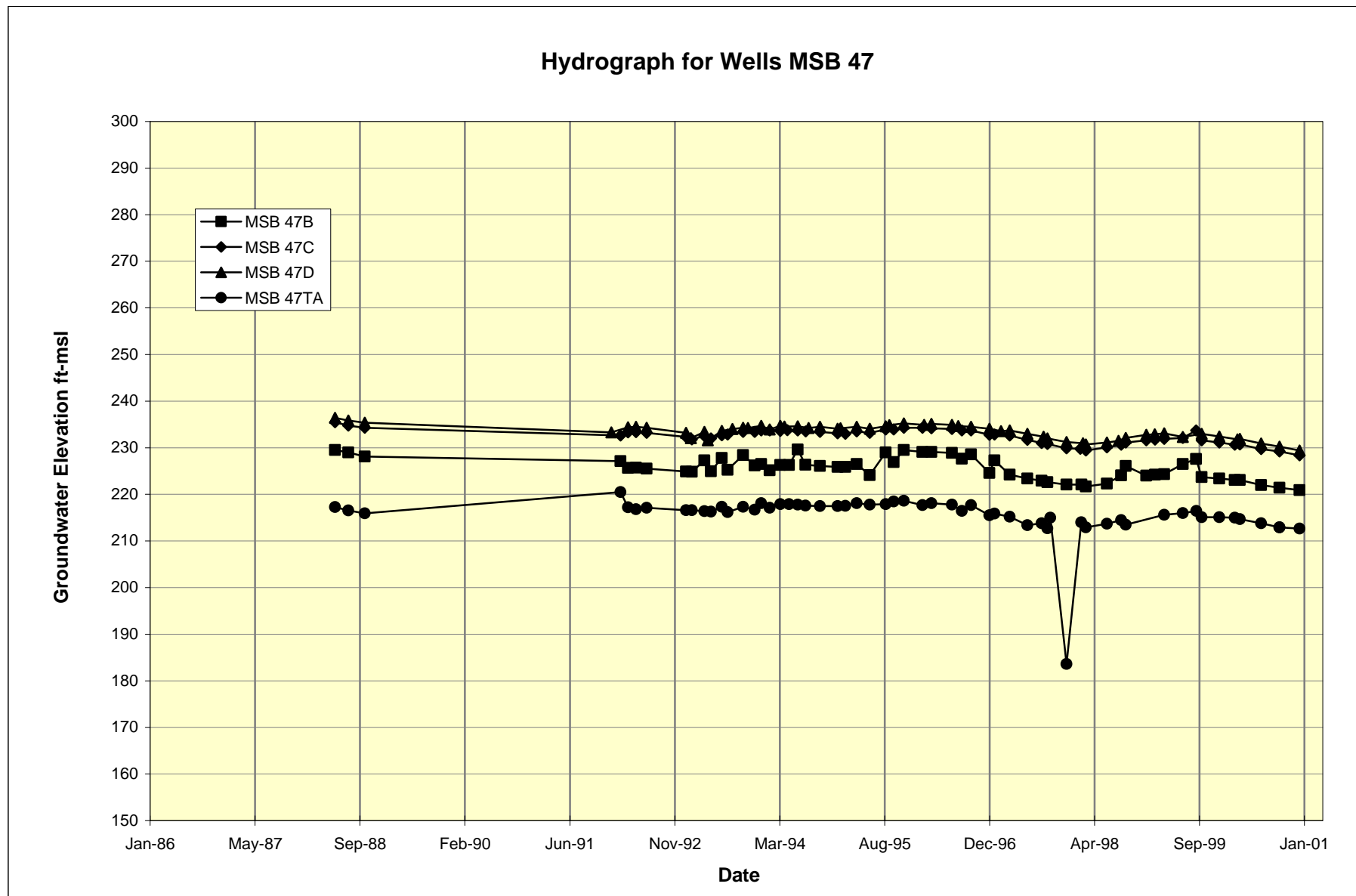


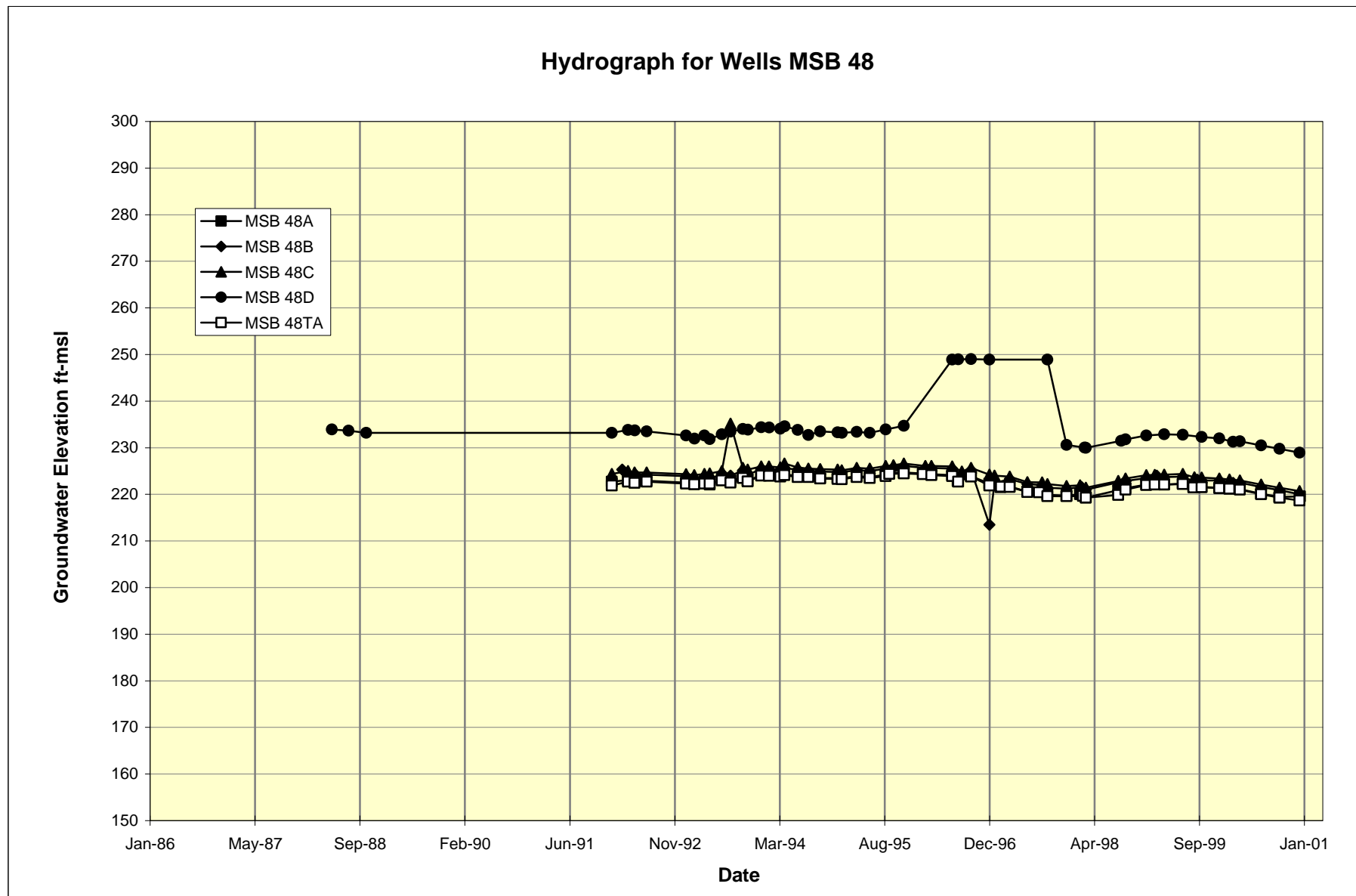


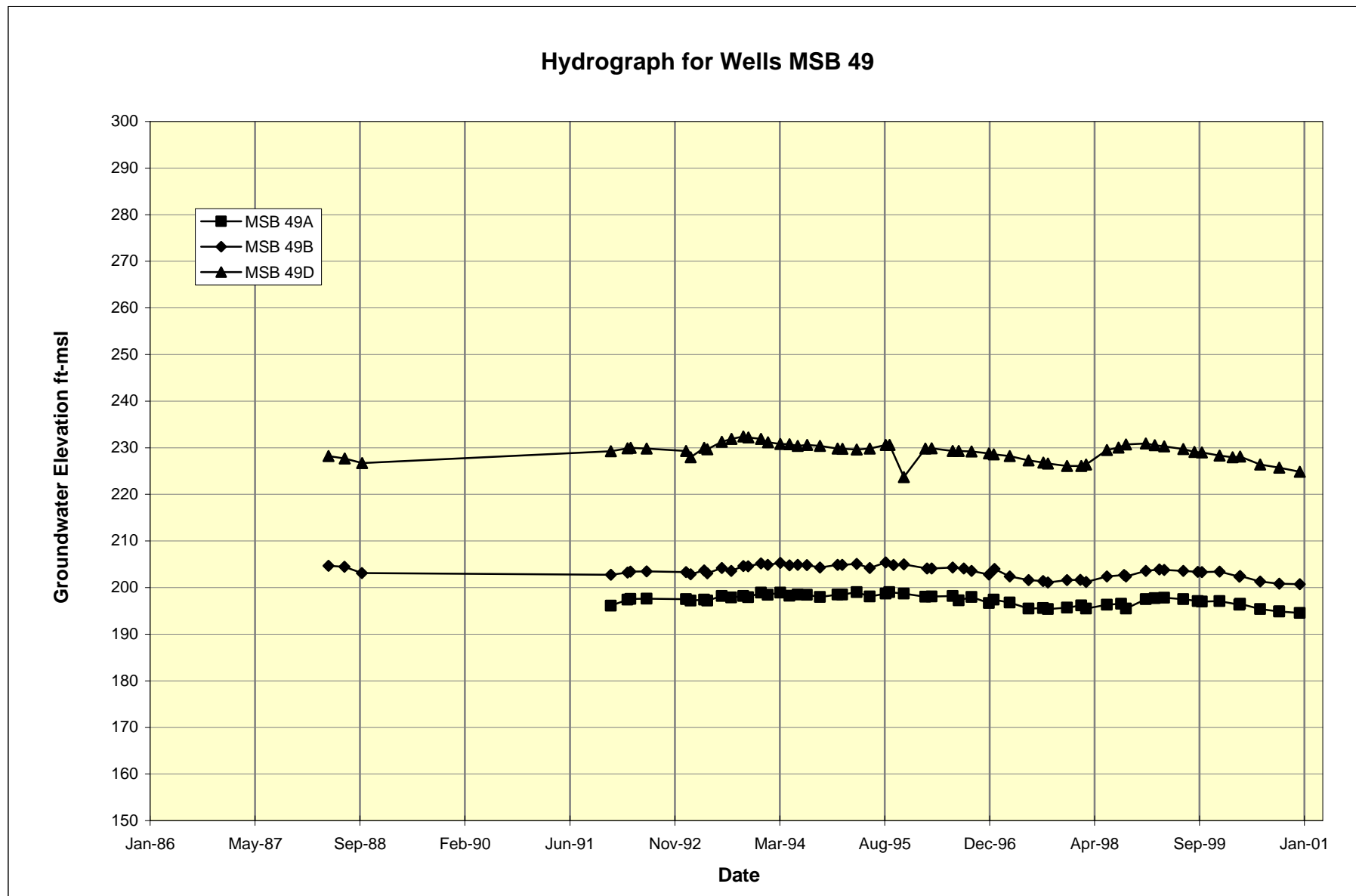


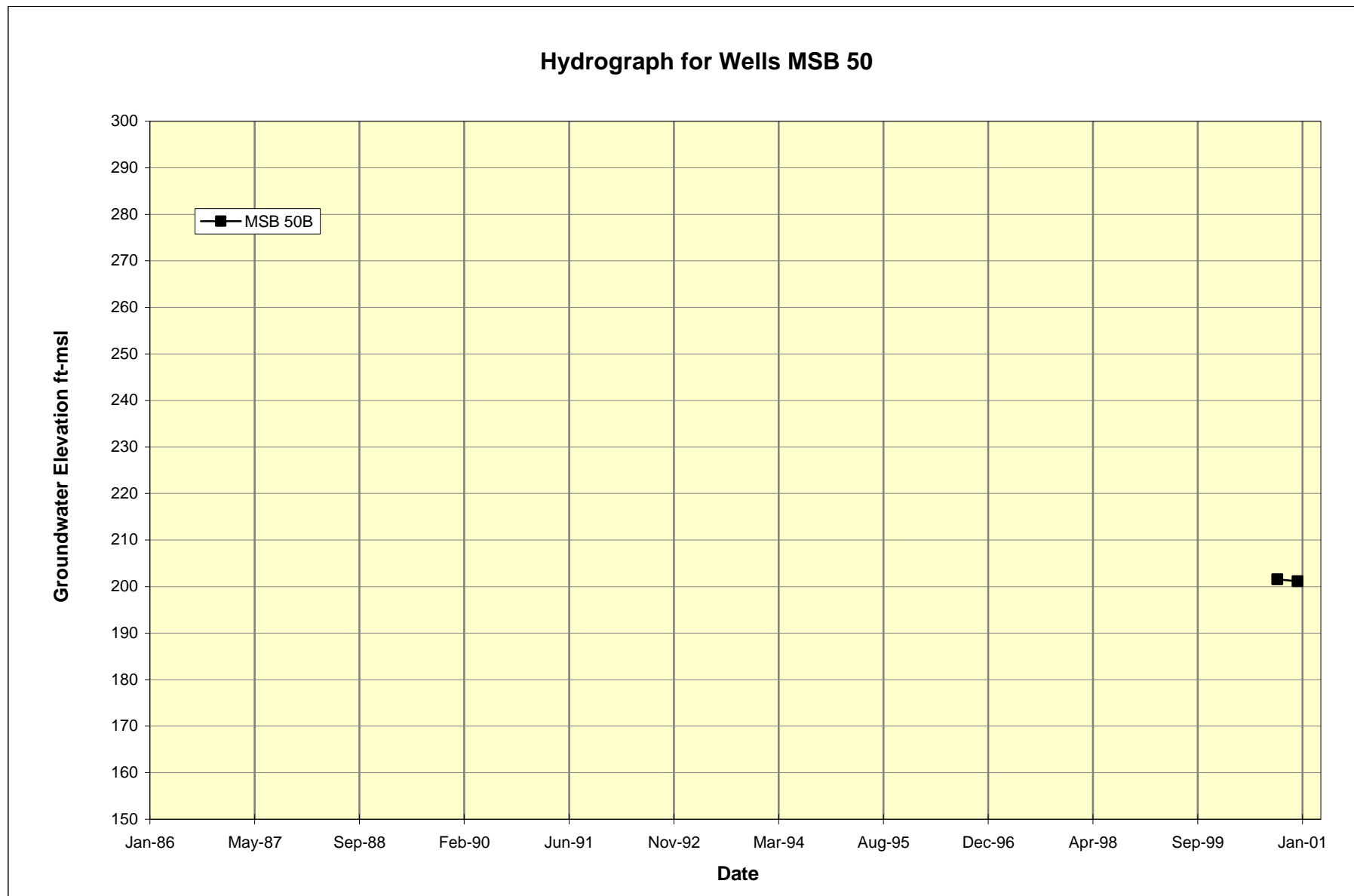


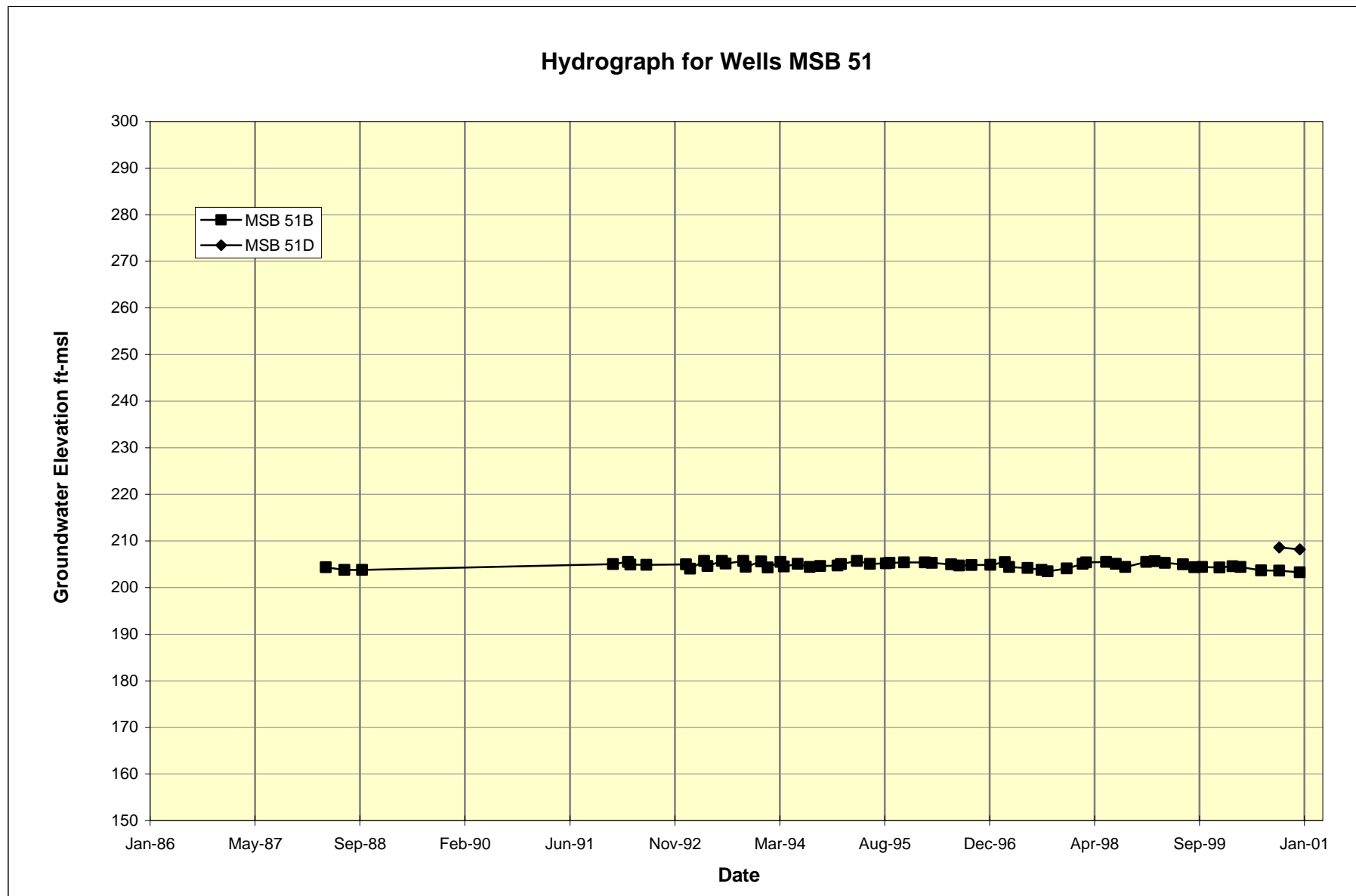


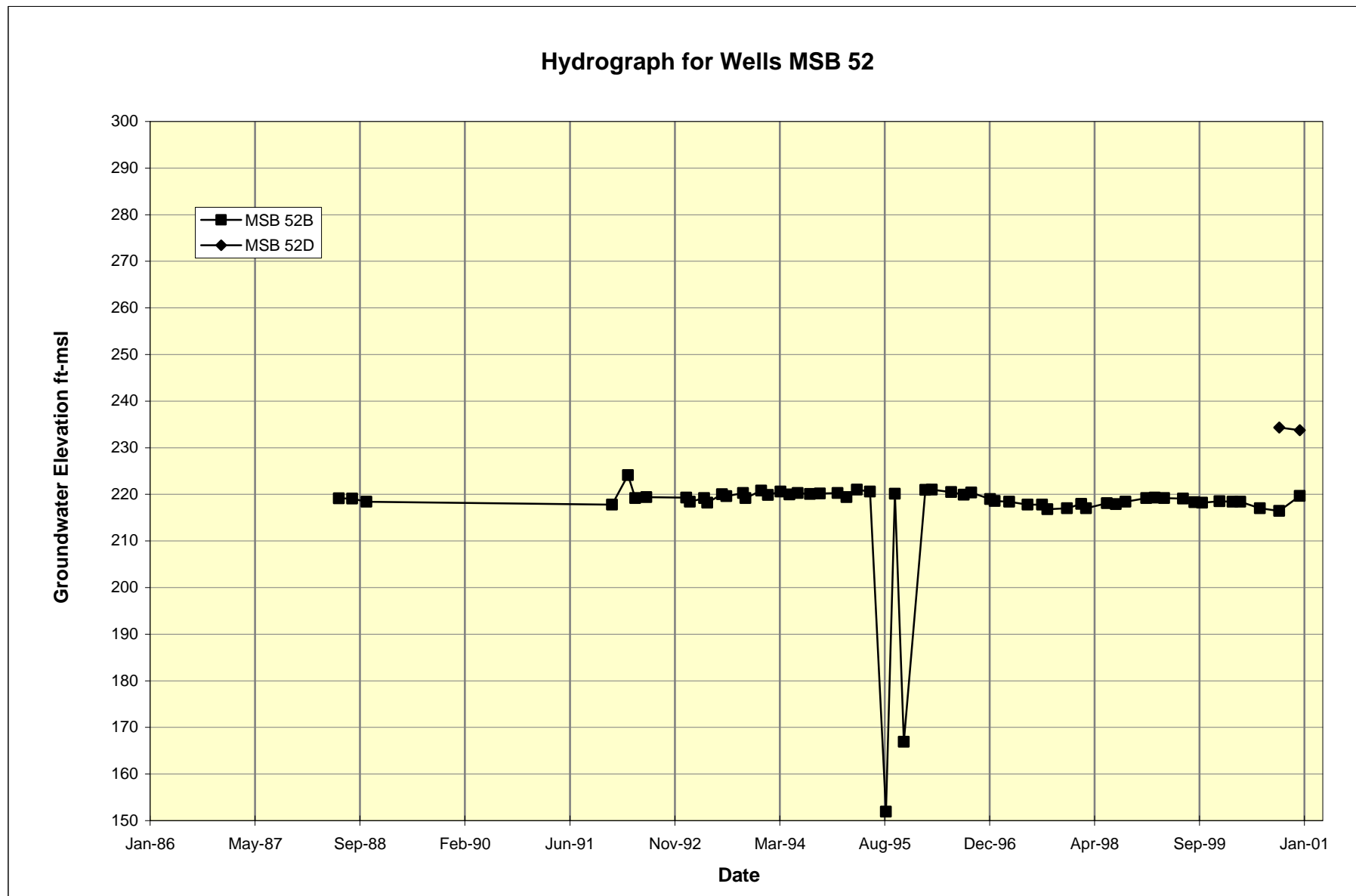


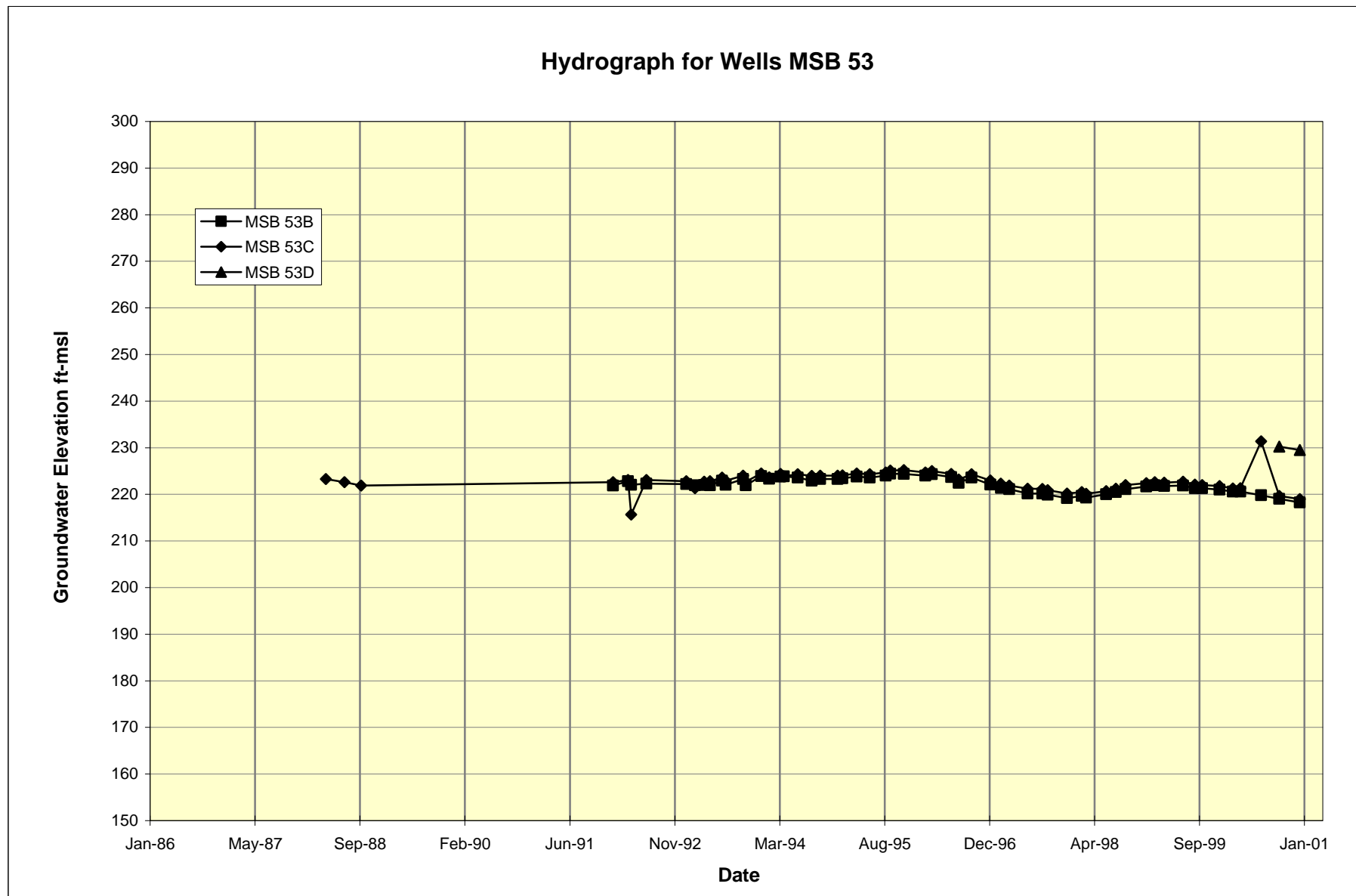


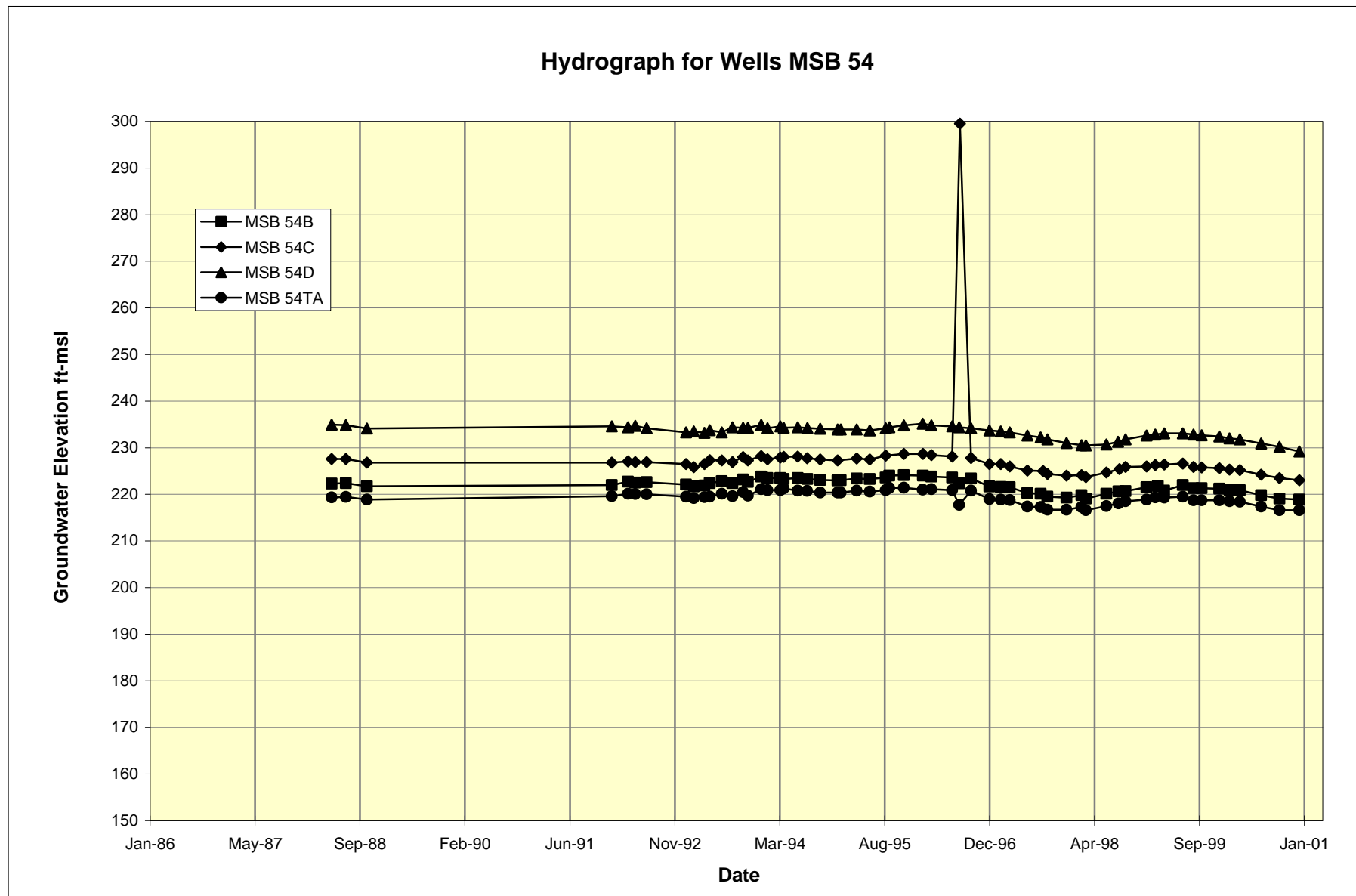


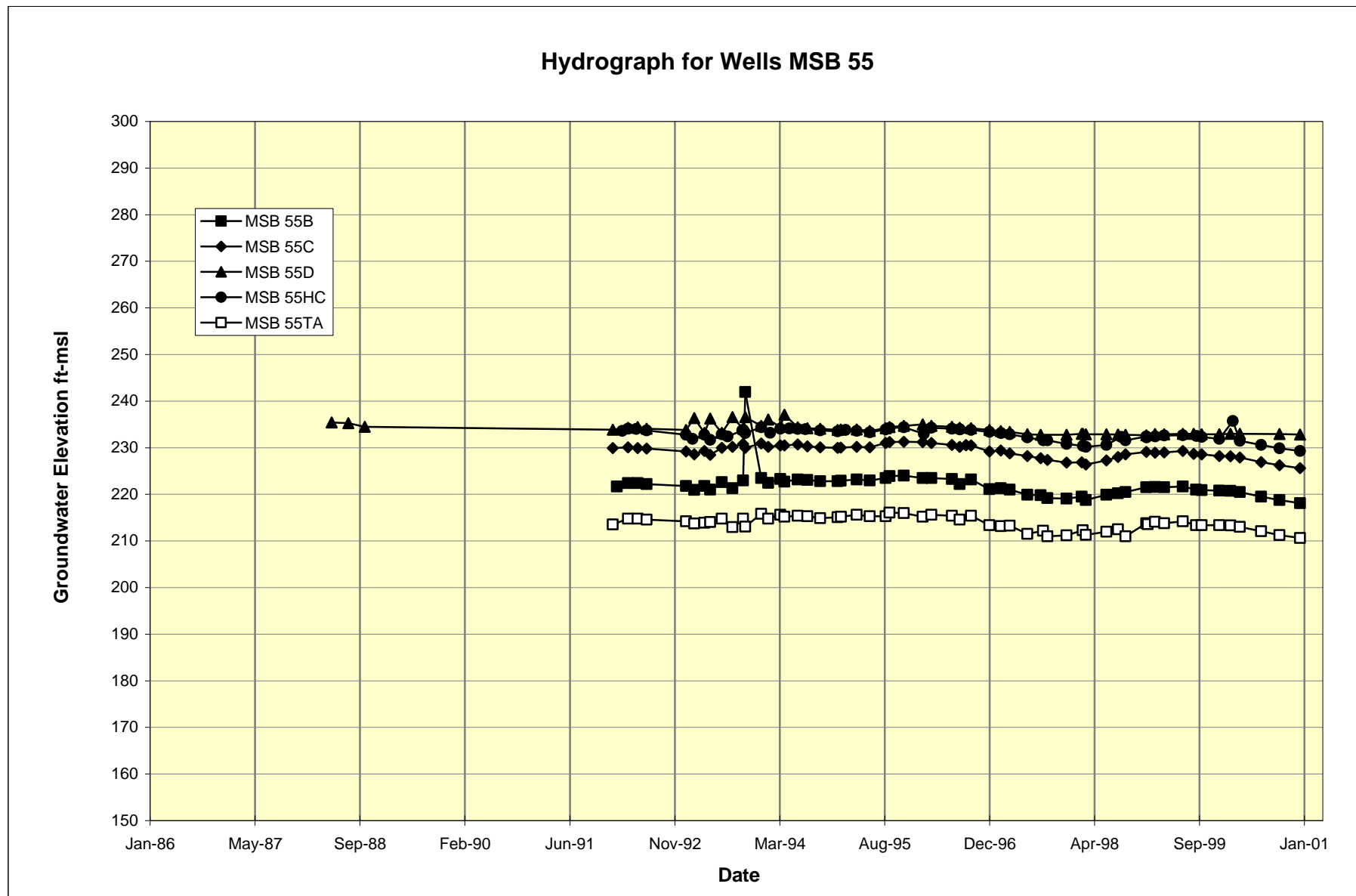


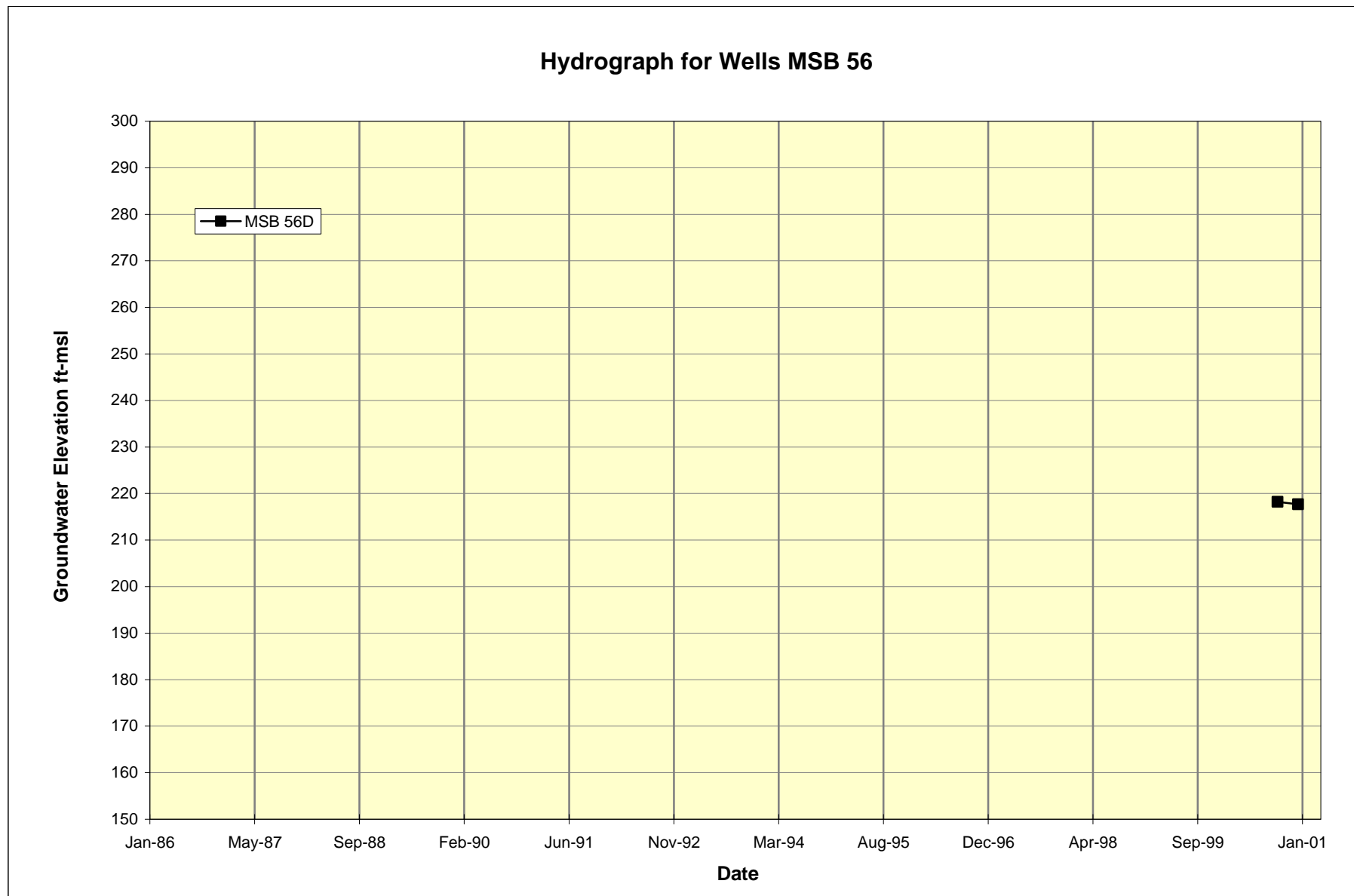


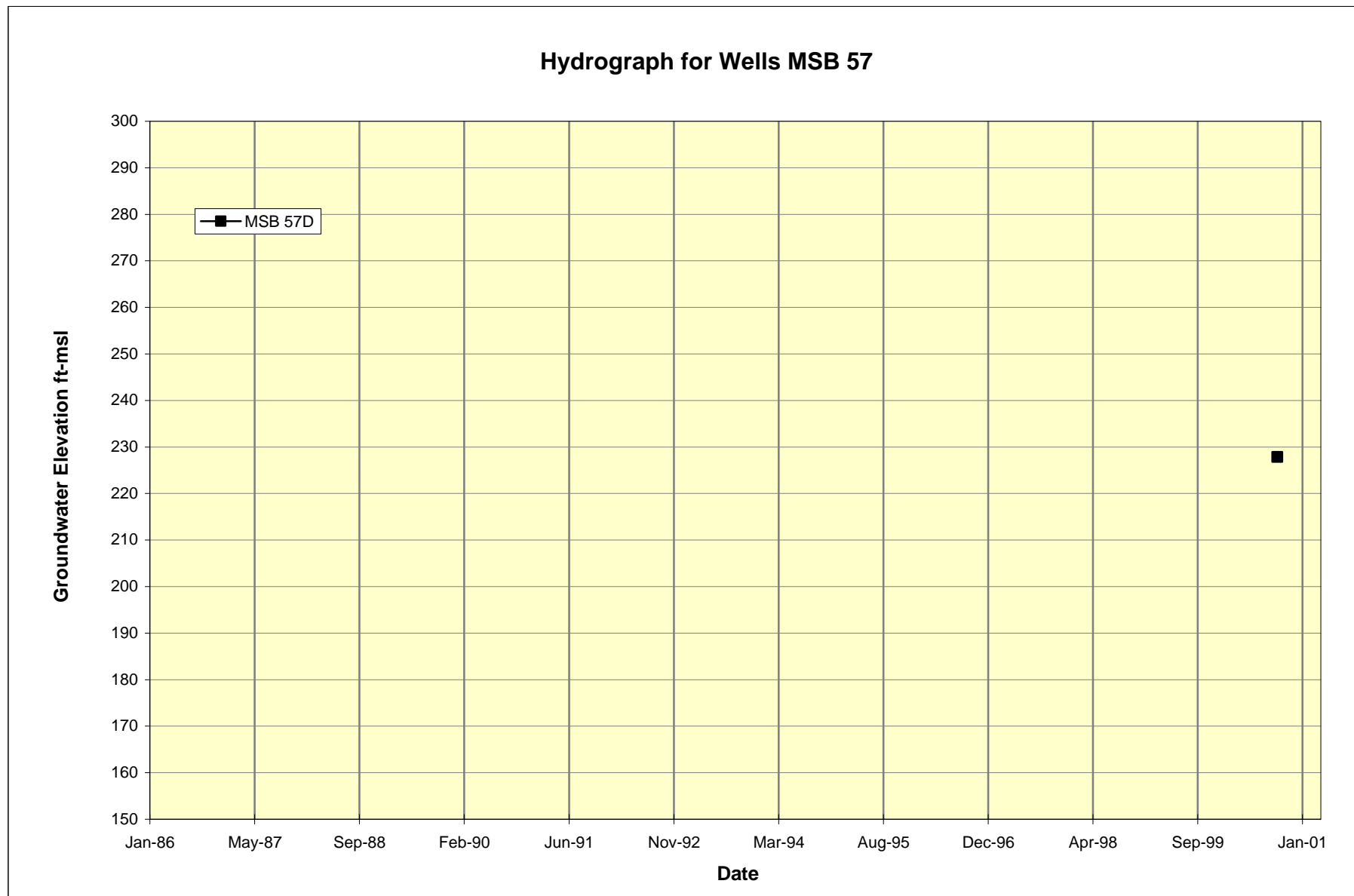


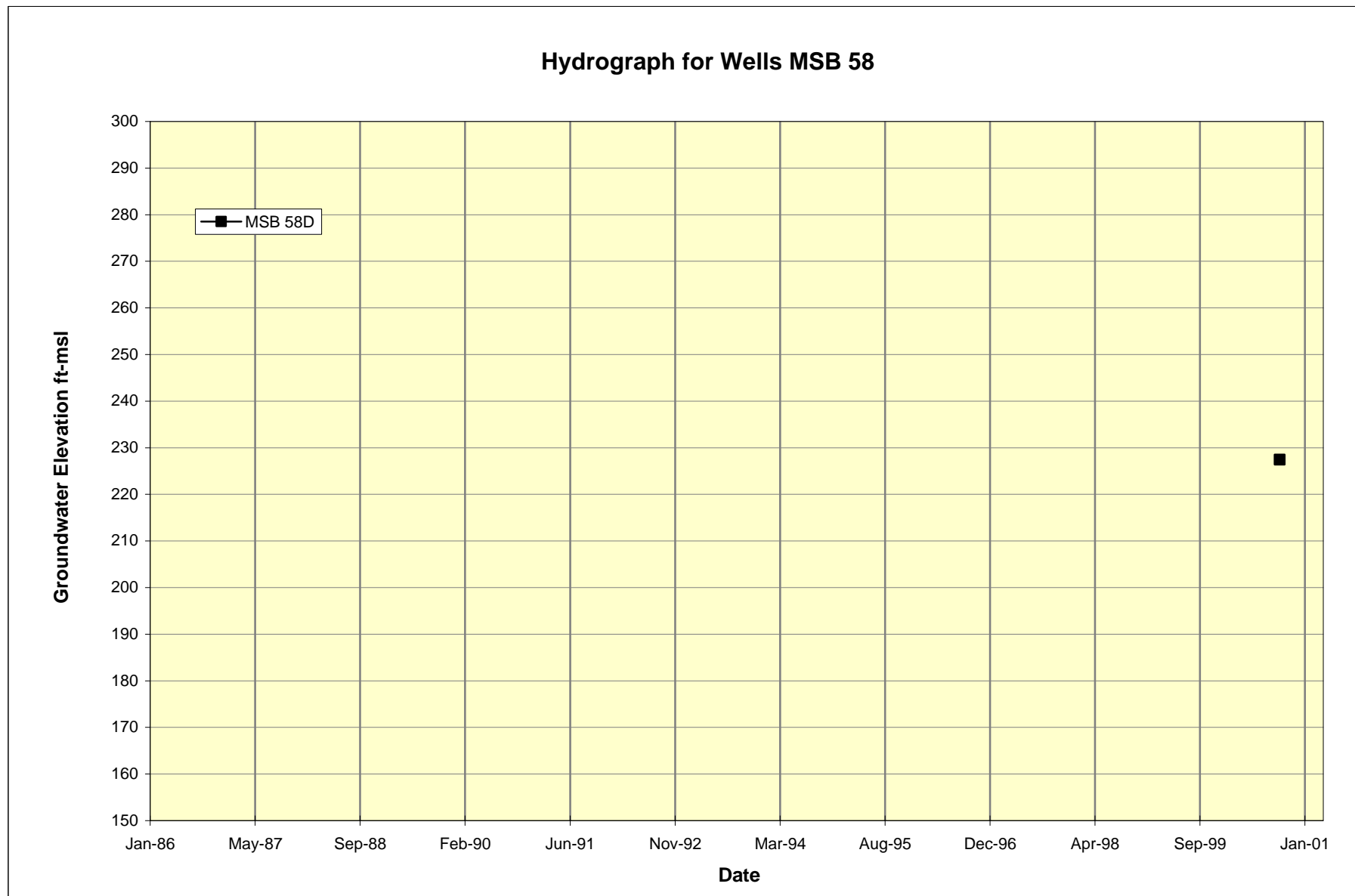


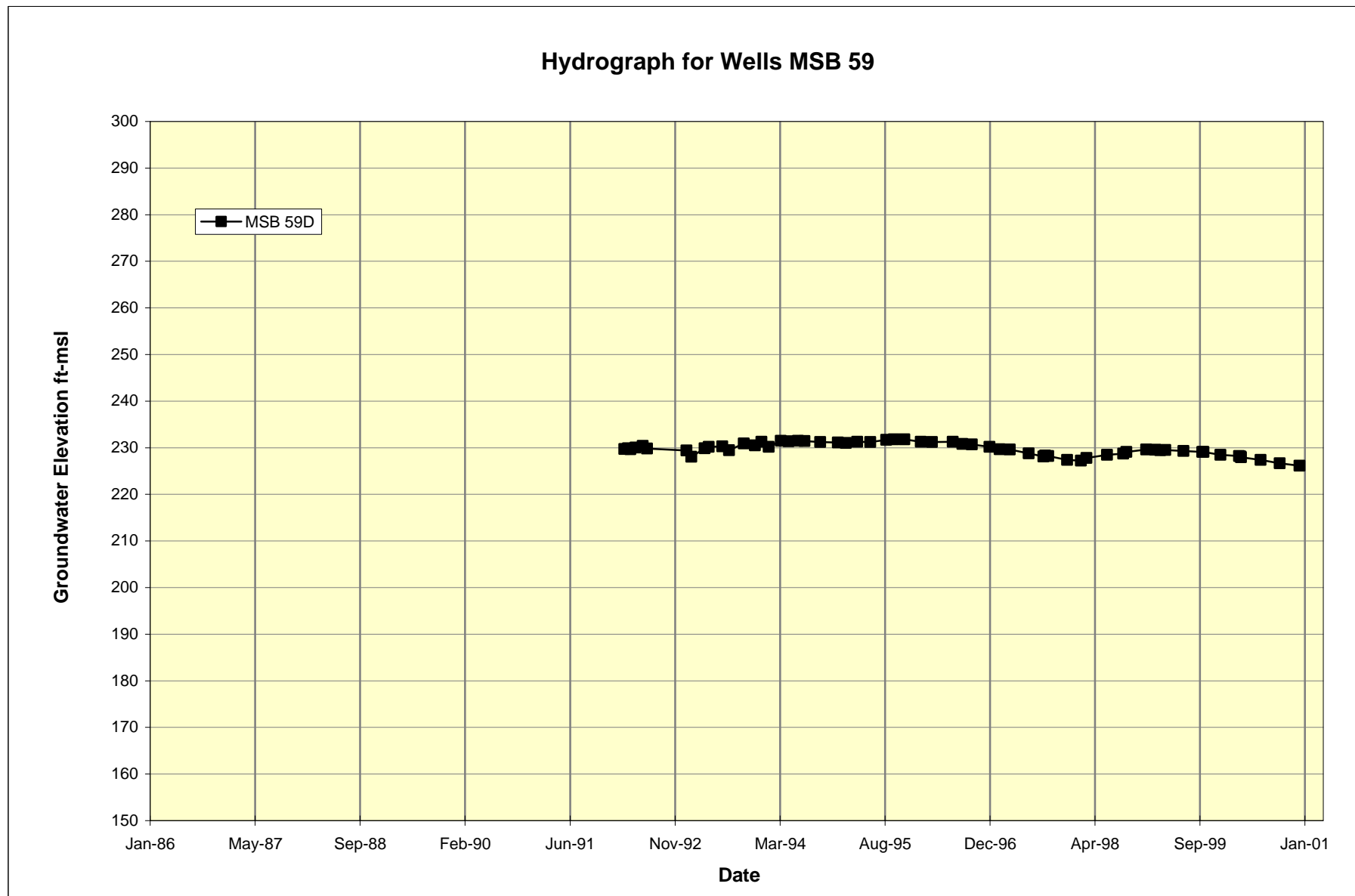


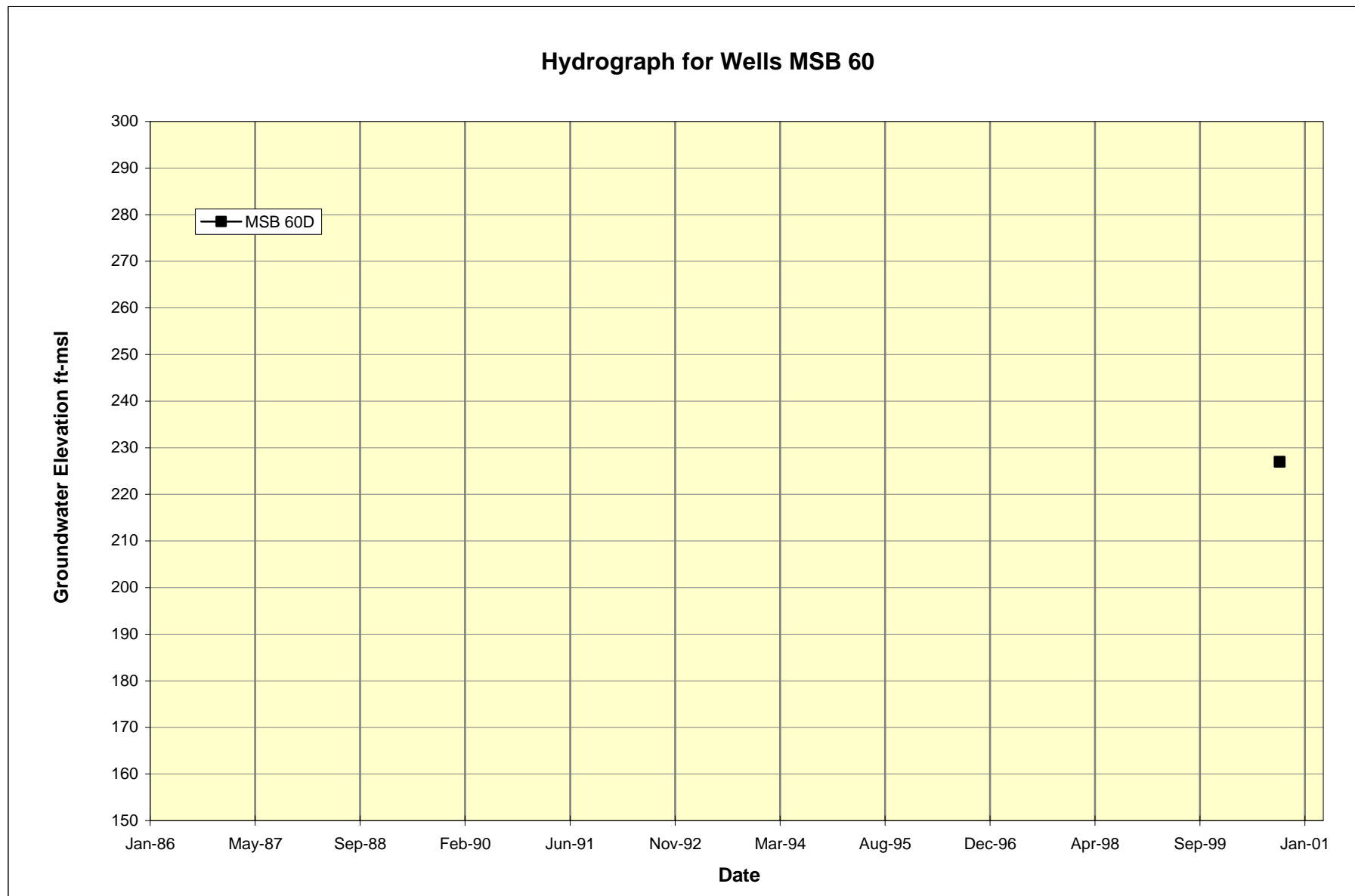


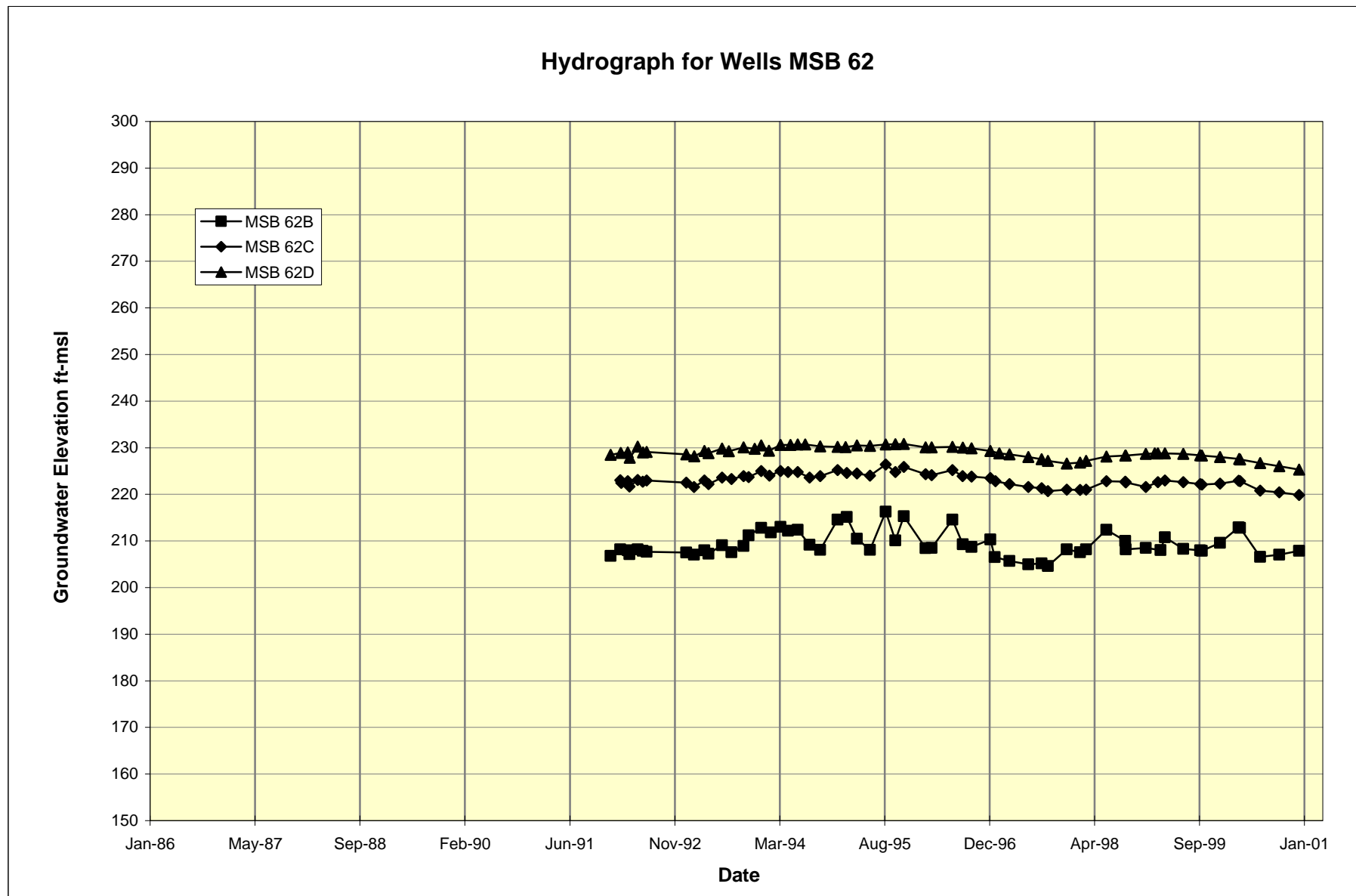


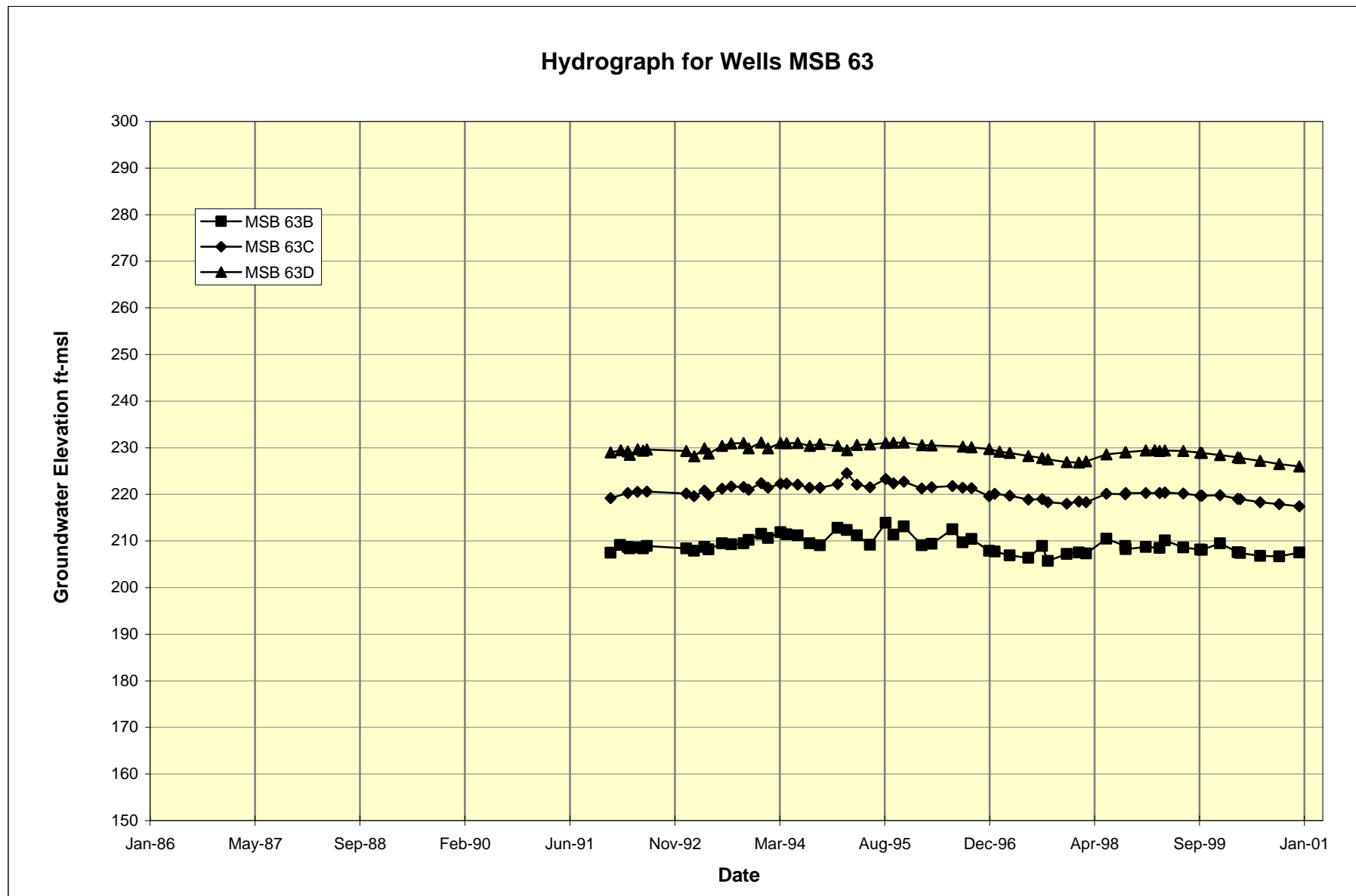


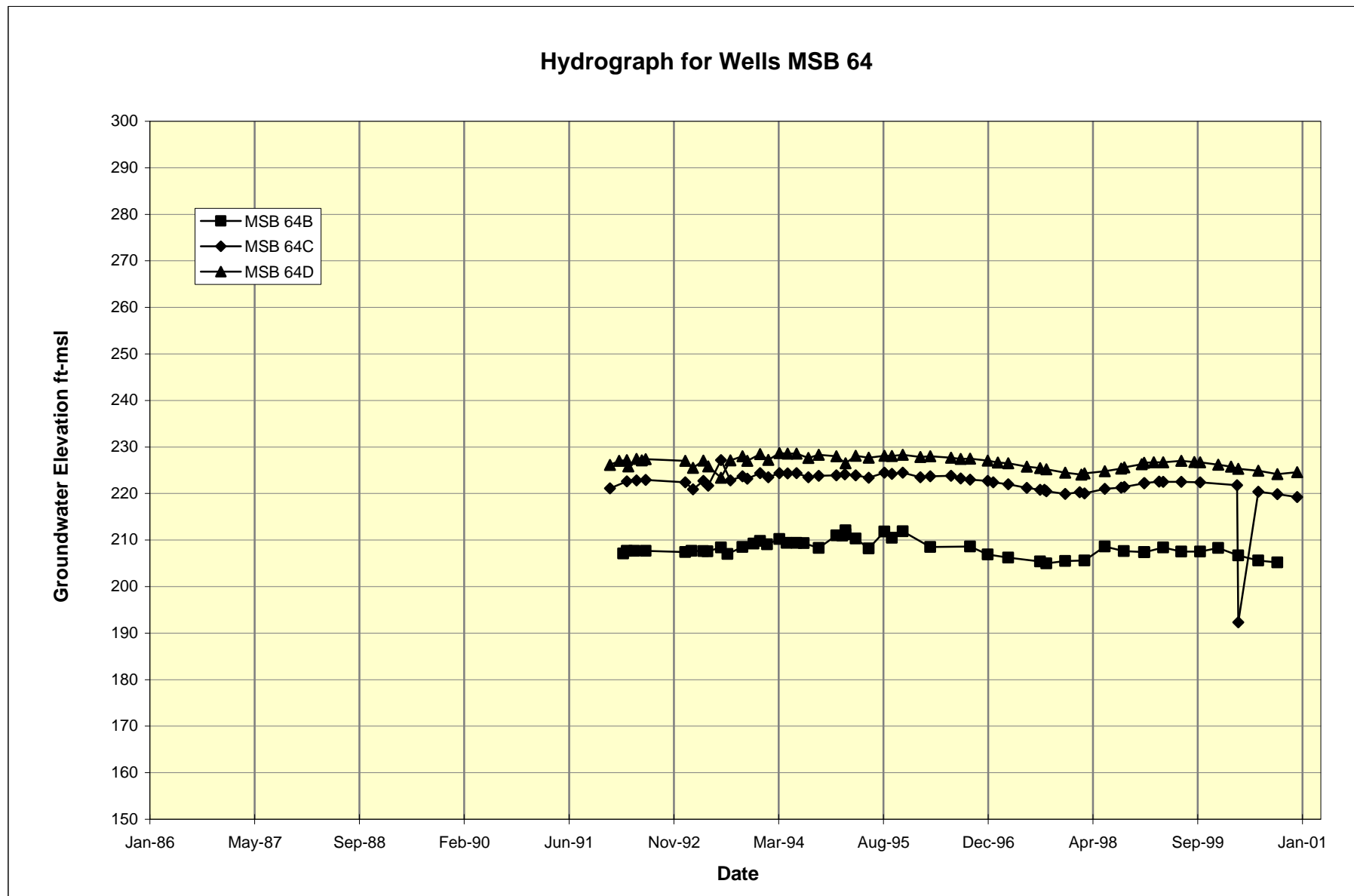


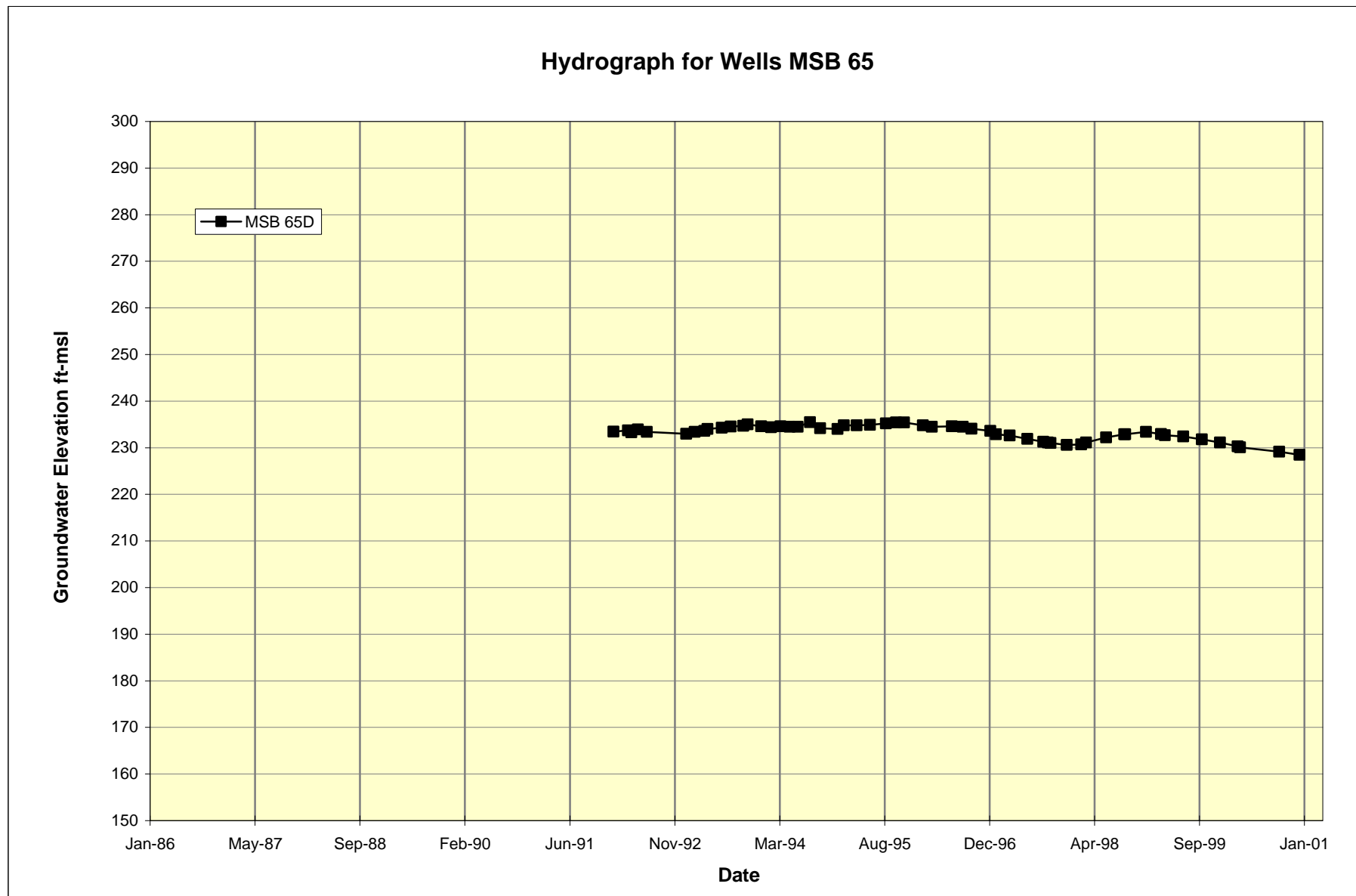


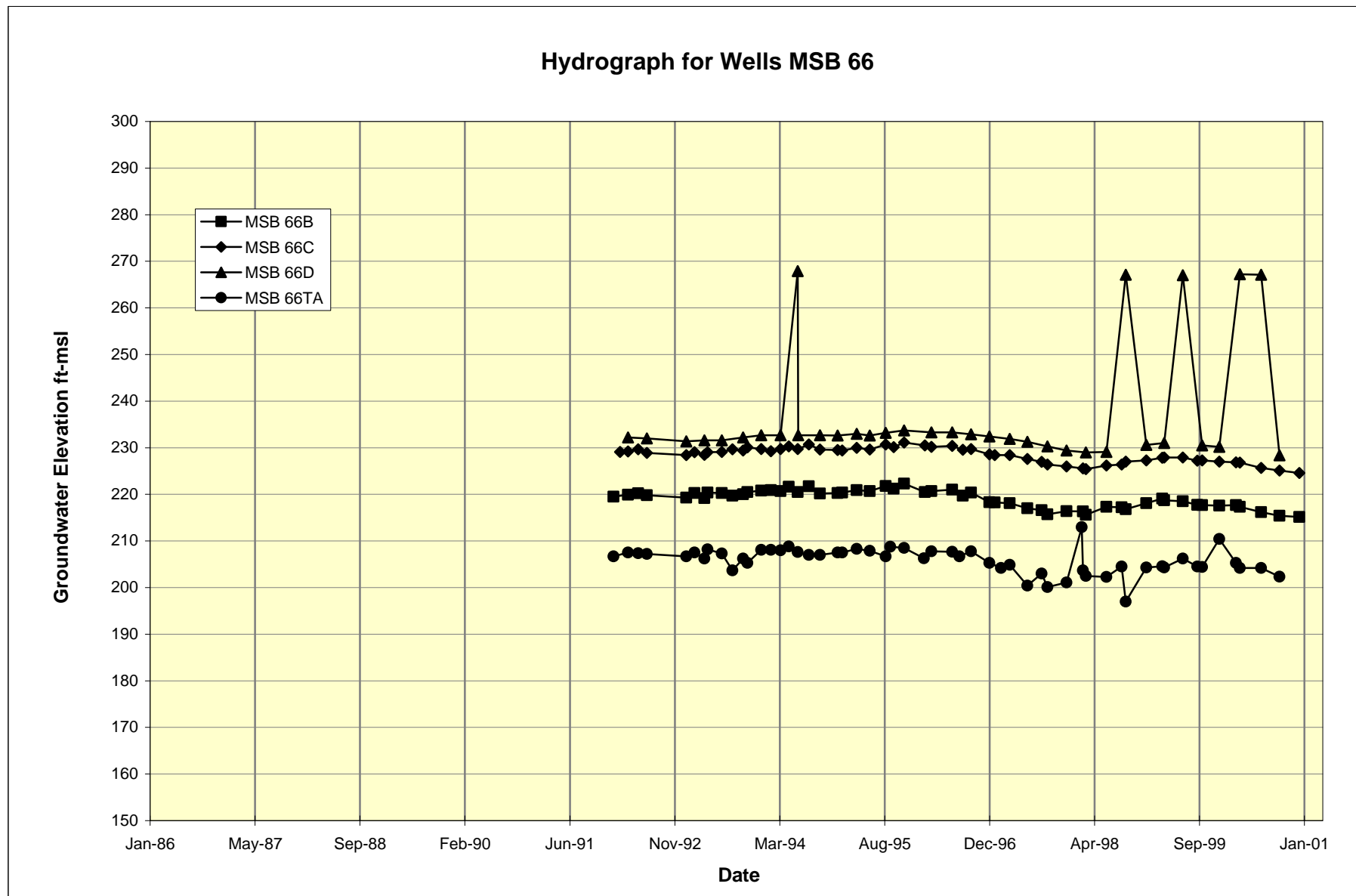


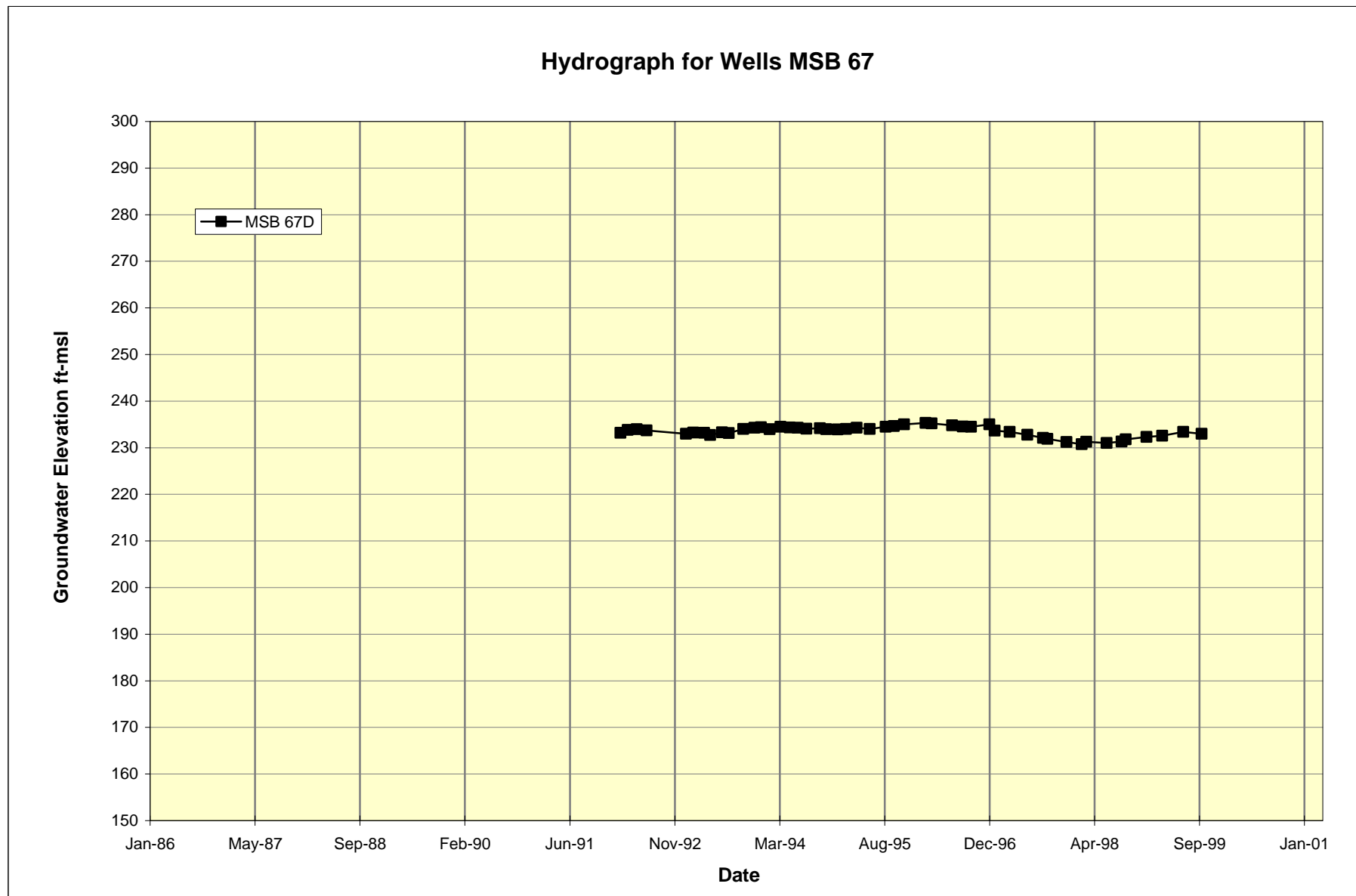


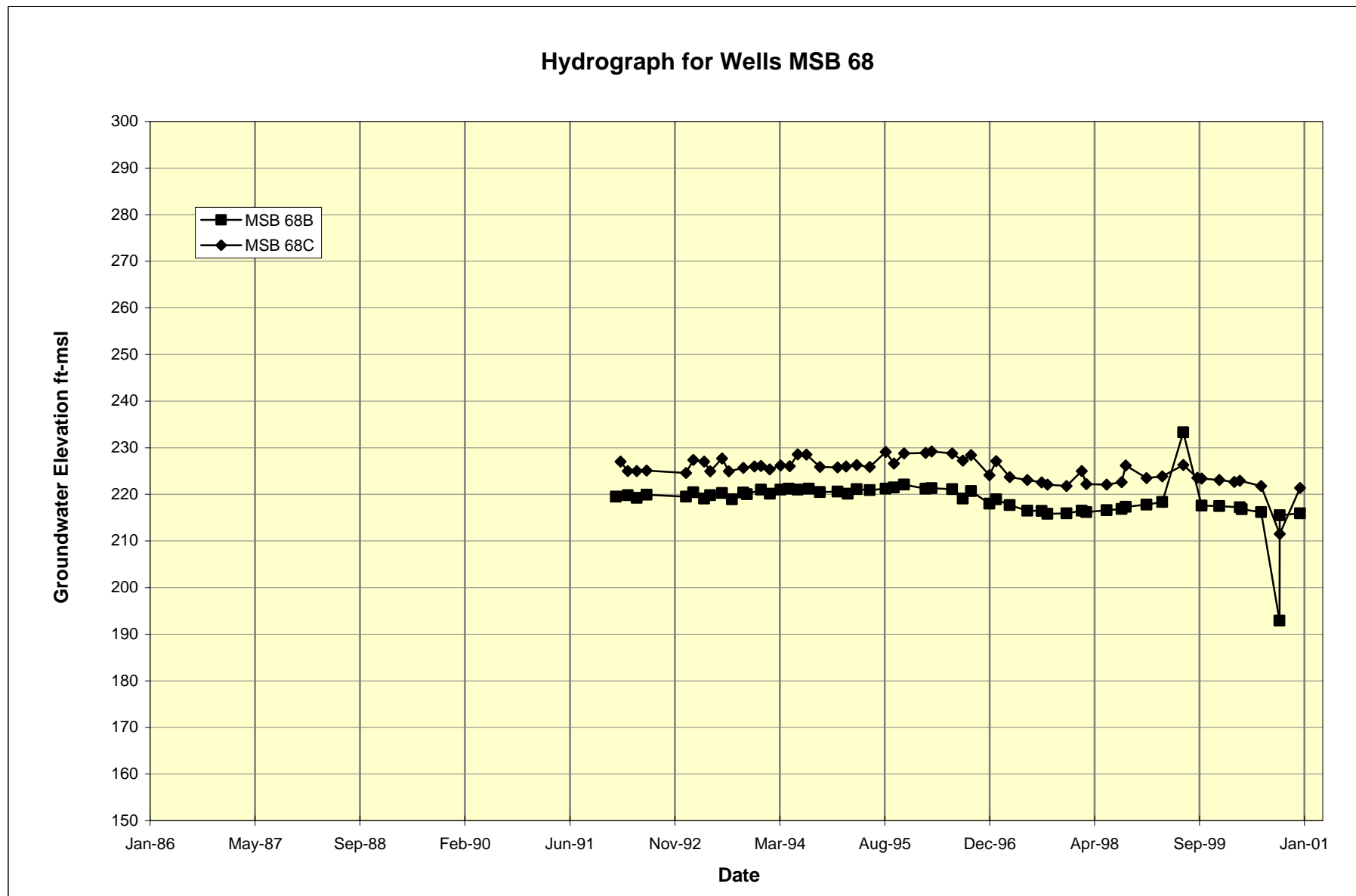


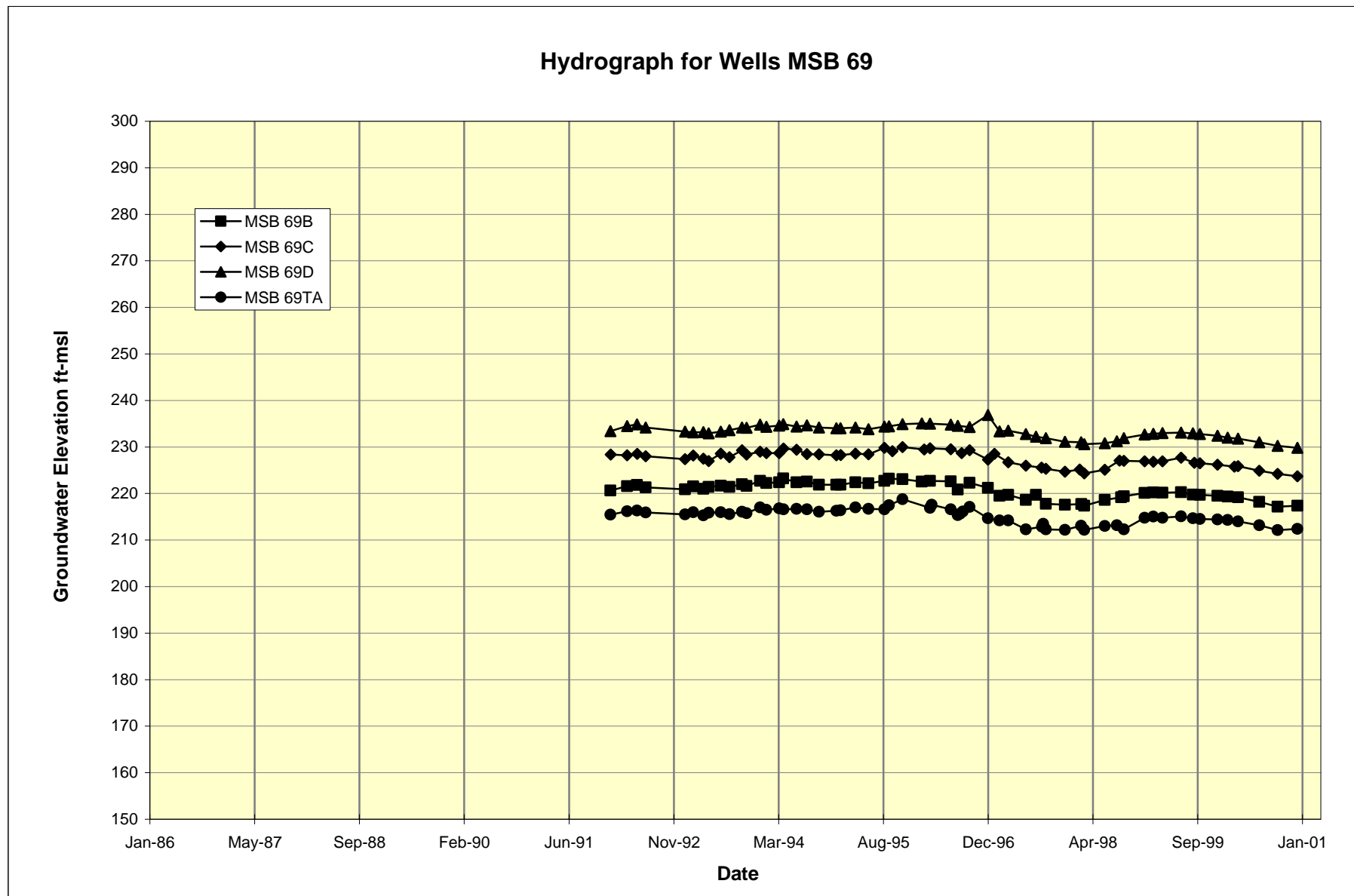


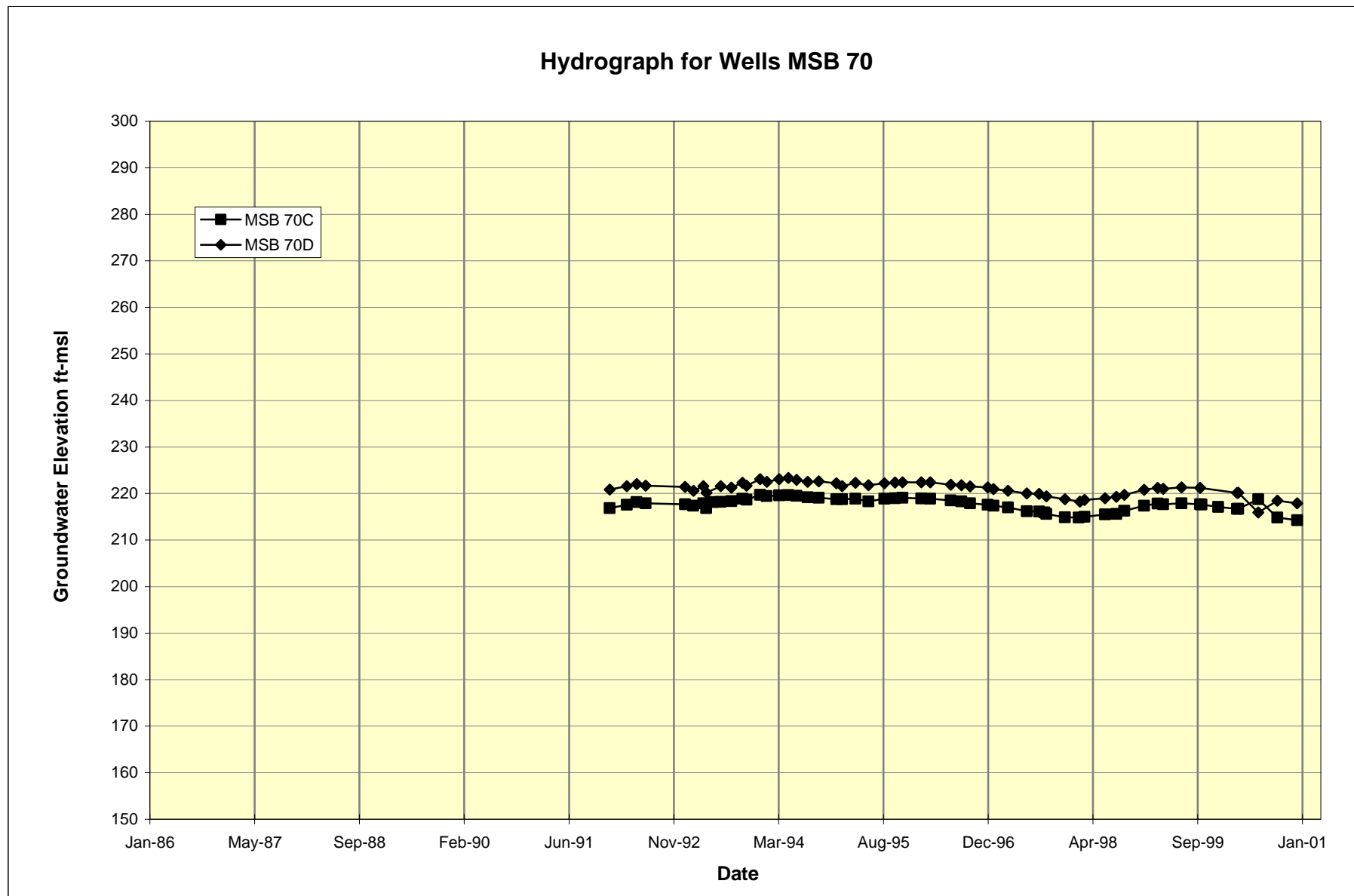


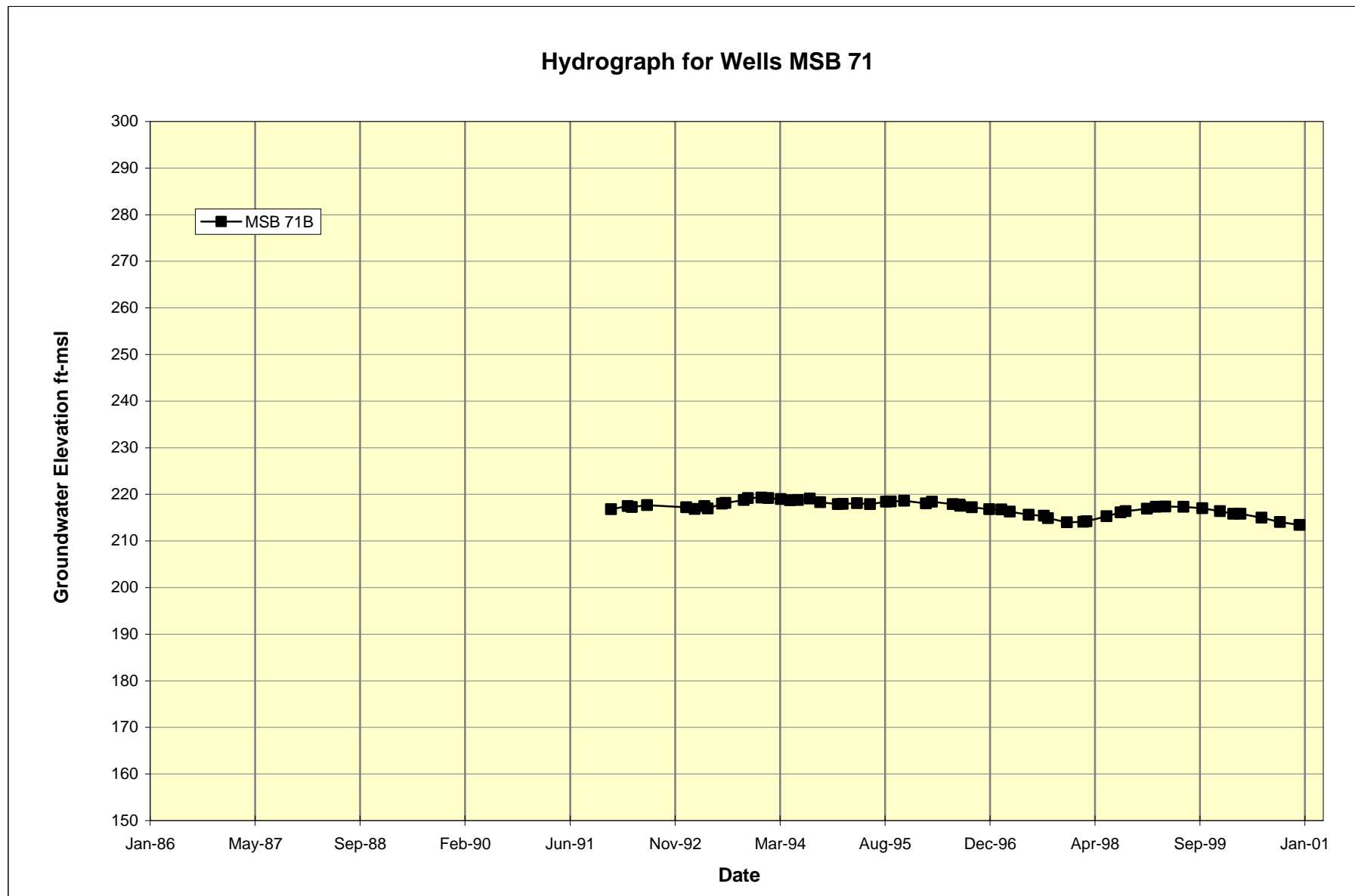


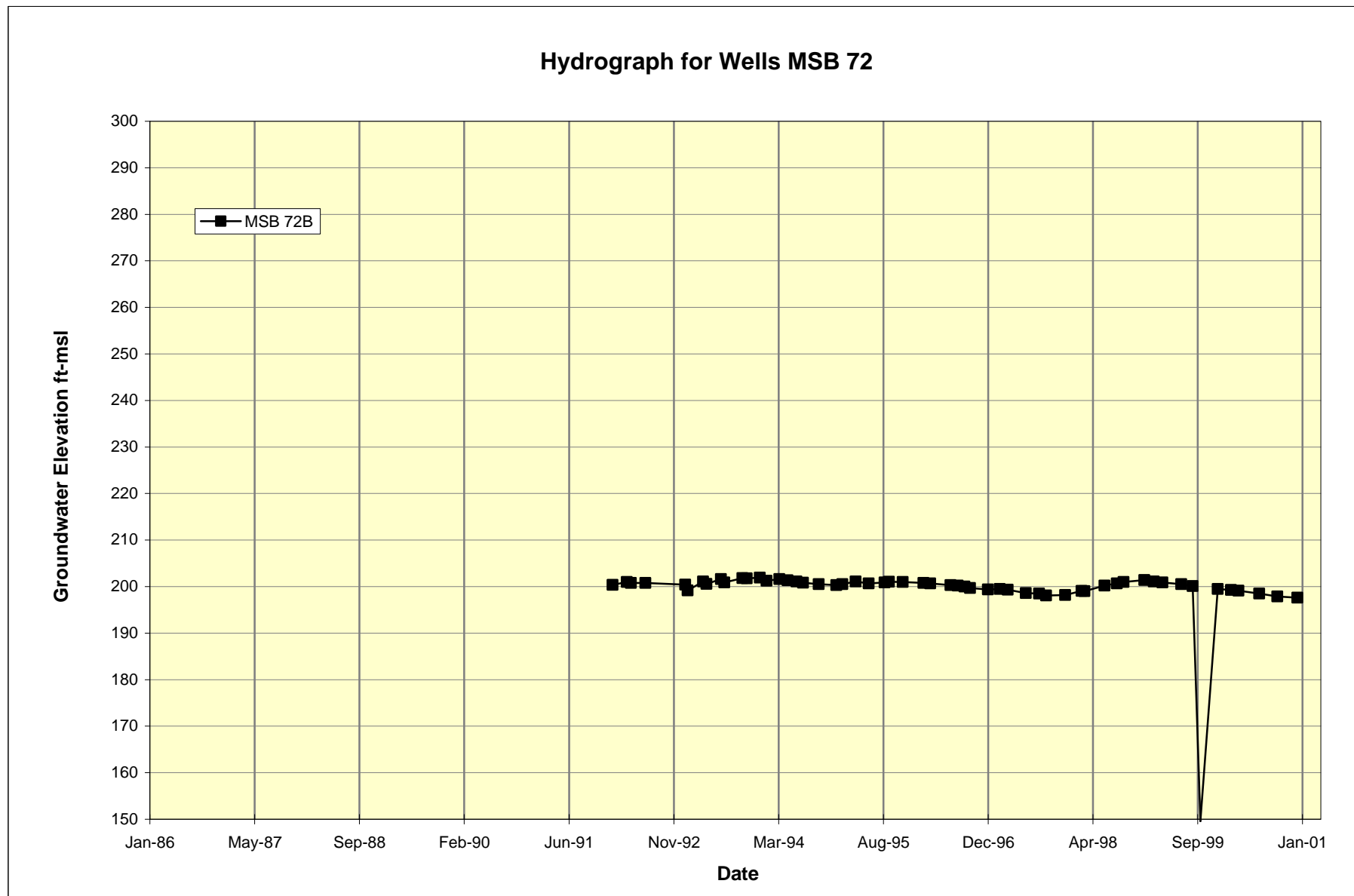


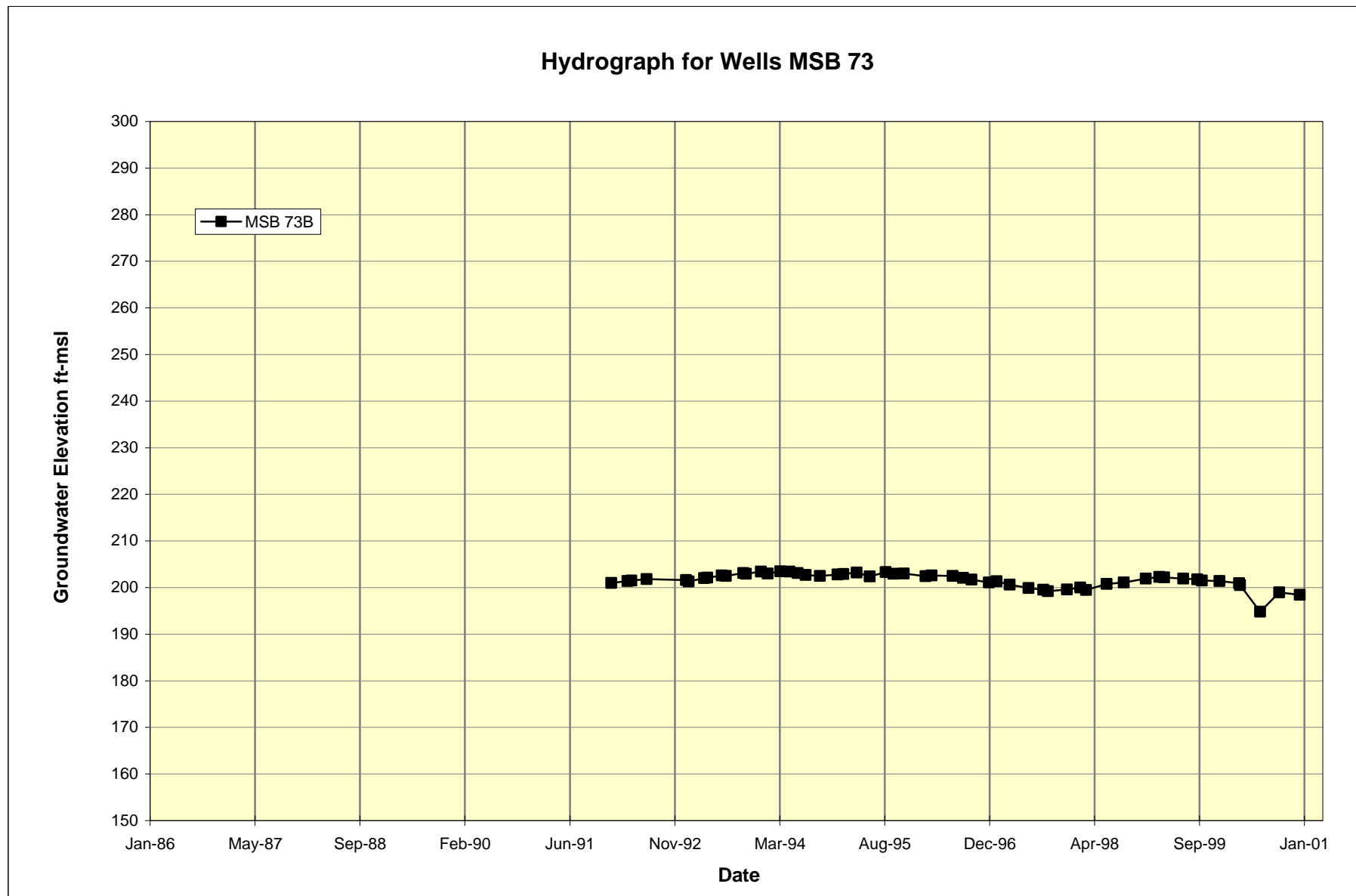


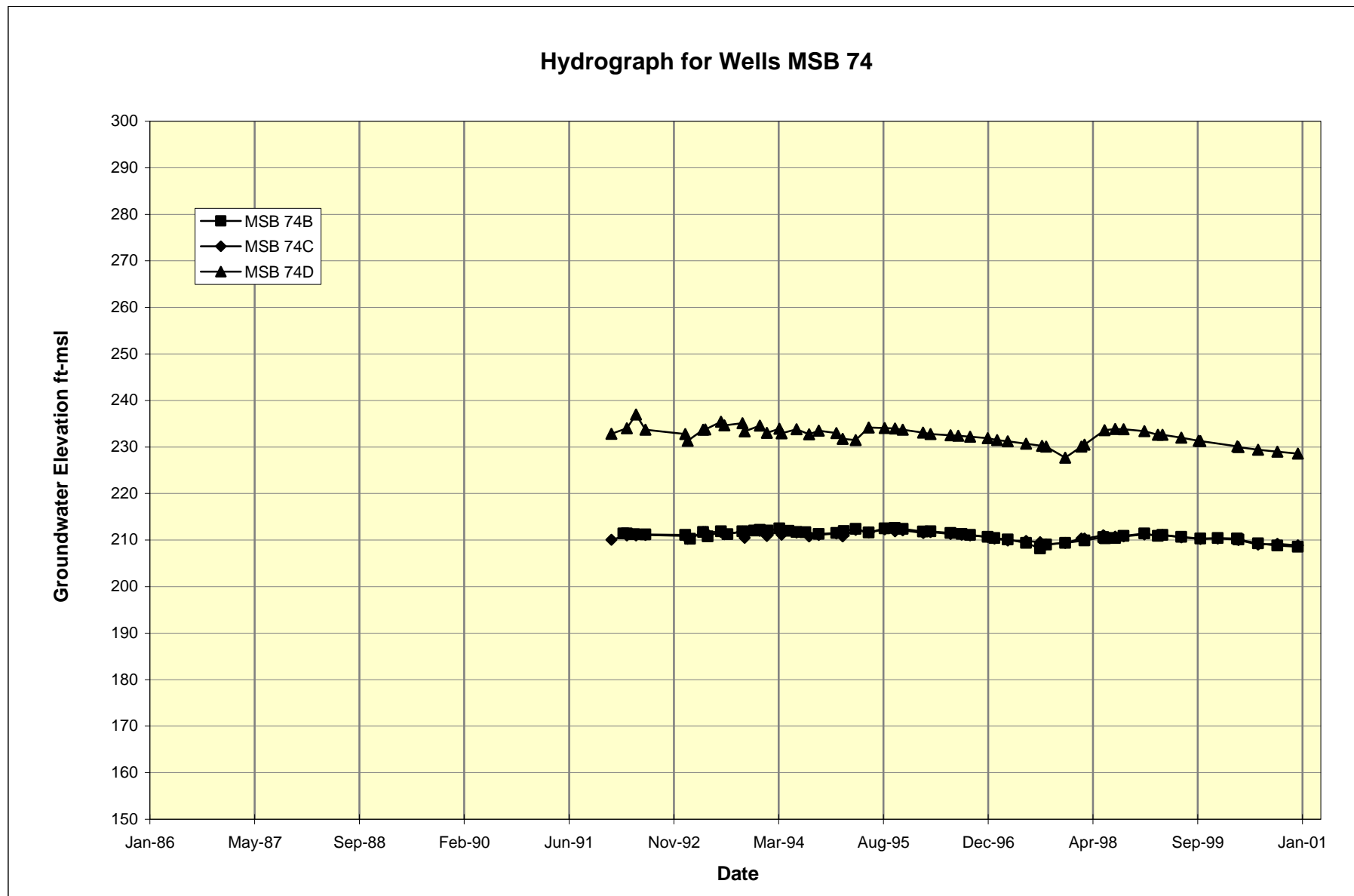


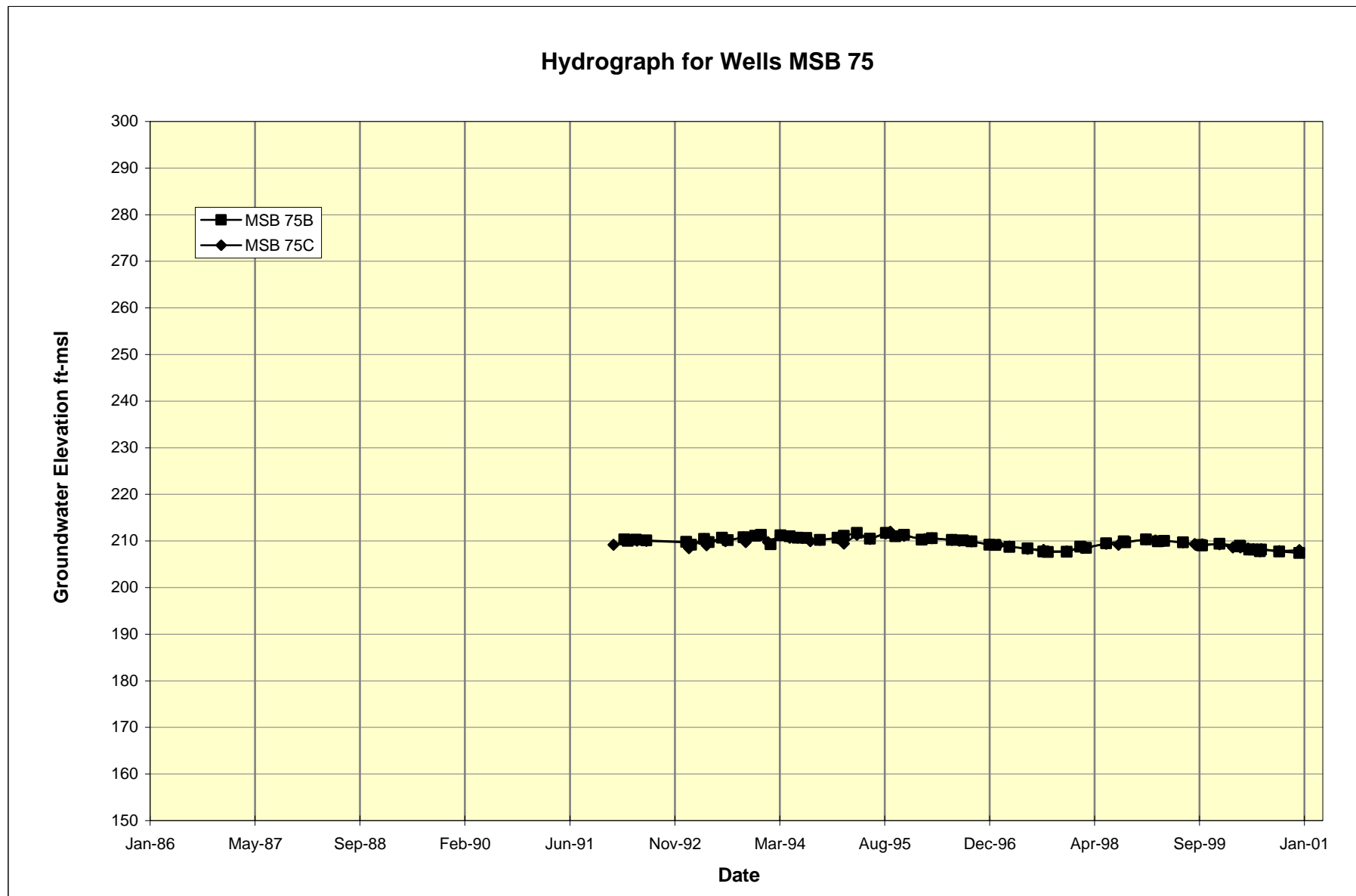


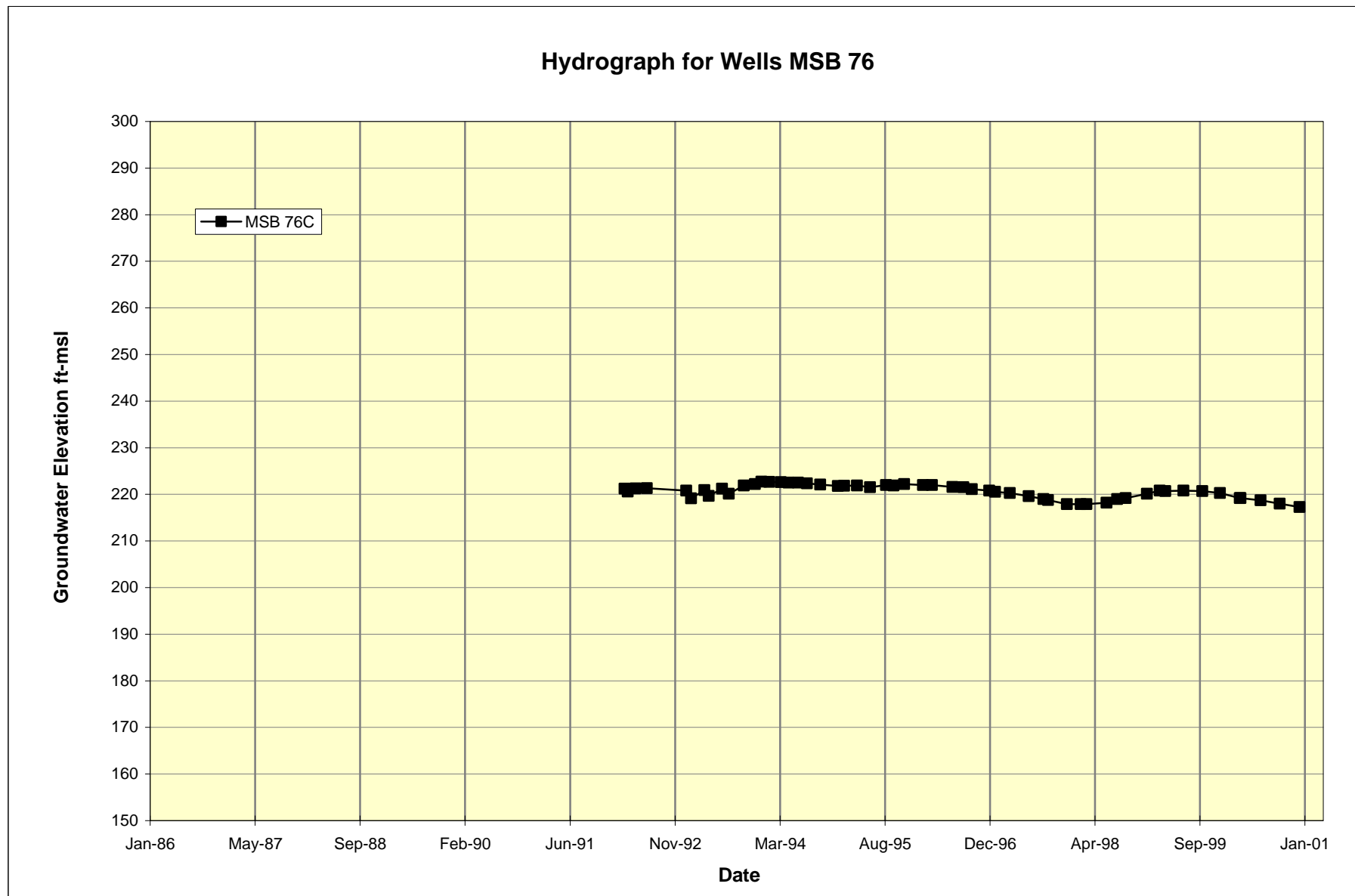


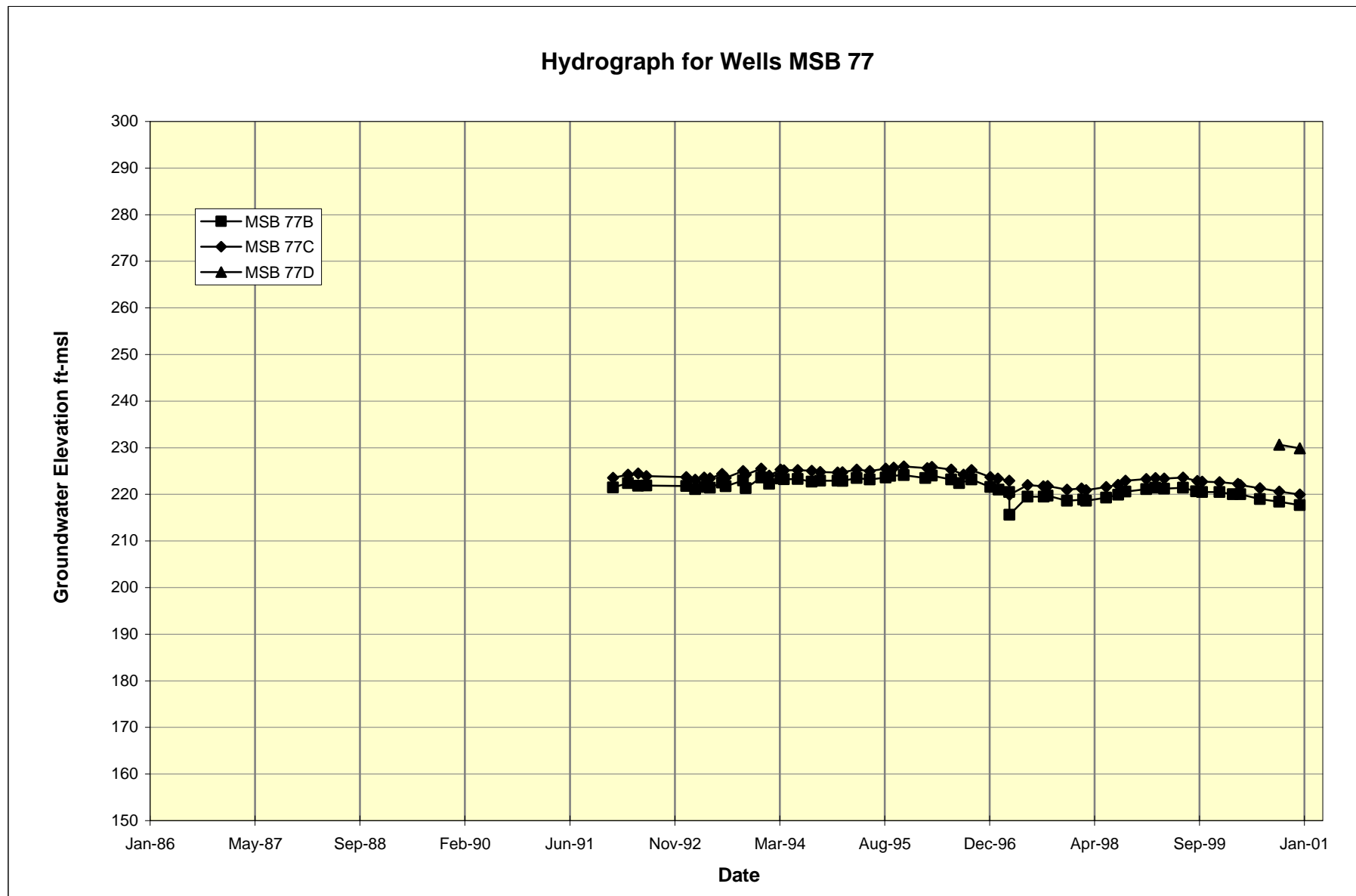


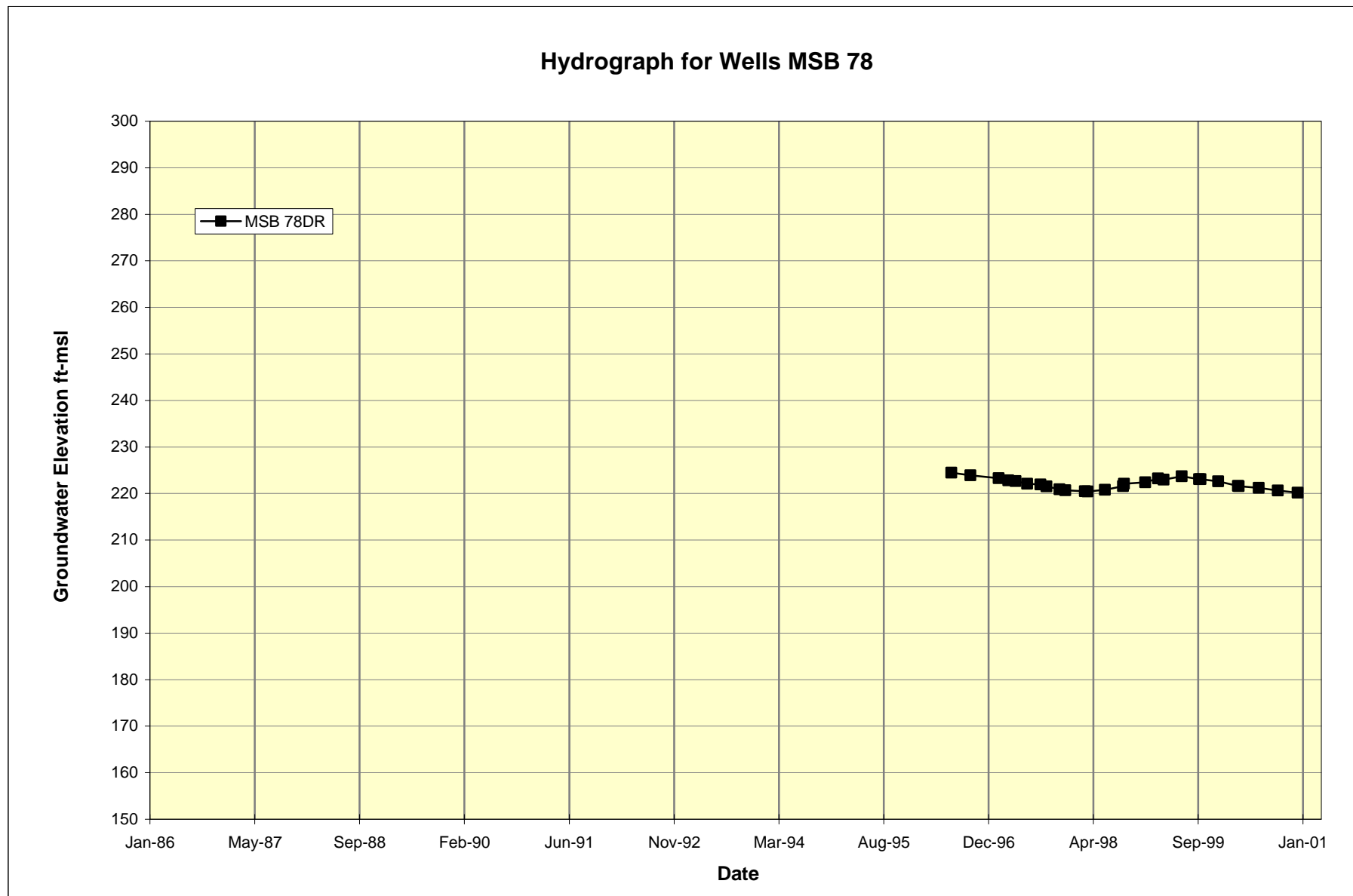


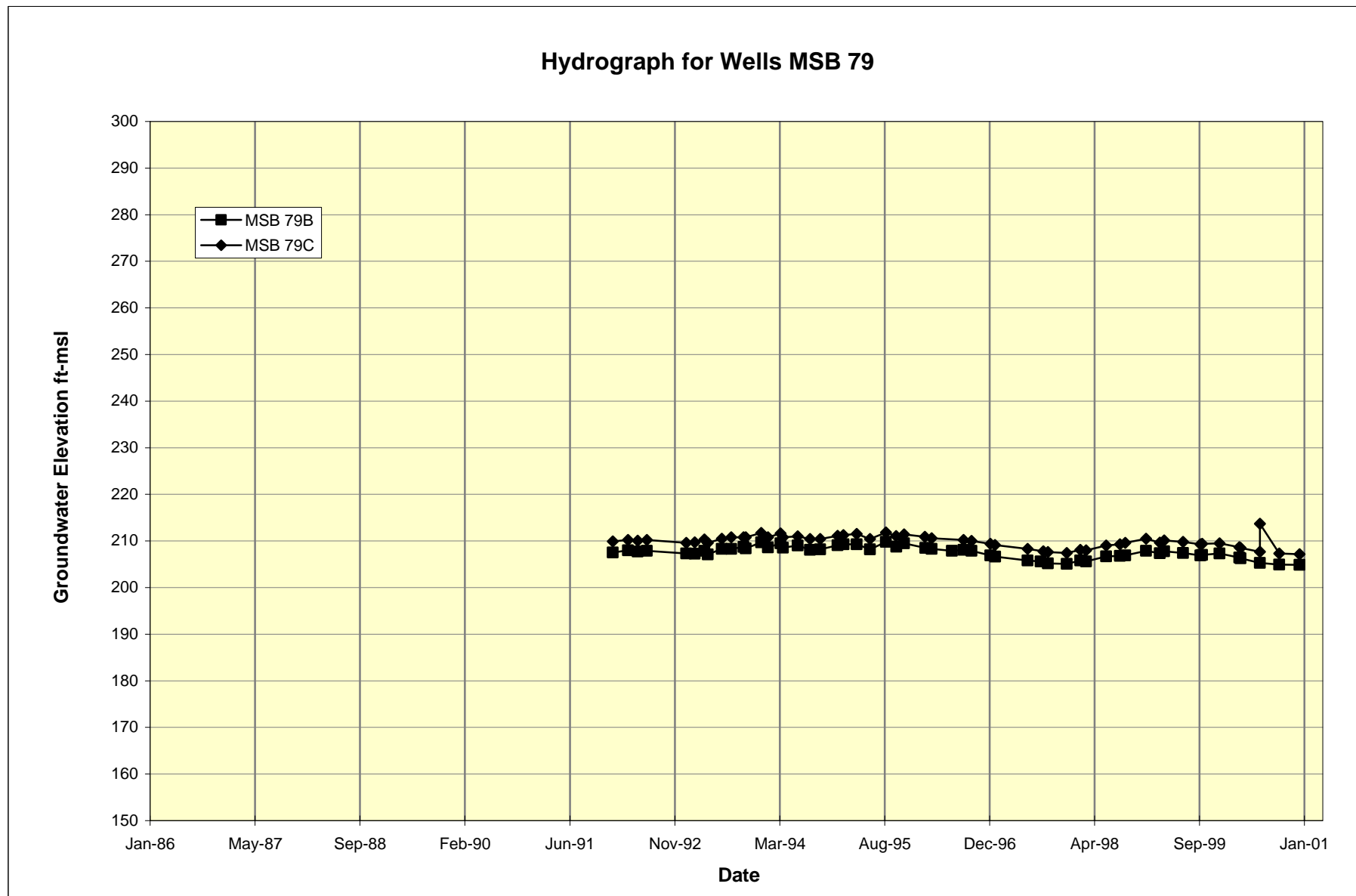


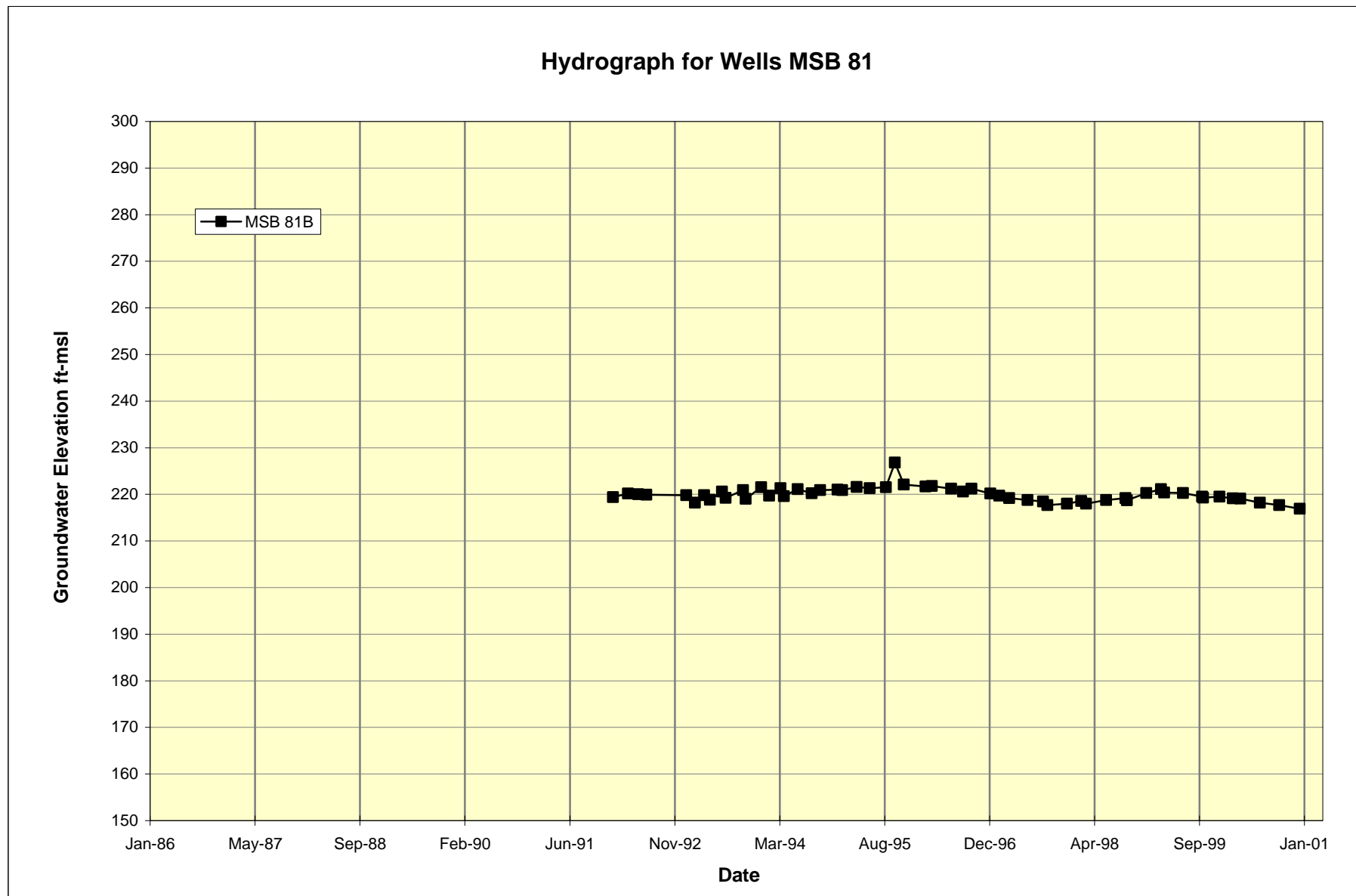


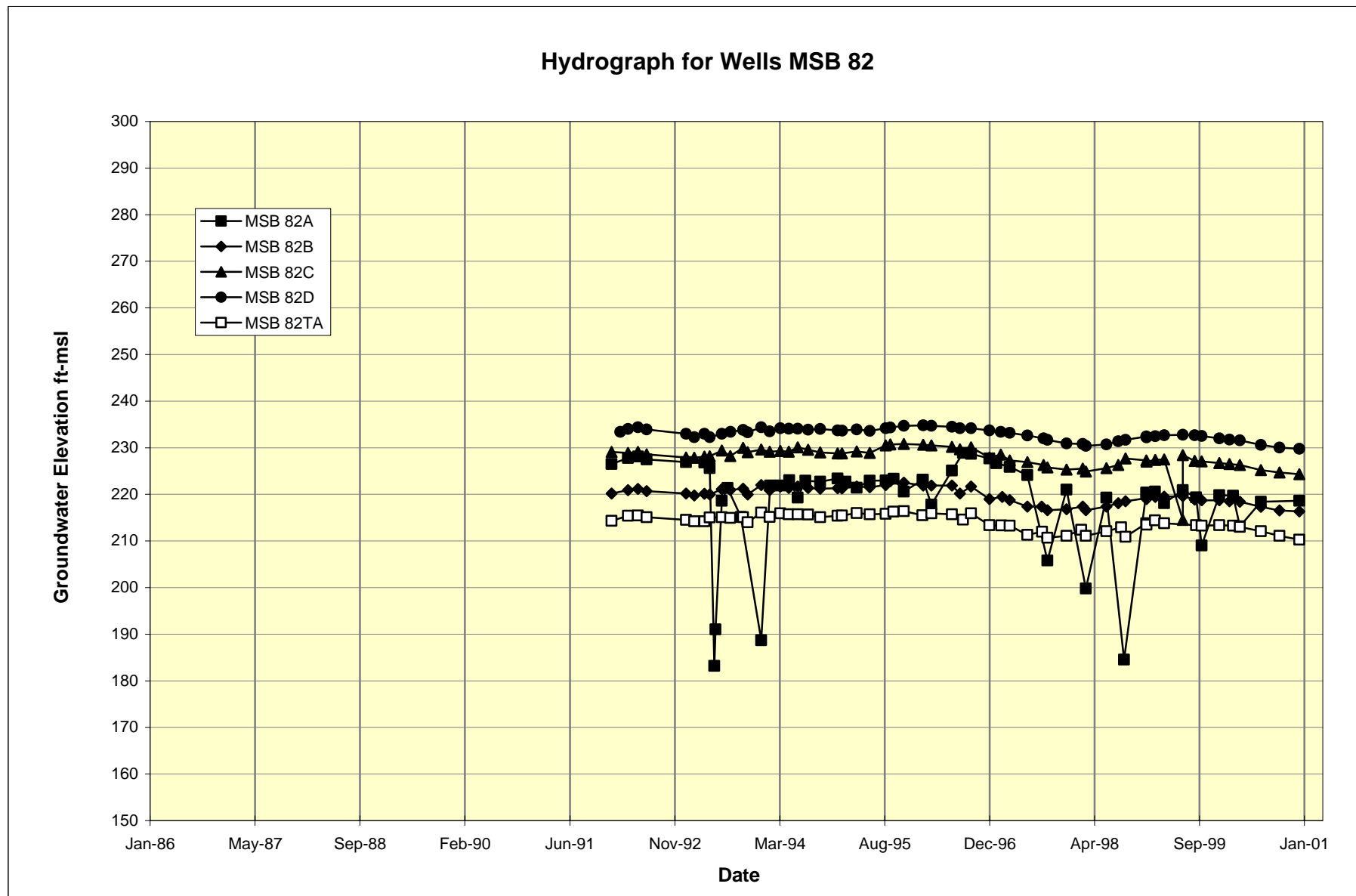


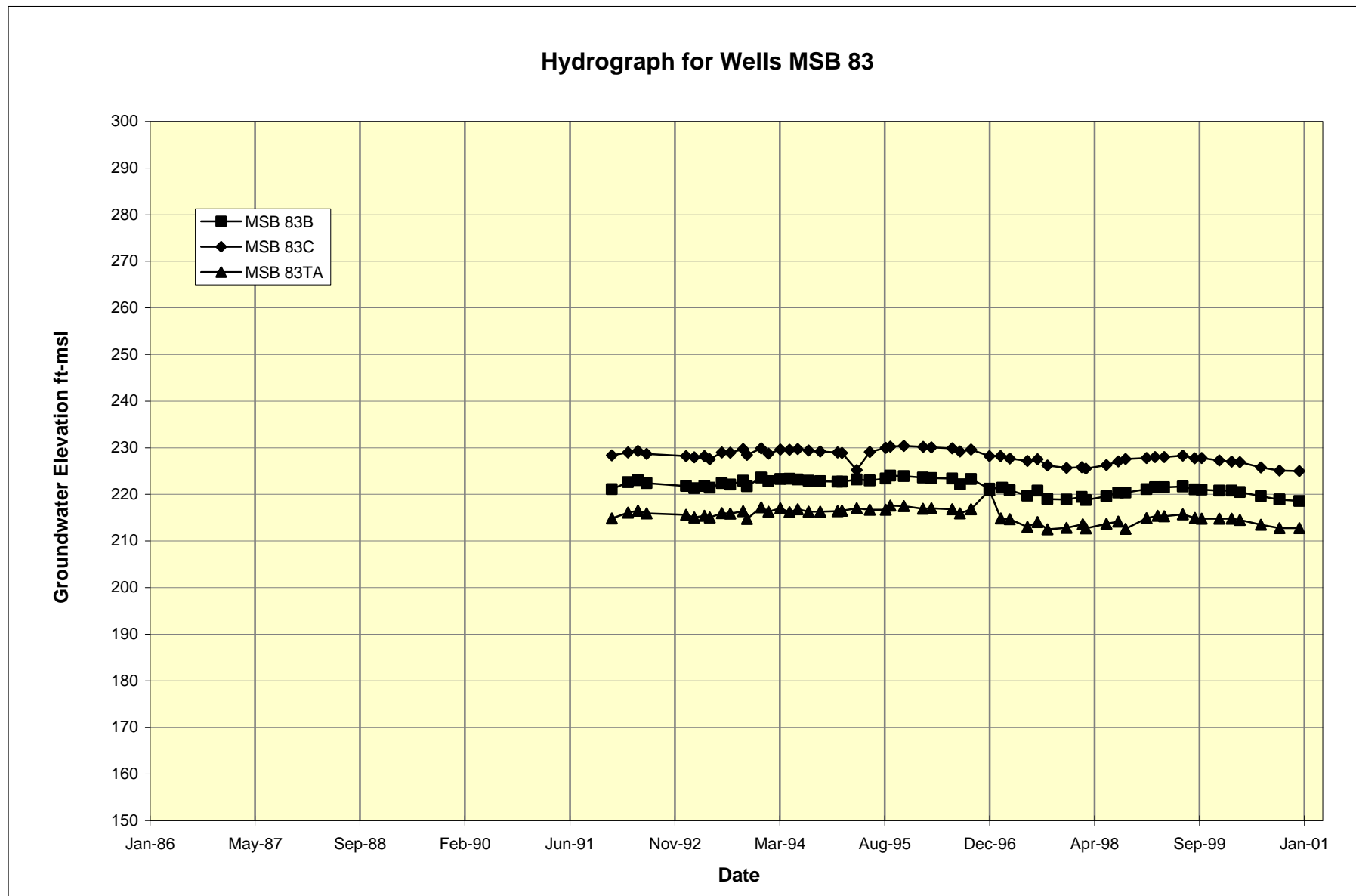


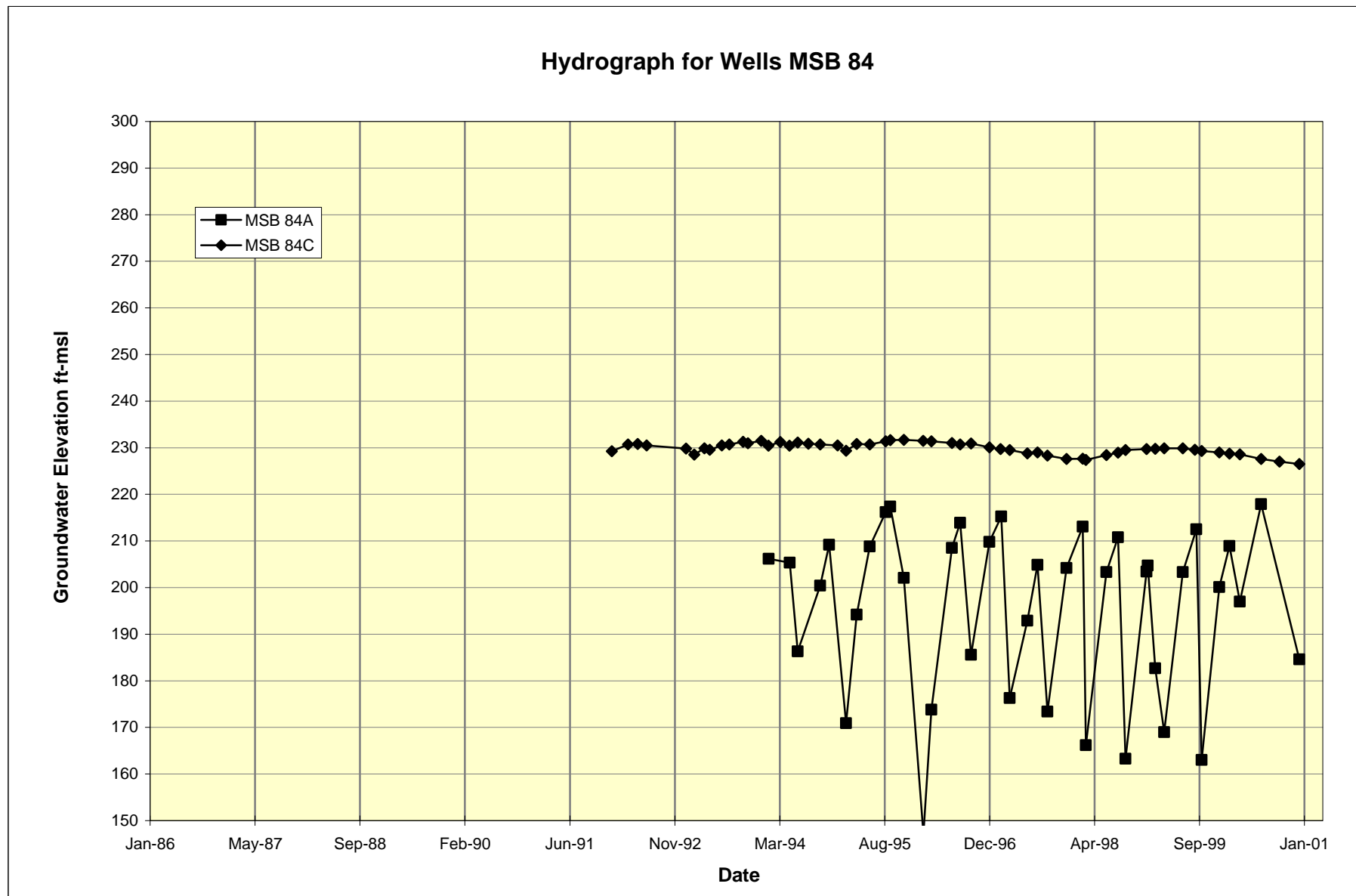


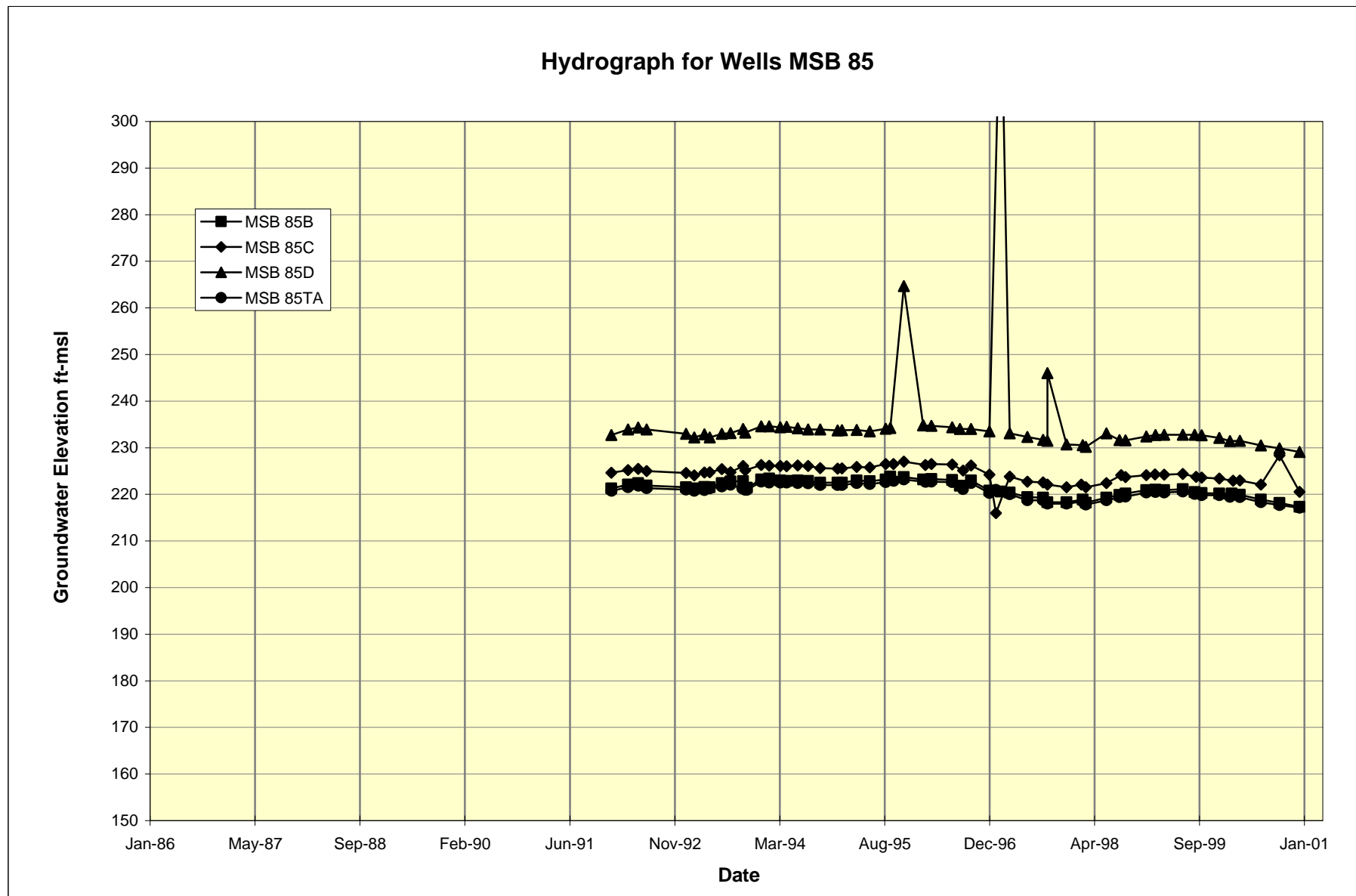


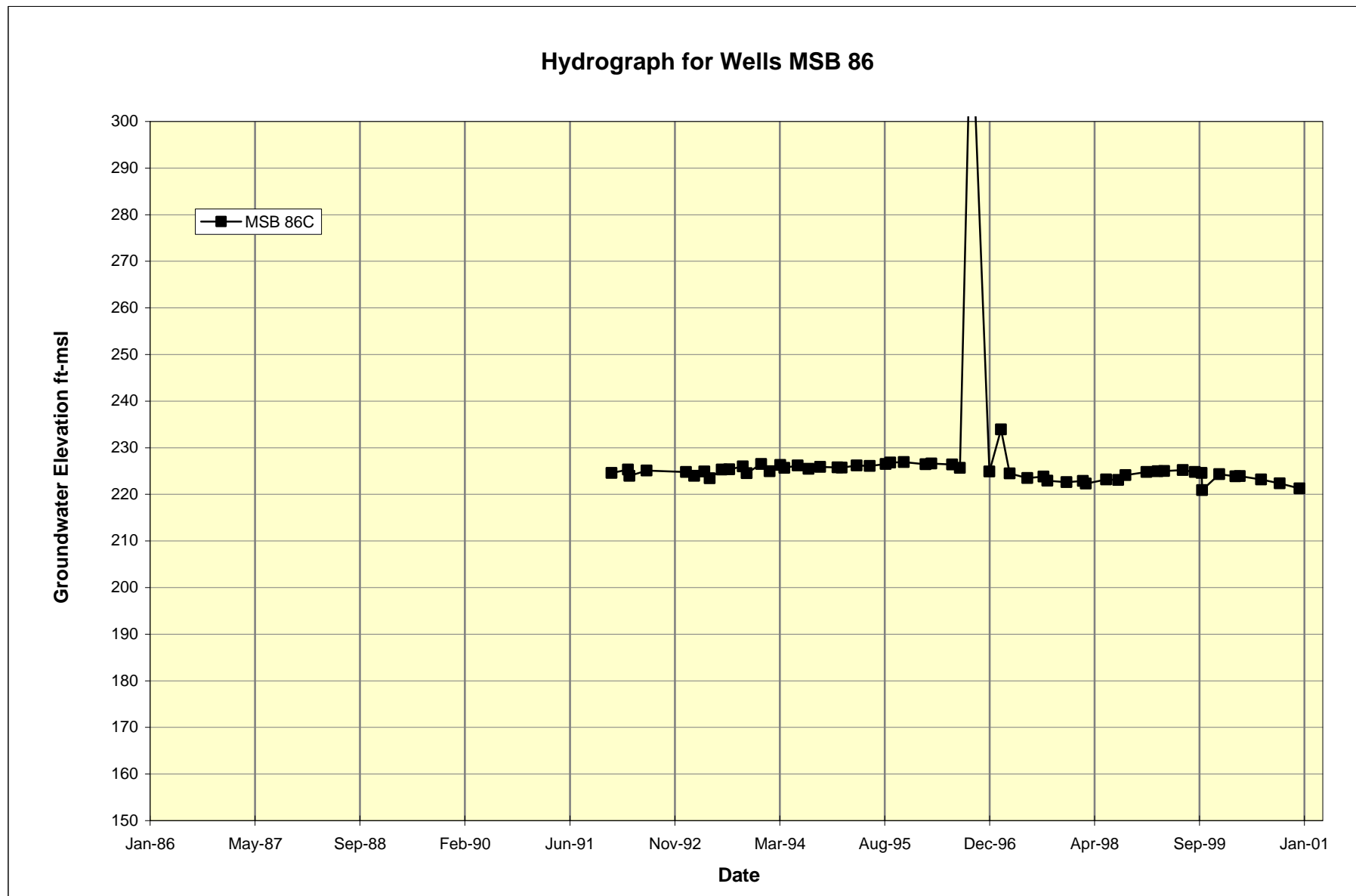


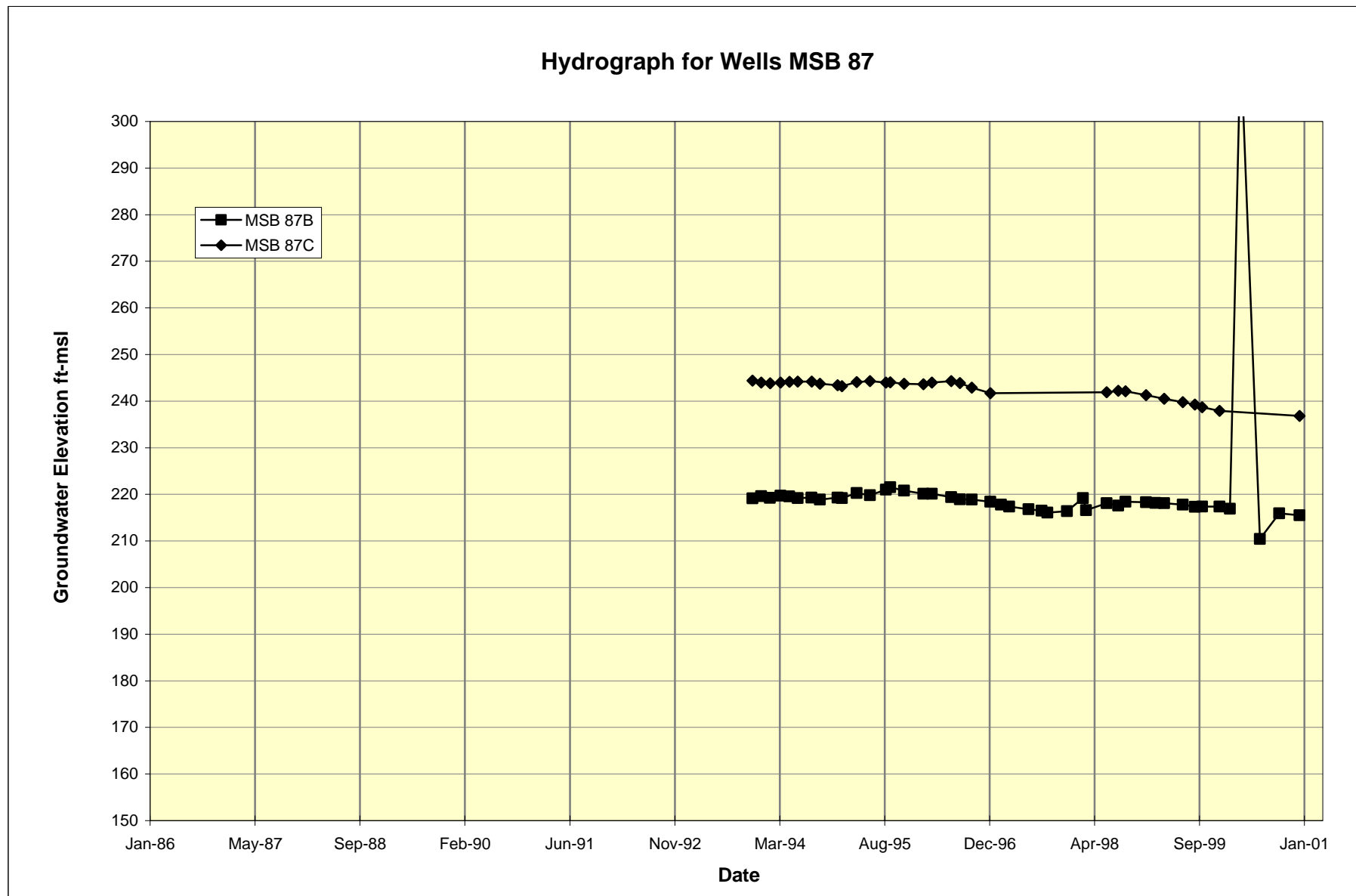


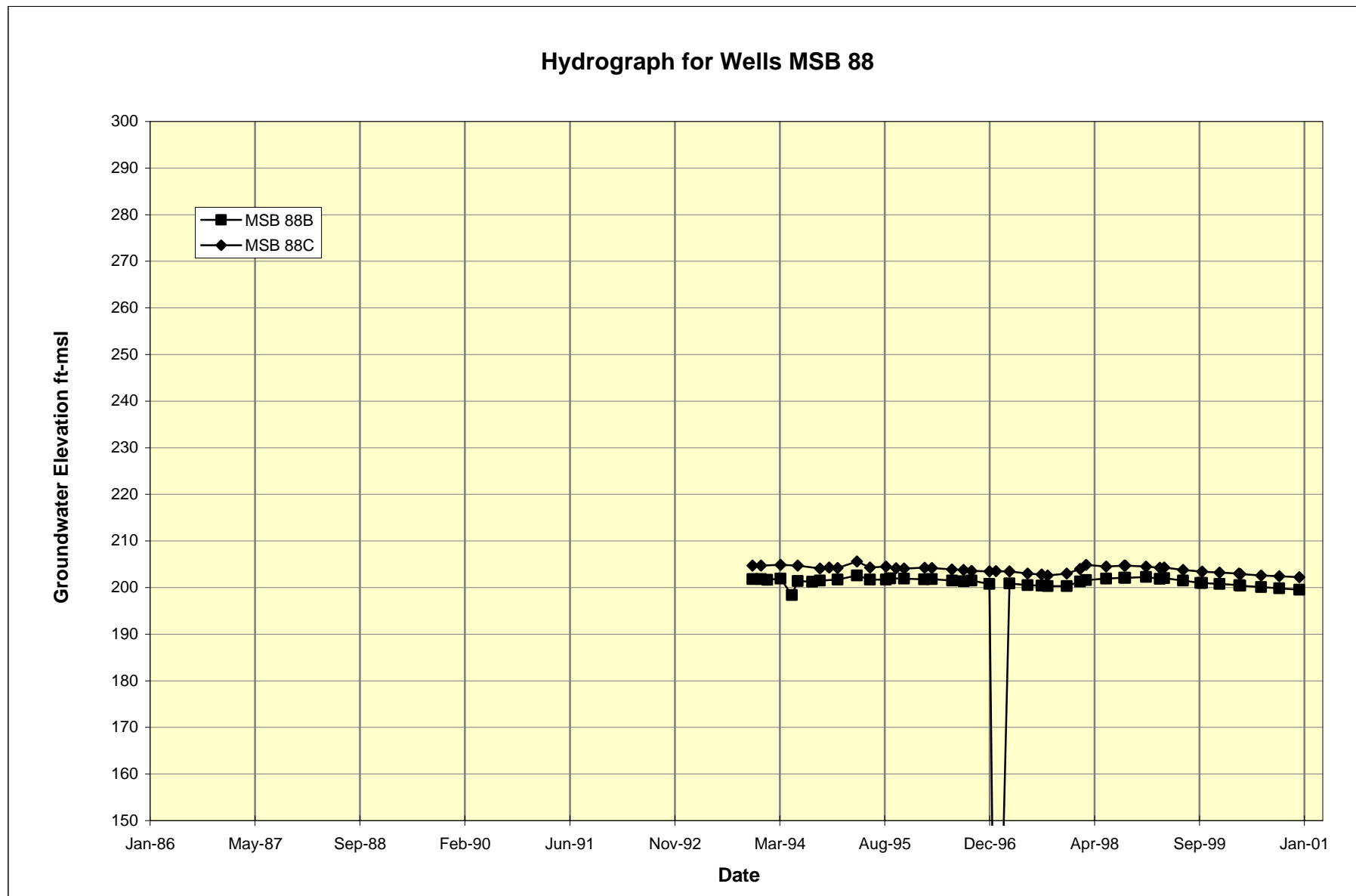


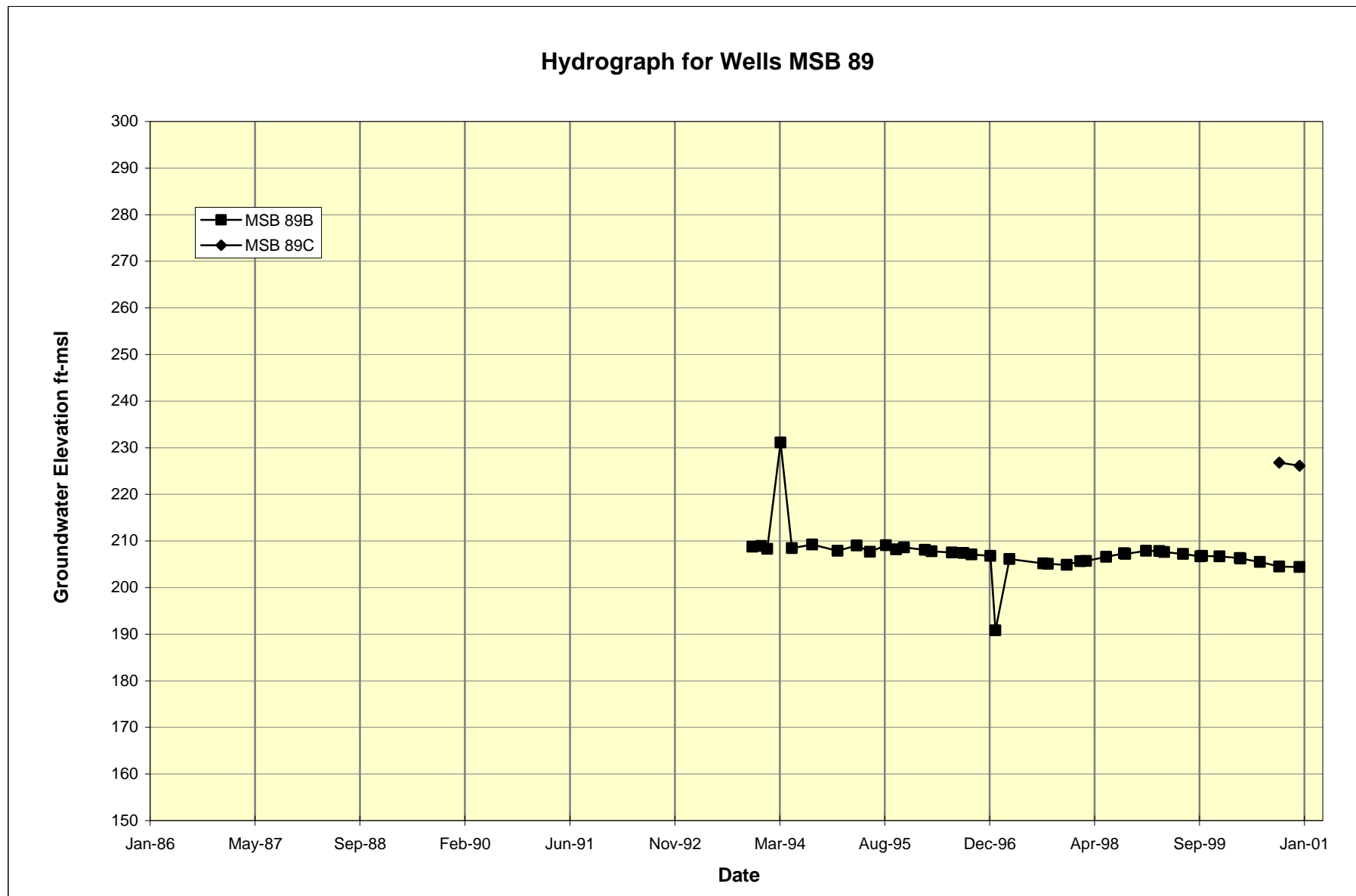


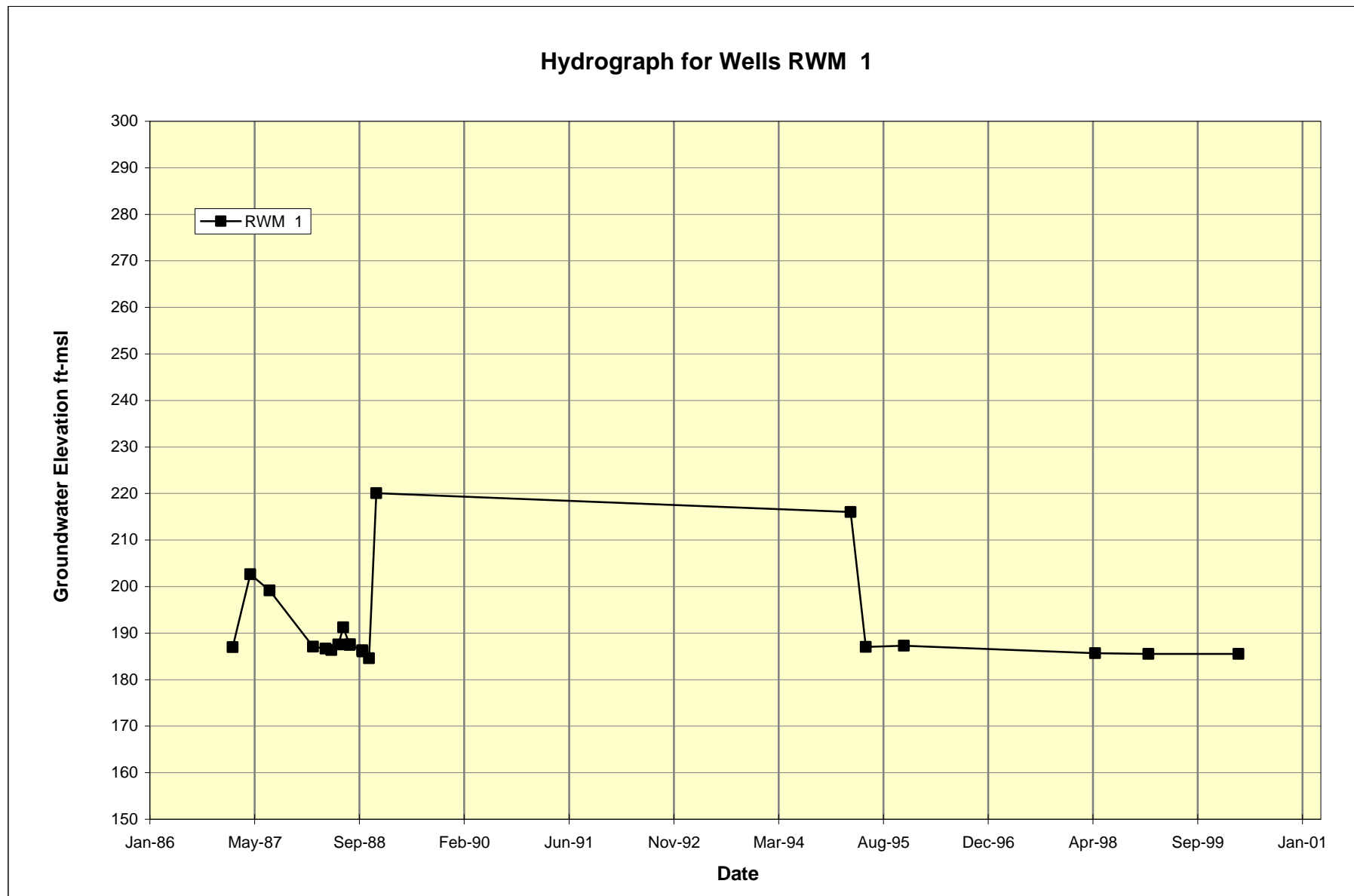


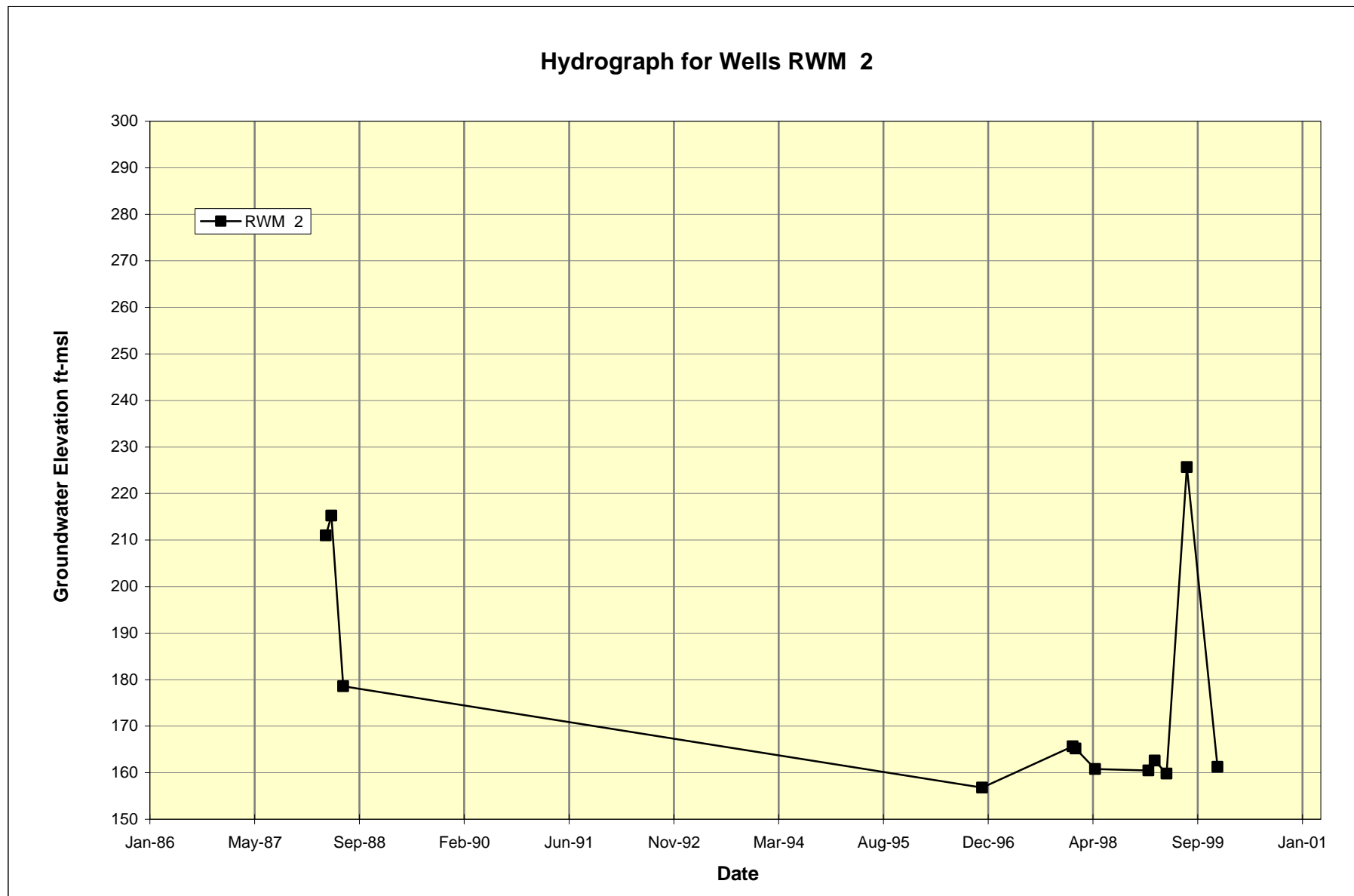


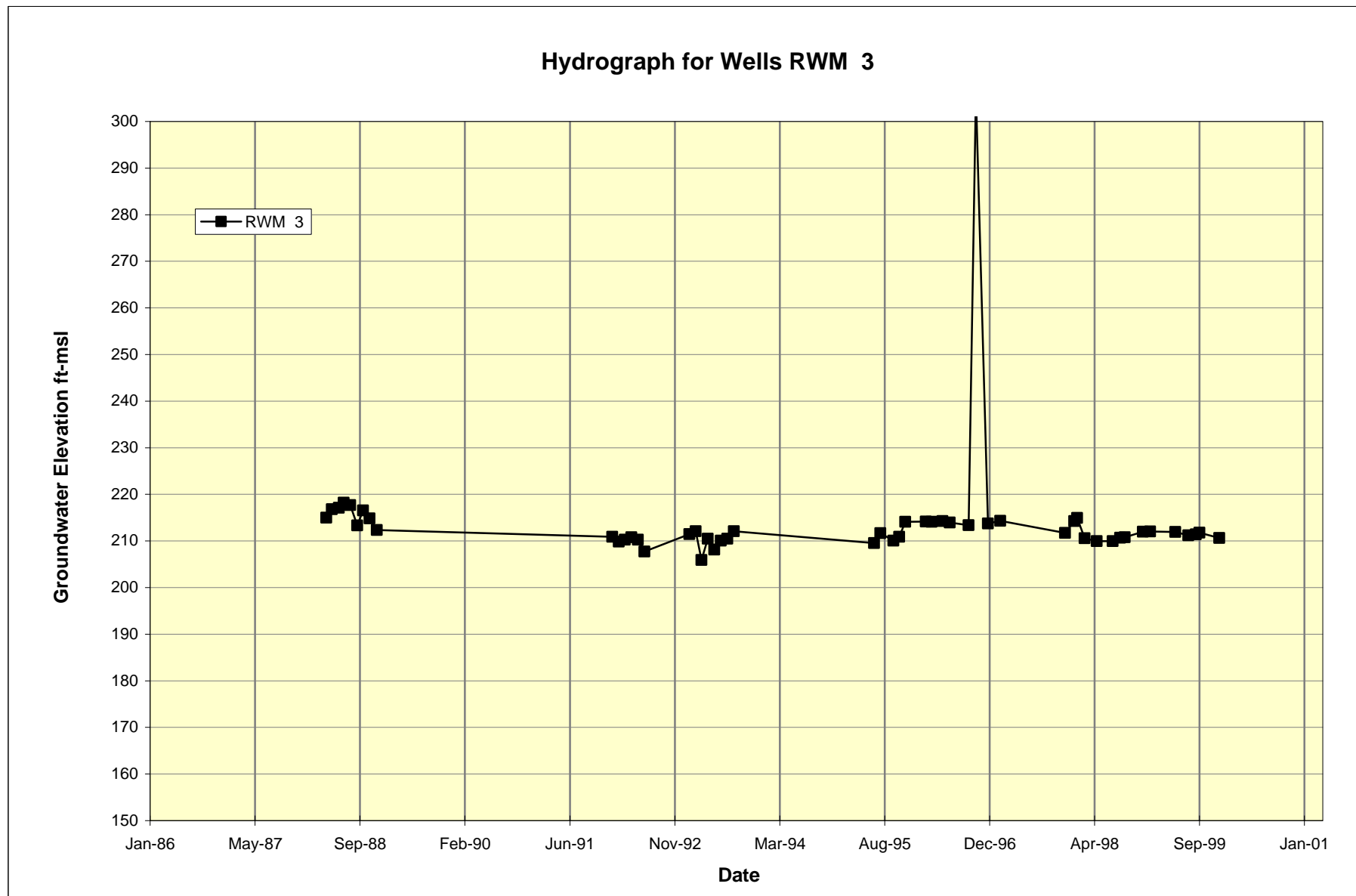


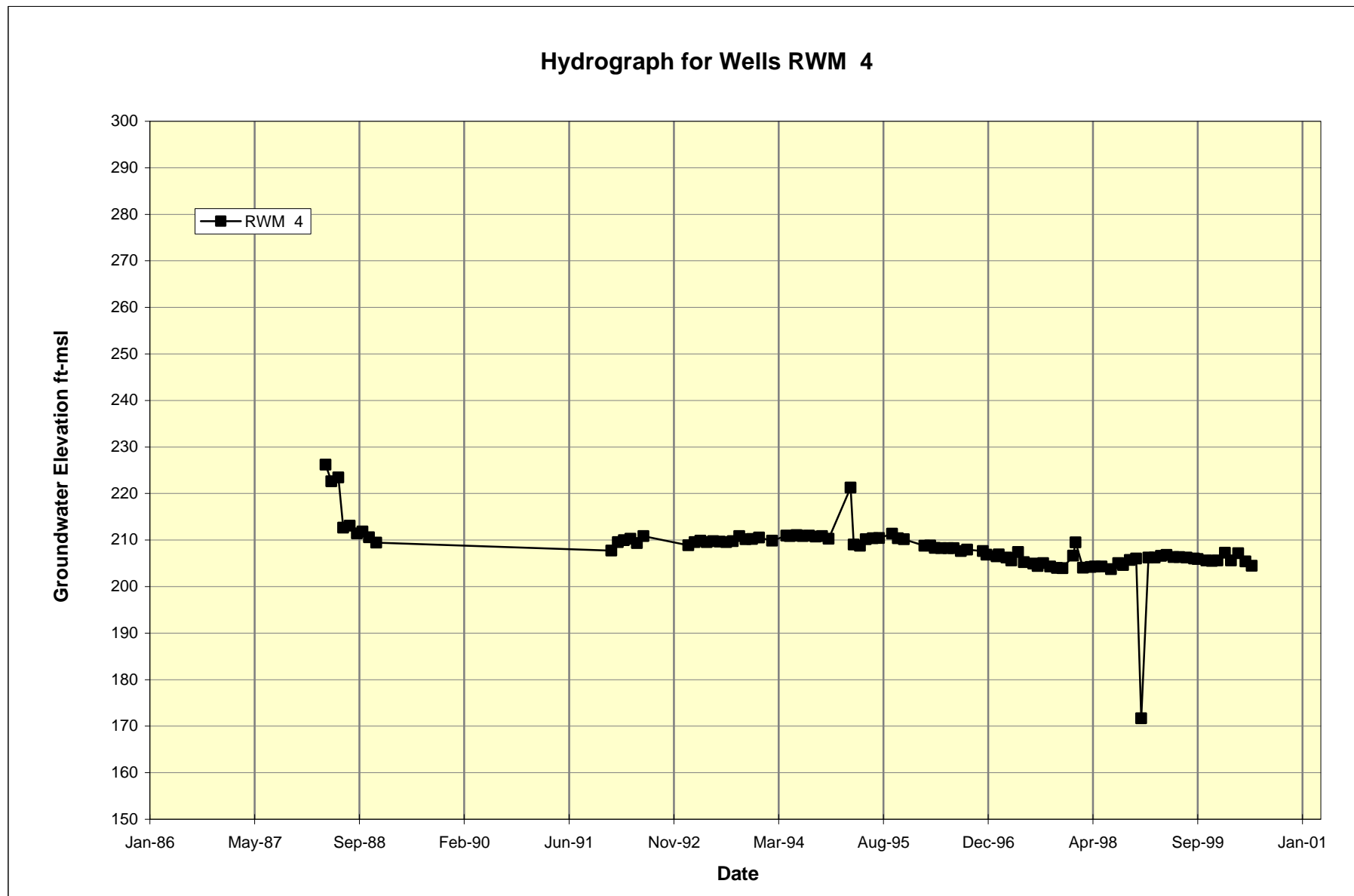


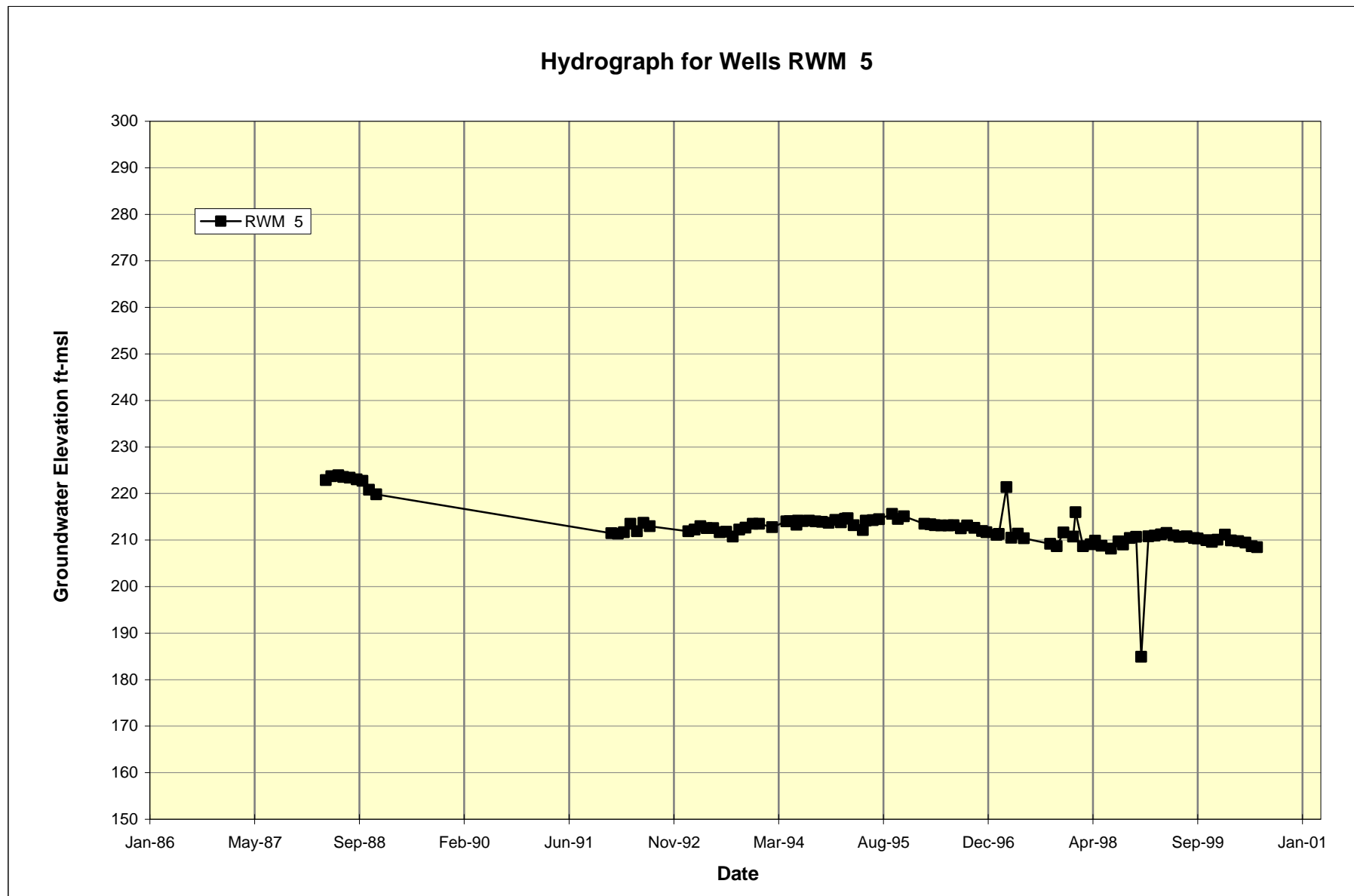


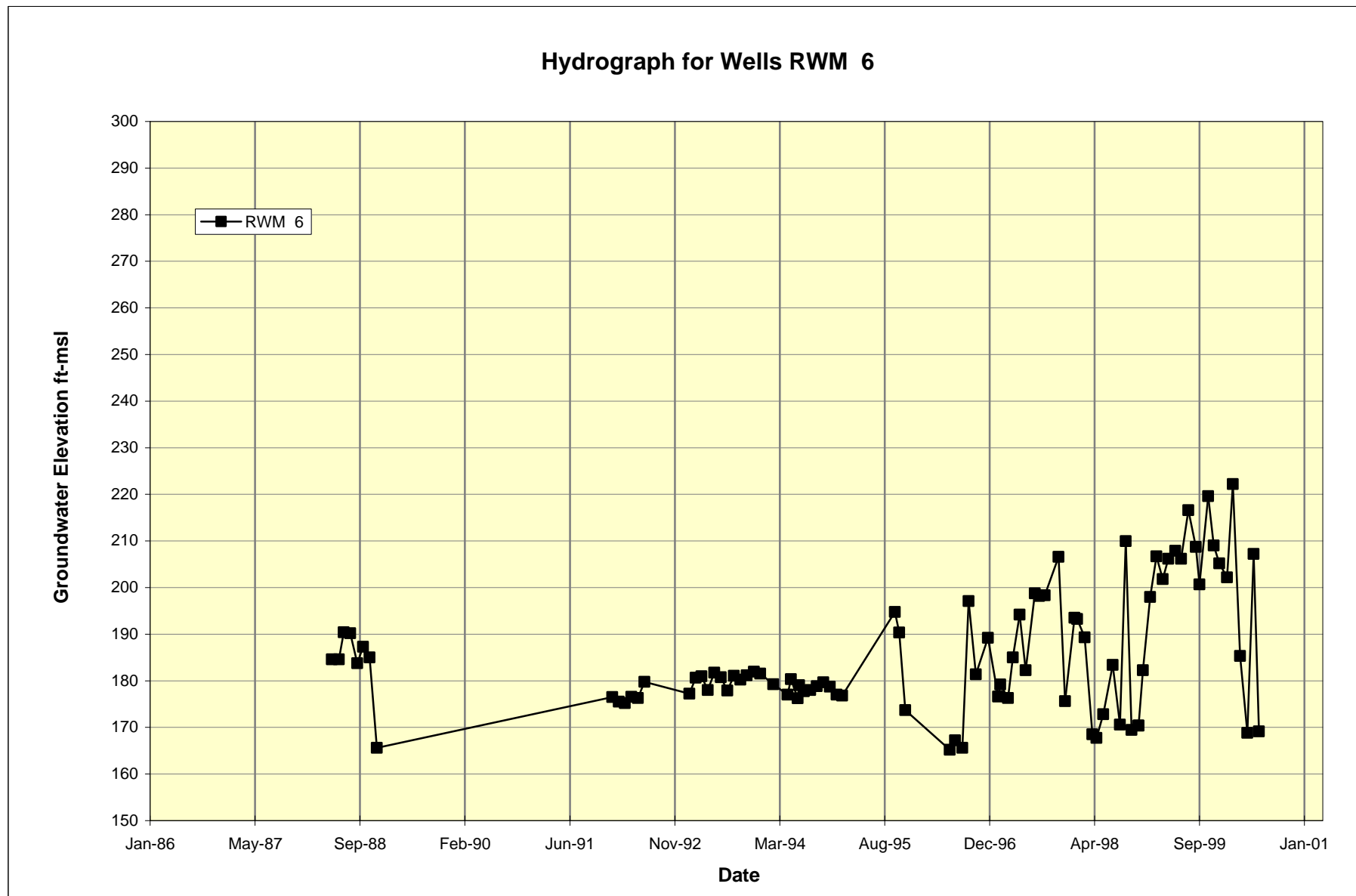


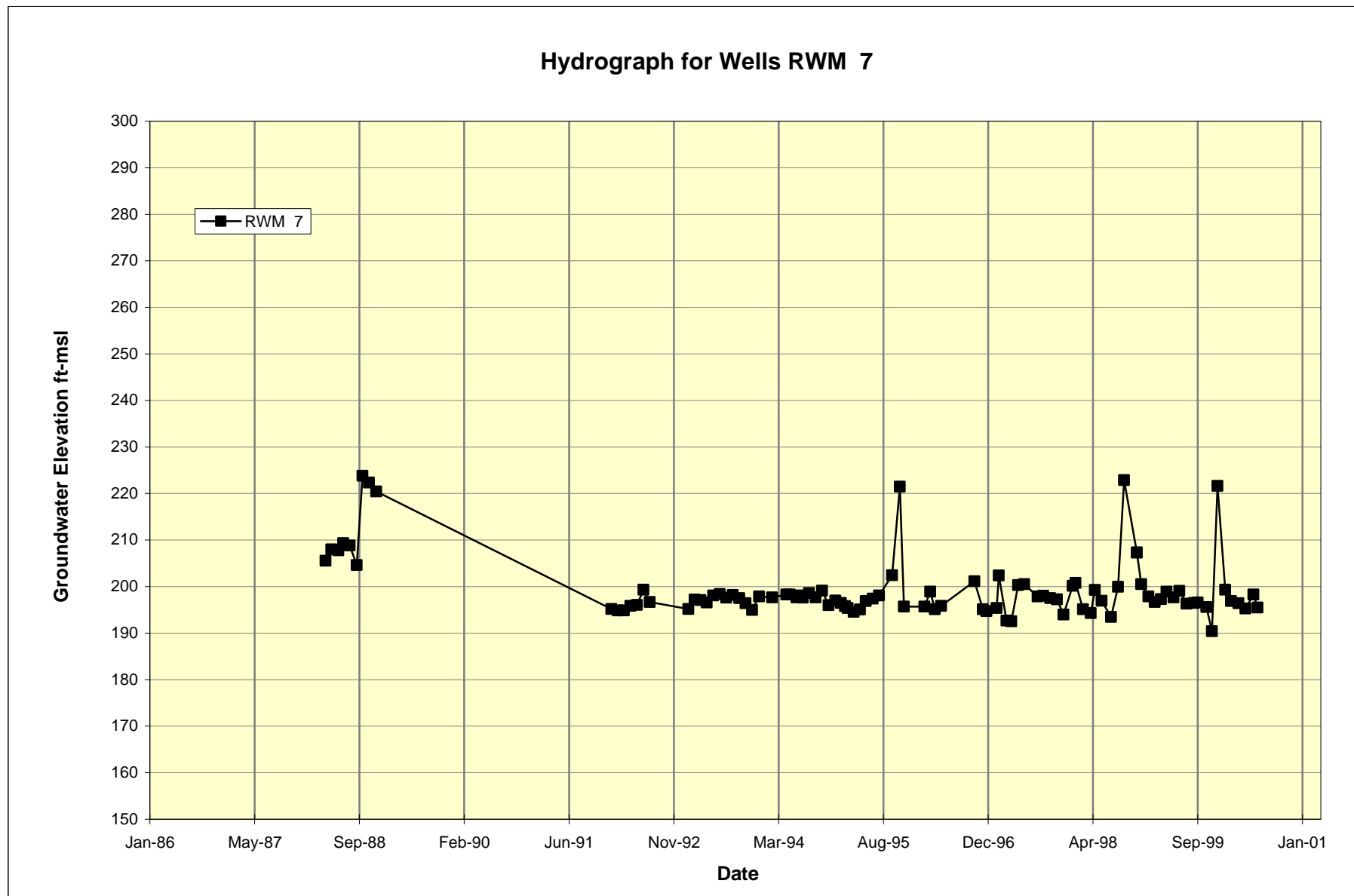


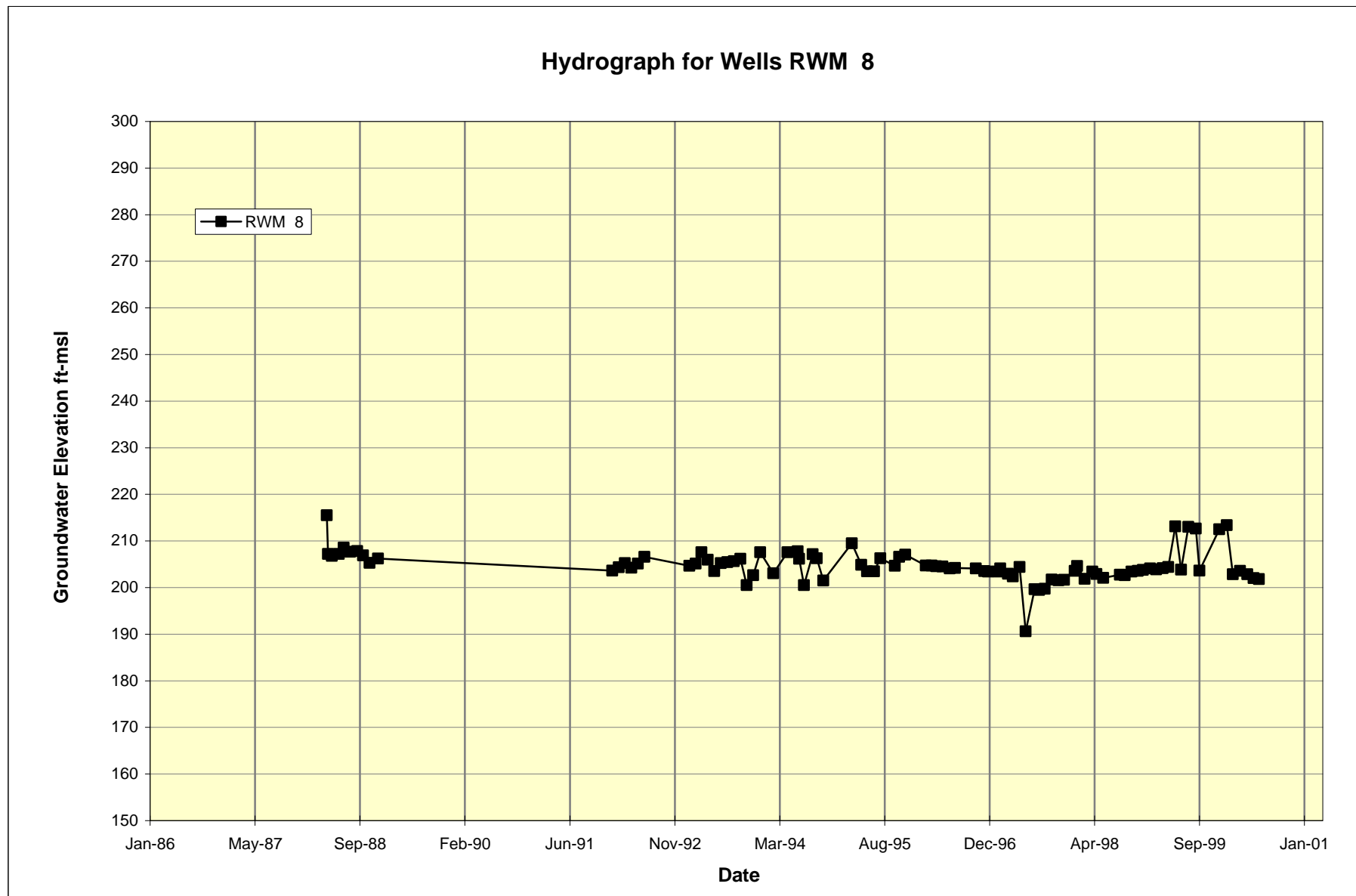


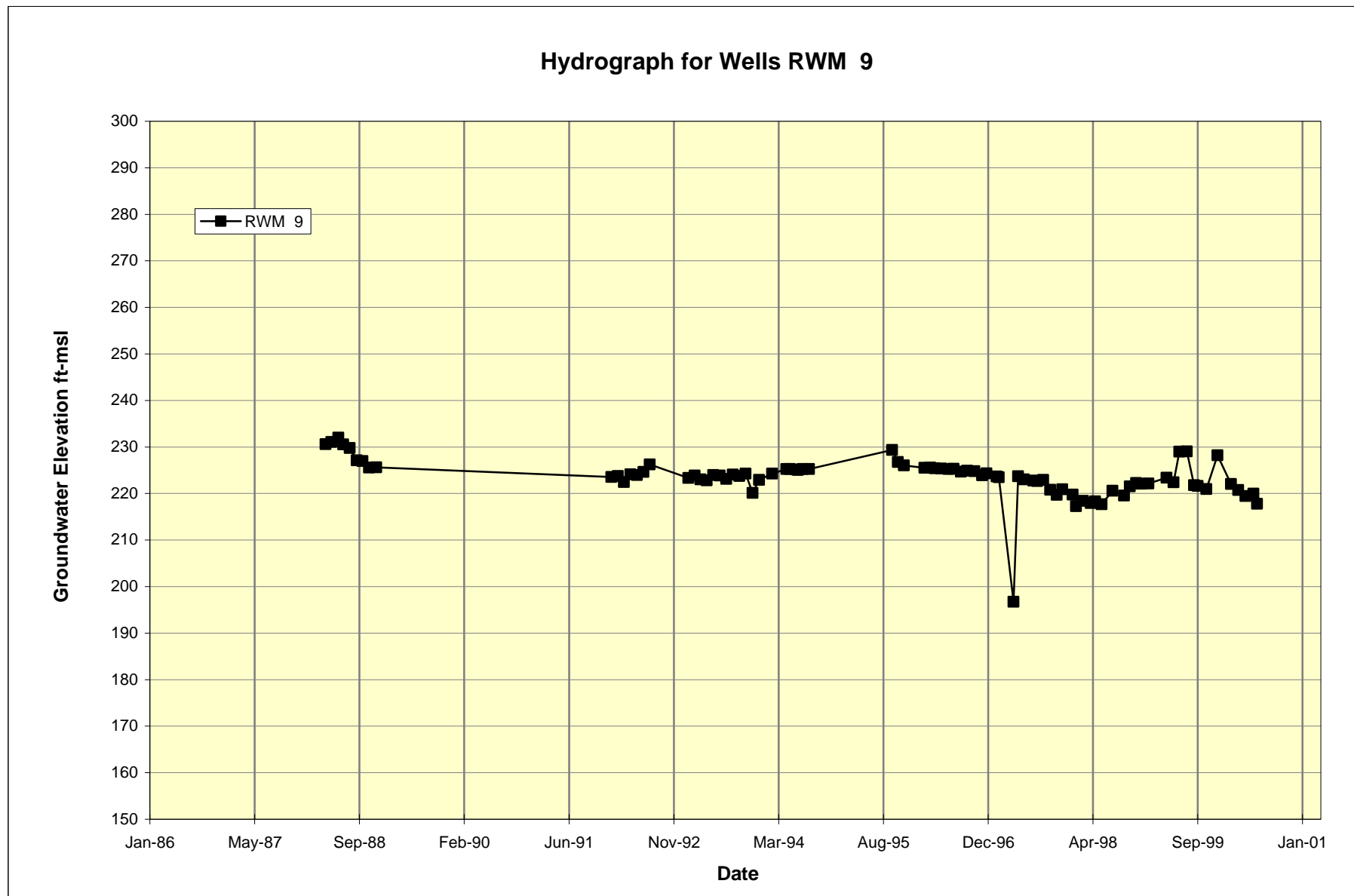


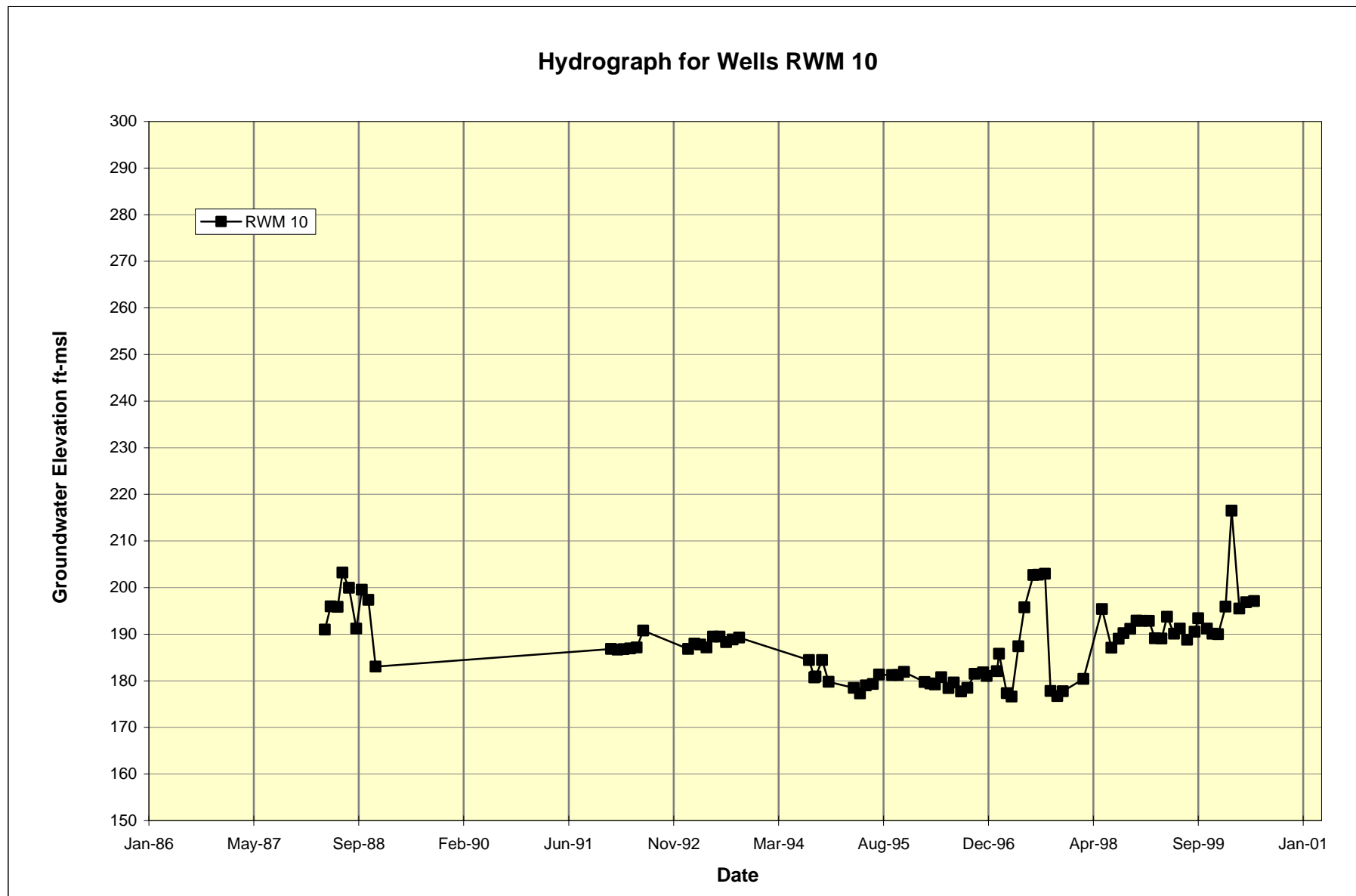


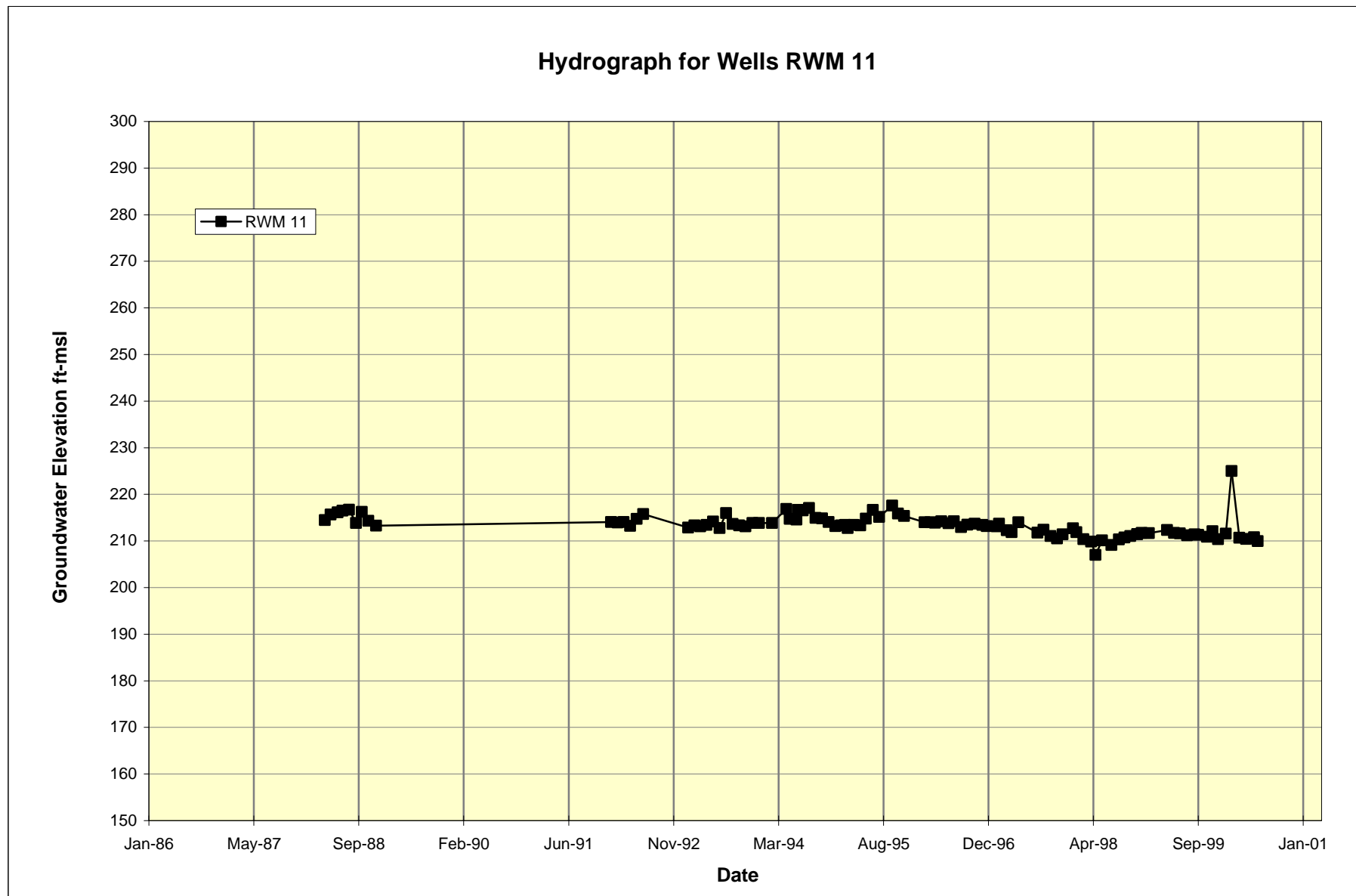


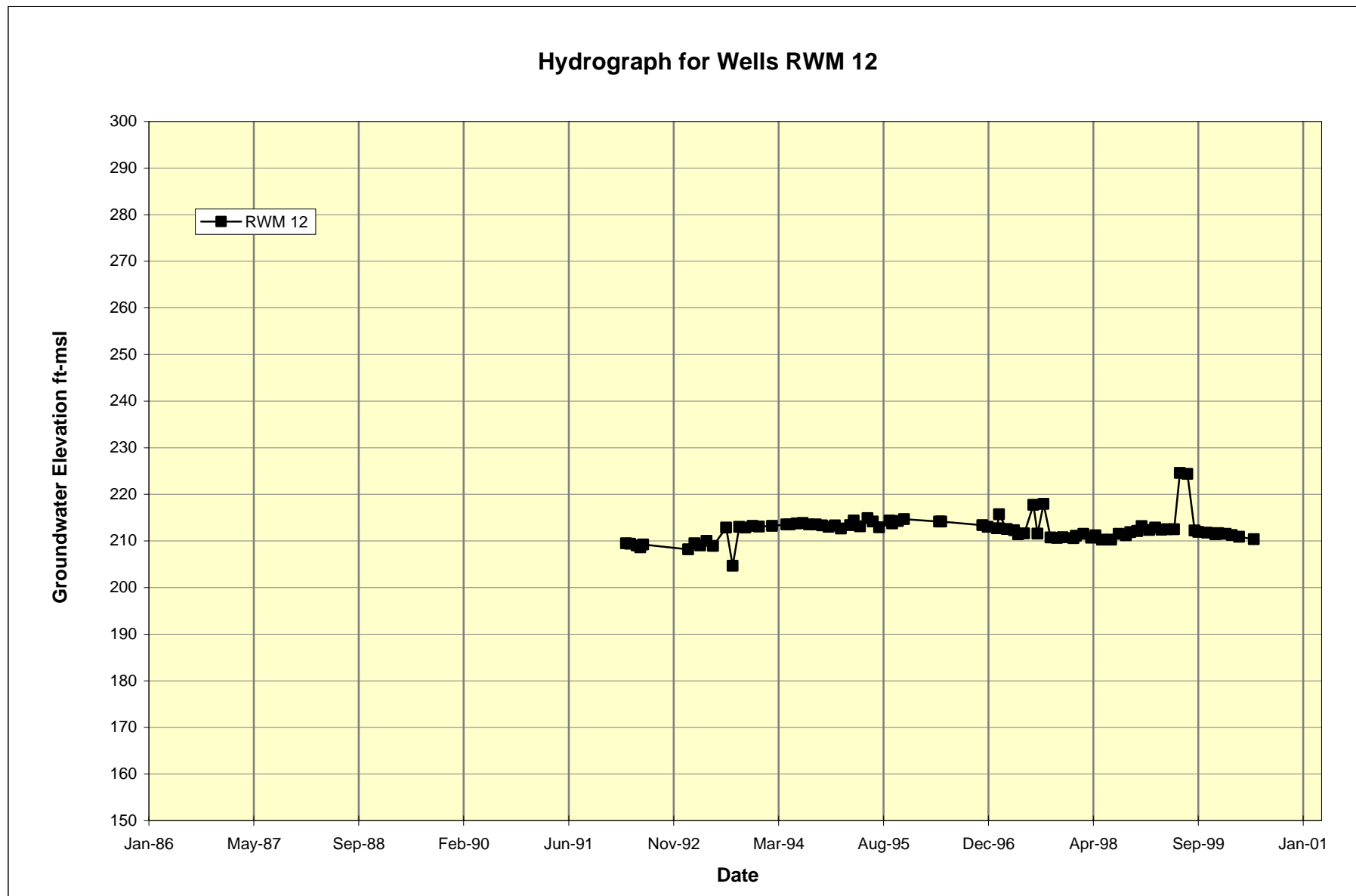


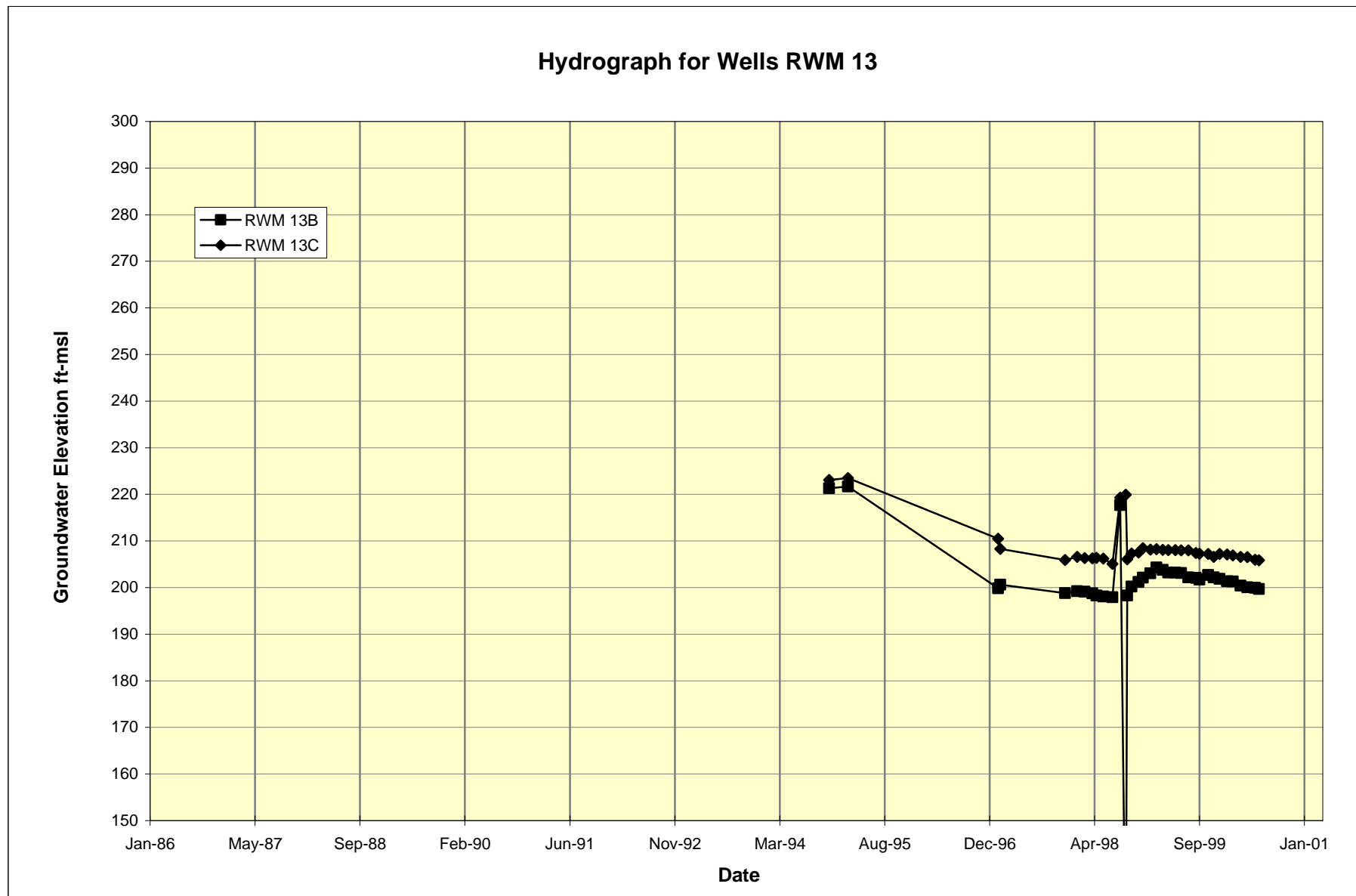


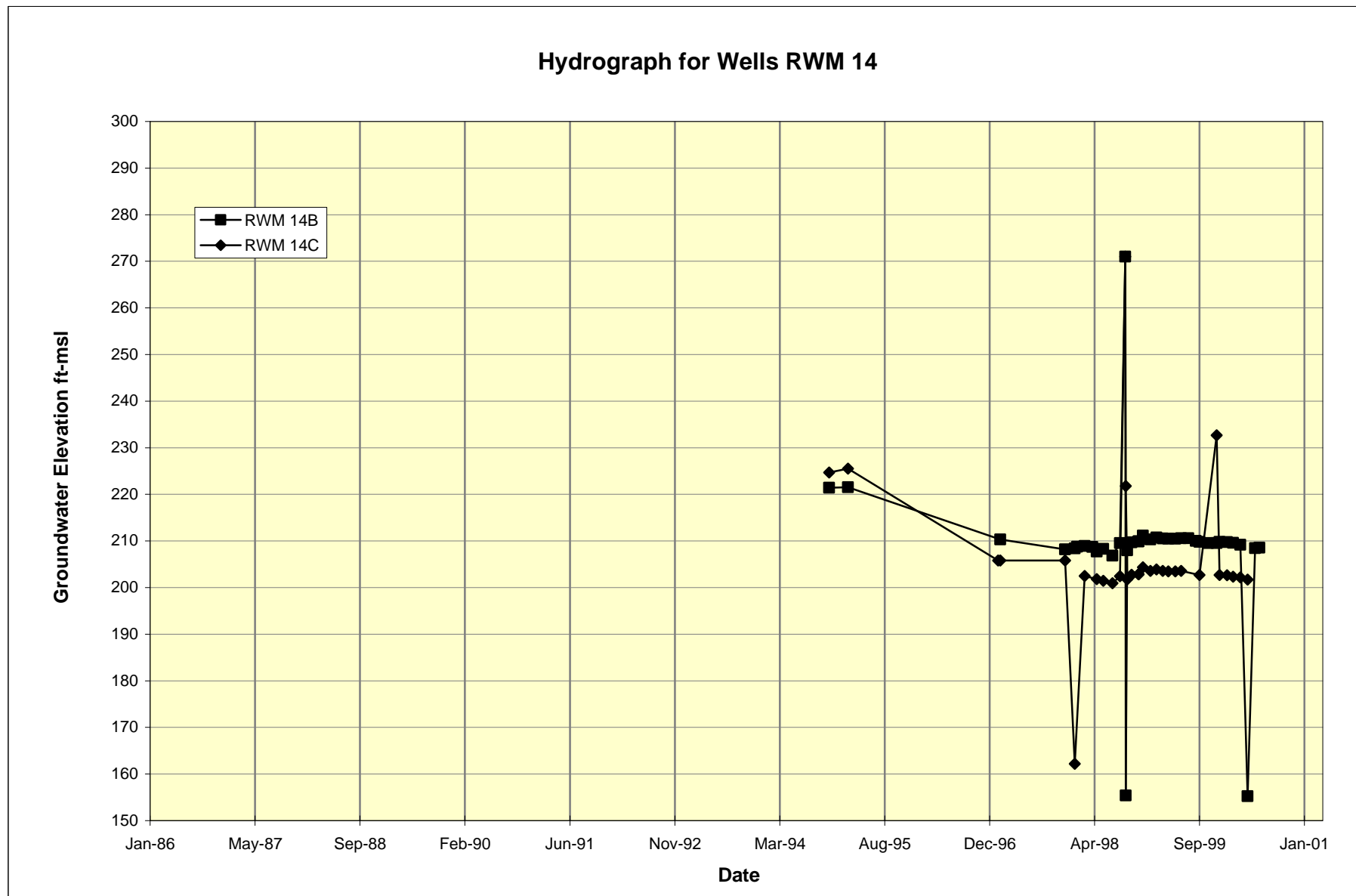


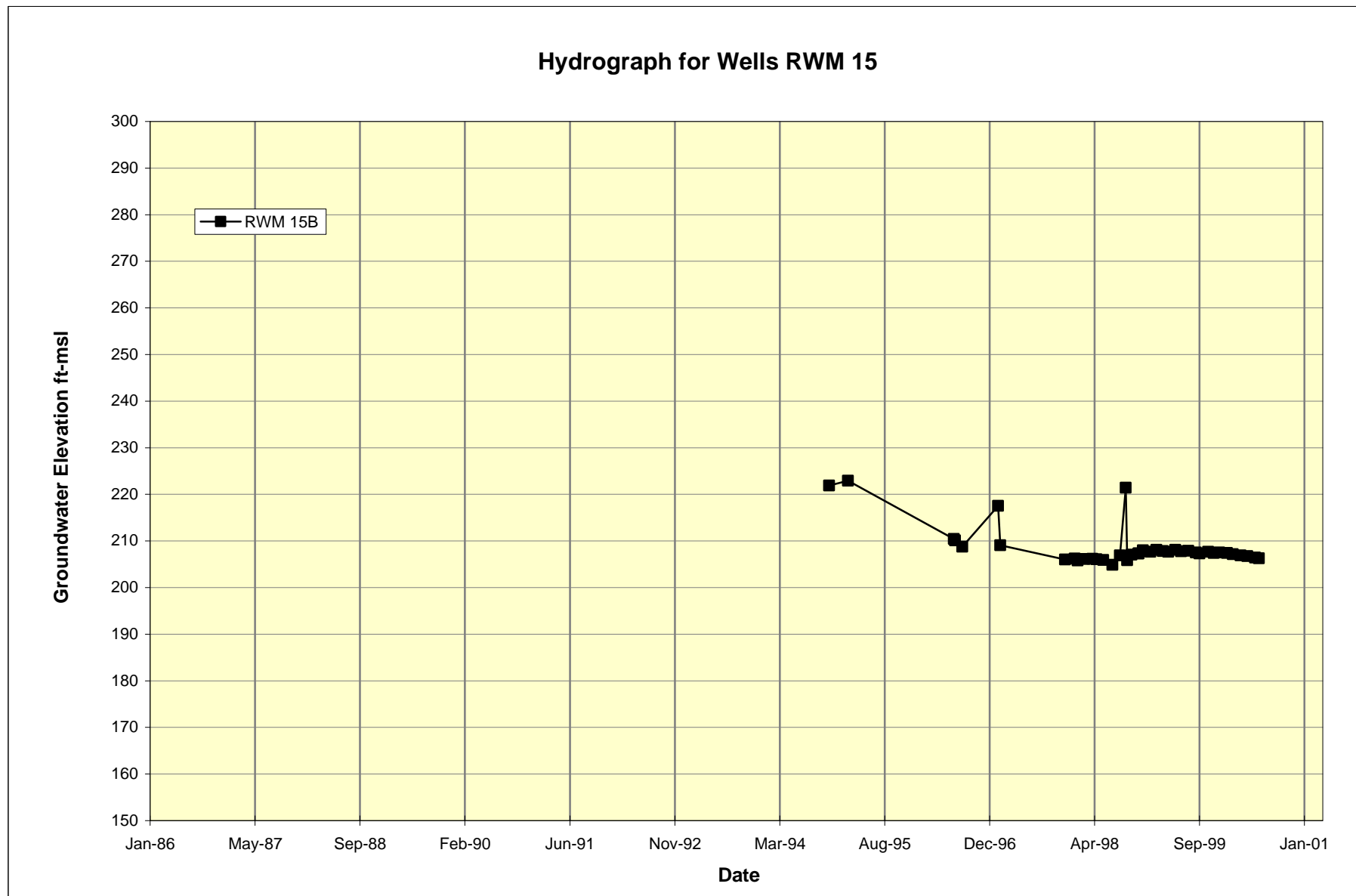


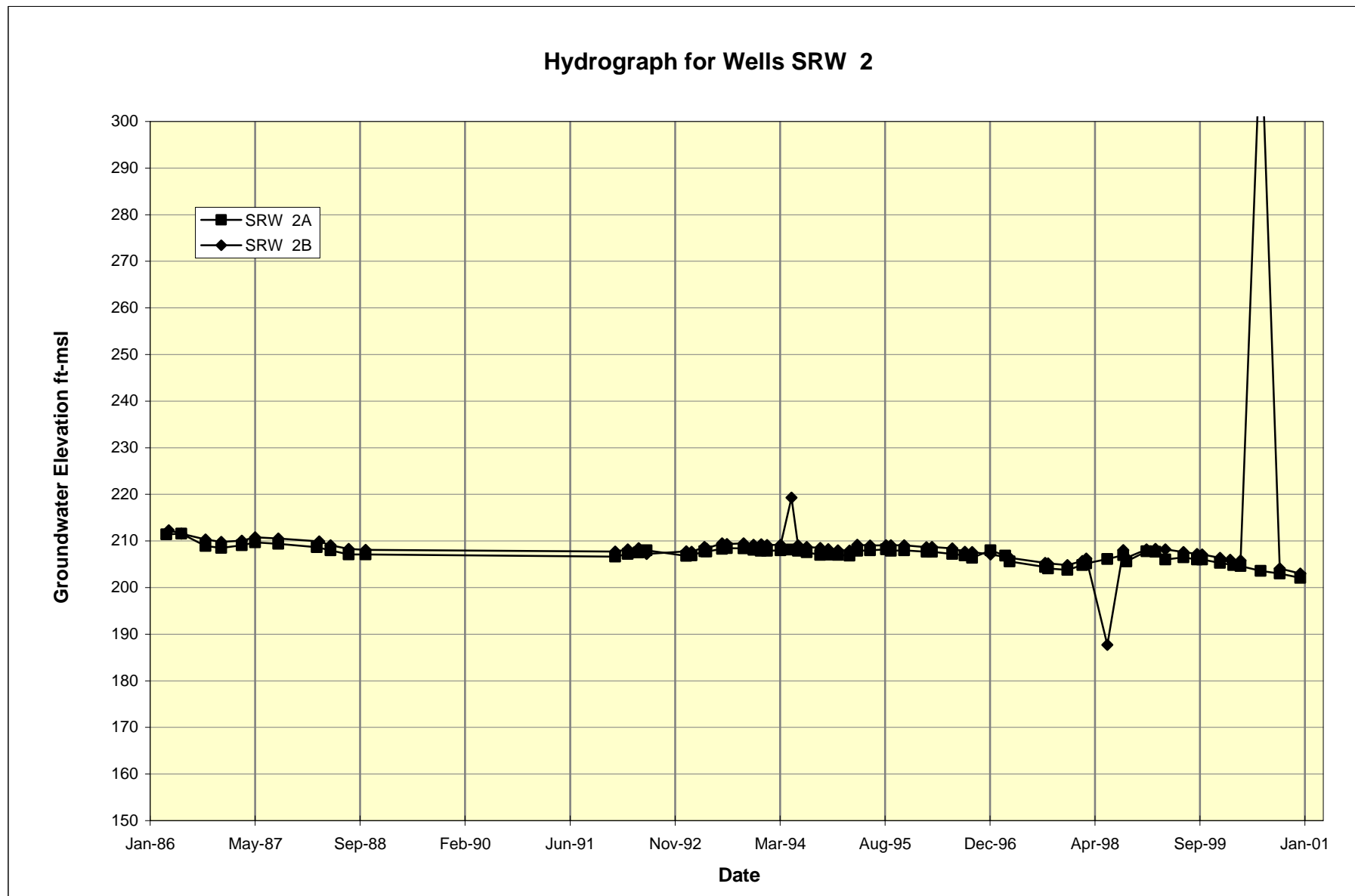


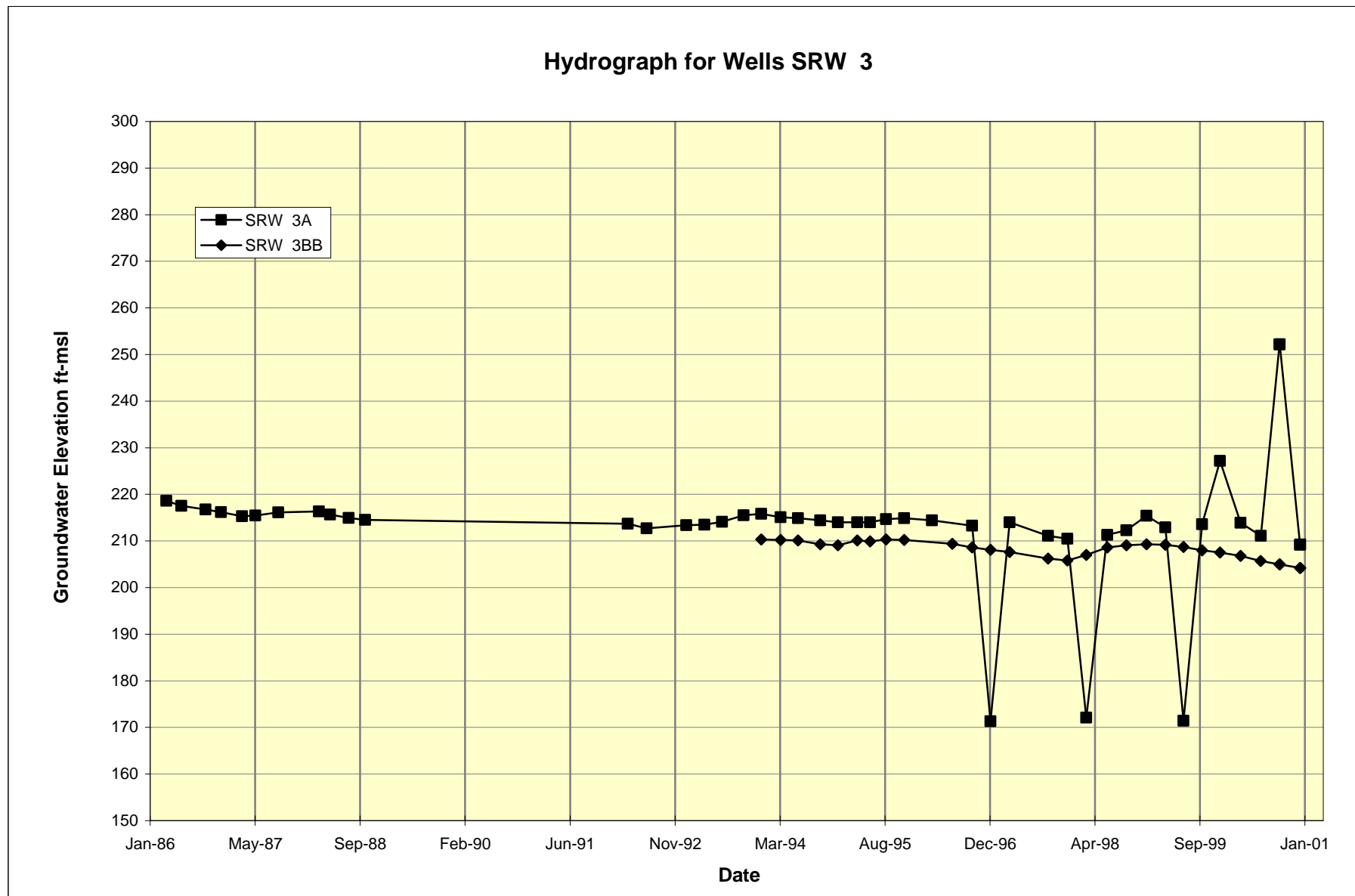


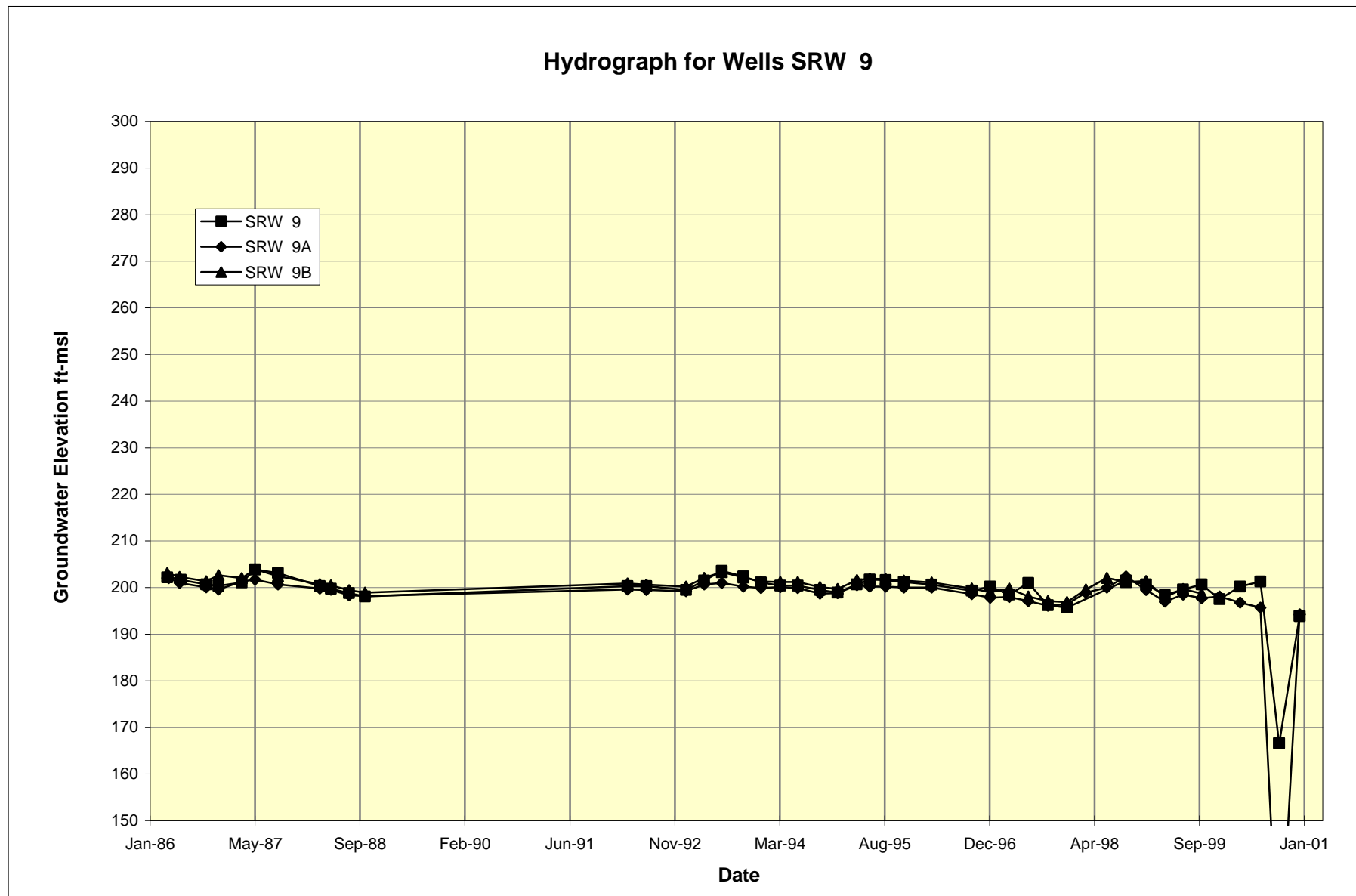


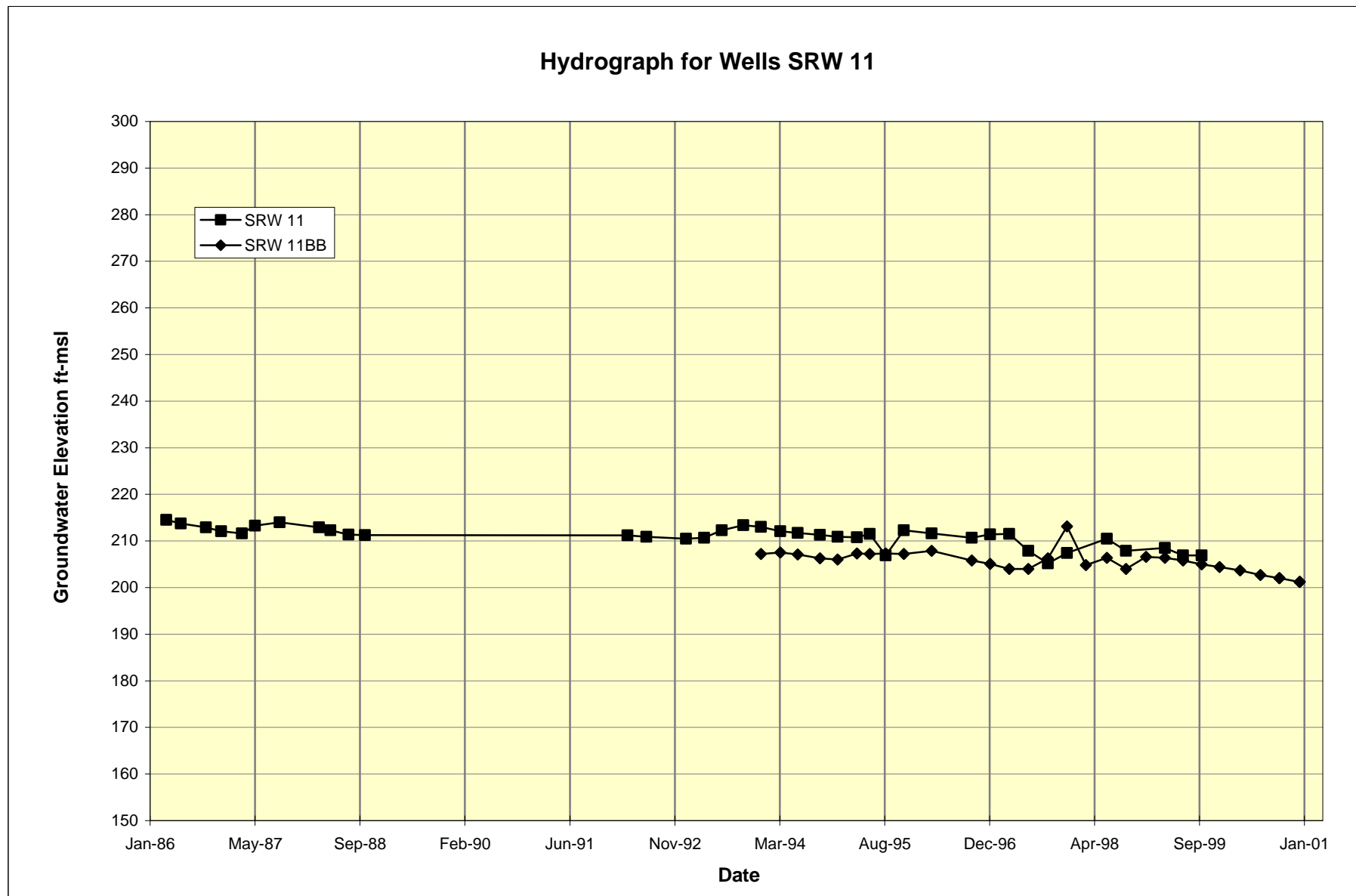


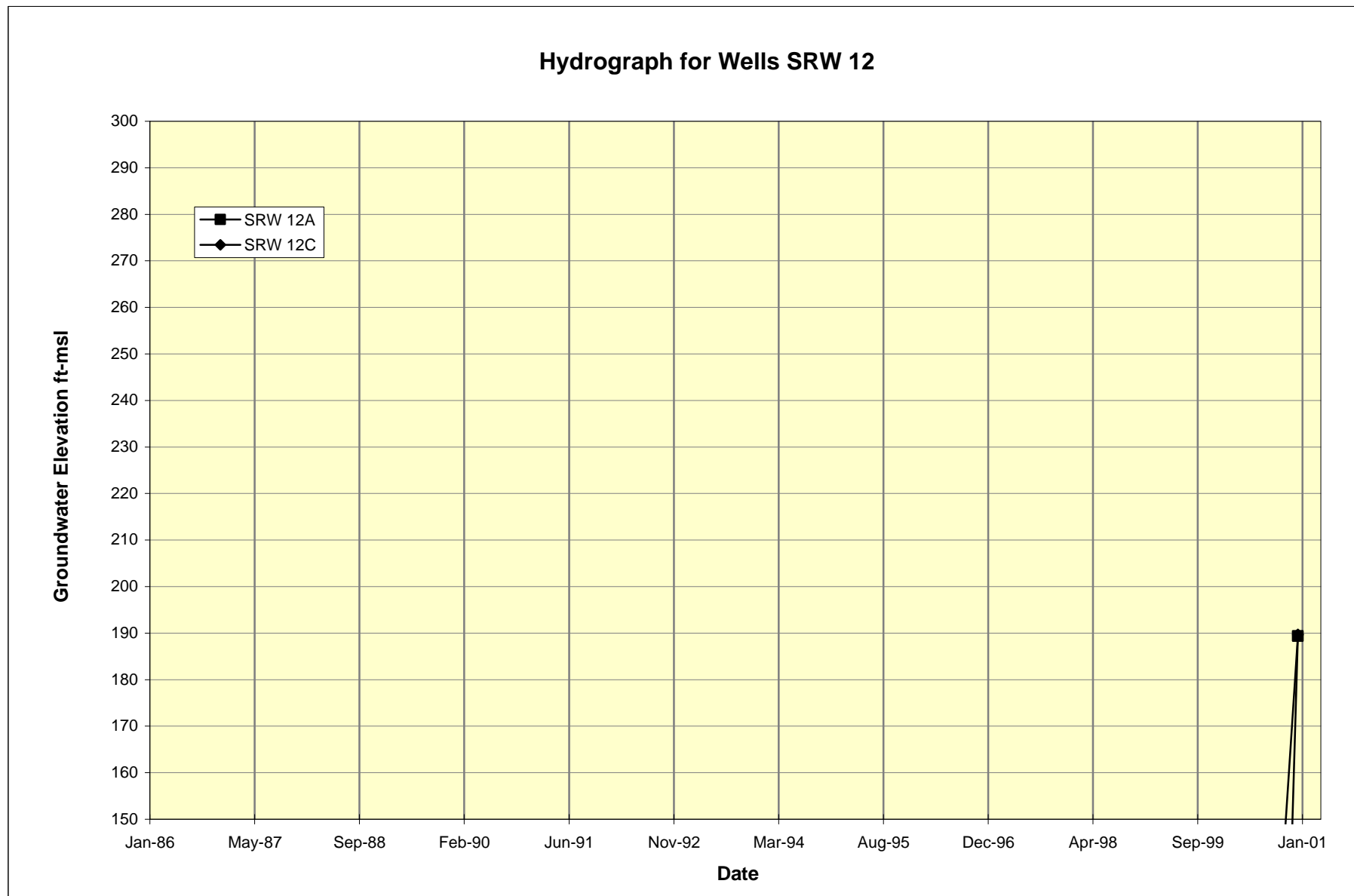


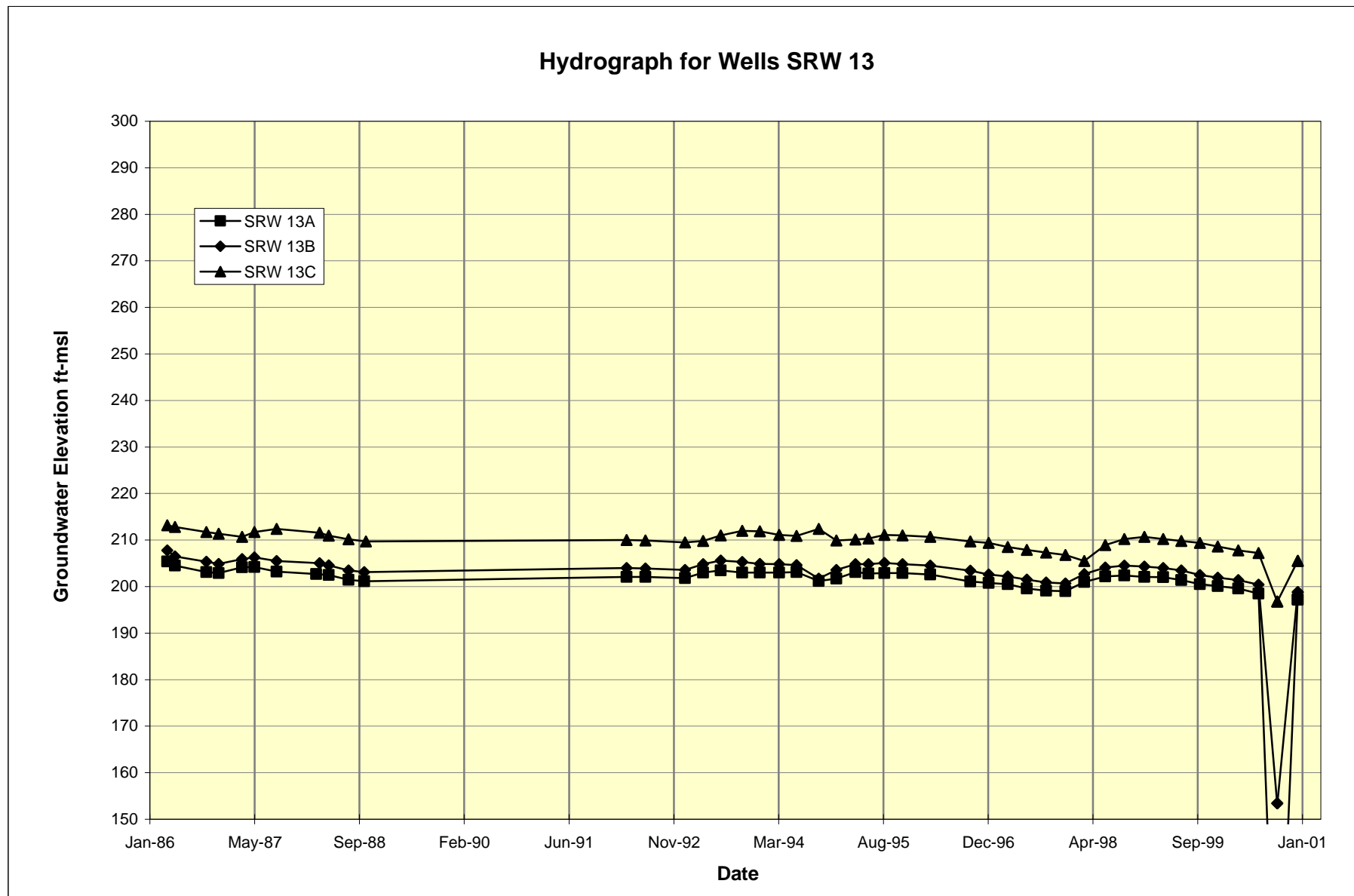


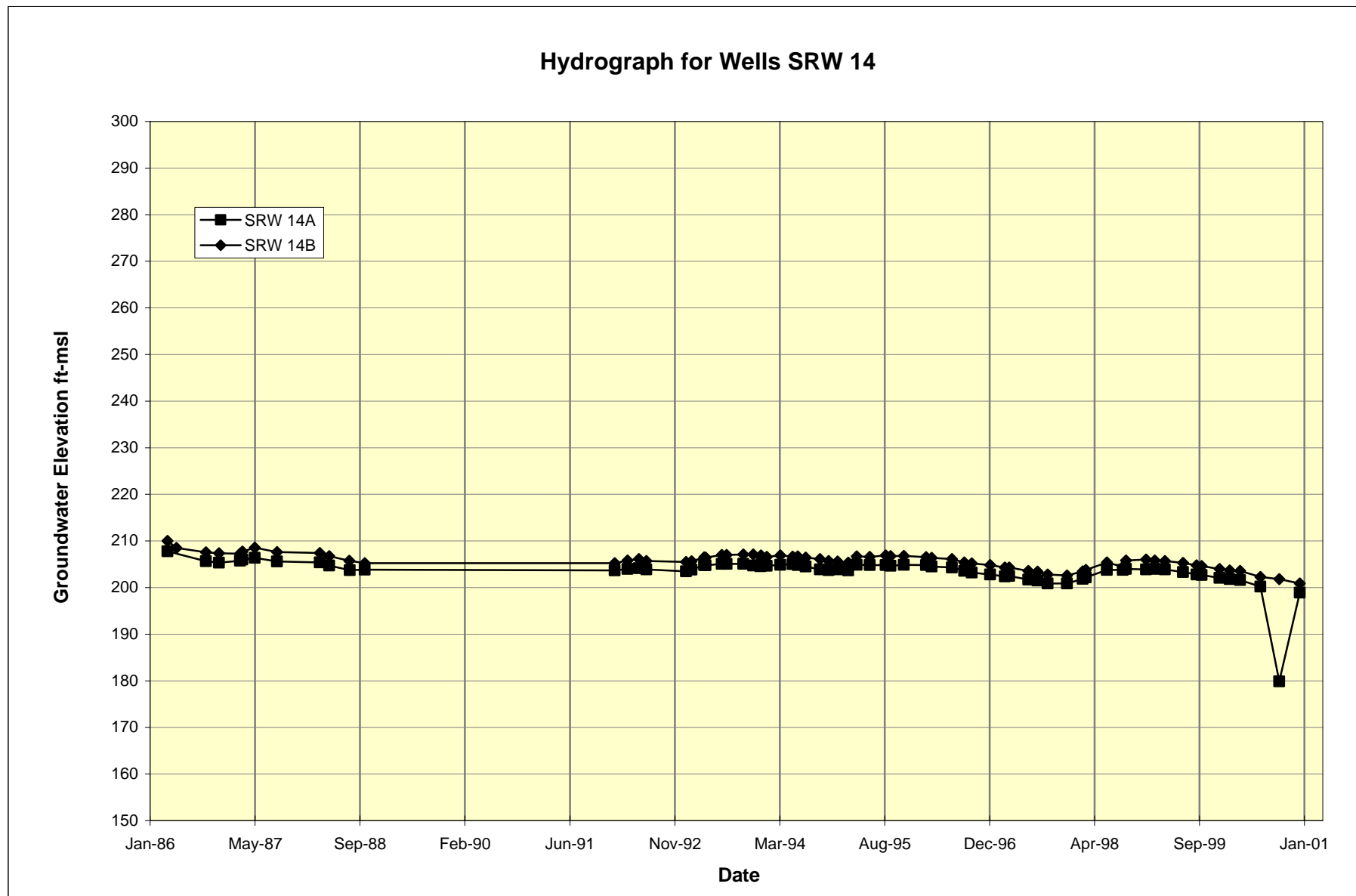


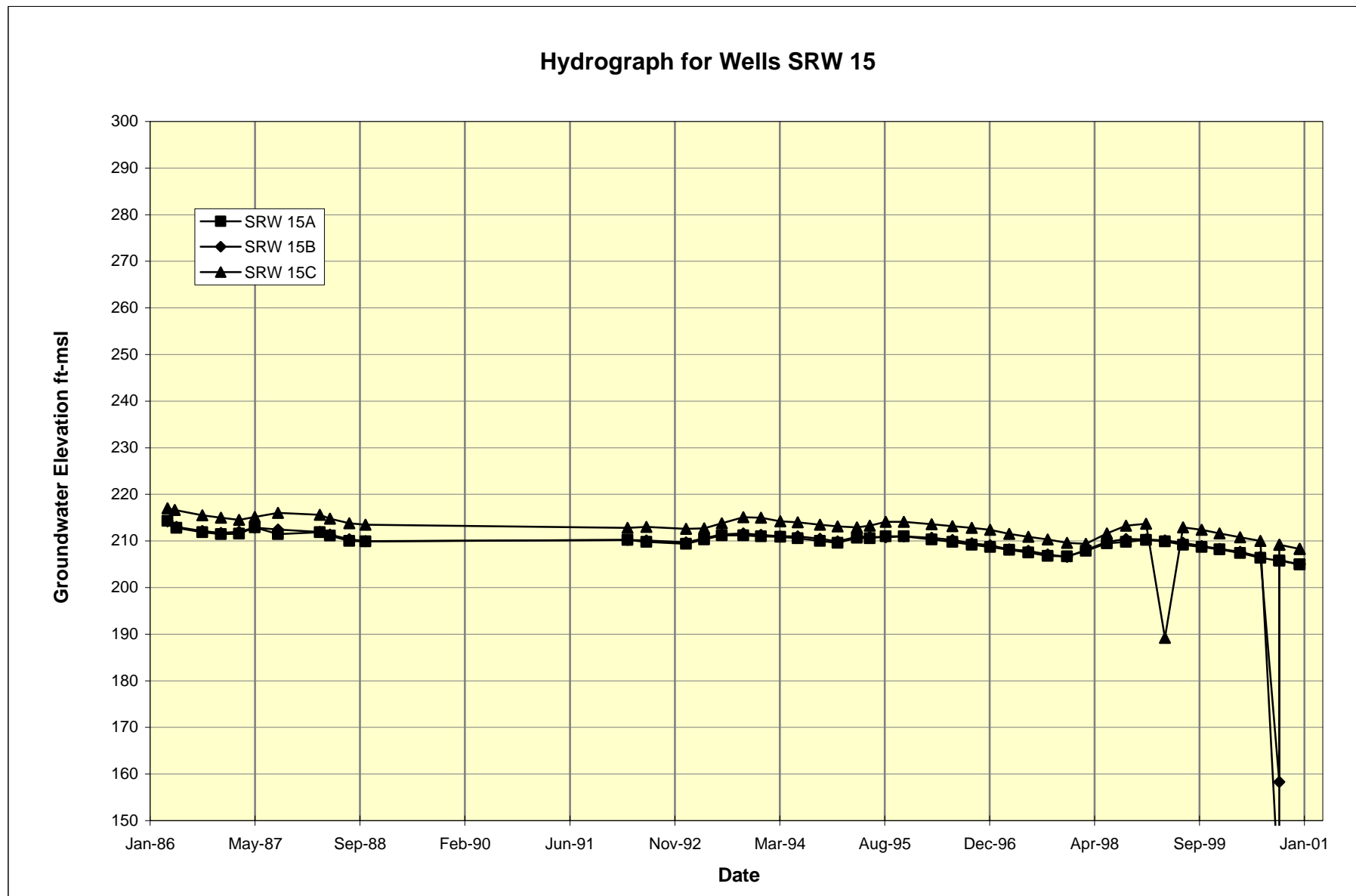


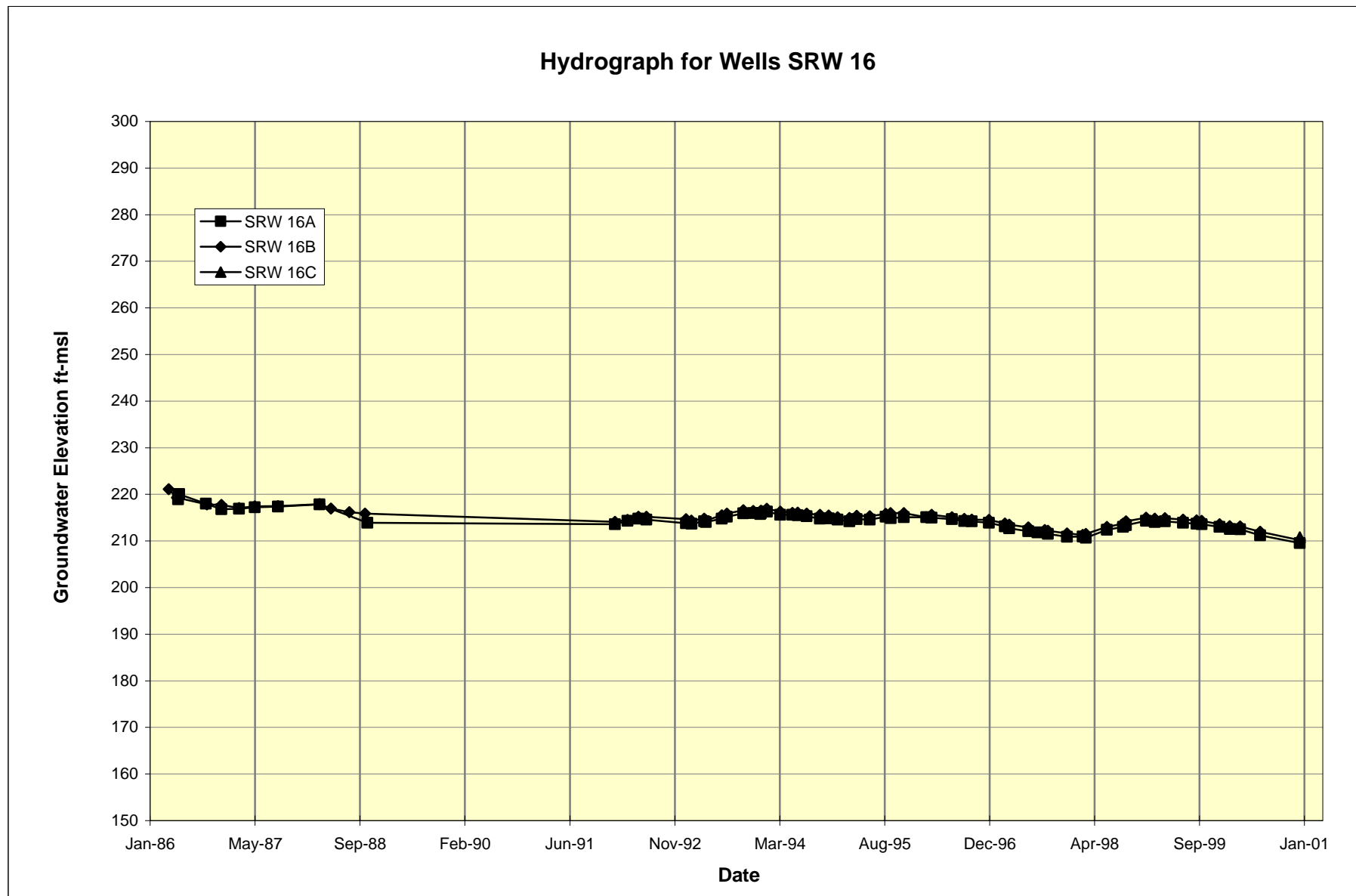












**3Q/4Q00 ANNUAL M-AREA AND
METALLURGICAL LABORATORY
HAZARDOUS WASTE MANAGEMENT
FACILITIES
GROUNDWATER MONITORING AND
CORRECTIVE-ACTION REPORT (U)**

THIRD AND FOURTH QUARTERS 2000

VOLUME III

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Westinghouse Savannah River Company
Savannah River Site
Aiken, SC 29808

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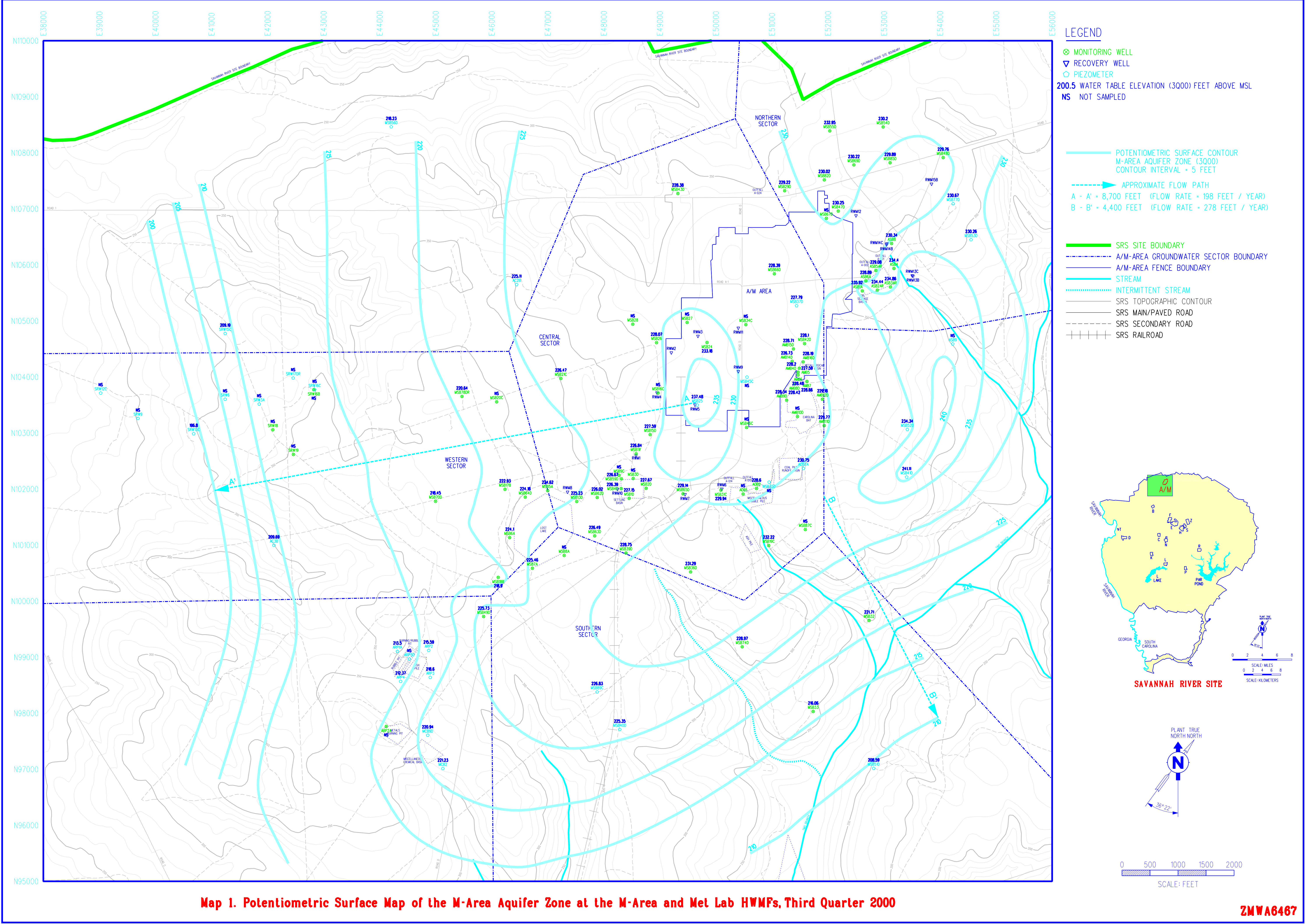
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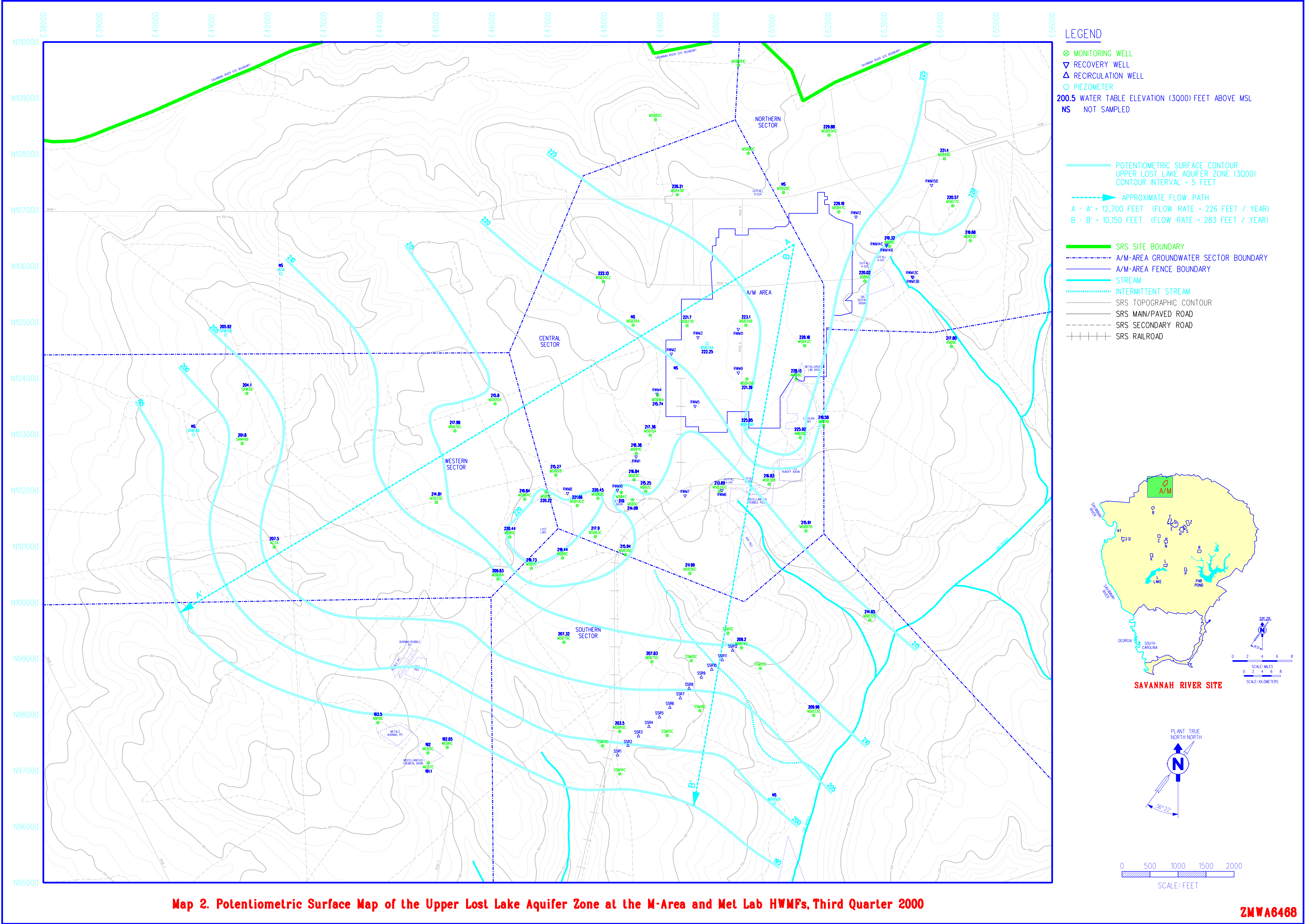
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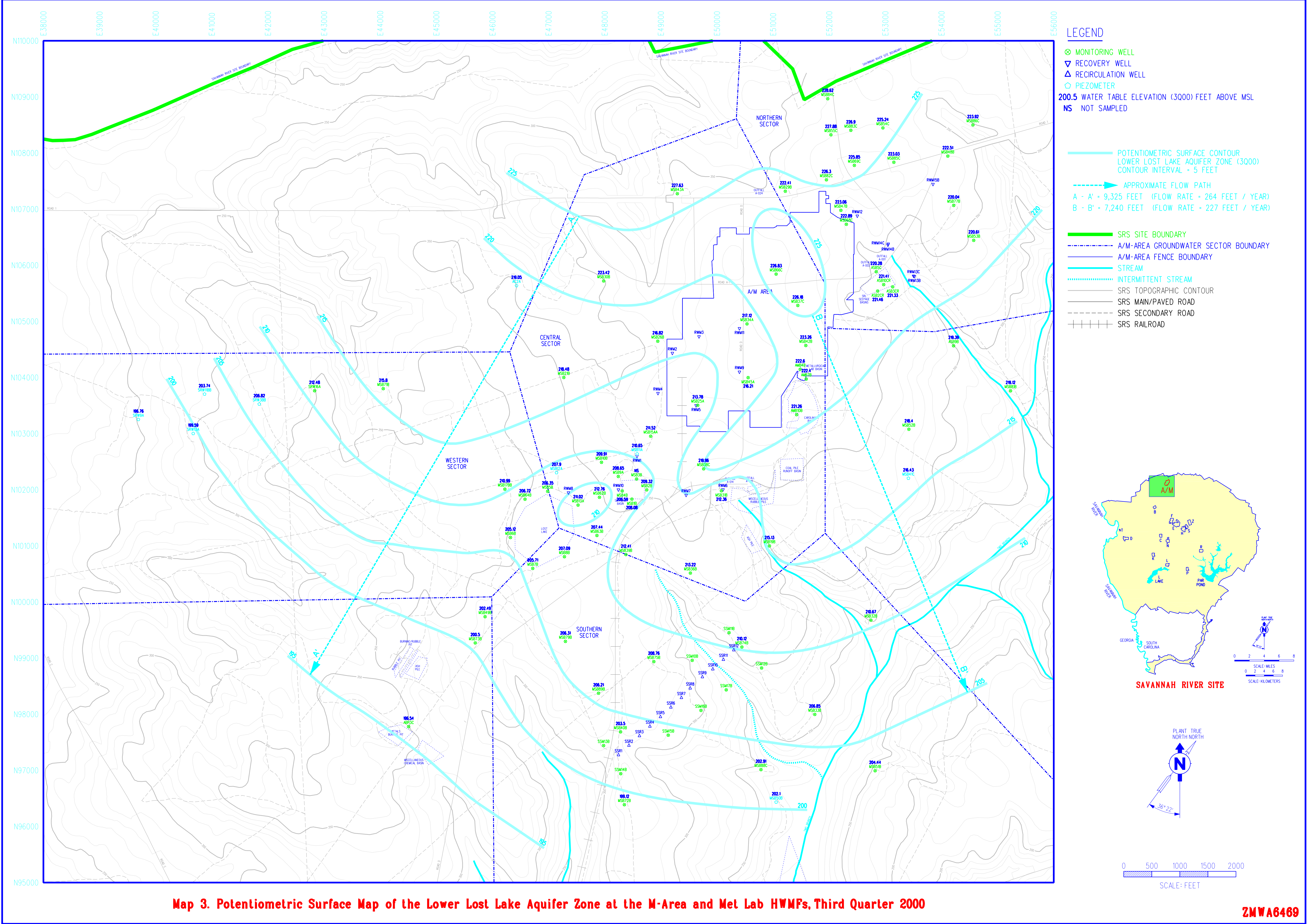
Appendix H

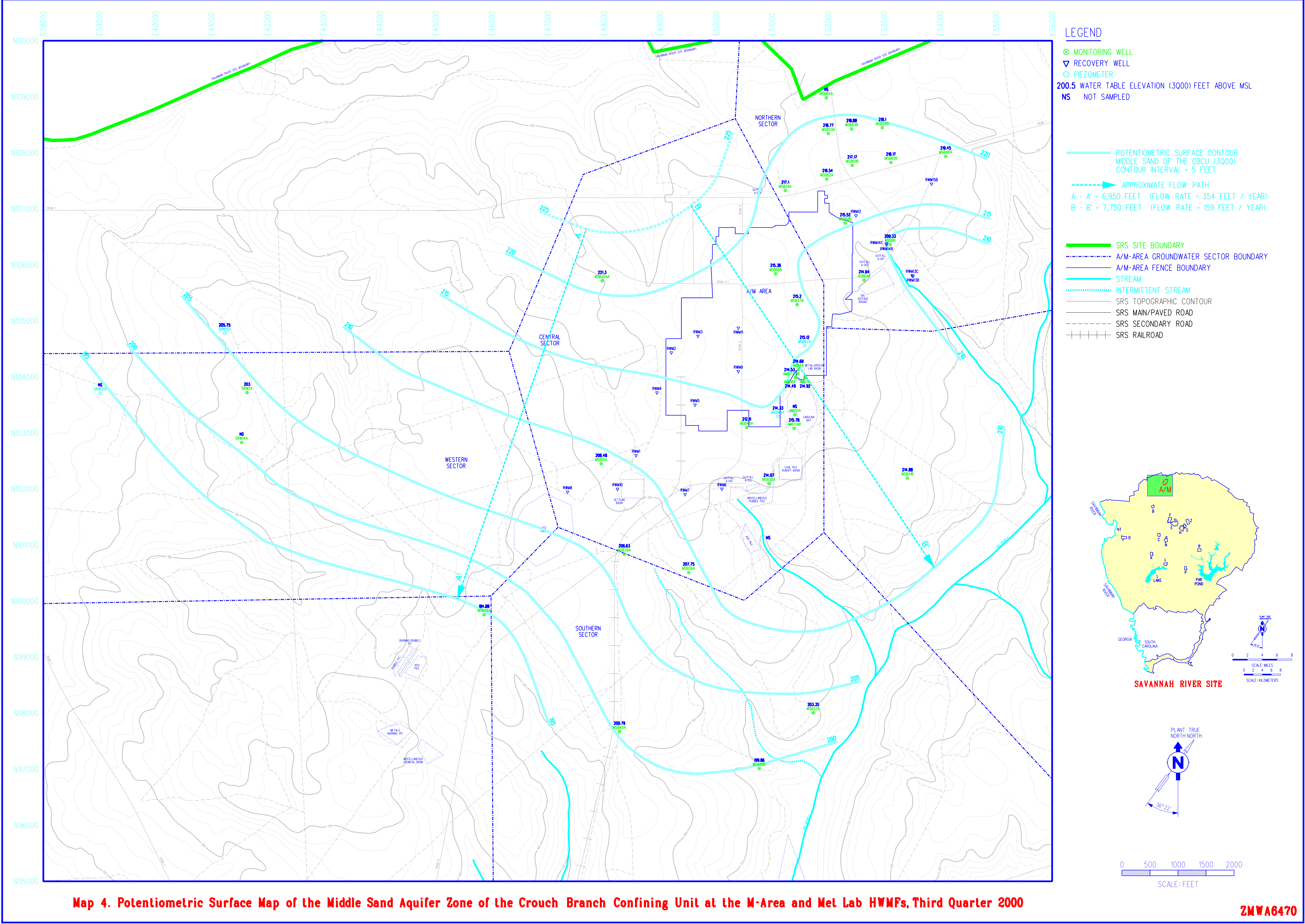
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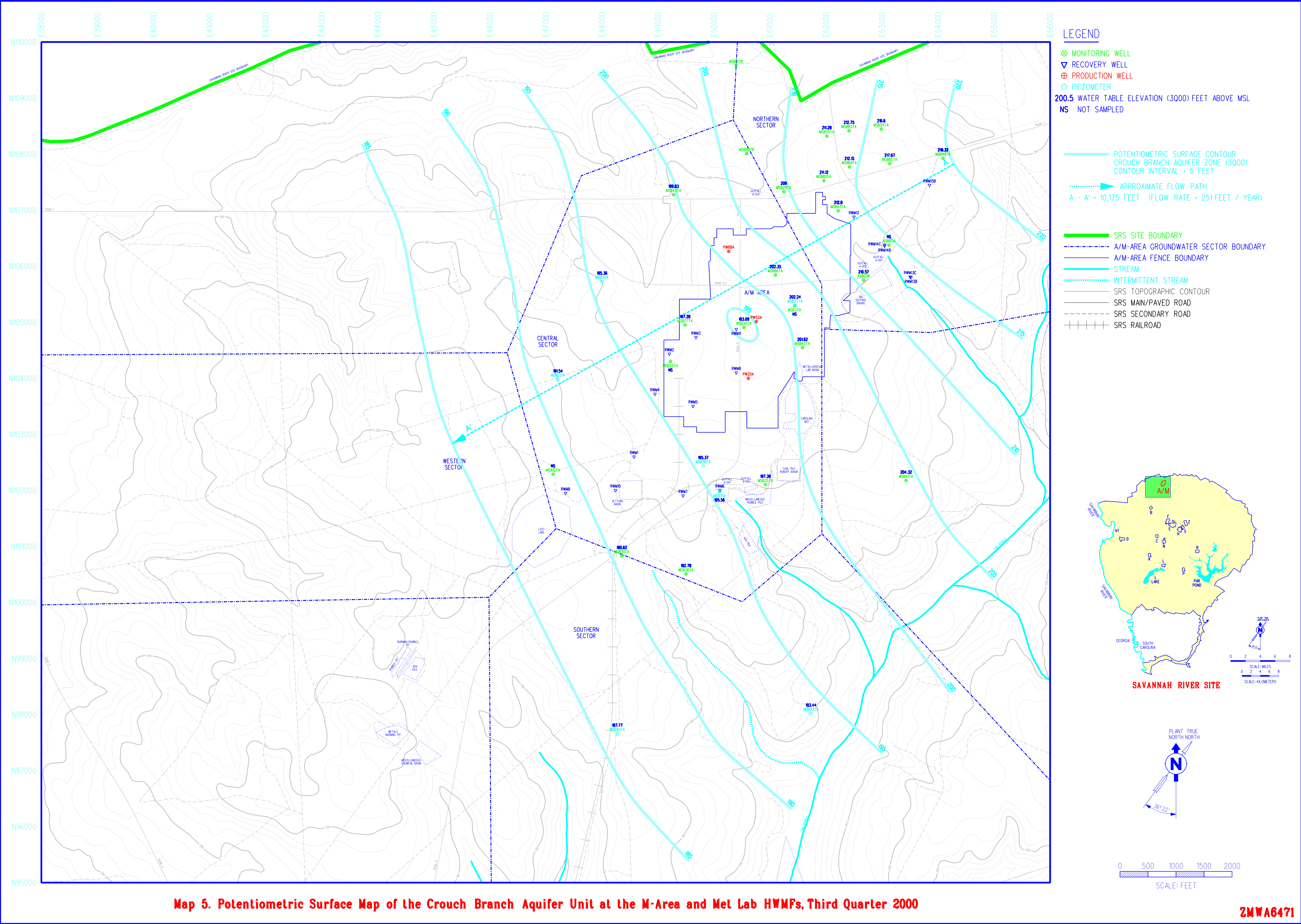
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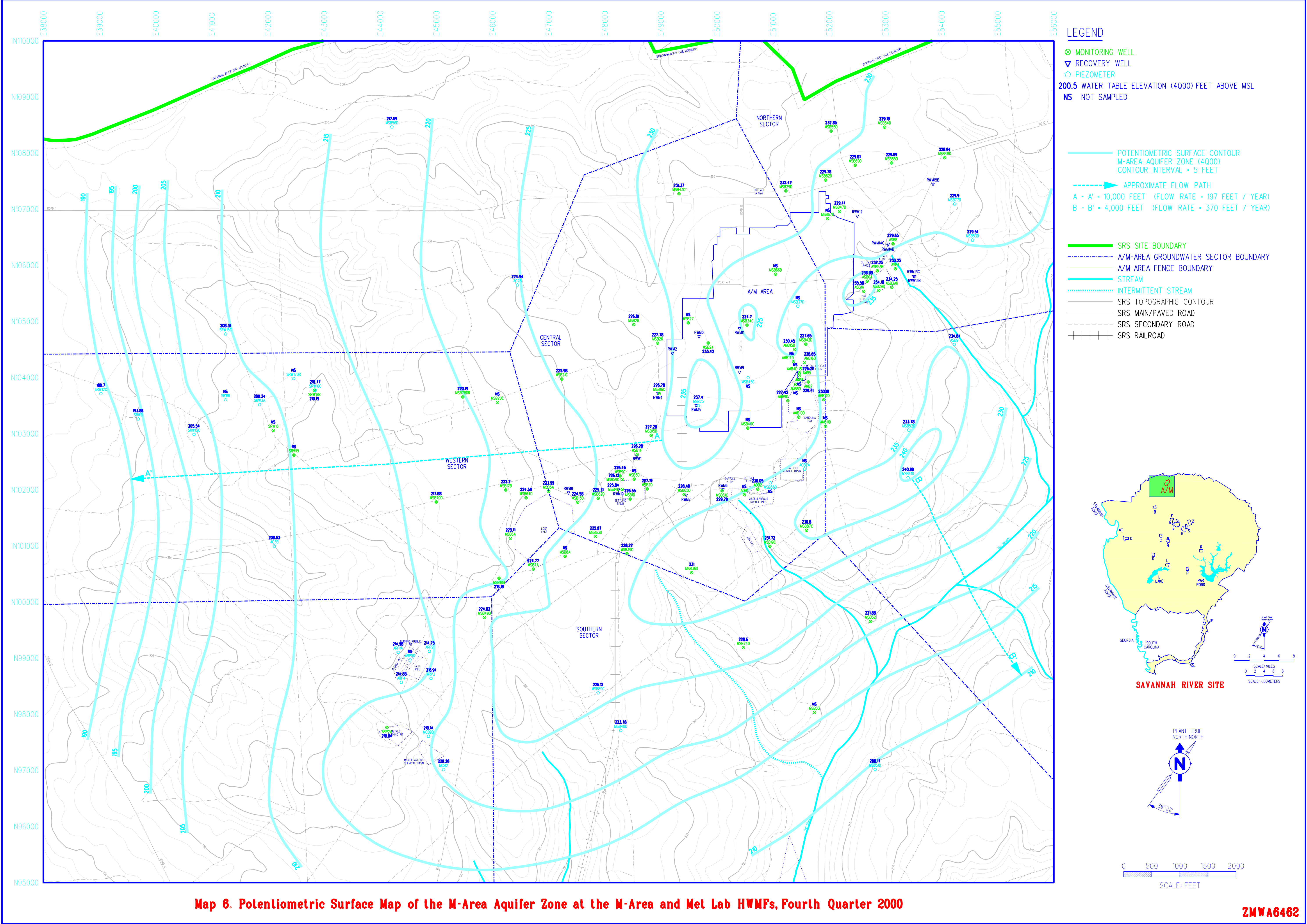


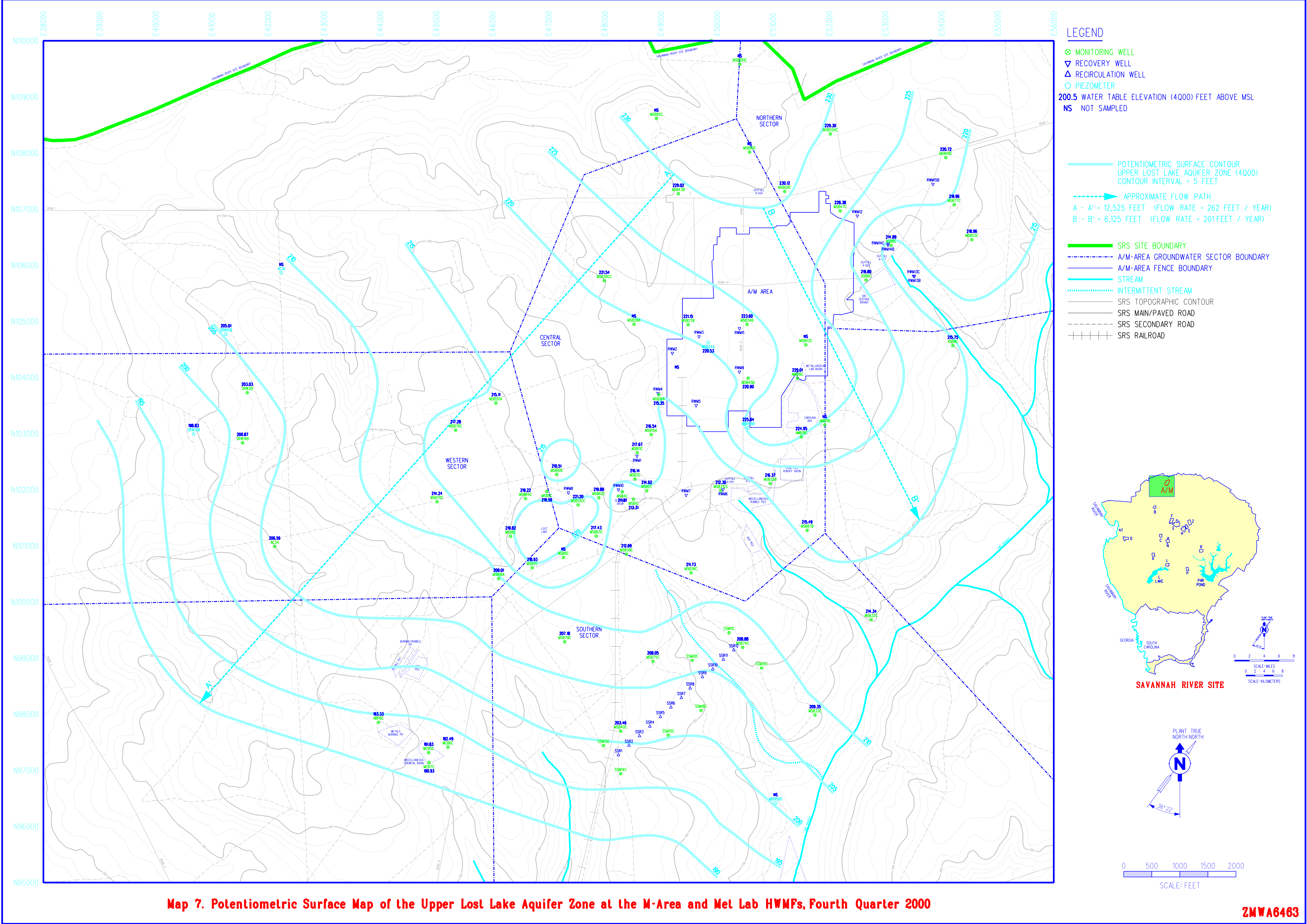


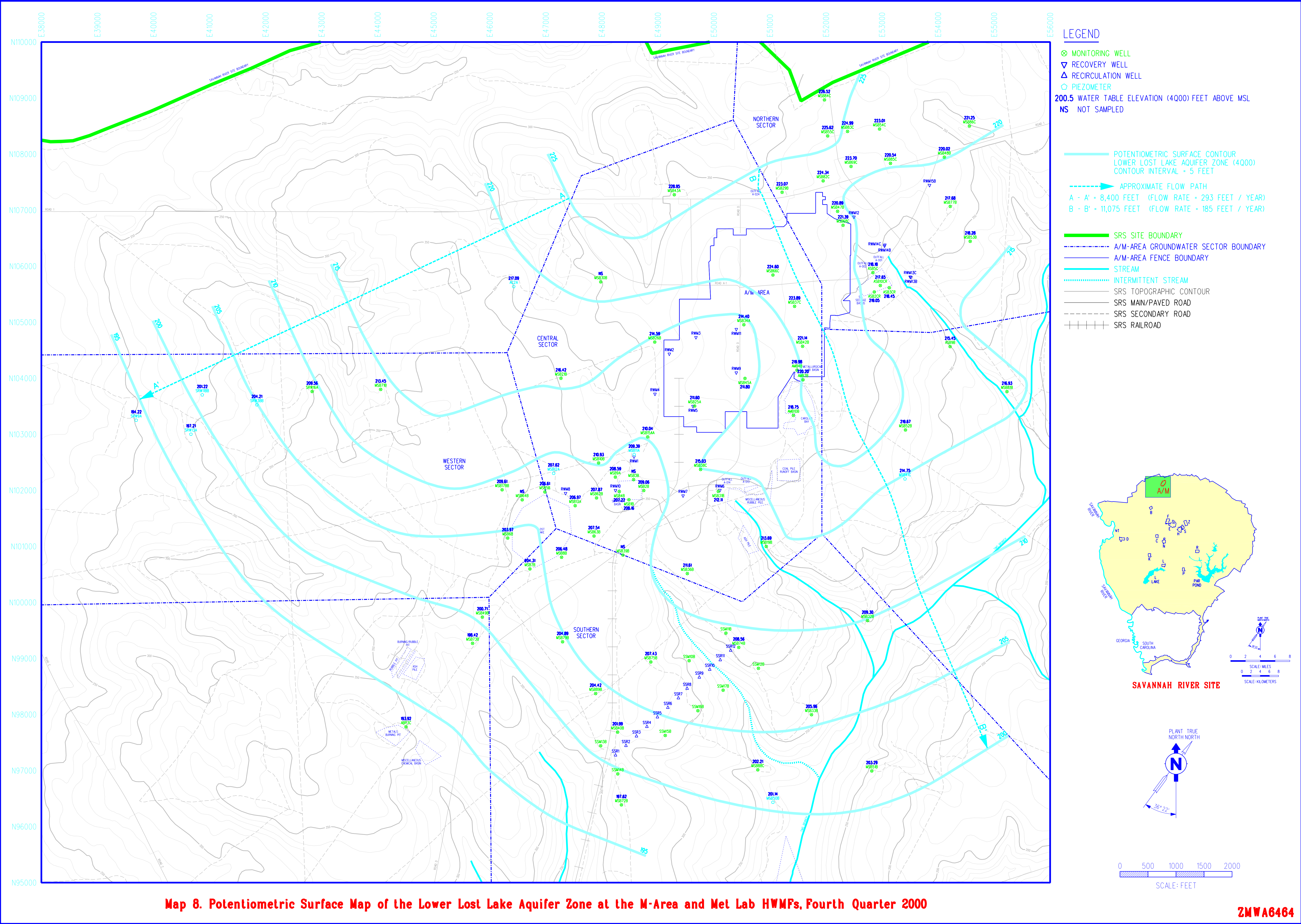


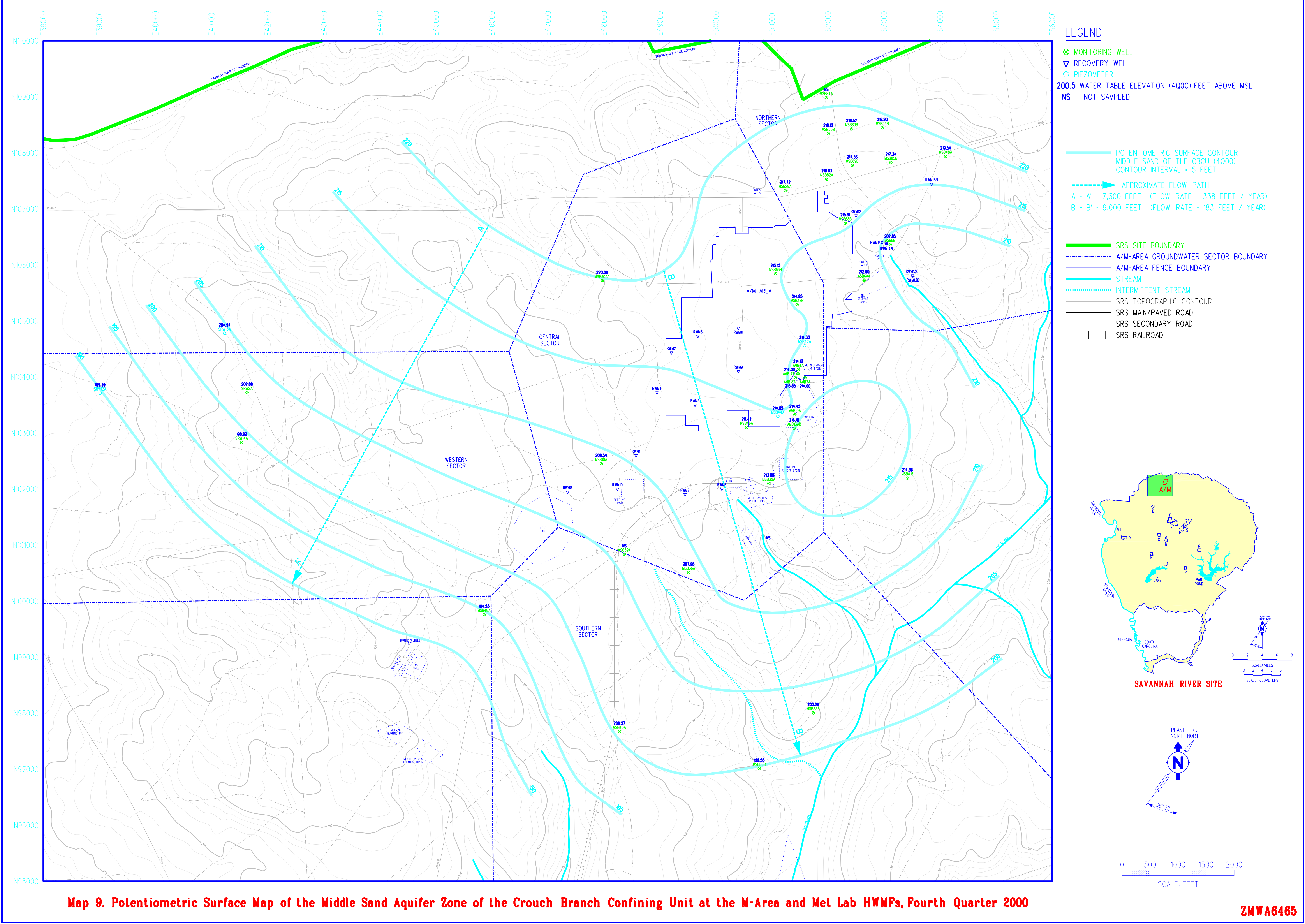


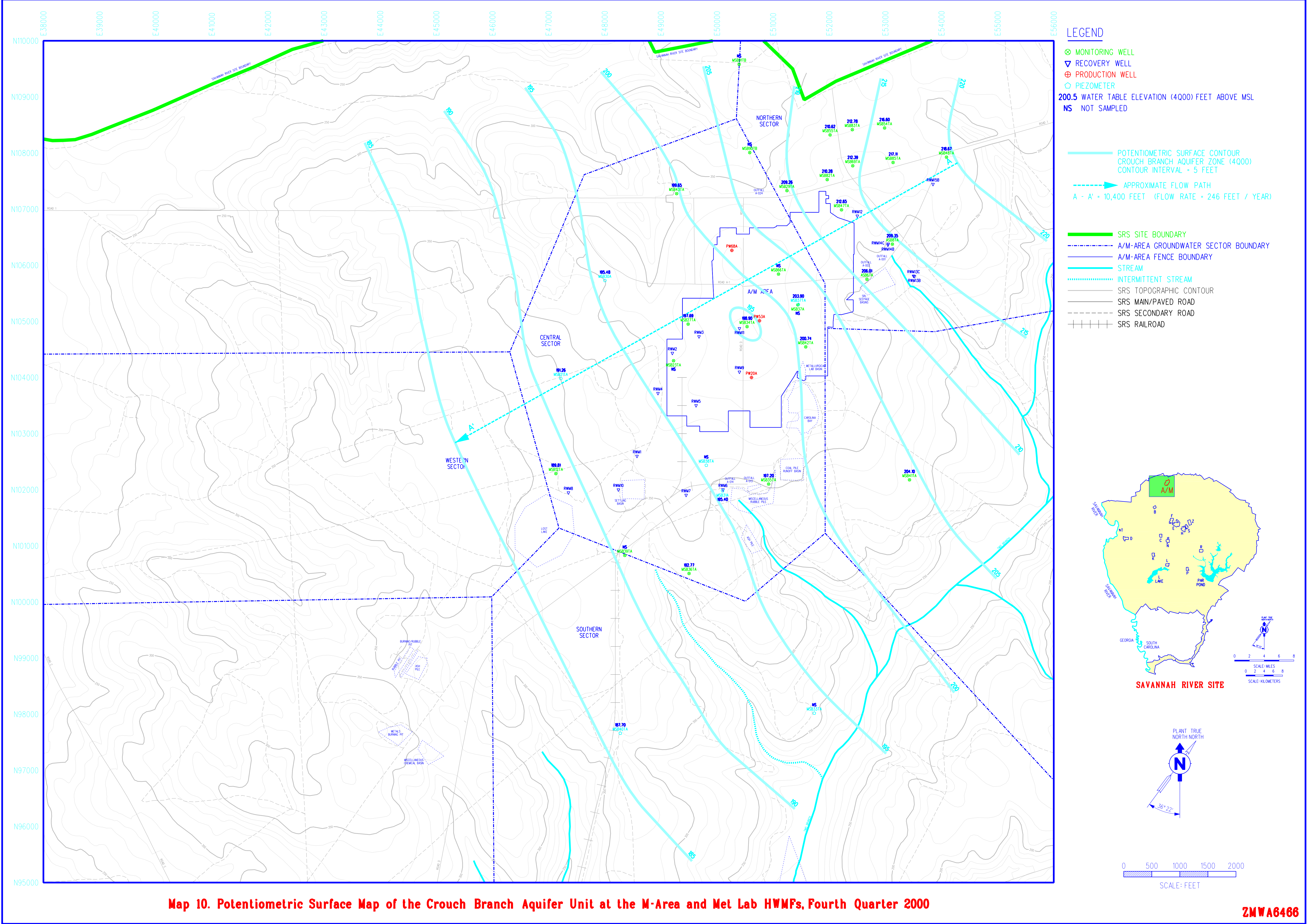












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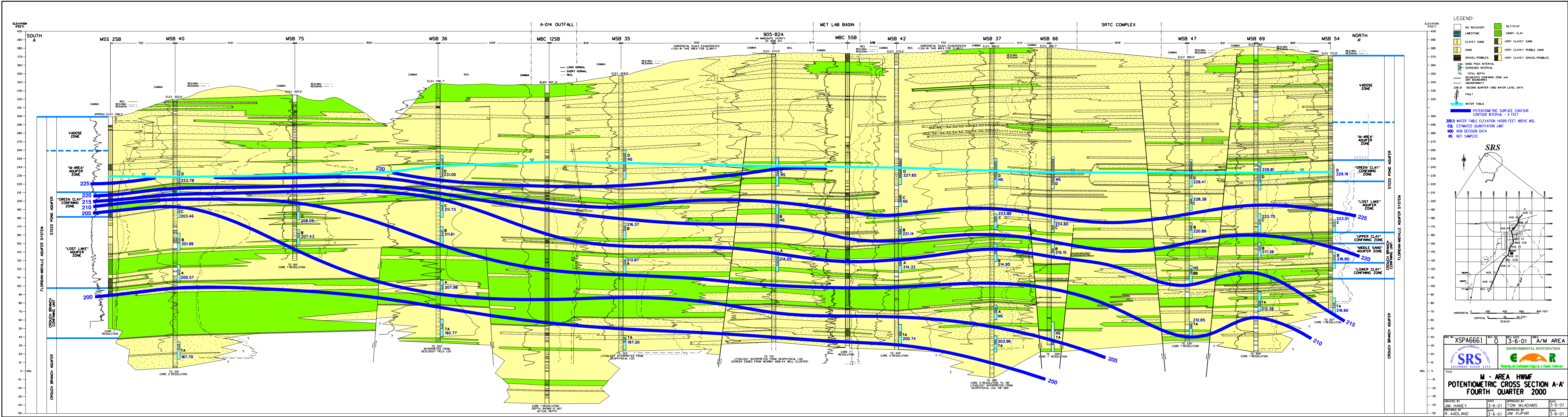


Figure 11. Potentiometric Cross-Section A-A' at the M-Area HWMF,
Fourth Quarter 2000

M-Area and Met Lab HWMFs

Third and Fourth Quarters 2000

WSRC-TR-2001-00098
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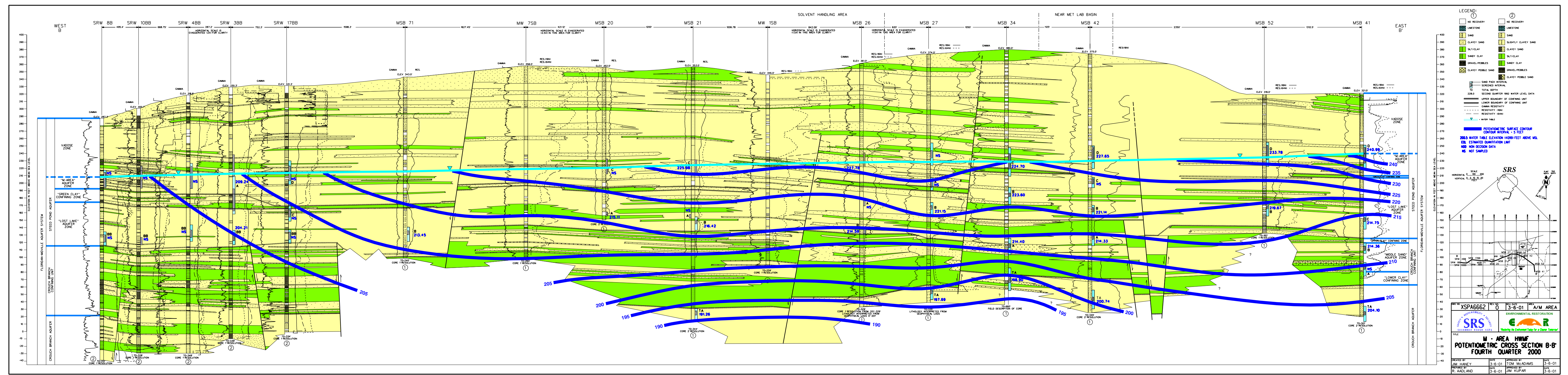


Figure 12. Potentiometric Cross-Section B-B' at the M-Area HWMF,
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M-Area and Met Lab HWMFs

Third and Fourth Quarters 2000

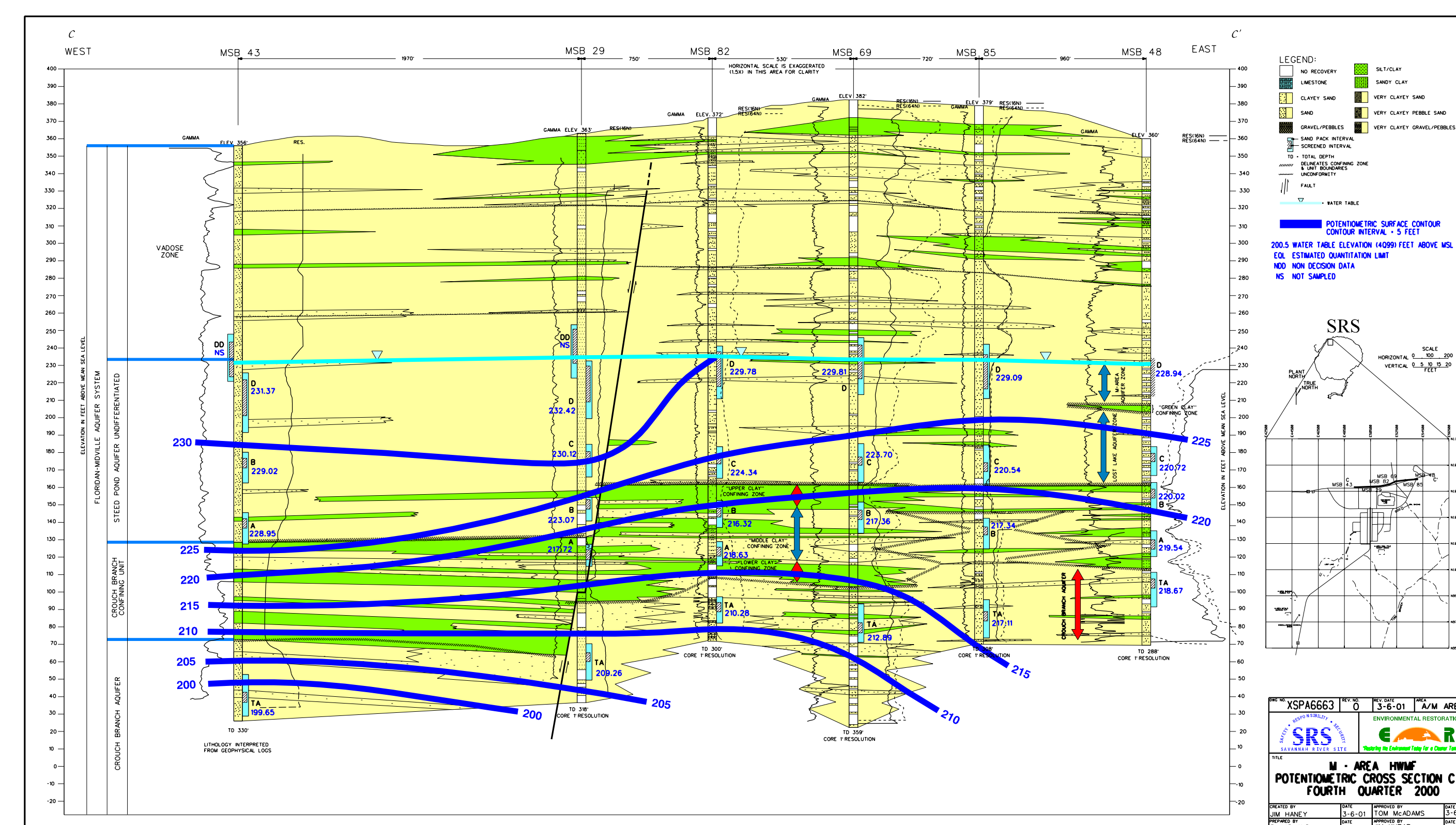


Figure 13. Potentiometric Cross-Section C-C' at the M-Area HWMF, Fourth Quarter 2000

M-Area and Met Lab HWMFs

Third and Fourth Quarters 2000

M-Area and Met Lab HWMFs

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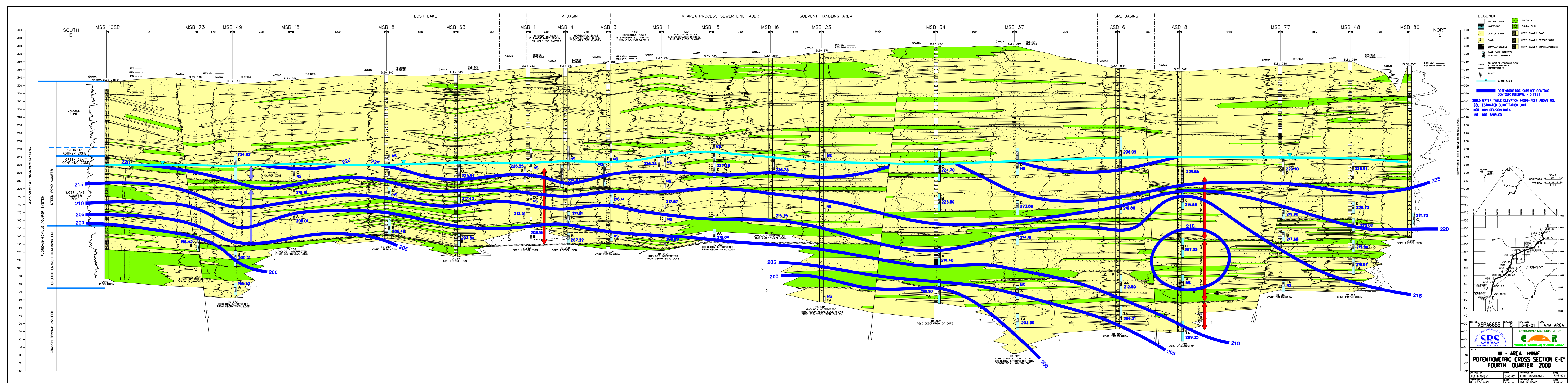


Figure 15. Potentiometric Cross-Section E-E' at the M-Area HWMF,
Fourth Quarter 2000

M-Area and Met Lab HWMFs

Third and Fourth Quarters 2000

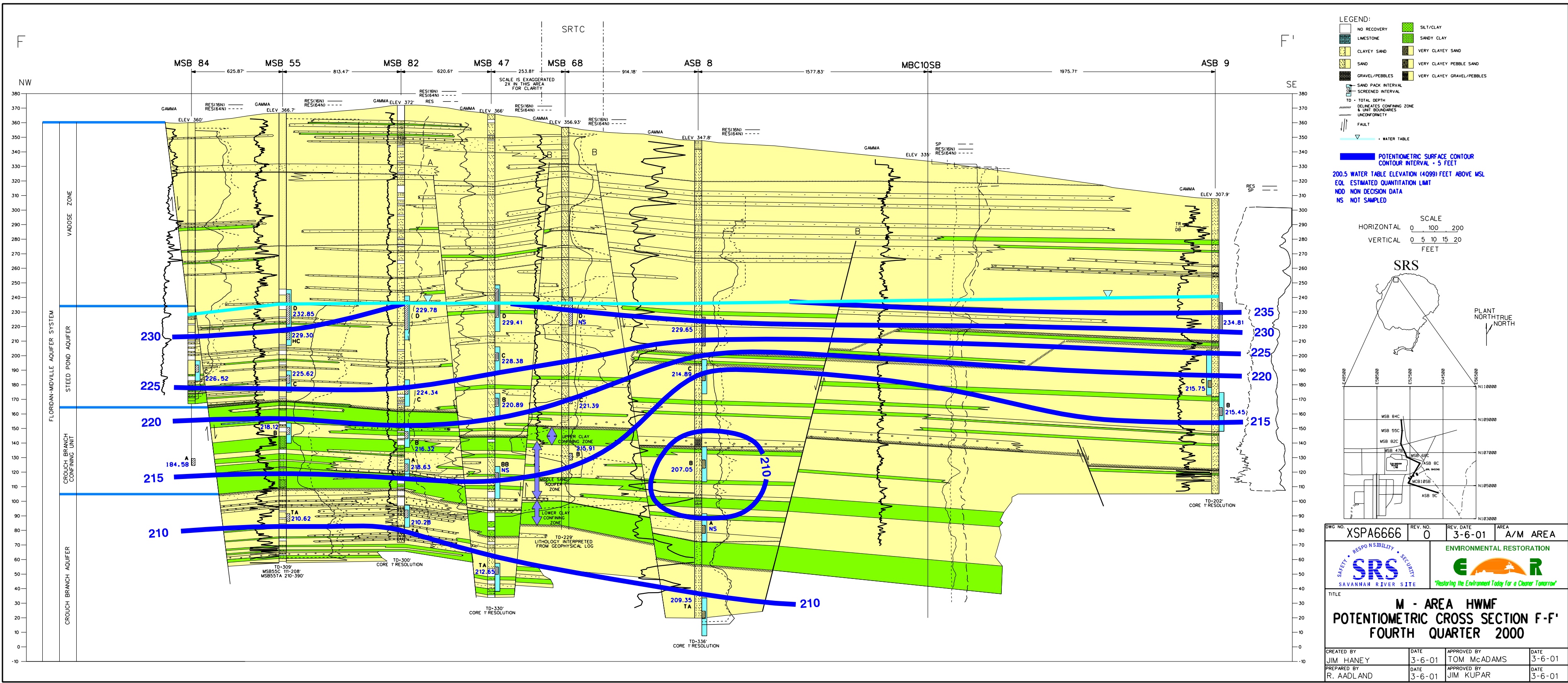
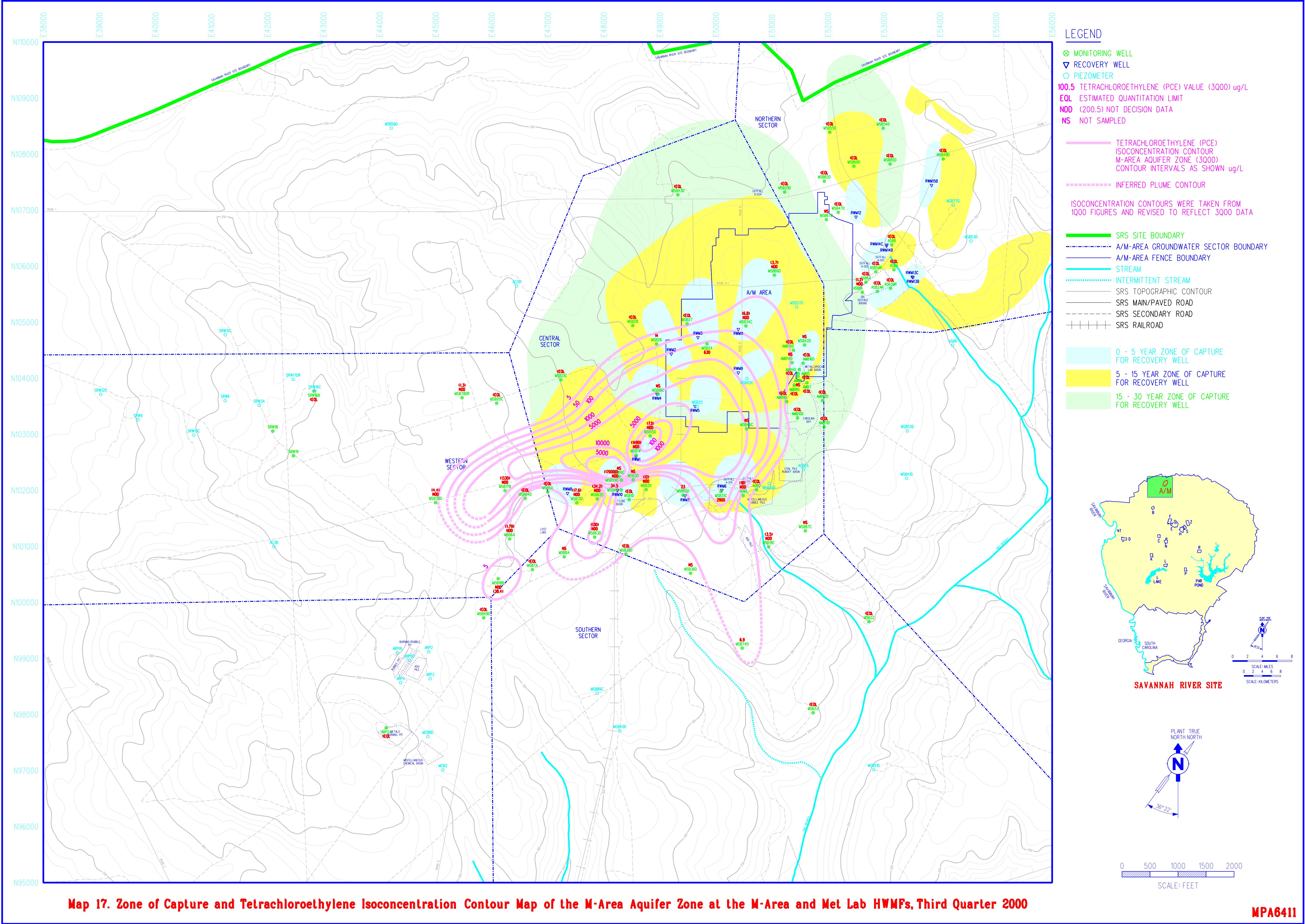


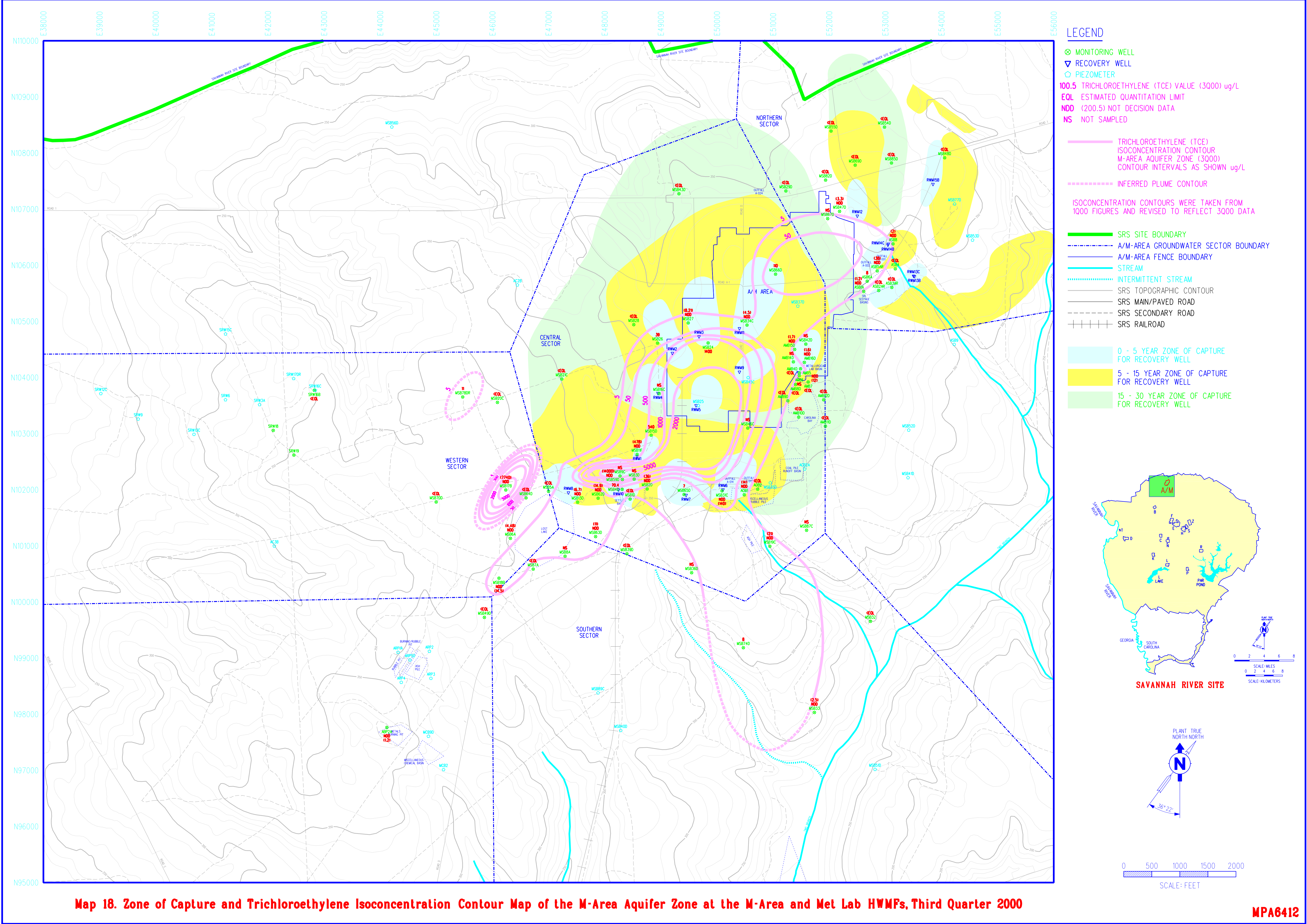
Figure 16. Potentiometric Cross-Section F-F' at the M-Area HWMF,
Fourth Quarter 2000

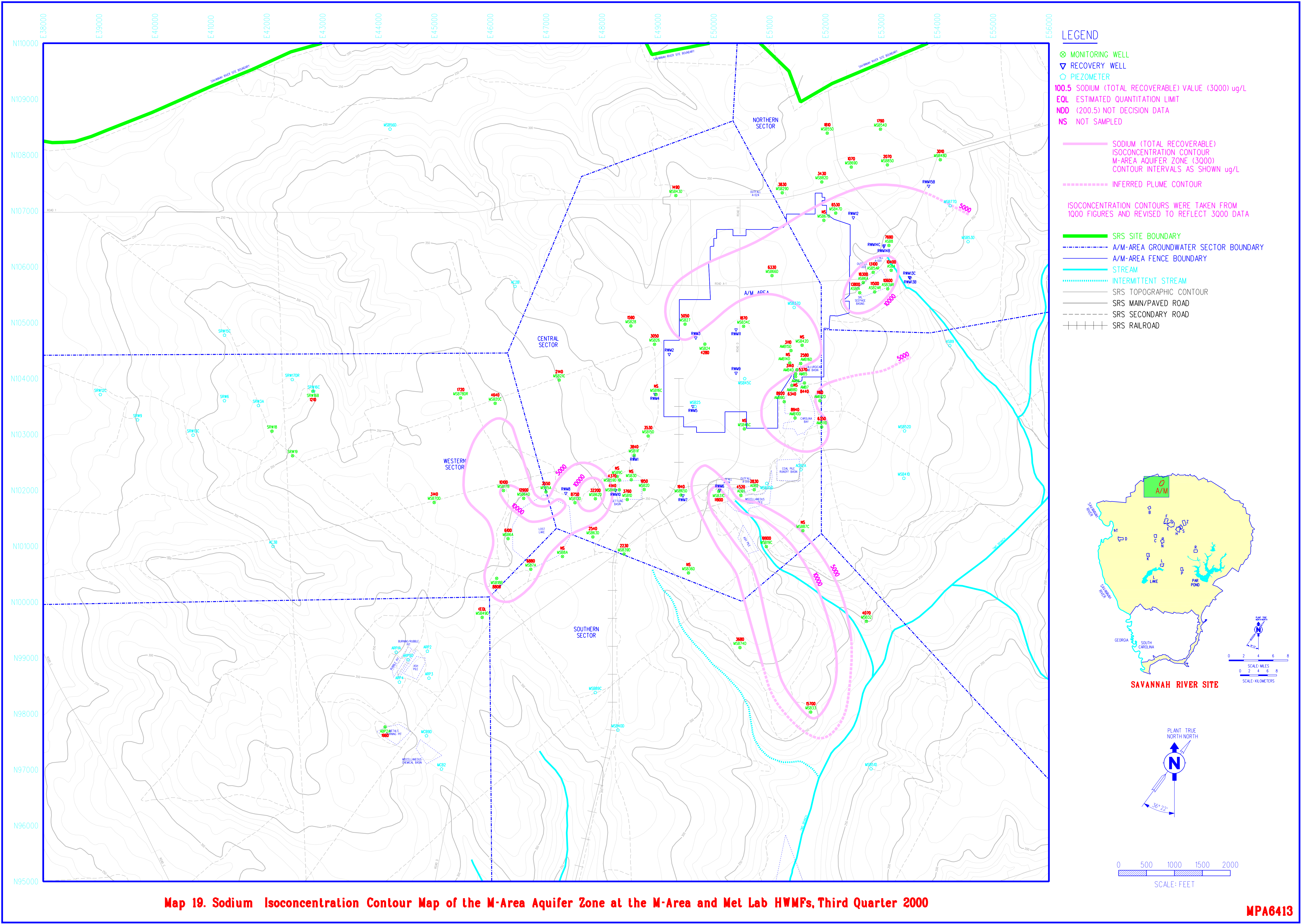
M-Area and Met Lab HWMFs

Third and Fourth Quarters 2000

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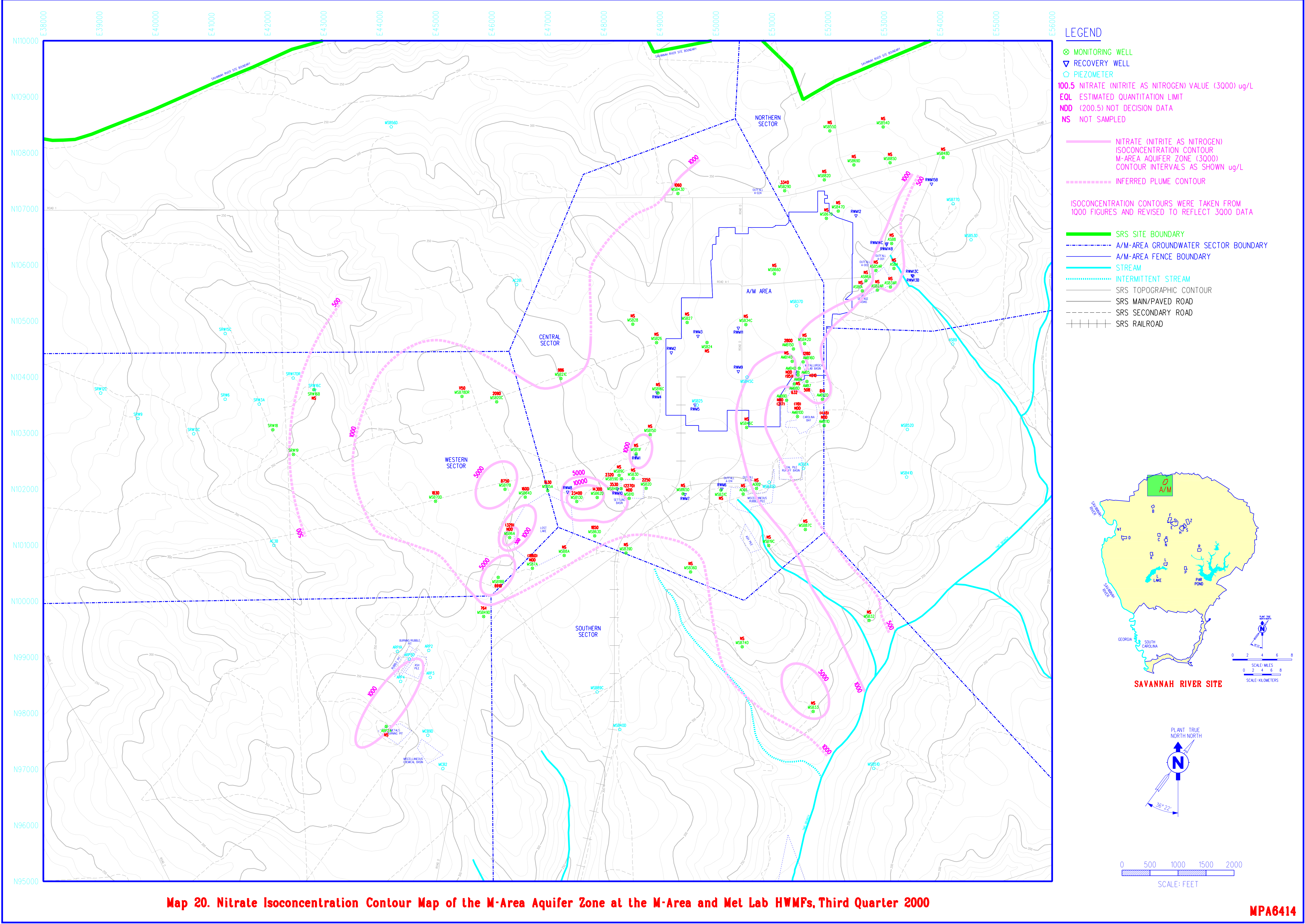


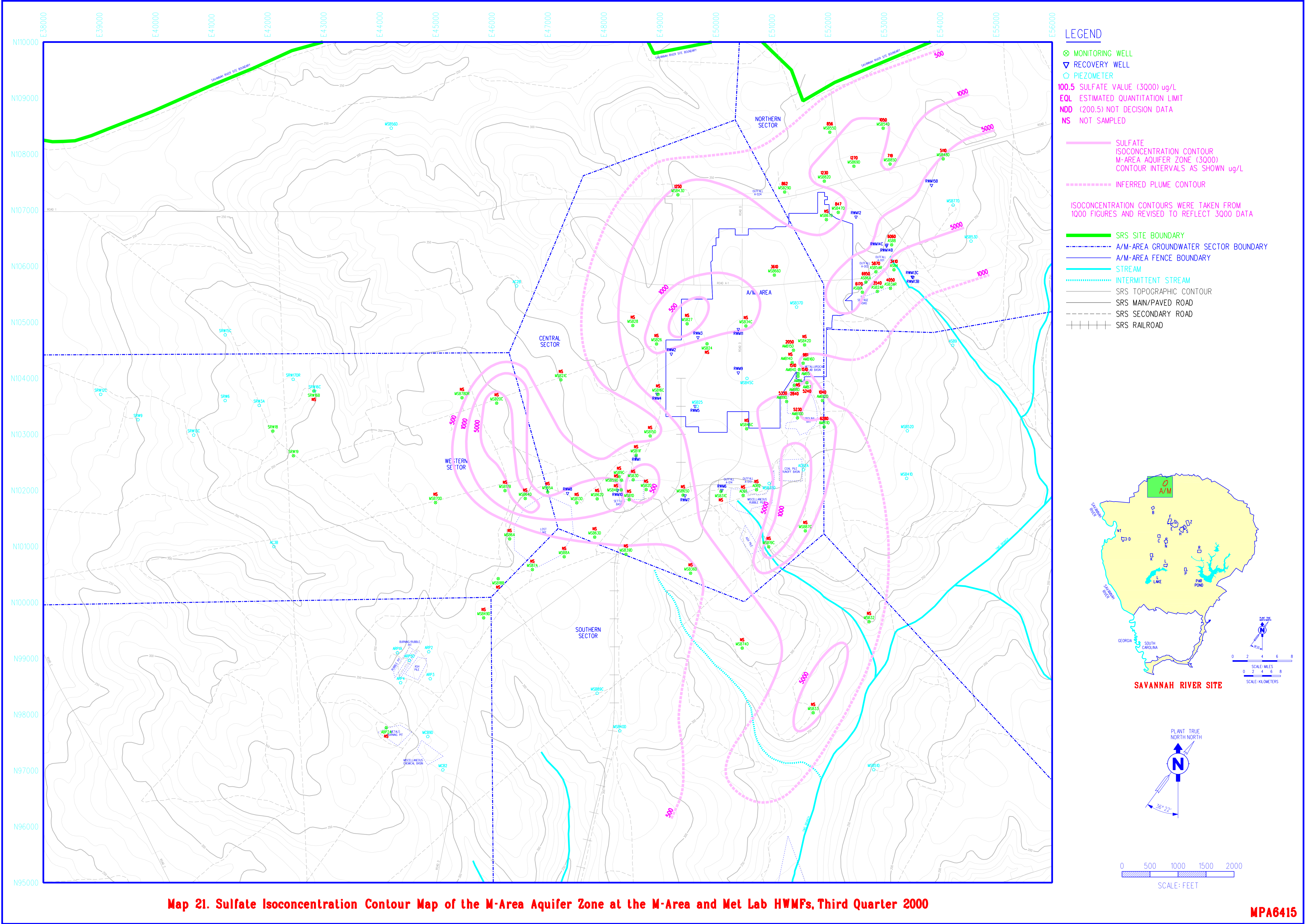


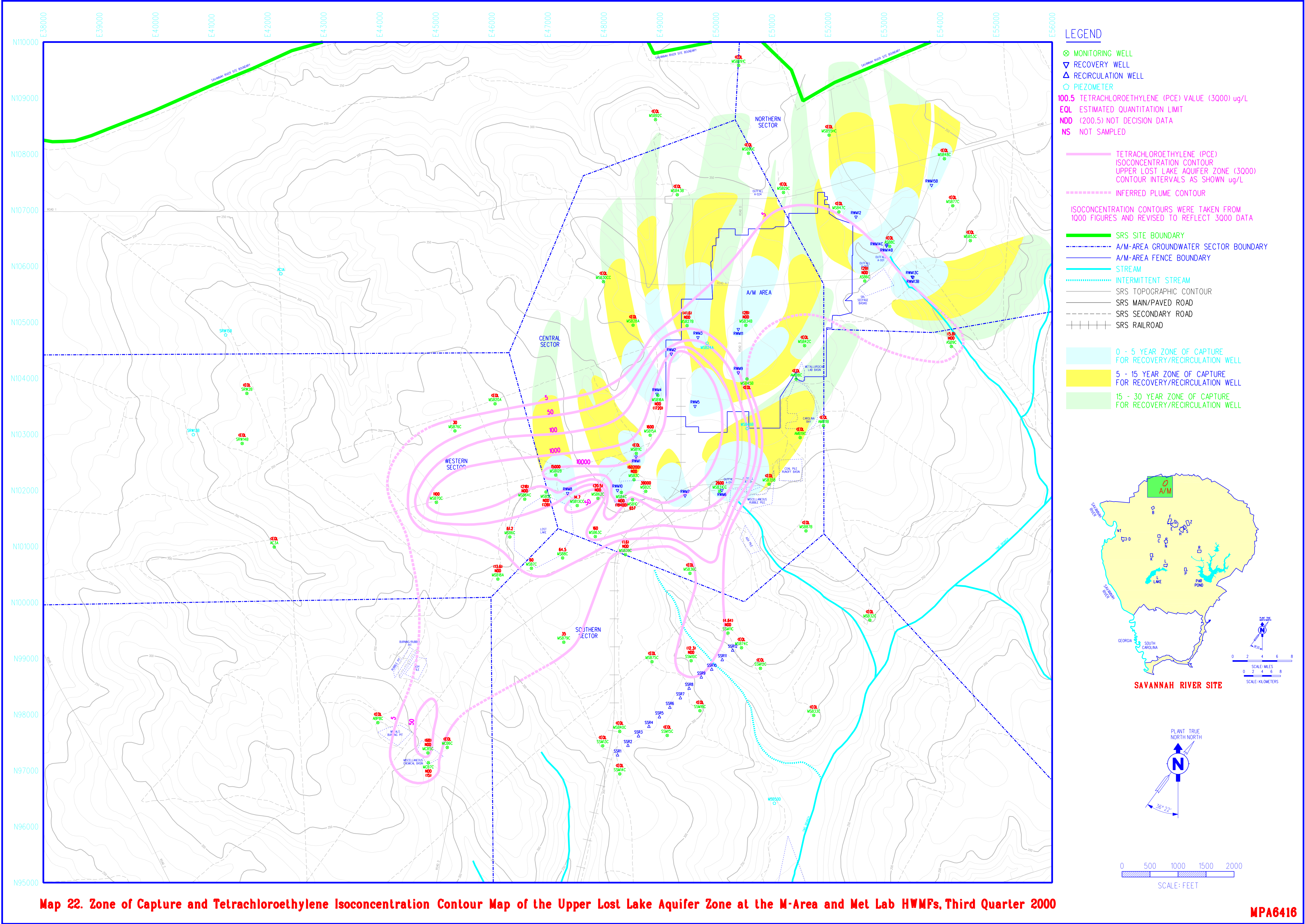


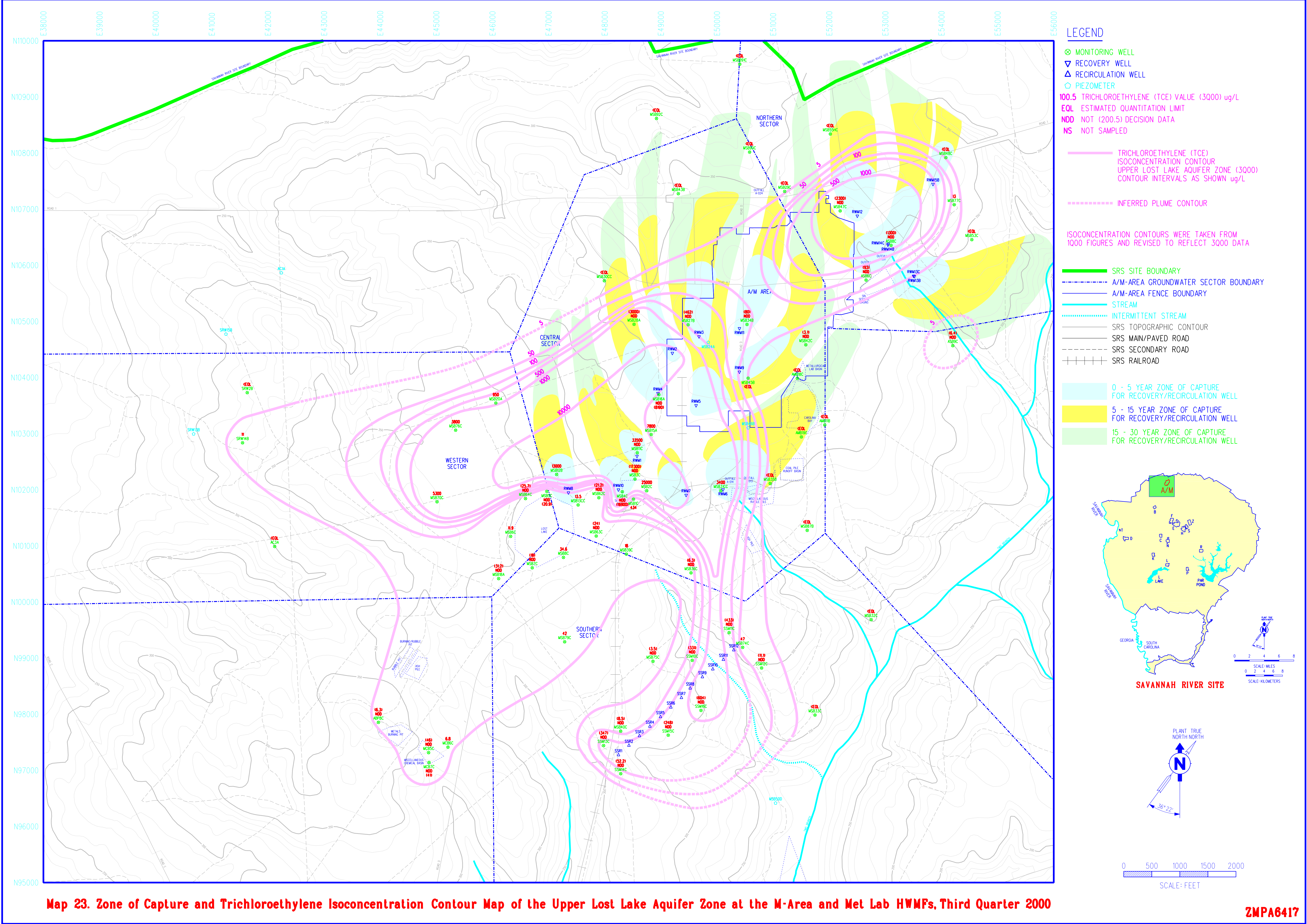
Map 19. Sodium Isoconcentration Contour Map of the M-Area Aquifer Zone at the M-Area and Mel Lab HWMFs, Third Quarter 2000

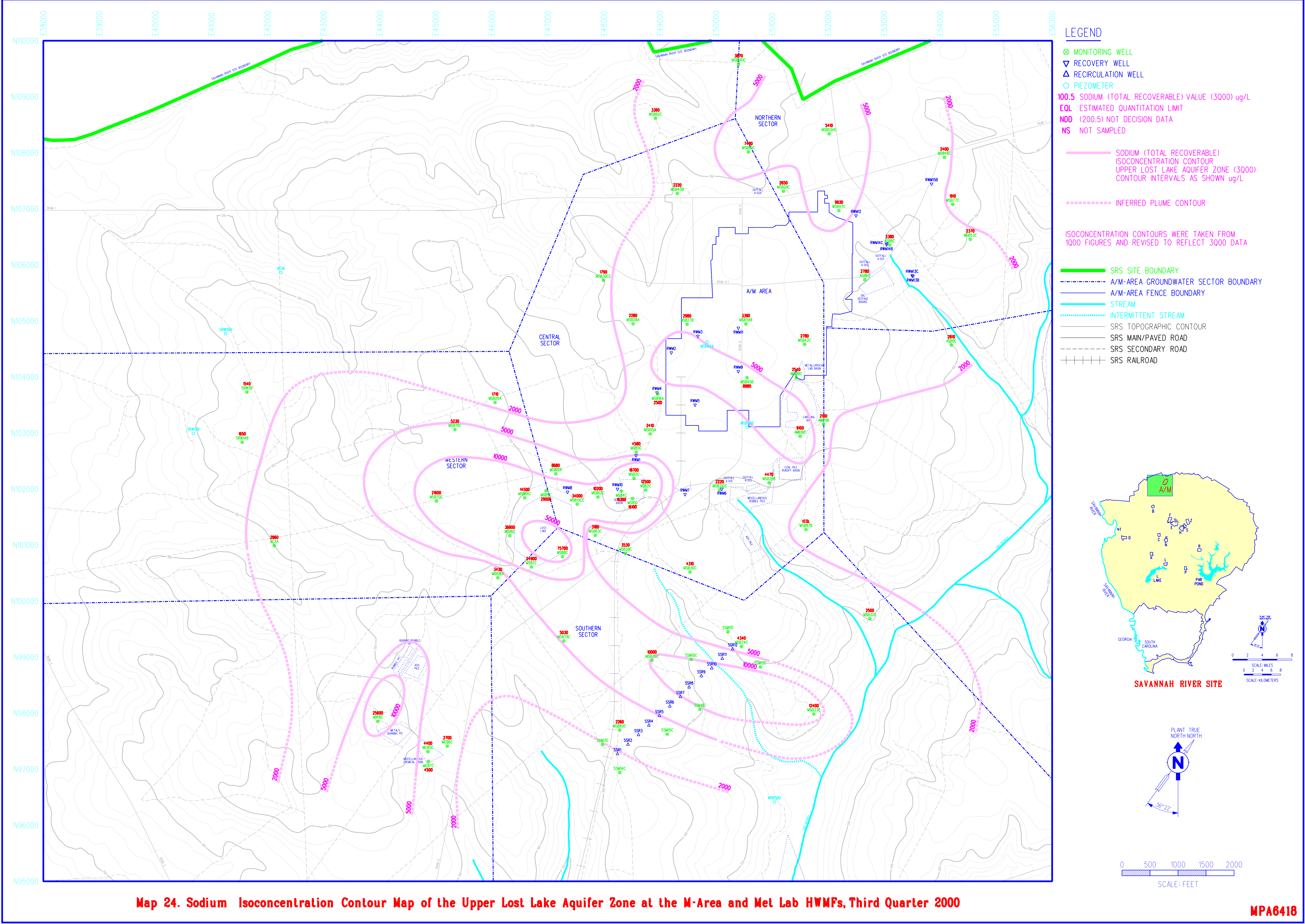
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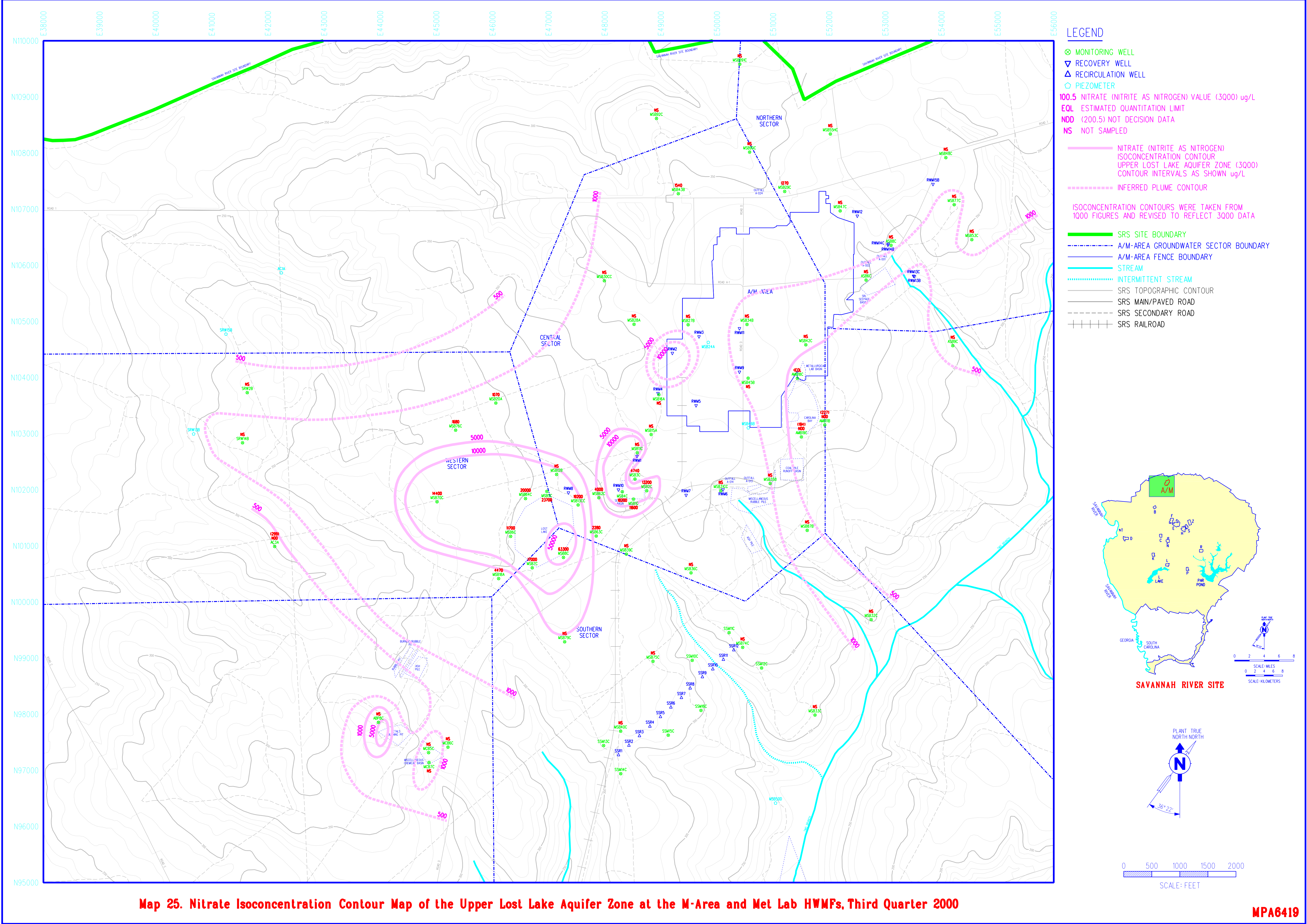


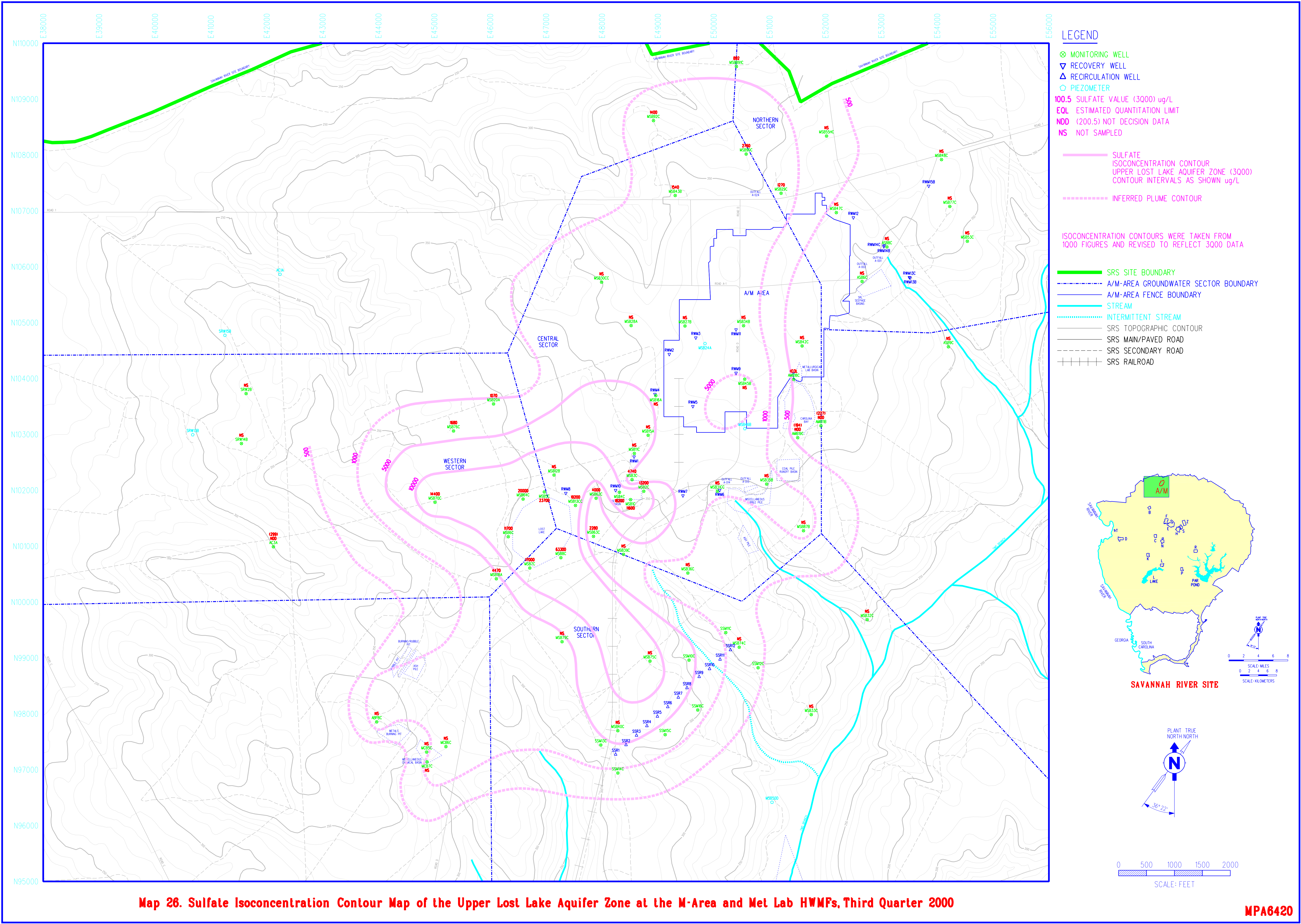


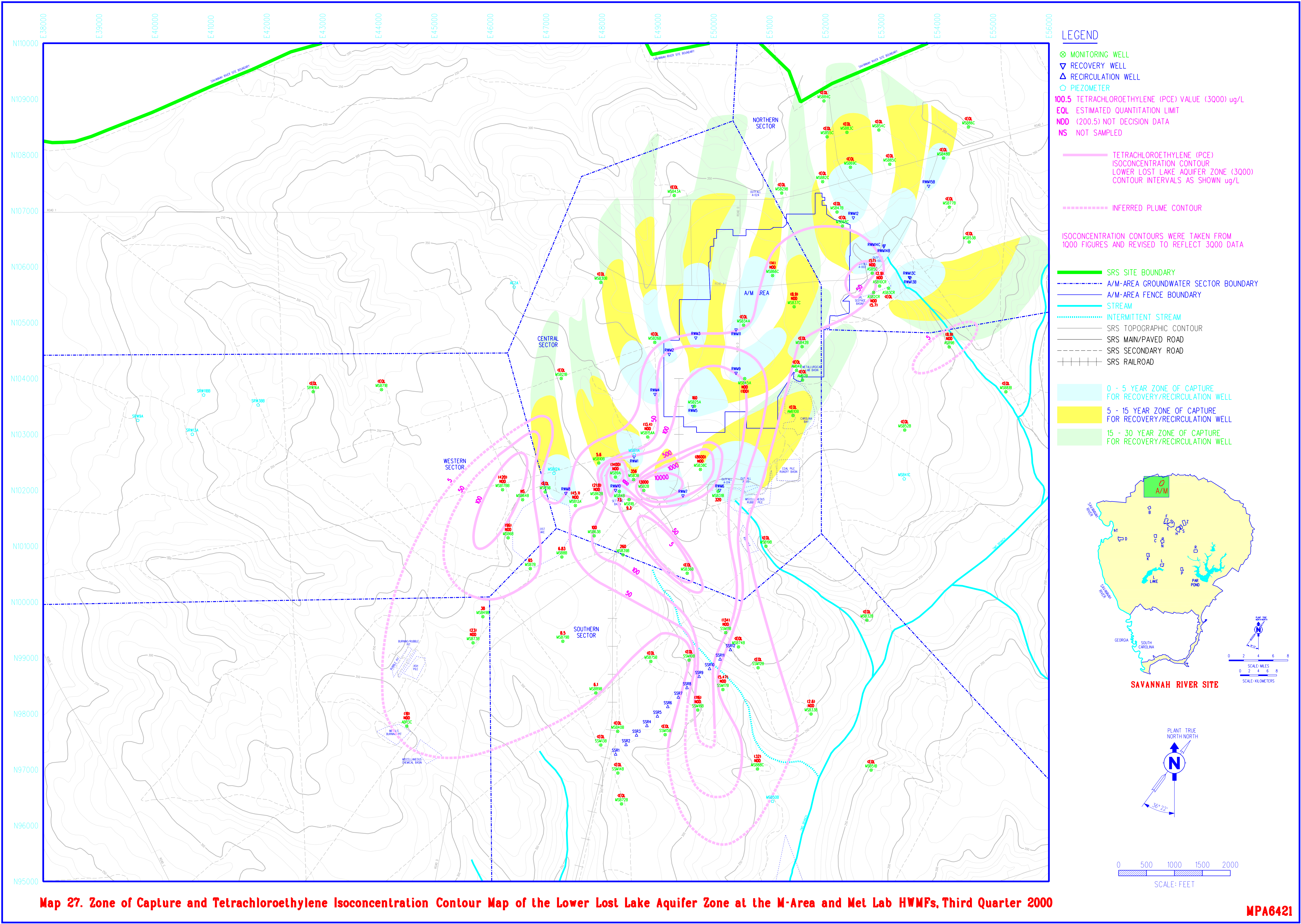


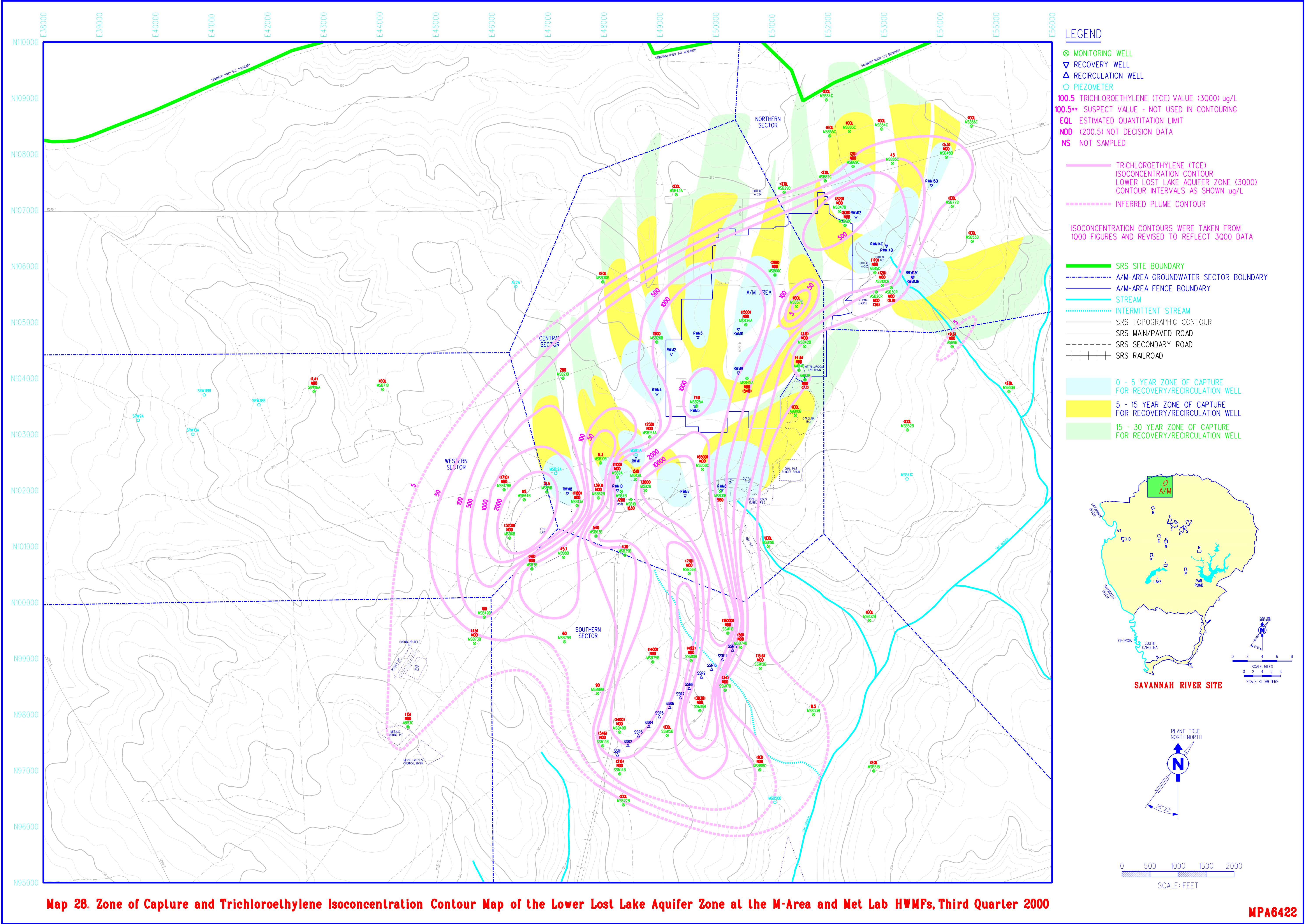


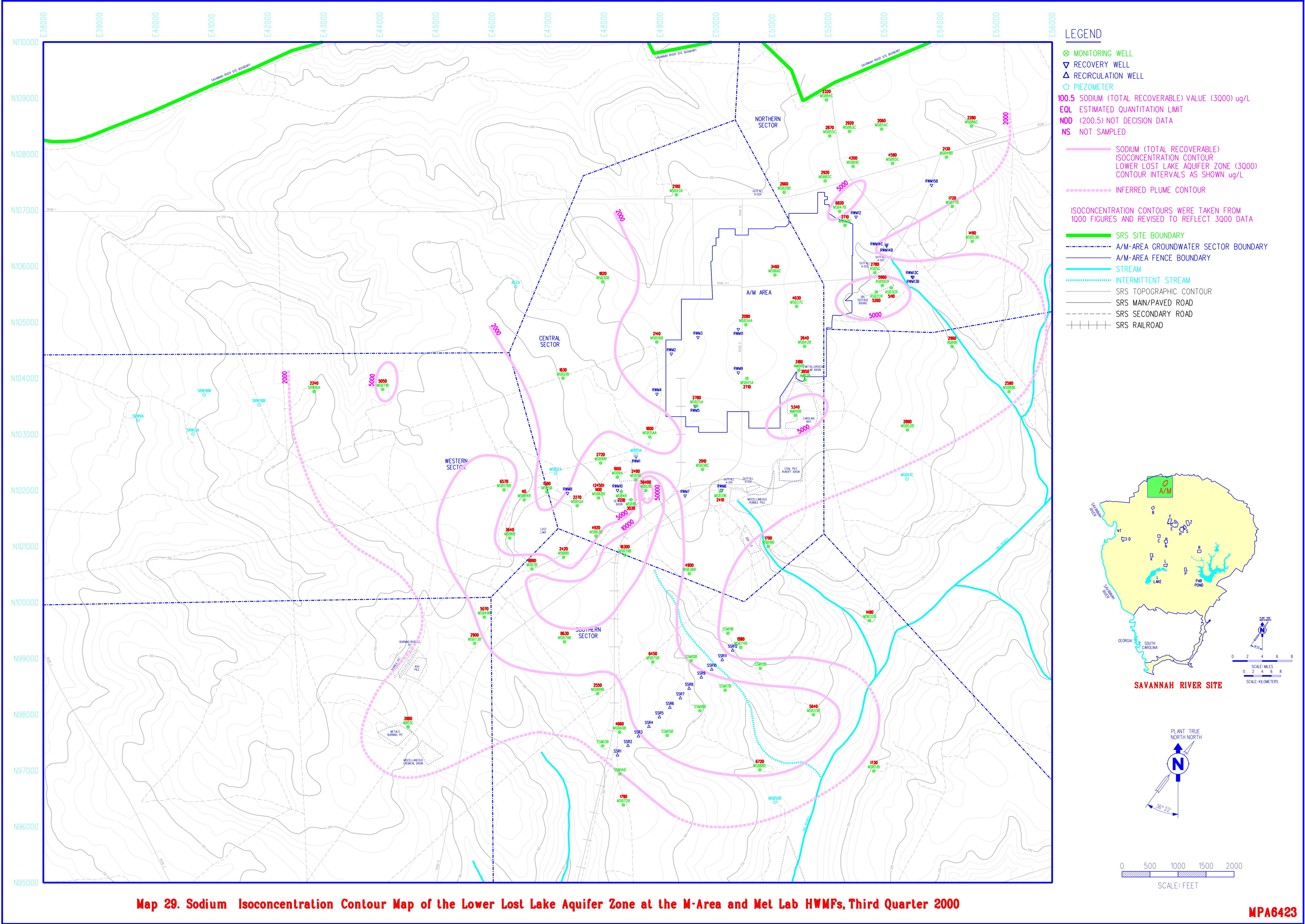


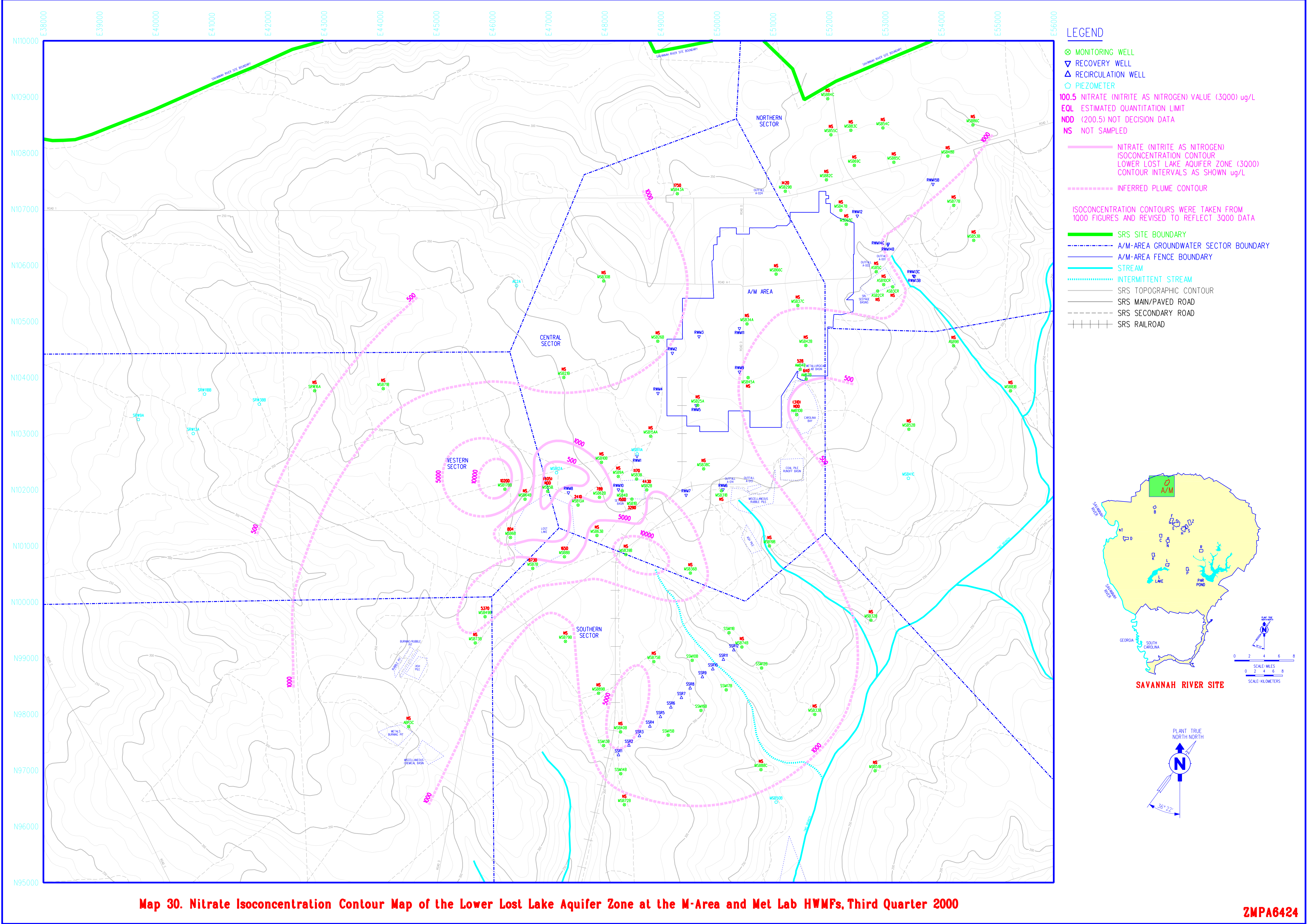


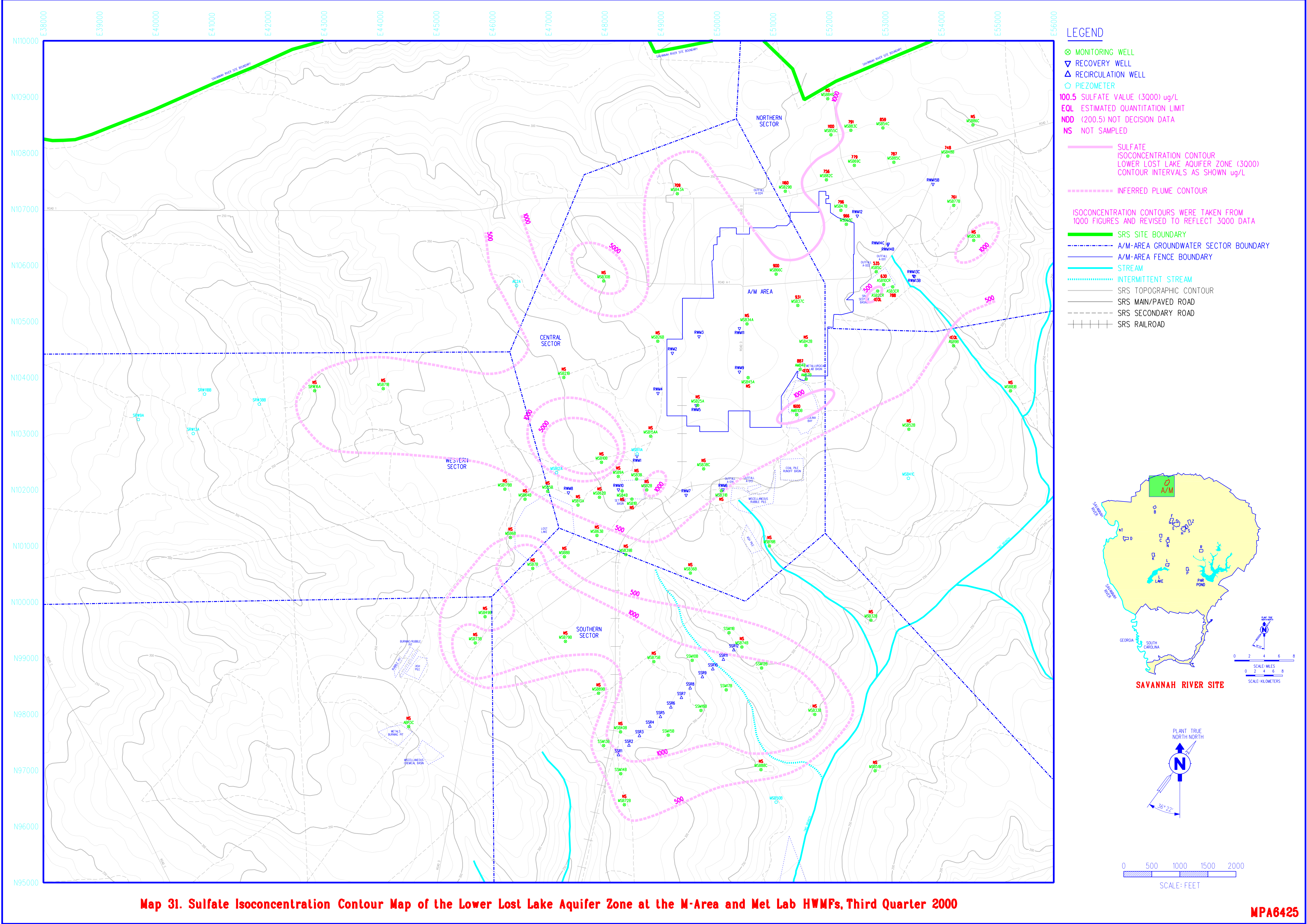


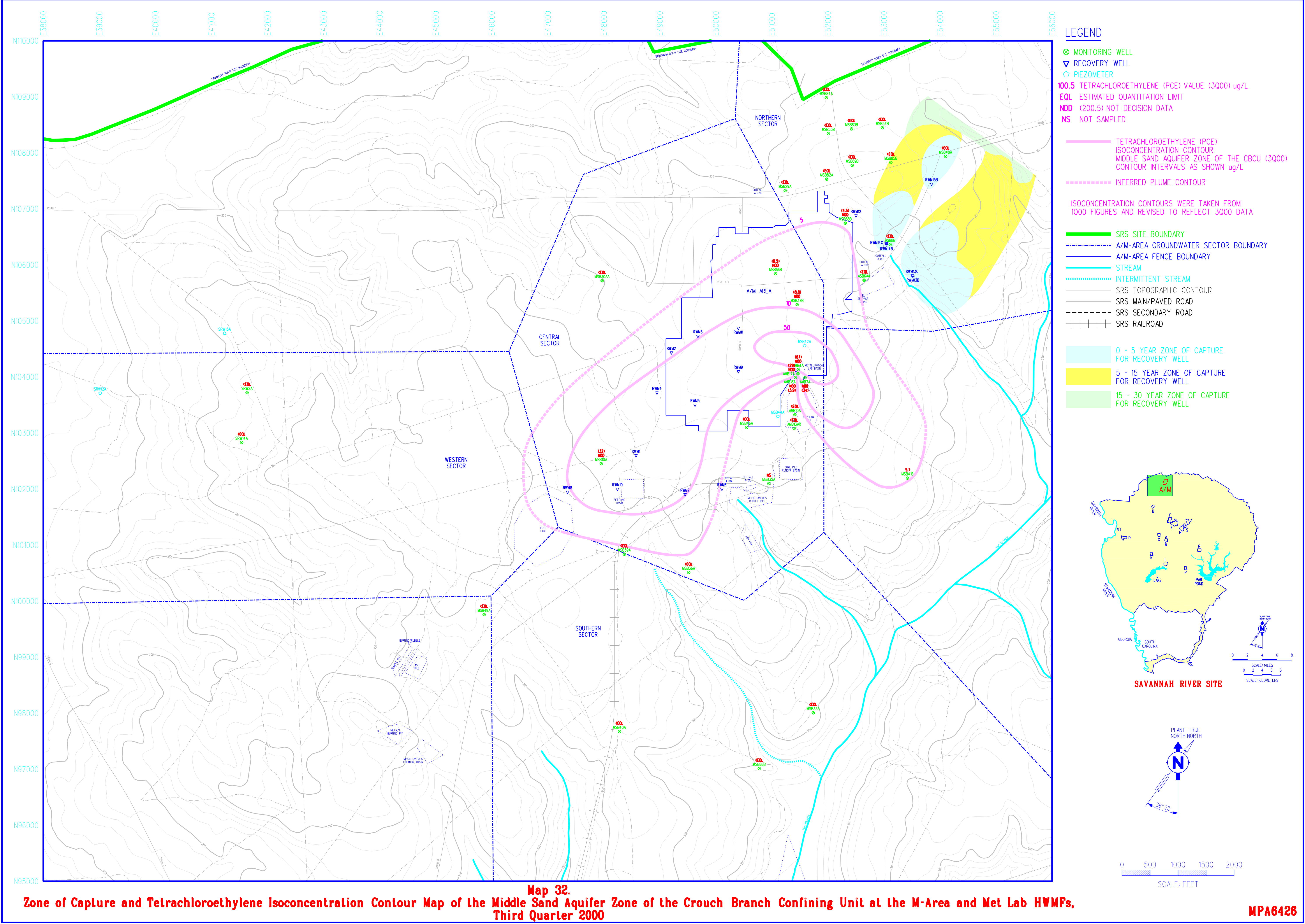


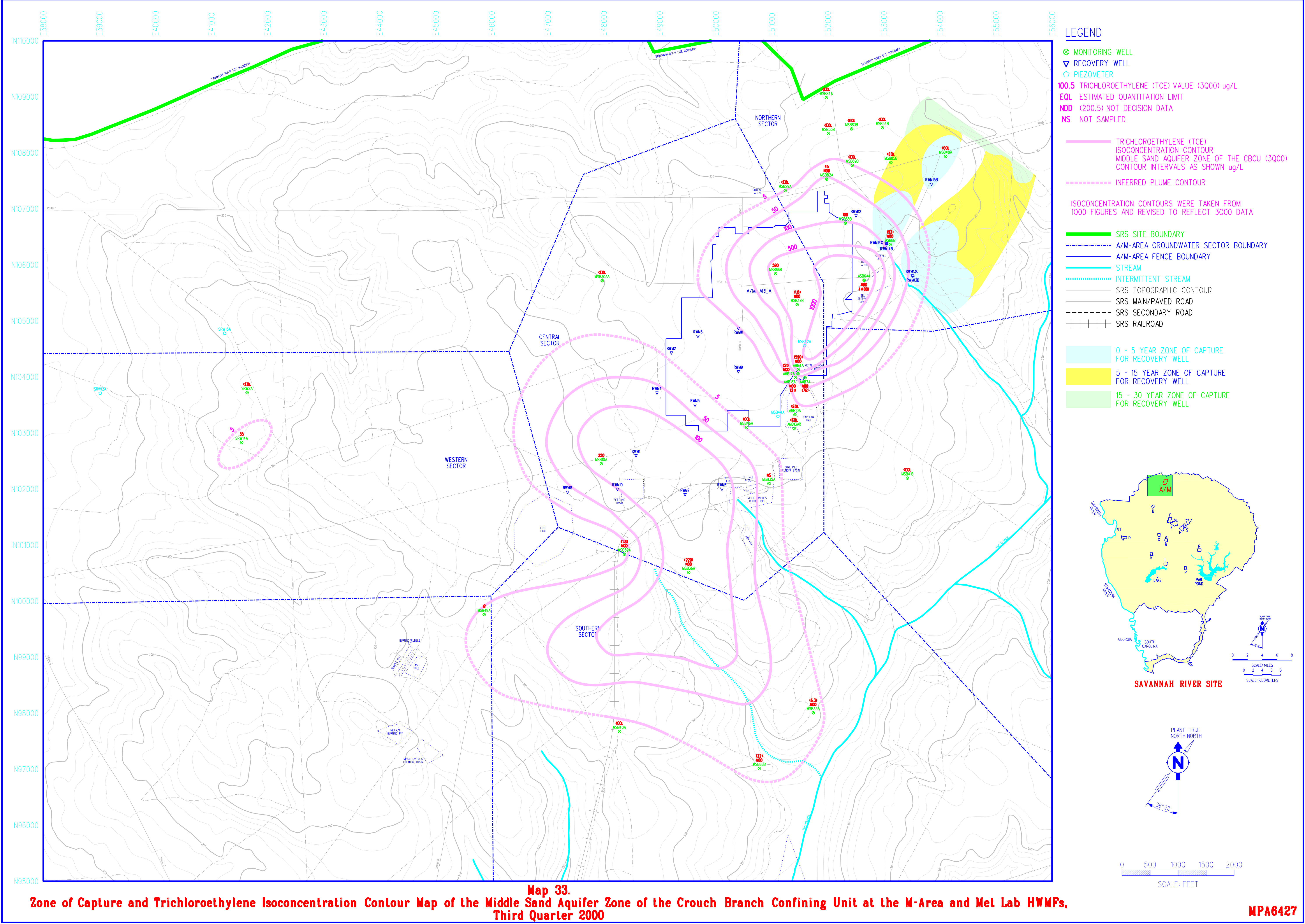


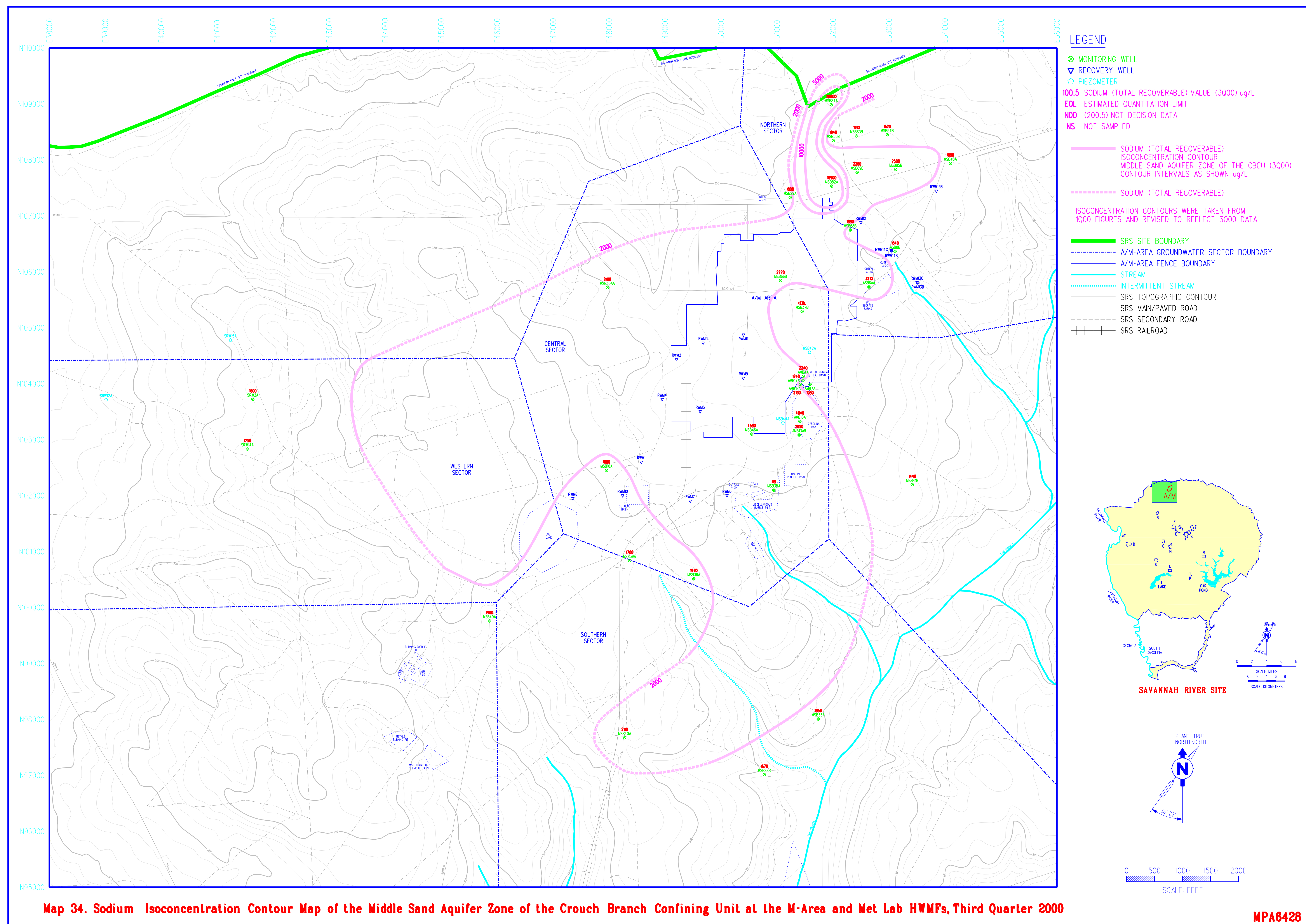


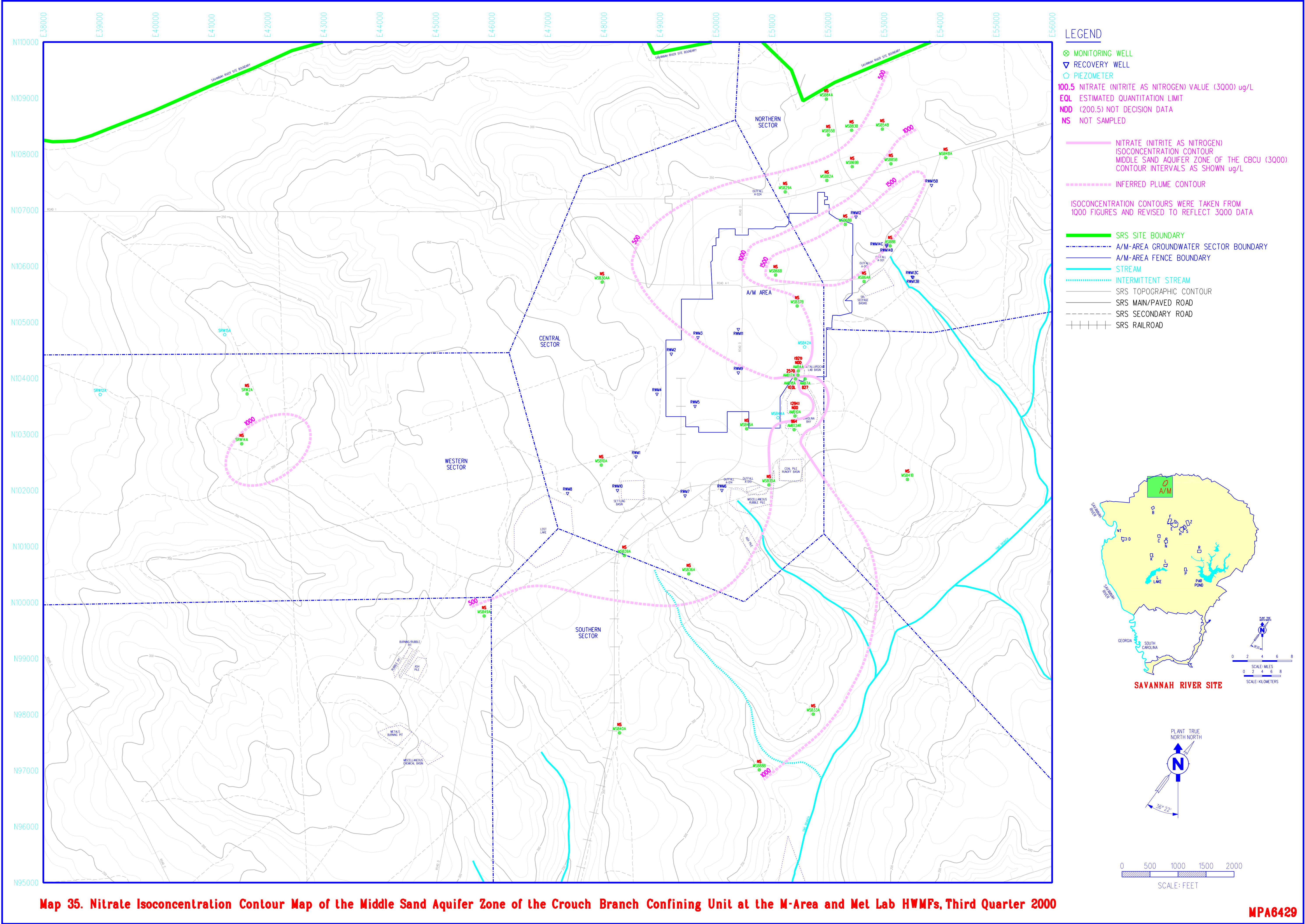


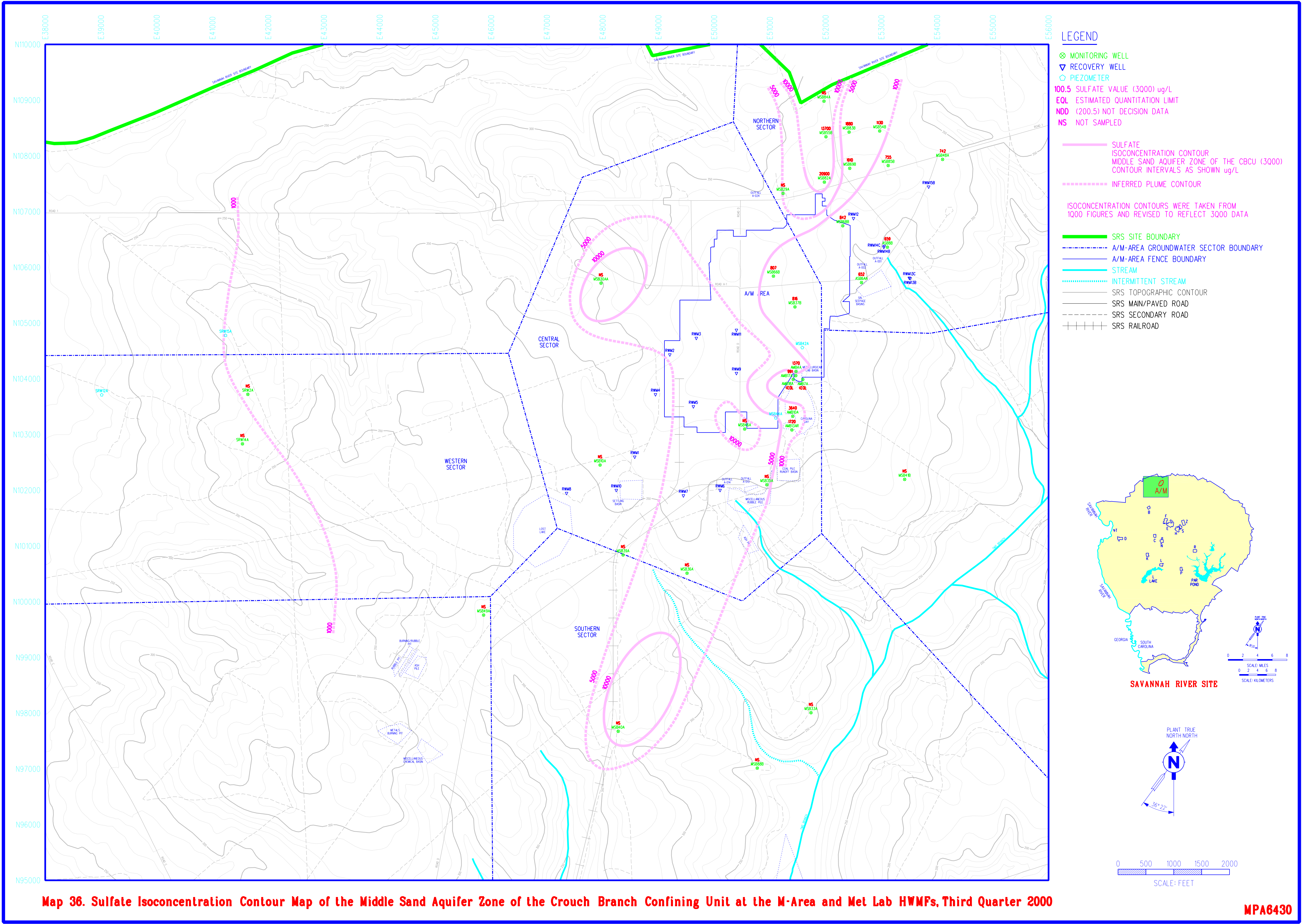


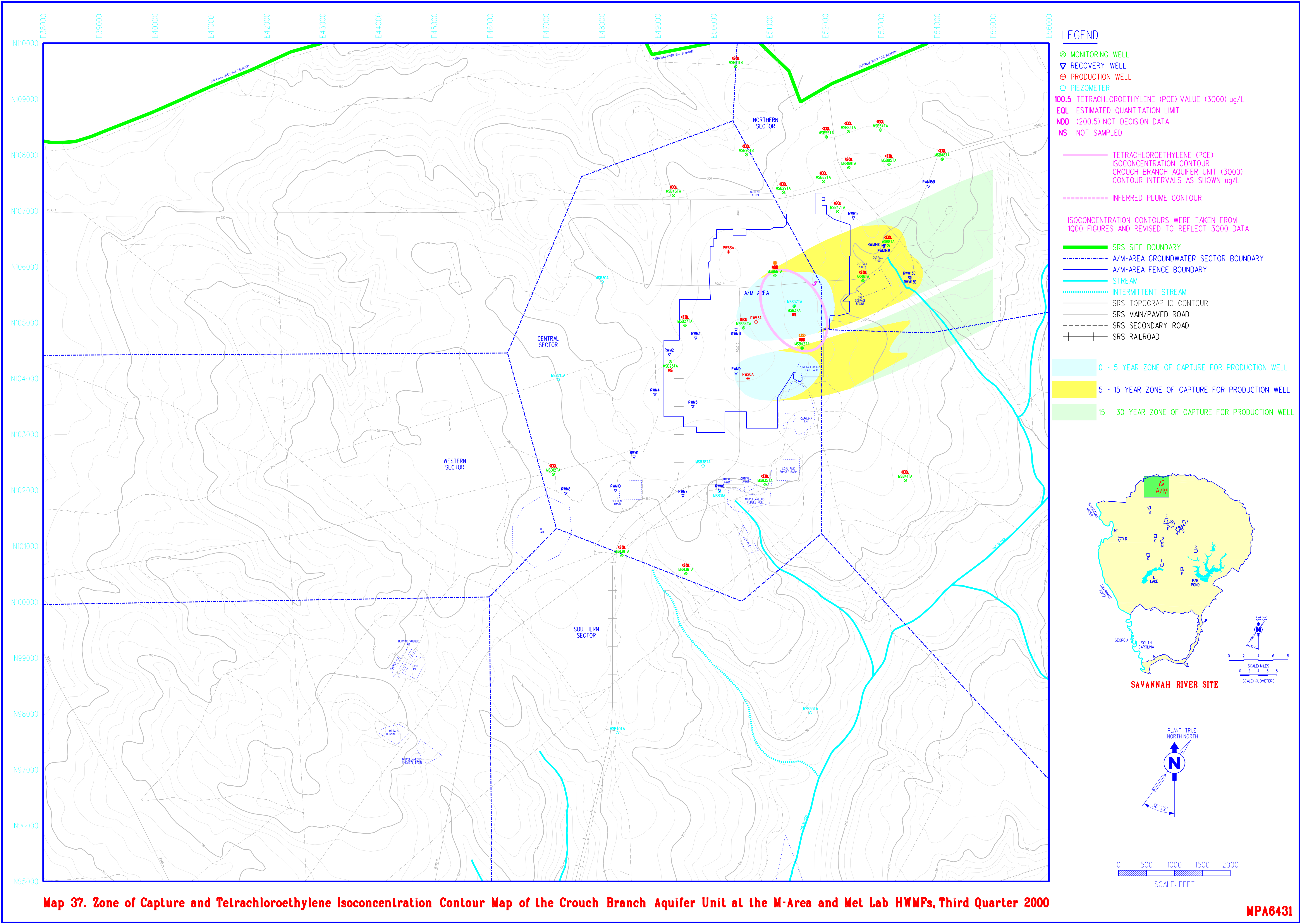


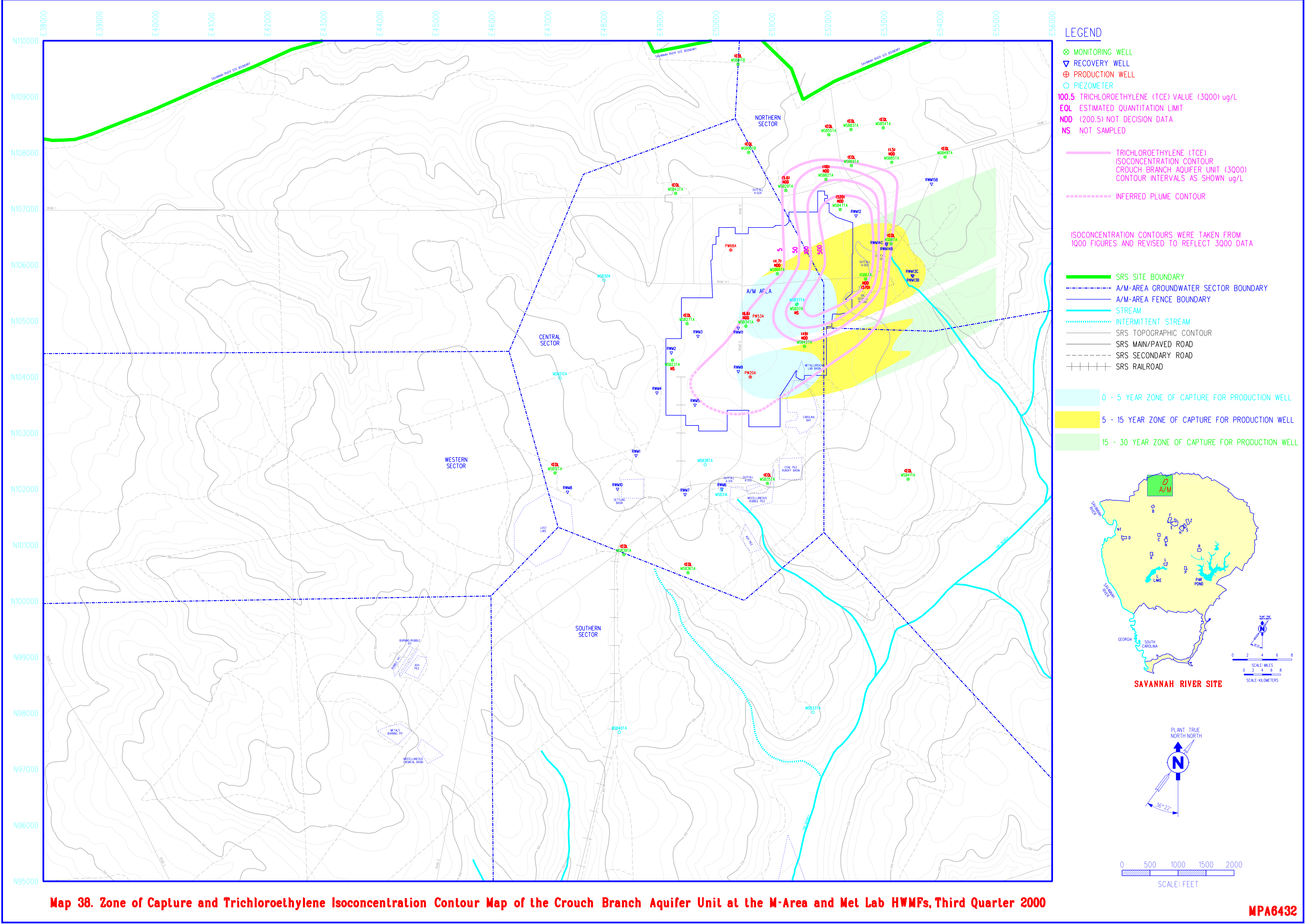


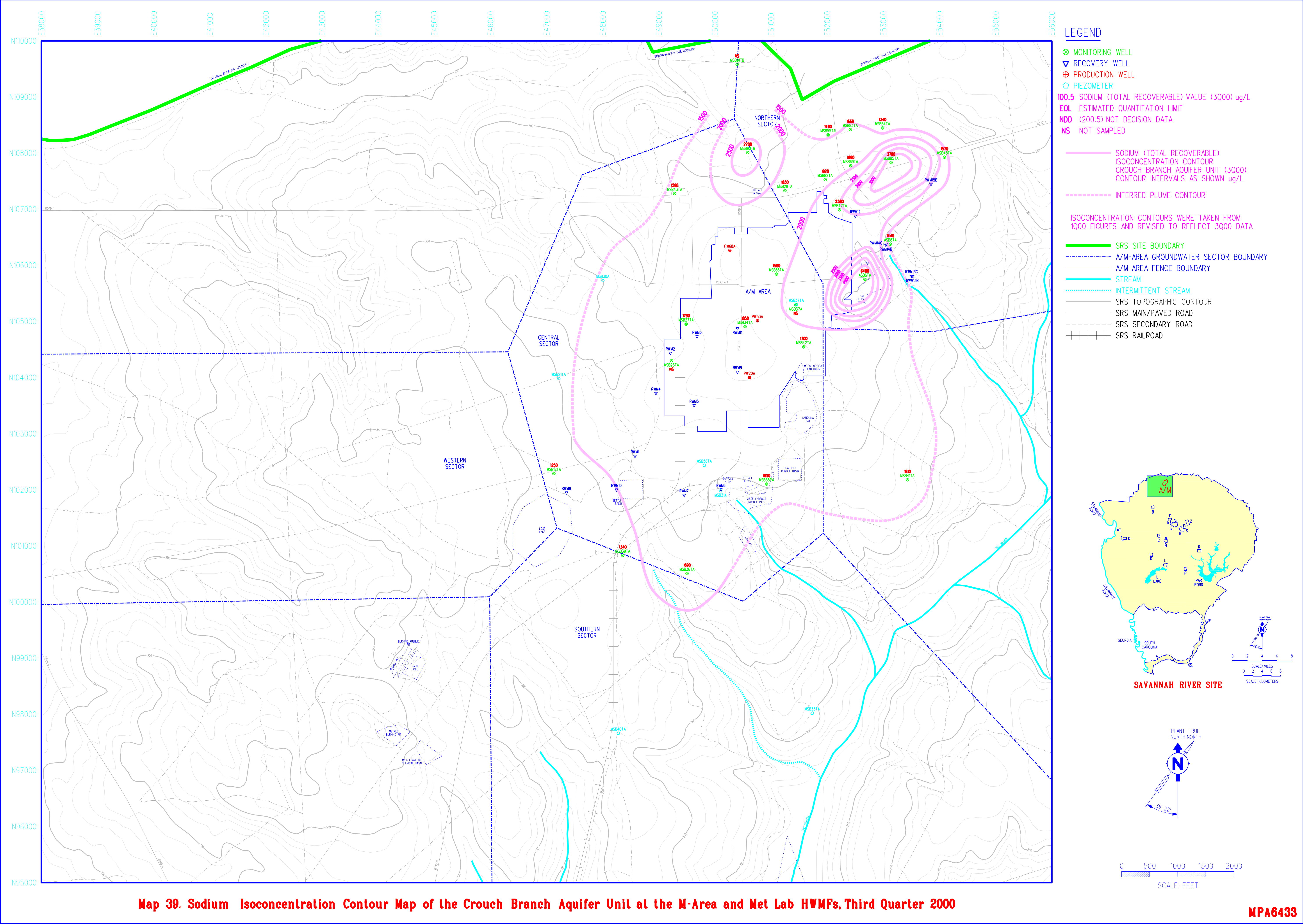


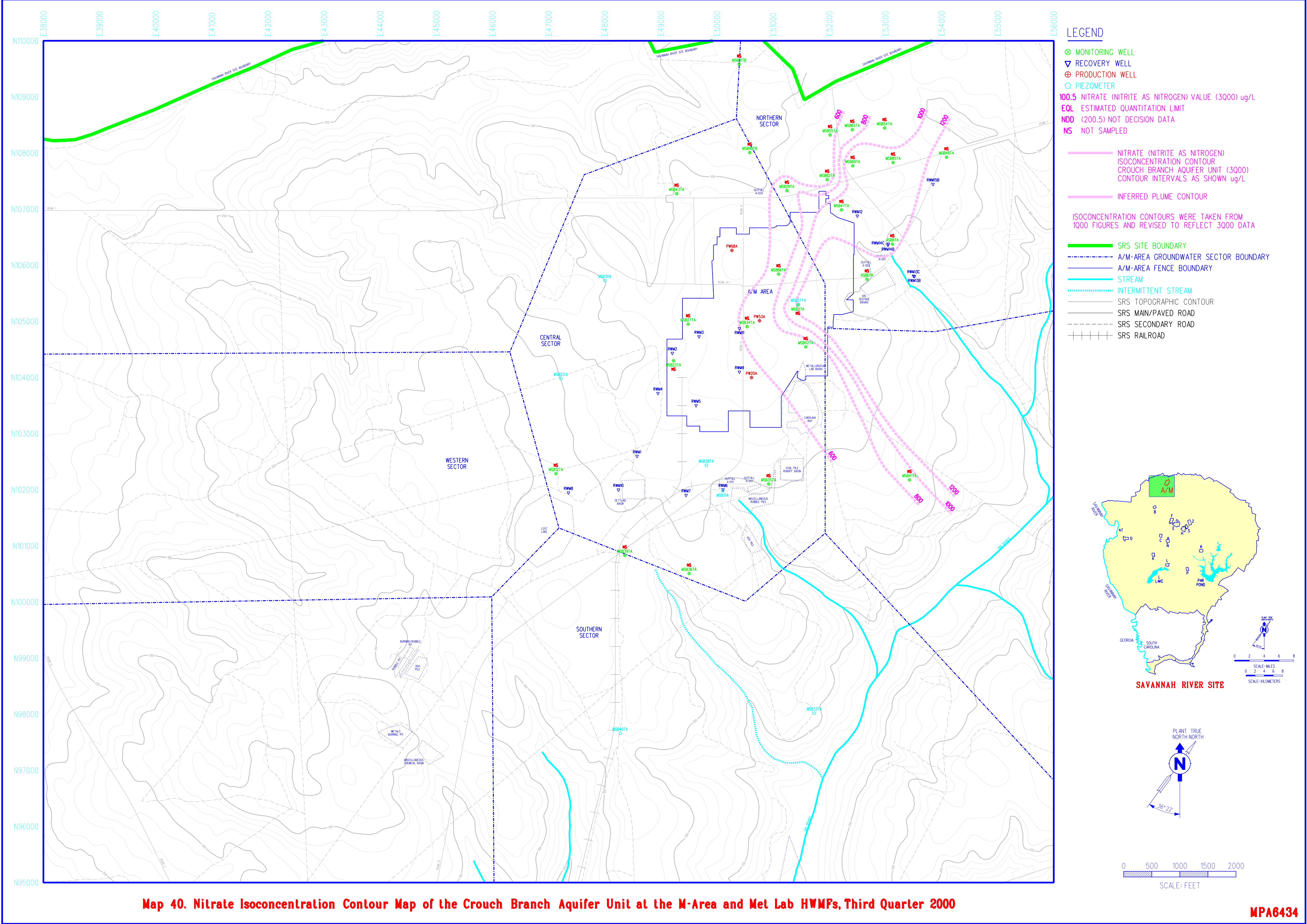


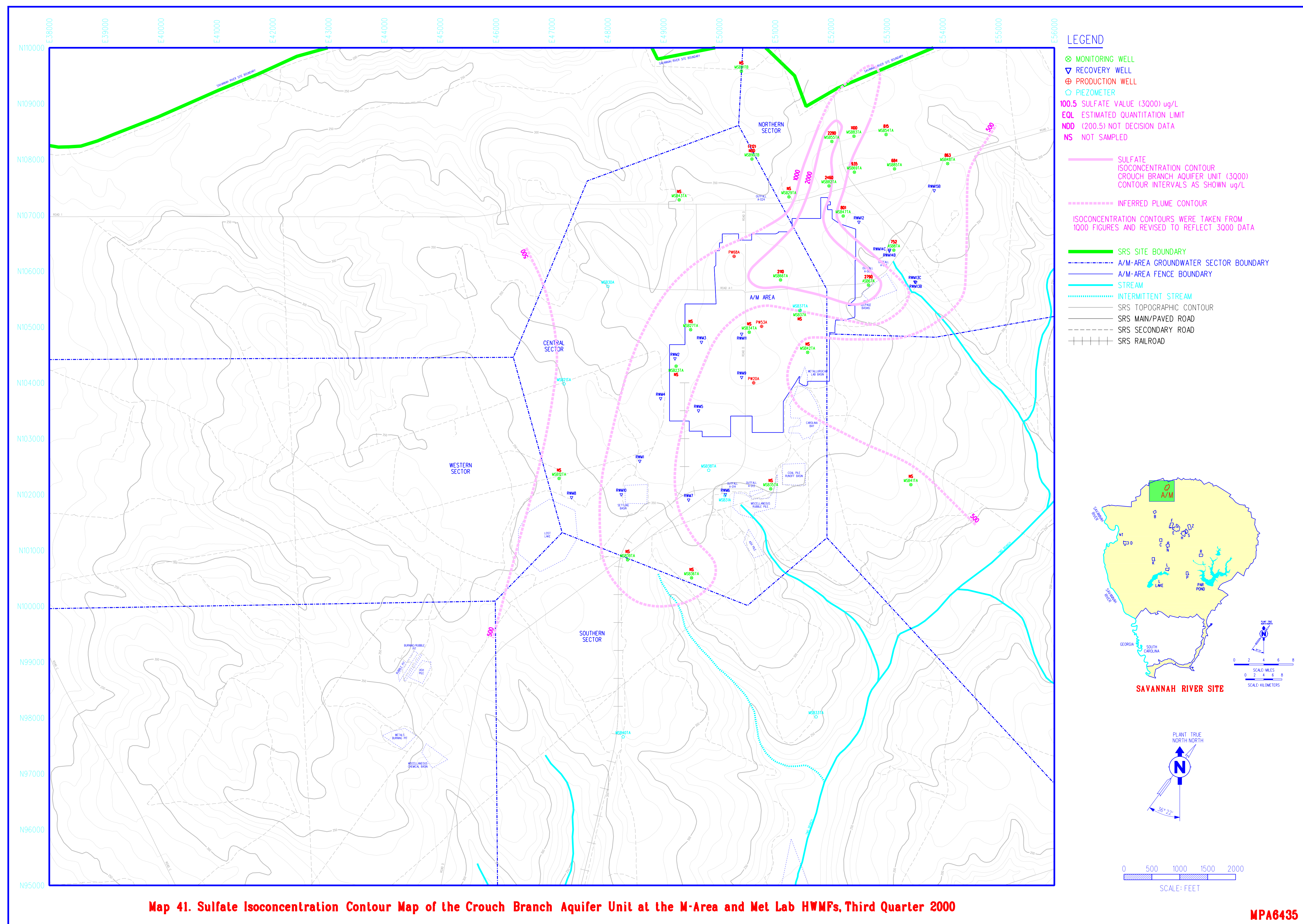












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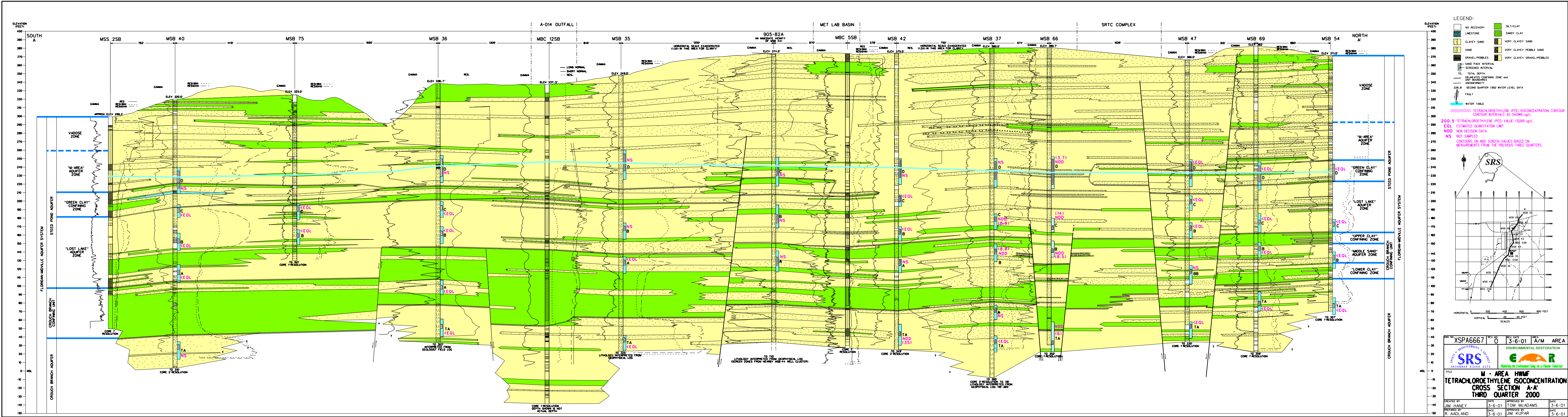


Figure 42.
Tetrachloroethylene Isoconcentration Cross-Section A-A' at the M-Area HWMF,
Third Quarter 2000

M-Area and Met Lab HWMFs

Third and Fourth Quarters 2000

WSRC-TR-2001-00098
Unclassified

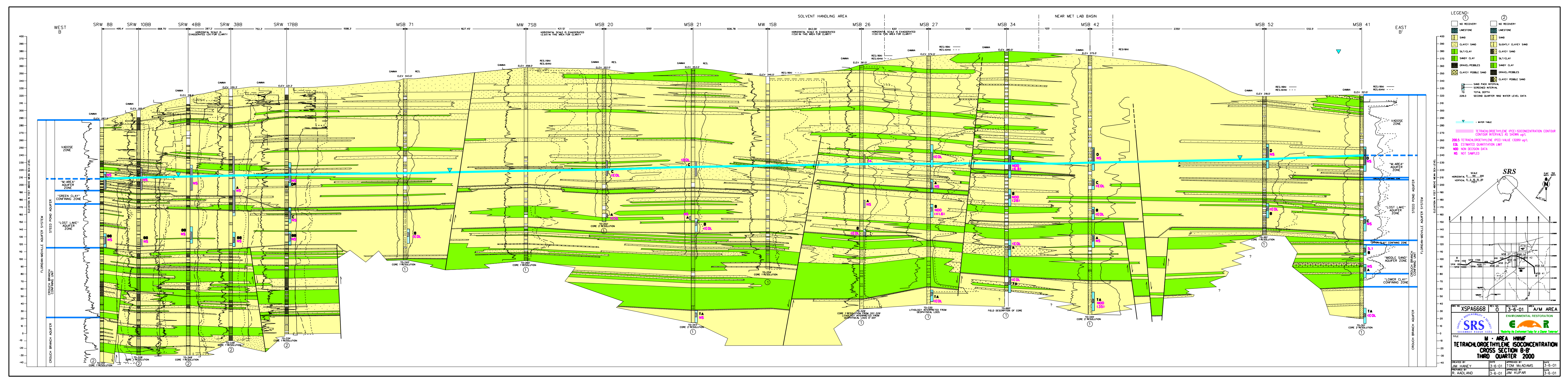


Figure 43.
Tetrachloroethylene Isoconcentration Cross-Section B-B' at the M-Area HWMF,
Third Quarter 2000

M-Area and Met Lab HWMFs

Third and Fourth Quarters 2000

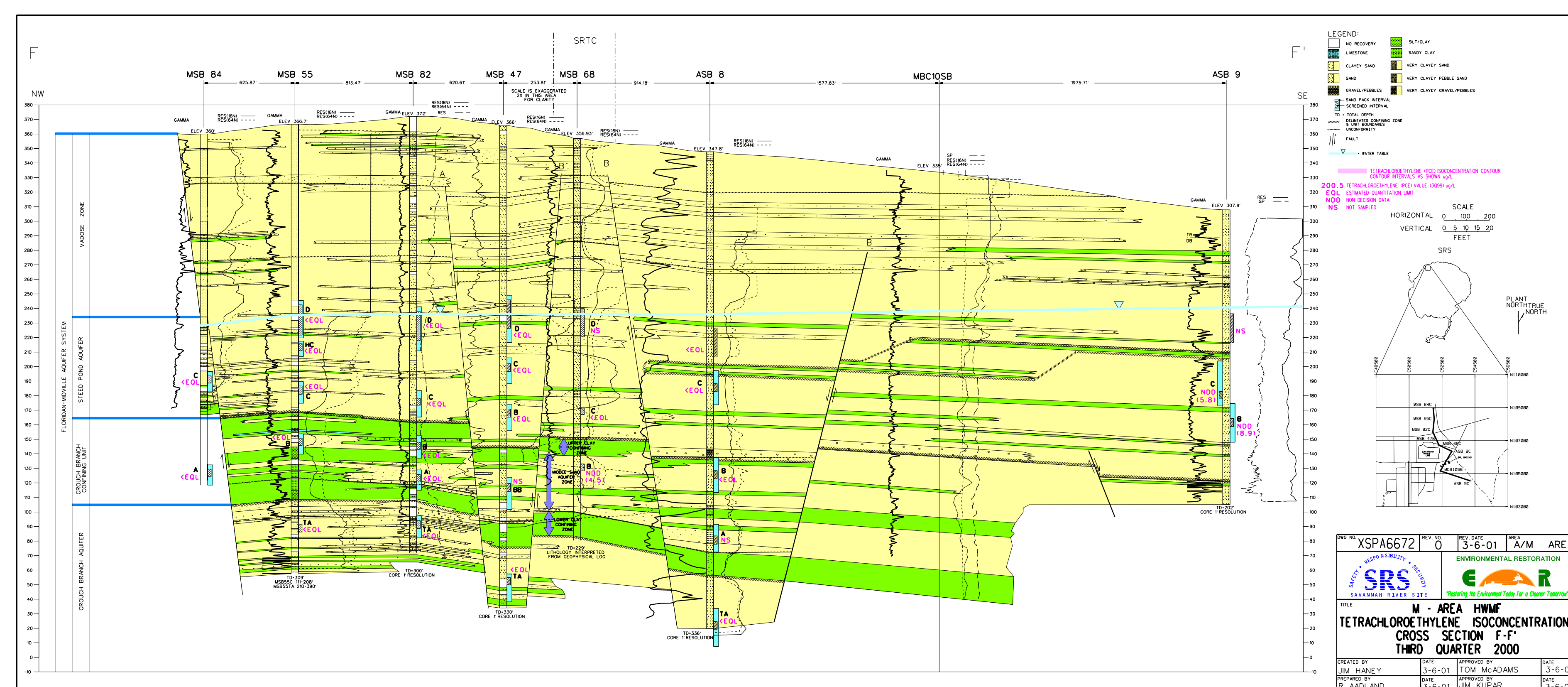


Figure 47.
Tetrachloroethylene Isoconcentration Cross-Section F-F' at the M-Area HWMF,
Third Quarter 2000

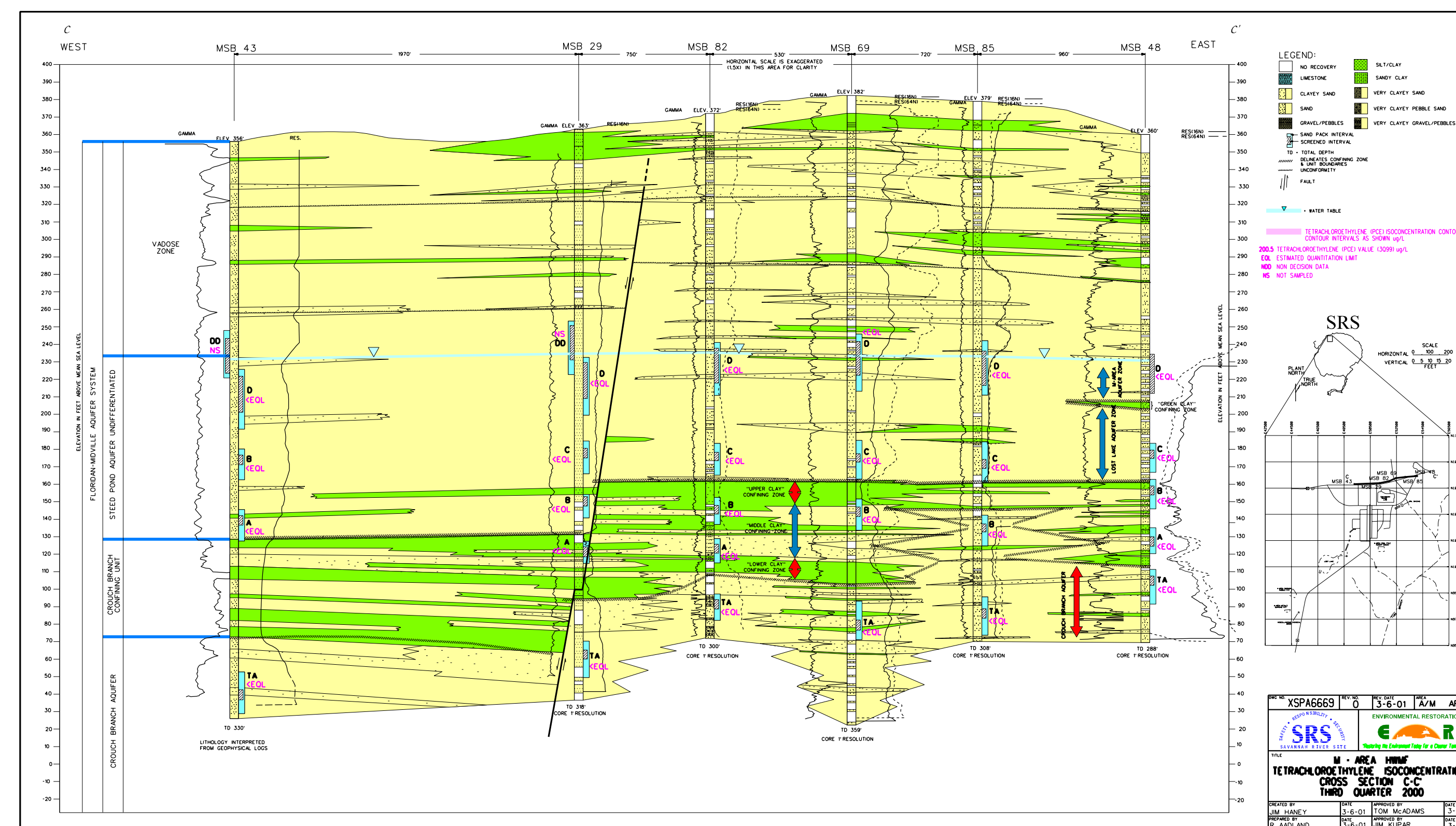
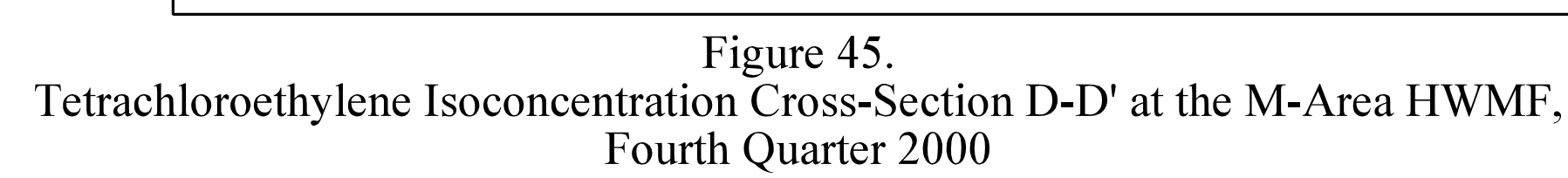


Figure 44.
Tetrachloroethylene Isoconcentration Cross-Section C-C' at the M-Area HWMF,
Third Quarter 2000

M-Area and Met Lab HWMFs

Third and Fourth Quarters 2000



WSRC-TR-2001-00098
Unclassified

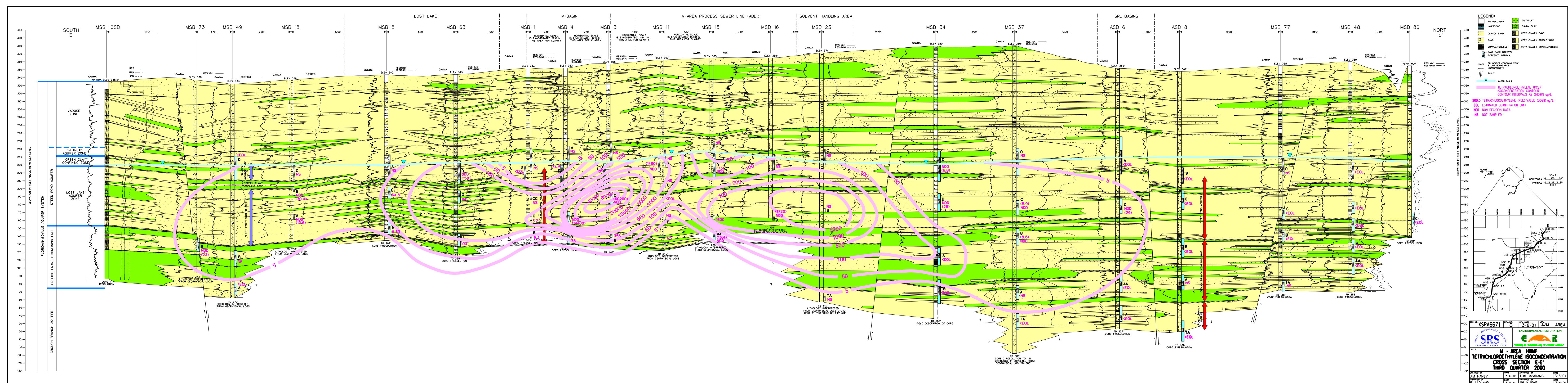


Figure 46.
Tetrachlorethylene Isoconcentration Cross-Section E-E' at the M-Area HWMF,
Third Quarter 2000

M-Area and Mel Lab HWMFs

Third and Fourth Quarters 2000

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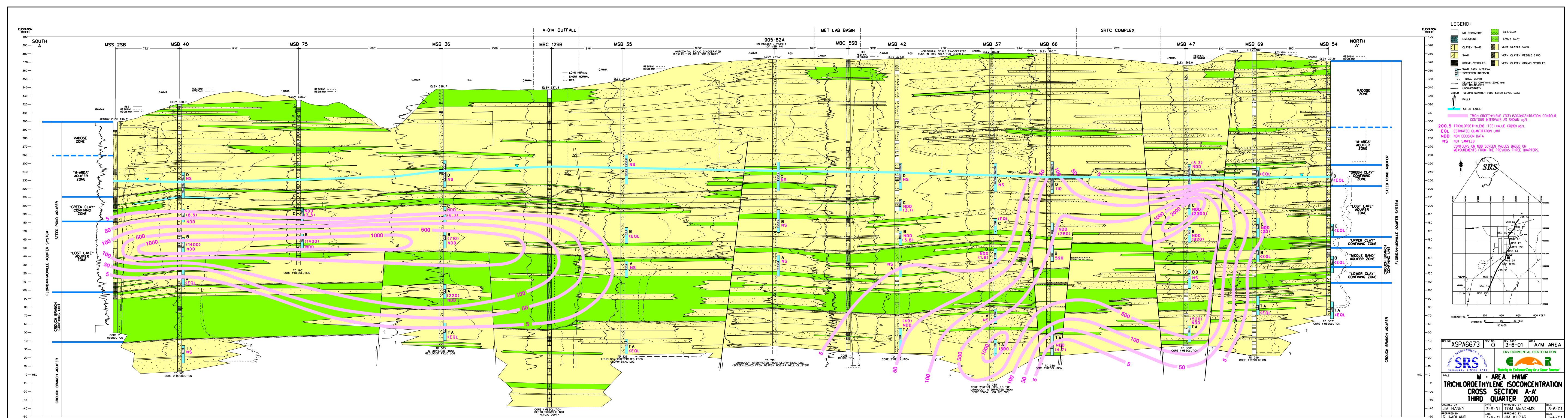


Figure 48.
Trichloroethylene Isoconcentration Cross-Section A-A' at the M-Area HWMF,
Third Quarter 2000

M-Area and Met Lab HWMFs

Third and Fourth Quarters 2000

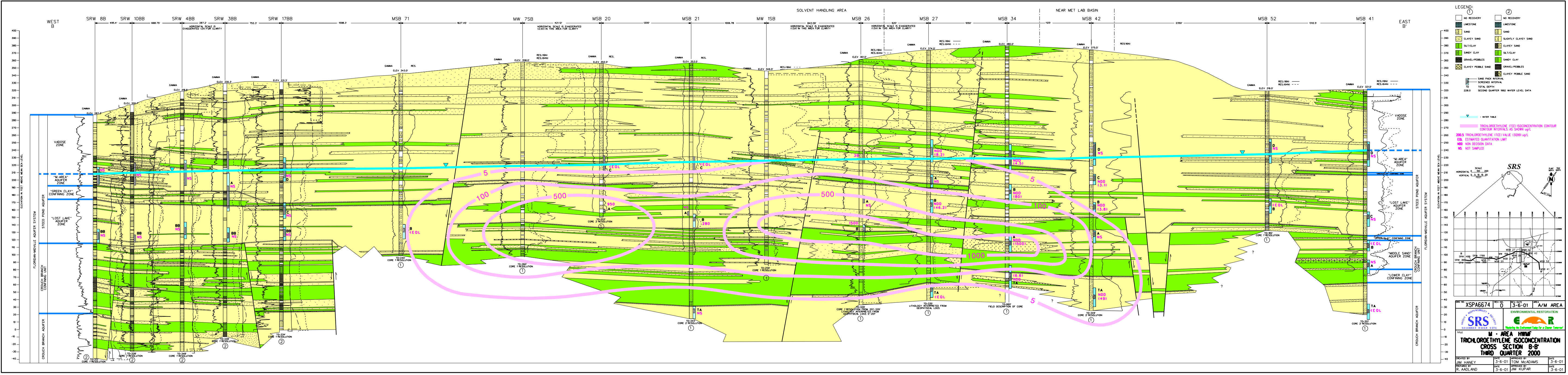
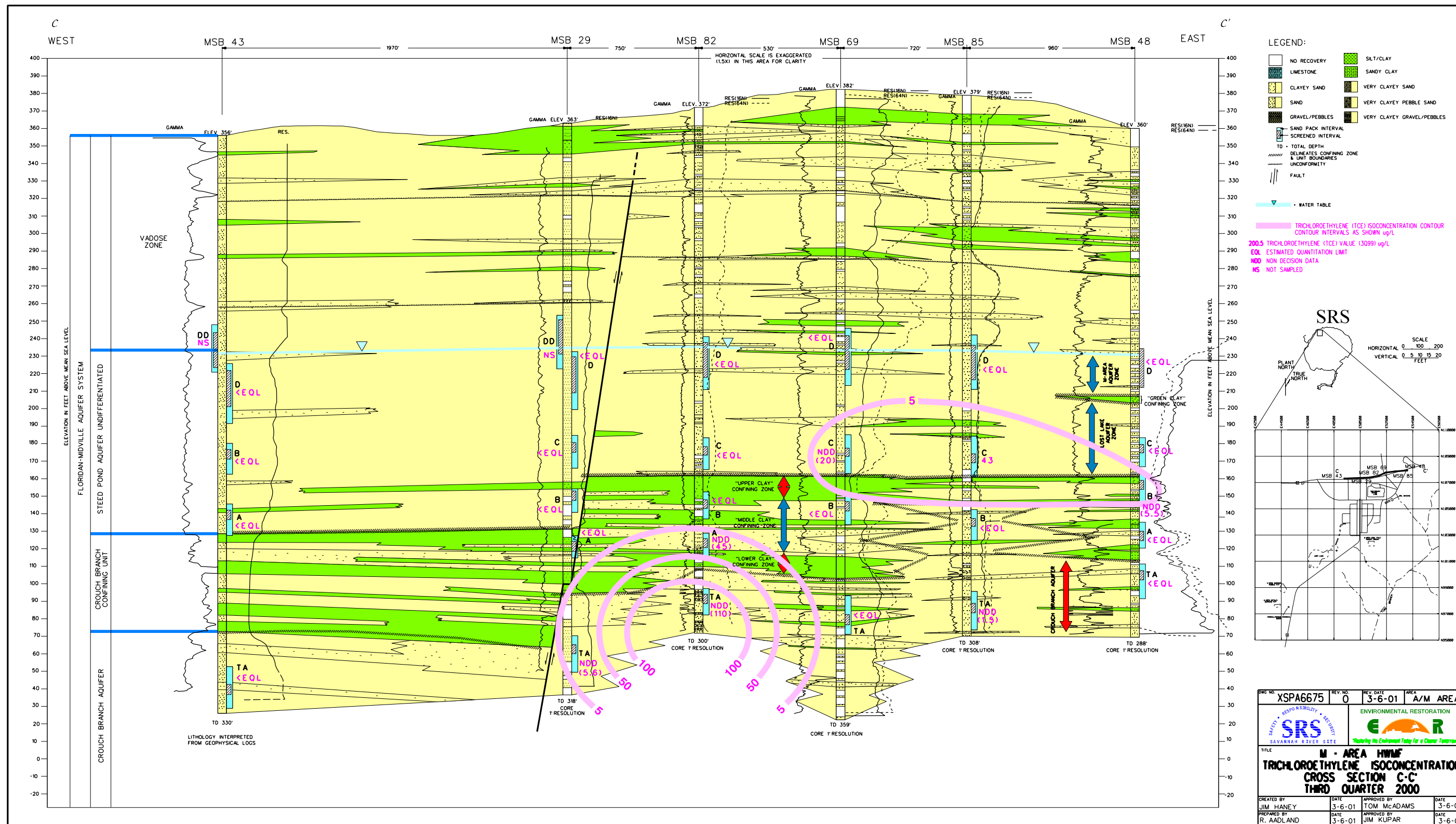


Figure 49.
Trichloroethylene Isoconcentration Cross-Section B-B' at the M-Area HWMF,
Third Quarter 2000

M-Area and Met Lab HWMFs

Third and Fourth Quarters 2000



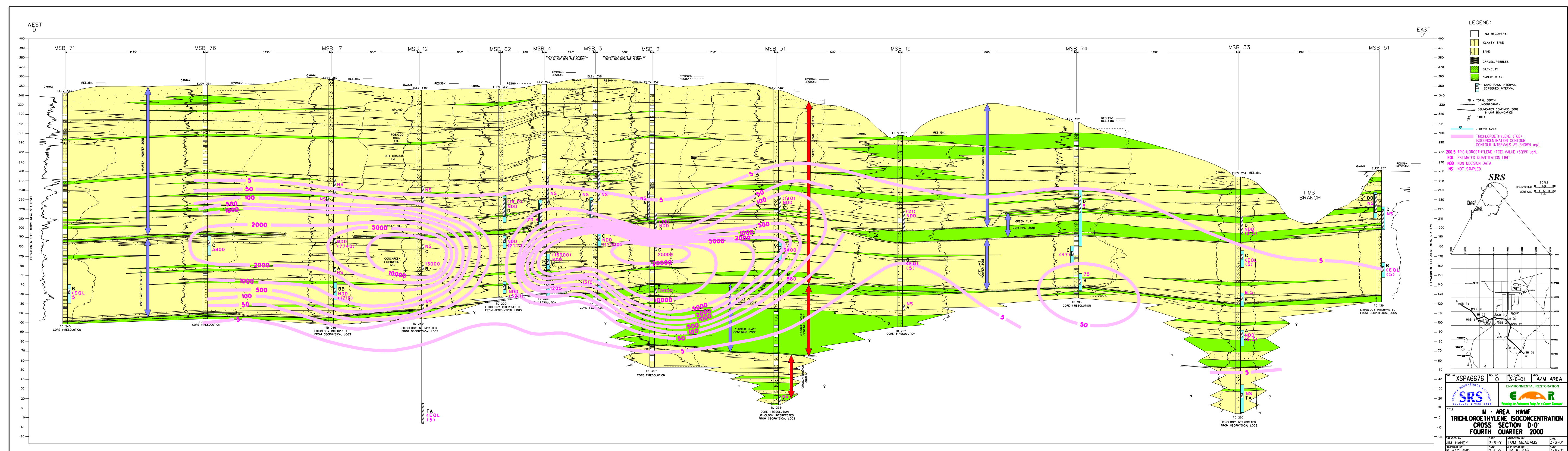
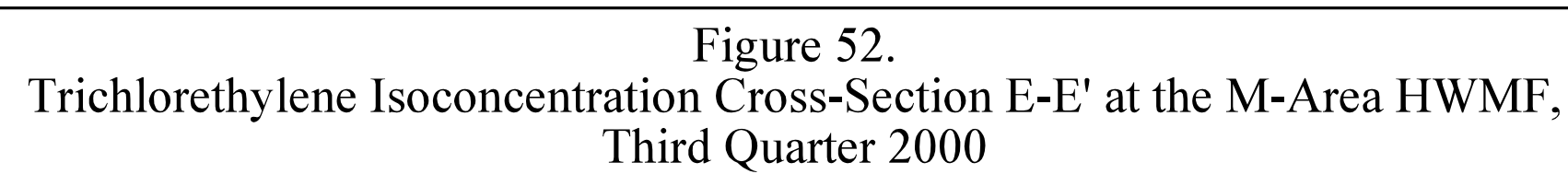


Figure 51.
Trichloroethylene Isoconcentration Cross-Section D-D' at the M-Area HWMF,
Fourth Quarter 2000
M-Area and Met Lab HWMFs *Third and Fourth Quarters 2000*



Third and Fourth Quarters 2000

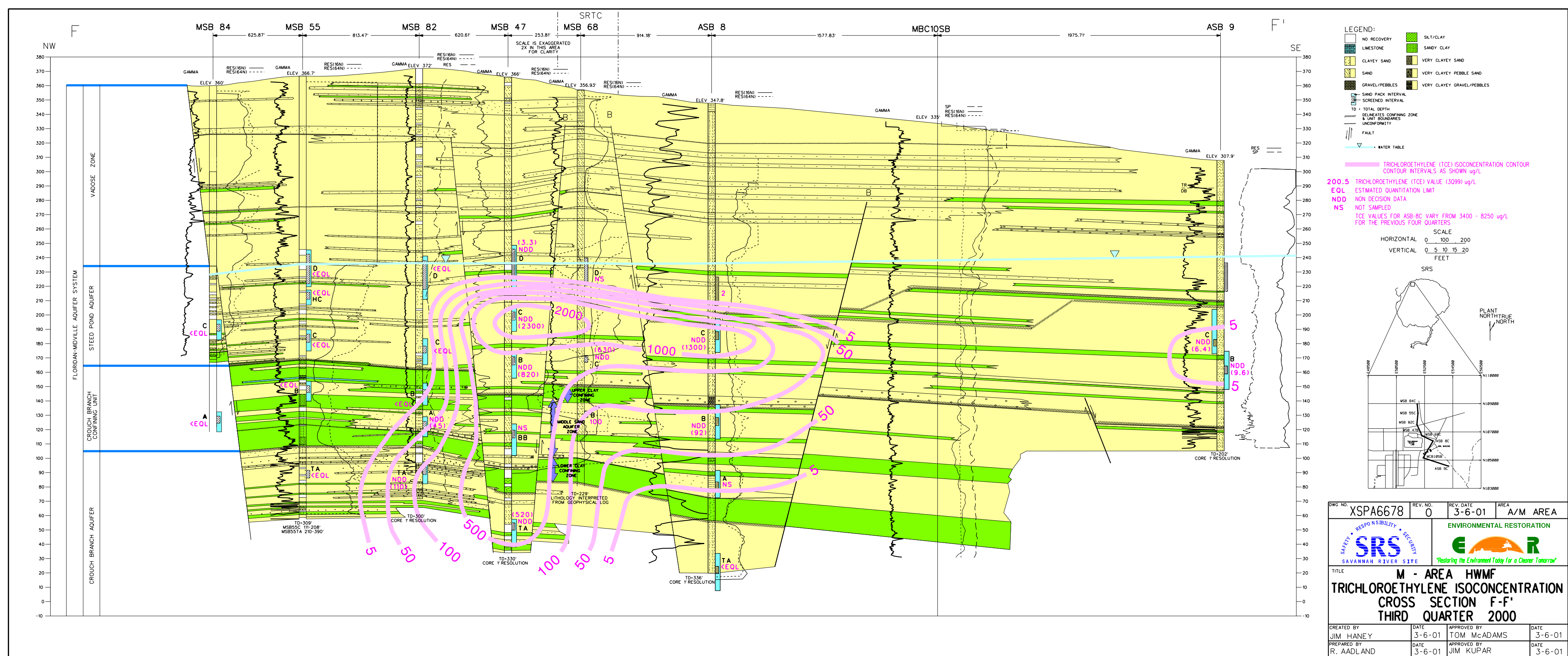


Figure 53.
Trichloroethylene Isoconcentration Cross-Section F-F' at the M-Area HWMF,
M-Area and Met Lab HWMFs
Third Quarter 2000
Third and Fourth Quarters 2000