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Quarterly Ground Water Remediation Program Technical Memorandum for November 2001

and

2001 Annual Summary Report on the Ground Water Remediation System

Prepared for:
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CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that I am authorized to submit this information.

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Introduction

The intent of this report is to:

- present the analytical results of the November 2001 ground water sampling event,
- show that the wells in the Groundwater Management Zone (GMZ) occur within the limits of the VOC plume,
- show that the direction of ground water flow within much of the GMZ has been reversed as a result of pumping at the purge wells,
- show that ground water elevations at all but two of the wells in the GMZ have been tracking consistently and predictably during remediation,
- show that the air stripper is effectively reducing total VOC concentrations of the extracted water to below detection limit levels (i.e., 5 ug/L),
- show that the presence of bedrock below sands bearing the affected ground water limits the vertical extent of the GMZ,
- present a statistical comparison of TCA and TCE concentrations against the Class I ground water standards for each investigative well, and to
- present a quantitative analysis of the statistical significance of potential trends in the TCA and TCE data for the investigative wells.

The wells within the GMZ were installed at various times during the period 1987 through 1992. Soil boring logs and well completion diagrams for these wells have been previously submitted to IEPA in the document entitled "Proposed Ground Water Management Zone for Keystone Steel & Wire Company Bartonville, Illinois, July 16, 1993," and in earlier documents.

A four purge-well pump and treat system was installed at the site during late 1993 and early 1994. The extracted VOC-bearing water is pumped to an air-stripping unit where the

concentration of total VOCs is reduced to below detection limit levels. The system began operation in February 1994. The installation of a fifth purge well has been approved, but it cannot be installed until completion of soil remediation at the location of the new well.

In August 2000, Keystone submitted to IEPA a document entitled "Ground Water Management Zone Status Report for Keystone Steel & Wire Co." as a modification request for the GMZ. The modification request was approved by IEPA in an October 31, 2000 letter (Log No. C-521-M-22) to Keystone. The modifications consisted of establishing a new list of investigative and base wells (see Table 1 for listing of current investigative and base wells) and a new boundary for the GMZ (Figure 1).

Additionally, this report is submitted in response to provision 1 of the April 6, 1994 IEPA letter to Keystone Steel & Wire Company (Keystone). Provision 1 requires Keystone to demonstrate that the effective limit of the corrective action process is at least as reaching as:

- ground water monitoring wells W-1D, W-2, W-3D, W-4D, T-1, T-2A, T-3, T-4A, T-4B, T-6A, T-6B, T-7B, T-9, T-10, T-11B, T-11C, T-13B, T-16, T-17, T-19C, T-20, and T-23 (as illustrated by Figure 1) and,

- the vertical extent of known contamination as defined by the approved clean-up objectives.

Evaluations of potentiometric surface maps, iso-concentration maps for total volatile organic compounds, TCA, and TCE, hydrographs, time-series plots of TCA and TCE concentration, influent-effluent plots for samples collected at the air stripper, and geologic cross-sections indicate that both of the elements of provision 1 of the IEPA letter have been demonstrated.

November 2001 Quarterly Sampling Event

This report includes all November 2001 quarterly ground water analytical data (Table 1) for the Keystone ground water remediation program, and the ground water elevation data for November 12, 2001 (Table 2). Piezometric surface maps for the February, May, August, and November ground water measurements are shown on Figures 2, 3, 4 and 5, respectively. Iso-concentration maps for trichloroethylene (TCE), 1,1,1-trichloroethane (TCA), and total volatile organic compounds (VOCs) are presented on Figures 6, 7, and 8, respectively. All sampling and analytical procedures were consistent with the sampling plan presented in the Keystone Ground Water Remediation Program report submitted June 15, 1992, and the Ground Water Management Zone (GMZ) request submitted July 16, 1993.

All analytical results were validated using SW 846 protocols and the data have been qualified accordingly on Table 1. A report from the project chemist discussing data quality is included in the Appendix. Also included in the Appendix are the laboratory data sheets documenting dates of analyses and analytical methods, and the chain of custody forms documenting date and time of sampling. A complete copy of the data quality control package is retained in our office and at the analytical laboratory.

The air-stripper remediation system pumped 238,720,045 gallons of affected water during 2001 and removed 0.04 tons of total volatile organics, well under the permitted-limits of 6.14 tons.

The piezometric surface map for February 12, 2001 (Figure 2) represents the typical ground water configuration when the air-stripper system is operating as designed. A large depressional area has been created in the area of purge wells A and B and the ground water flow directions within the ground water management zone are toward the purge wells (Figure 2).

The large-scale configurations of the contaminant plumes (Figures 6 through 8) are similar to the August 2001 sampling event, and are controlled within the ground water management zone.

Methods

As required by the April 1994 and April 11, 2001 approval letters from IEPA, the analytical data for the following monitoring wells located within the GMZ are evaluated herein: W-1D, W-2, W-3D, W-4D, T-1, T-2A, T-2B, T-3, T-4A, T-4B, T-6A, T-6B, T-7B, T-9, T-10, T-11B, T-11C, T-13B, T-16, T-17 and T-20. As a group, these wells are referred to as the investigative wells. Wells T-2B T-6C, T-7A and T-11A were added to the investigative well list by IEPA (April 11, 2001 IEPA letter) but cannot be statistically evaluated because all historical analytical results have been less than detection limit for VOCs.

For the purposes of this report, the evaluation of the adequacy of the corrective action system with respect to the limits of the approved GMZ is based on the horizontal and vertical extent of total VOCs in ground water, temporal changes of the water levels in the monitoring wells of concern, temporal changes in the spatial orientation of the piezometric surface as deduced from water level data, on the extent of removal of VOCs from ground water at the air stripper, and on the spatial orientation of sands that contain the affected water as illustrated in geological cross sections.

In order to evaluate the efficacy of the remediation program two statistical techniques were used. First, a statistical comparison was made of the annual mean concentration for TCA and TCE for each investigative well against the Class I ground water standard for the particular parameter at the 95 percent confidence level; and, second, trend analyses were performed to evaluate the statistical significance of any apparent trends. A significant difference was declared between the annual mean concentration of TCA and TCE for each well and the respective Class I standard if the upper 95 percent confidence limit (UCL95) for the annual mean exceeded the standard for the applicable parameter. Since an exceedance of the Class I standard is declared when the UCL 95 exceeds the standard (rather than the lower 95 percent confidence limit as is done more commonly), this test is very conservative and protective of human health and the environment. As per the procedure presented in the approved GMZ, if a statistically significant difference is declared between the UCL95 and the pertinent standard, subsequent quarterly data from the investigative well in question will be continue to be statistically evaluated on an annual basis until no significant difference is detected. If a statistically significant difference is not declared, the investigative well may be reclassified as a base well and will be considered, by definition, outside the contaminant plume. As also provided for in the approved GMZ, investigative wells

may be reclassified as base wells when contaminant levels are below Class I standards for four consecutive quarters.

Because the pump-and-treat remediation induces changes in the geometry of the contaminant plume, and in the orientation and magnitude of chemical and hydrologic gradients, both increasing and decreasing trends are likely to occur in the data for any given well owing to the external stress imposed on the hydrodynamic system by the remediation effort. Accordingly, as stated in the approved GMZ, an analysis of the statistical significance of apparent trends will be made, but the results will be used only in a qualitative way. The Mann-Kendall procedure was used to evaluate the statistical significance of apparent trends.

Discussion

November 2001 Analytical Results

The analytical results for the November 2001 sampling event (Table 1) are consistent with the results of the August 2001 event.

Extent of GMZ

Prior to initiation of remediation activities, all of the monitoring wells of concern were contained within the 10 ug/L isopleth of the Total Volatiles Concentration map of February 24-25, 1993, and the GMZ extended to the north as far as monitoring well T-23. The remediation system has reduced the size of the VOC plume and a new GMZ boundary (Figure 1) was established by IEPA in a letter dated October 31, 2000. Note that the 10 ug/L isopleth of the total volatiles concentration on the November 2001 map (Figure 8) is surrounded by wells at which VOCs were not detected above the detection limit of 5 ug/L (e.g., Figure 8, T-19C, T-5, T-22, T-8, T-18, and T-21R) with the exception of the sample from well T-19B, which contained 7 ug/L TCE..

Direction of Ground Water Flow Within GMZ

Before remediation, the piezometric surface map for the site indicated that the direction of ground water flow was overall toward the northeast and east. After the start of remediation in February 1994, the direction of ground water flow was reversed over much of the GMZ in

response to pumping at the four purge wells (Figures 2, 3, 4, and 5). Everywhere within the GMZ, the ground water flow directions are toward purge wells rather than toward the GMZ boundaries. A distinct depression in the piezometric surface has developed near the center of the contaminant plume, particularly in the area of purge wells PW-A and PW-B (Figure 2).

Ground Water Elevations in the GMZ

Hydrographs for all except two of the wells (W-2 and T-6A) within the GMZ exhibit very similar patterns (Figures 9 through 14). Except for W-2 and T-6A, all hydrographs exhibit major lows in September 1991 and October 1992 with an intervening high from March to May 1992. For most of the wells, the October 2000 water levels are the lowest during the period of February 1991 to date.

Perhaps most notable are the extreme high water levels that occurred between April and October 1993, reflecting historic amounts of rainfall during this period. Overall, water levels in most of the wells decreased from October 1993 (in some cases July 1993) through October 1994 and water levels in many wells dropped sharply after February 1994 in response to remediation startup. Water levels increased fairly uniformly from October 1994 through May/June 1995 and dropped, also uniformly, through October 1995, increased through August 1996, and decreased through November 1996. In 1997, 1998, and 1999 ground water levels increased generally through the early months of the year, peaking in May, and decreasing through the rest of the year. Unfortunately, the effect of ground water withdrawals by the purge wells on water levels in the wells of interest appears masked by these secular changes.

The hydrographs for W-2 and T-6A (Figures 9 and 12) are similar to one another, but are distinctly different than the hydrographs for the other wells of interest. These patterns suggest that the hydrologic unit within which the wells are screened is distinctly different than the unit sampled by the other wells of interest. Water levels in wells W-2 and T-6A are not affected greatly by seasonal variations in precipitation (compare Figures 9 and 12). These wells are shallow, completed in thin sandy zones contained in fine-grained alluvium, and are apparently affected more by surface-water bodies than by precipitation. The effect of the pump and treat system on these wells is masked by the influence of nearby ground-water recharge.

Efficacy of the Ground Water Remediation System

The effectiveness of the remediation system is evident from a comparison of concentration of total VOCs in samples from the air stripper influent water and effluent water (Figure 15). The results for all effluent samples since startup have been less than detection limit (5 ug/L). A total of 238,720,045 gallons of water were pumped during 2001, a decrease from the 301,951,200 gallons that were pumped during 2000. For the 2001 remediation year, 0.04 tons of volatile organics have been removed from the ground water, well under the permitted limit of 6.14 tons per year.

Effect of Bedrock on Vertical Extent of GMZ

Cross sections A-A' and B-B' of the 1993 GMZ Proposal clearly show that the sand units that contain the VOC-bearing ground water are bounded below by shale bedrock, which controls the vertical extent of contamination. The horizontal extent of contamination is being controlled by ground water withdrawal at the four purge wells, as documented by ground water flow directions (Figures 2 through 5), decreasing water levels (Figures 9 through 14), and the isopleths of total VOC concentration (Figure 8).

Statistical Comparison of TCA and TCE Concentrations Against Class I Standards

Available data for TCA and TCE for the investigative wells are presented in Table 5, and summaries of the statistical data are presented in Tables 3 and 4.

The Class I ground water standard (200 ug/L) for TCA was exceeded in the samples from wells T-4B and T-9 (Table 3). The UCL95 for TCA data from wells T-2A, T-3, T-6A, T-16, T-17 and W-1D did not exceed the Class I limit. All of the TCA data were at or below the detection limit for samples from the following wells: T-1, T-2B, T-4A, T-6B, T-6C, T-7A, T-7B, T-10, T-11A, T-11B, T-11C, T-13B, T-20, W-2, W-3D, and W-4D.

Exceedances of the Class I ground water limit for TCE of 5 ug/L are noted for data from all investigative wells except T-2B, T-6A, T-6C, T-7A, T-11A and W-2.

Quantitative Trend Analyses

Time-series plots of the available VOC data are presented in Figures 16 through 42. The data for each investigative well were analyzed for statistically significant trends using the Mann-Kendall technique to evaluate the statistical significance of the slope of the trend line. The raw data were first evaluated for seasonality using the Kruskal-Wallis test. Because seasonality was not detected in any of the data sets at a statistically significant level, the unadjusted raw data were used in the Mann-Kendall testing. A statistically significant trend line was taken as evidence of a statistically significant trend in the data. The statistical results are summarized in Table 4.

All TCE and TCA data for each well were used in evaluating the statistical significance of trends for the investigative wells. This was necessary because performing such evaluations of trend on only four quarterly measurements is not valid. The data points for TCE suggest potential decreasing trends for wells T-1, T-2A, T-3, T-4A, T-6B, T-7B, T-10, T-11B, T-11C, T-13B, T-16, T-17, W-1D, W-3D, and W-4D, all of which are statistically significant except wells T-10, T-13B and W-1D (Table 4). Potential increasing trends for TCE are indicated for wells T-4B, T-9 and T-20, of which T-9, and T-20 are statistically significant. TCE was not detected in wells T-2B, T-6A, T-6C, T-7A, T-11A and W-2. The data for TCA suggest potential decreasing trends for wells T-2A, T-3, T-6A, T-6B, T-9, T-16, T-17, W-1D, and W-3D, all of which are statistically significant except T-2A. Potential increasing trends for TCA are indicated for wells T-4A and T-4B, of which only T-4B is statistically significant. TCA was not detected in wells T-1, T-2B, T-6B, T-6C, T-7A, T-7B, T-10, T-11A, T-11B, T-11C, T-13B, T-20, W-2 and W-4D.

It should be noted that these potential trends may or may not reflect any long-term trends in that they will fluctuate as the geometry of the contaminant plumes vary in response to hydraulic stress imposed by the remediation effort.

Conclusions

1. The analytical data for the November 12-14, 2001 sampling event were consistent with the data for the previous quarterly sampling event. The data for base well T-19C, formerly classified as an investigative well, were below the detection limit of 5.0 ug/L, thus supporting the reclassification of this well from investigative to base-well status.

2. The November 2001 contaminant maps clearly show that the contaminant plumes are contained within the GMZ.

3. The November 12, 2001 piezometric map, like all previous piezometric maps submitted since initiation of the remediation, shows that ground water within the GMZ flows toward the purge wells.

4. Hydrographs for the investigative wells, except two, are strongly influenced by the remediation effort, although the effect on water levels is occluded by secular changes in water levels developed in response to changes in precipitation, and, therefore, recharge. Nevertheless, the decreasing trends in many of the investigative wells support strongly the contention that the wells are being affected hydrologically by the remediation system.

5. The effectiveness of the remediation system is clear from the analytical results for the influent-effluent samples and the overall decreasing trends at most of the investigative wells.

6. The Class I ground water standard for TCA (200 ug/L) was exceeded in the samples from wells T-4 and T-9 only. All other results for TCA were either less than the standard or less than detection limit. The Class I ground water limit for TCE (5 ug/L) was exceeded in samples from all investigative wells except T-2B, T-6A, T-6C, T-7A, T-11A and W-2. All wells that yielded samples that exceeded Class I ground water limits for TCA and/or TCE are contained within the GMZ.

7. Because long- and short-term trends in the concentration of TCA and TCE are strongly influenced by the remediation process, trend analysis is of limited utility, except for wells located at the margin of the plume. The analytical data suggest statistically significant decreasing trends for TCE at investigative wells T-1, T-2A, T-3, T-4A, T-6B, T-7B, T-11B, T-11C, T-16, T-17, W-3D and W-4D, and statistically significant increasing trends at wells T-9 and T-20. The TCA data suggest statistically significant decreasing trends for wells T-3, T-6A, T-6B, T-9, T-16, T-17, W-1D and W-3D, and statistically significant increasing trend for well T-4B.

TABLE 1
GROUND WATER MONITORING RESULTS
GROUND WATER ASSESSMENT STUDY
November 12-14, 2001

INVESTIGATIVE WELLS

WELL NUMBER	W-1D[2]	W-2[2,3]	W-3D	W-4D[3]	T-1	T-2A	T-2B[2]	T-3	T-4A[2]
Temperature, field (°C)	14.0	18.0	12.0	14.0	15.0	16.0	15.0	15.0	18.0
pH, field	6.68	6.31	6.60	7.03	6.50	6.63	6.31	6.95	6.36
SpC (at 25° C) umho/cm	1210	1520	1960	1166	2640	1268	4440	1010	2350
VOLATILES (ug/L)									
1,1-Dichloroethane	<5	80	10	<5	<5	<5	<5	15	<5
1,1-Dichloroethylene	<5	5	26	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	<5	<5	23	13	37	<5	<5	47	<5
Tetrachloroethylene	<5	<5	<5	<5	<5	<5	<5	350	<5
1,1,1-Trichloroethane	10	<5	7	<5	<5	52	<5	44	<5
Trichloroethylene	190	<5	130	60	240	130	<5	94	57

INVESTIGATIVE WELLS

WELL NUMBER	T-4B	T-6A	T-6A (Dup-4)	T-6B	T-6C	T-7A	T-7B	T-7B (Dup-5)	T-9
Temperature, field (°C)	17.0	16.0	16.0	15.0	15.0	24.0	18.0	18.0	17.0
pH, field	6.61	6.36	6.35	6.75	6.68	6.57	6.75	6.72	6.63
SpC (at 25° C) umho/cm	1568	1207	1211	1300	3130	2080	1950	1930	1535
VOLATILES (ug/L)									
1,1-Dichloroethane	20	12	13	<5	<5	<5	<5	<5	<5
1,1-Dichloroethylene	65	9	10	<5	<5	<5	<5	<5	5
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	20	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethylene	<5	<5	<5	<5	<5	<5	<5	<5	72
1,1,1-Trichloroethane	140	35	40	<5	<5	<5	<5	<5	23
Trichloroethylene	110	<5	<5	32	<5	<5	10	10	67

1. A less than sign (<) indicates that the compound was not detected at the specified detection limit.
2. 1,4-Dioxane detected in W-1D, W-2, T-2B and T-4A at 82ug/L, 500ug/l, 740ug/L and 250ug/L, respectively.
3. Vinyl chloride detected in W-2 and W-4D at 2ug/L and 3ug/L, respectively.

TABLE 1
GROUND WATER MONITORING RESULTS
GROUND WATER ASSESSMENT STUDY
November 12-14, 2001

INVESTIGATIVE WELLS

WELL NUMBER	T-9 (Dup-6)	T-10[1]	T-10 (Dup-7)[2]	T-11A	T-11B	T-11C	T-13B[2]	T-16	T-17
Temperature, field (°C)	17.0	19.0	19.0	16.0	16.1	16.0	17.5	15.0	17.0
pH, field	6.49	6.15	6.15	6.91	6.69	6.85	6.08	6.56	6.71
SpC (at 25° C) umho/cm	1537	5270	5270	1109	1361	1707	11,200	2320	1298
VOLATILES (ug/L)									
1,1-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethylene	6	9	9	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	<5	12	12	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	<5	190	190	<5	<5	<5	100	12	<5
Tetrachloroethylene	66	8	8	<5	<5	<5	<5	<5	20
1,1,1-Trichloroethane	21	<5	<5	<5	<5	<5	<5	6	<5
Trichloroethylene	63	170	170	<5	30	<5	36	290	6

INVESTIGATIVE WELLS

WELL NUMBER	T-20
Temperature, field (°C)	13.0
pH, field	6.51
SpC (at 25° C) umho/cm	3112
VOLATILES (ug/L)	
1,1-Dichloroethane	<5
1,1-Dichloroethylene	<5
trans-1,2-Dichloroethene	<5
cis-1,2-Dichloroethene	<5
Tetrachloroethylene	<5
1,1,1-Trichloroethane	<5
Trichloroethylene	11

1. A less than sign (<) indicates that the compound was not detected at the specified detection limit.
2. Vinyl chloride detected in T-10, T-10 Dup 7 and T-13B at 16ug/L, 17ug/L and 3ug/L, respectively.

TABLE 1
GROUND WATER MONITORING RESULTS
GROUND WATER ASSESSMENT STUDY
November 12-14, 2001

	BASE WELLS								
WELL NUMBER	T-5A	T-5B	T-5C	T-8	T-18	T-19B	T-19C	T-21R	T-22A
Temperature, field (°C)	15.0	15.0	15.0	17.0	14.0	13.0	14.0	21.0	13.0
pH, field	6.84	6.96	6.73	6.73	6.64	6.92	6.68	6.22	7.06
SpC (at 25° C) umho/cm	1135	1726	2000	2120	936	1181	3460	2340	665
VOLATILES (ug/L)									
1,1-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethylene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethylene	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<5	<5	<5	<5	<5	7	<5	<5	<5

	BASE WELLS	UPGRADIENT WELL	TRIP BLANKS	EQUIPMENT BLANKS			
WELL NUMBER	T-22B	T-15	TRIP BLANK	BLANK 118	BLANK 202	BLANK 304	BLANK 307
Temperature, field (°C)	14.0	15.0	NA	NA	NA	NA	NA
pH, field	6.93	7.26	NA	NA	NA	NA	NA
SpC (at 25° C) umho/cm	965	1099	NA	NA	NA	NA	NA
VOLATILES (ug/L)							
1,1-Dichloroethane	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethylene	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethylene	<5	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<5	<5	<5	<5	<5	<5	<5

1. A less than sign (<) indicates that the compound was nondetectable at the specified detection limit. NA=not analyzed.

TABLE 2
GROUND WATER ELEVATION DATA
Keystone Steel Wire Company
Bartonville, Illinois

WELL NUMBER	T.O.C. ELEVATION *(feet msl)*	WELL DEPTH *(feet)*	DEPTH TO WATER BELOW T.O.C. *(feet)*	ELEVATION OF WATER *(feet msl)*
DATE:			November 12, 2001	
T-1	453.57	49.23	19.24	434.33
T-2A	450.11	44.26	14.23	435.88
T-2B	450.25	66.90	14.36	435.89
T-3	450.57	60.70	15.18	435.39
T-4A	449.42	27.24	12.35	437.07
T-4B	449.44	79.30	14.57	434.87
T-5A	448.04	33.16	12.90	435.14
T-5B	448.27	66.08	12.86	435.41
T-5C	448.21	82.84	14.35	433.86
T-6A	451.67	19.63	9.20	442.47
T-6B	451.72	34.94	16.90	434.82
T-6C	452.00	55.16	17.02	434.98
T-7A	448.55	18.18	8.02	440.53
T-7B	448.56	81.75	15.08	433.48
T-8	451.00	31.61	12.82	438.18
T-9	459.85	35.47	21.87	437.98
T-10	456.60	40.62	19.53	437.07
T-11A	451.12	40.98	13.01	438.11
T-11B	451.39	82.66	16.92	434.47
T-11C	451.23	99.21	16.72	434.51
T-13A	464.25	27.64	19.43	444.82
T-13B	464.44	32.03	19.48	444.96
T-15	454.70	20.25	6.92	447.78
T-16	450.51	41.96	16.44	434.07
T-17	461.62	41.90	22.60	439.02
T-18	462.92	32.02	17.29	445.63
T-19A	448.74	11.84	13.82	434.92
T-19B	449.45	39.83	15.71	433.74
T-19C	448.46	70.43	14.84	433.62
T-20	455.97	47.44	21.58	434.39
T-21R	466.42	17.70	11.50	454.92
T-22A	447.97	68.56	11.32	436.65
T-22B	447.37	119.29	12.84	434.53
T-23	451.70	87.59	18.00	433.70
T-25A	452.65	39.58	18.52	434.13
T-25B	453.65	94.23	18.93	434.72
P-1A	450.86	34.80	16.51	434.35
P-1B	450.75	71.26	16.18	434.57
P-2	459.71	92.43	22.11	437.60
P-3	447.27	39.37	NA(2)	
P-4	447.23	68.41	NA(2)	

TABLE 2
GROUND WATER ELEVATION DATA
Keystone Steel Wire Company
Bartonville, Illinois

WELL NUMBER	T.O.C. ELEVATION *(feet msl)*	WELL DEPTH *(feet)*	DEPTH TO WATER BELOW T.O.C. *(feet)*	ELEVATION OF WATER *(feet msl)*
DATE:			November 12, 2001	
P-5	447.11	69.97	NA[2]	
P-6	446.90	67.14	NA[2]	
P-7	450.72	29.61	16.62	434.10
P-8	450.80	49.73	14.00	436.80
P-9	450.38	74.20	16.86	433.52
P-10	453.82	44.36	16.40	437.42
W-1D	448.82	50.28	12.36	436.46
W-2	451.79	12.24	10.74	441.05
W-3D	446.94	50.34	10.44	436.50
W-4	450.67	9.97	4.86	445.81
W-4D	449.44	50.29	12.18	437.26
W-5	464.02	22.26	19.05	444.97
W-5D	461.82	36.22	17.33	444.49
W-7	459.21	14.51	5.26	453.95
W-11	450.15	14.87	4.30	445.85
W-15	451.80	12.35	6.69	445.11
W-16	451.77	12.11	7.23	444.54
W-17	452.73	12.13	6.27	446.46
W-18	451.08	12.26	6.47	444.61
W-19	452.62	15.46	5.89	446.73
W-20	452.19	15.10	5.02	447.17
W-21	452.31	15.31	4.99	447.32
CL-1	450.13	19.20	N.C.	
CL-2	450.10	20.11	N.C.	
CL-3	450.27	23.63	N.C.	
CL-4	450.56	23.29	N.C.	
CL-5	453.74	27.04	N.C.	

1. NC = Not collected
2. NA = Well not accessable

Table 3
Statistical Comparisons to Class I Ground Water Standard

Well	Parameter	Annual Mean	Annual UCL 95	Class I Standard	Comments
T-1	TCA	---	---	200	all data LDL
	TCE	323	389	5	exceedance
T-2A	TCA	29	51	200	all data less than standard
	TCE	92	138	5	exceedance
T-3	TCA	48	54	200	all data less than standard
	TCE	95	108	5	exceedance
T-4A	TCA	---	---	200	all data LDL
	TCE	67	87	5	exceedance
T-4B	TCA	237	401	200	exceedance
	TCE	240	417	5	exceedance
T-6A	TCA	43	47	200	all data less than standard
	TCE	---	---	5	all data LDL
T-6B	TCA	---	---	200	all data LDL
	TCE	26	33	5	exceedance
T-7B	TCA	---	---	200	all data LDL
	TCE	12	14	5	exceedance
T-9	TCA	105	206	200	exceedance
	TCE	215	372	5	exceedance
T-10	TCA	---	---	200	all data LDL
	TCE	240	310	5	exceedance

Annual Mean: arithmetic mean of quarterly data; all values in ug/L
Annual UCL 95: upper confidence limit at 95% level based on quarterly data for 2001 results
Class I Limit: IEPA limit for Class I waters
exceedance: UCL 95 exceeds Class I limit; LDL: less than detection limit

Table 3
Statistical Comparisons to Class I Ground Water Standard

Well	Parameter	Annual Mean	Annual UCL 95	Class I Standard	Comments
T-11B	TCA	---	---	200	all data LDL
	TCE	36	41	5	exceedance
T-11C	TCA	---	---	200	all data LDL
	TCE	5.0	5.0	5	exceedance
T-13B	TCA	---	---	200	all data LDL
	TCE	54	68	5	exceedance
T16	TCA	5.8	6.9	200	all data less than standard
	TCE	265	265	5	exceedance
T-17	TCA	5.3	5.8	200	all data less than standard
	TCE	7.6	10	5	exceedance
T-20	TCA	---	---	200	all data LDL
	TCE	12	13	5	exceedance
W-1D	TCA	12	18	200	all data less than standard
	TCE	293	382	5	exceedance
W-2	TCA	---	---	200	last 23 data points are LDL
	TCE	---	---	5	all data LDL
W-3D	TCA	---	---	200	all data LDL
	TCE	89	139	5	exceedance
W-4D	TCA	---	---	200	all data LDL
	TCE	48	112	5	exceedance

Annual Mean: arithmetic mean of quarterly data; all values in ug/L
Annual UCL 95: upper confidence limit at 95% level based on quarterly data for 2001 results
Class I Limit: IEPA limit for Class I waters
exceedance: UCL 95 exceeds Class I limit; LDL: less than detection limit

Table 4
Results of Trend Analyses

Well	Parameter	Type of Trend	Test Statistic*	Trend Significant?
T-1	TCA	---	---	---
	TCE	decreasing	-4.821	yes
T-2A	TCA	decreasing	-1.891	no
	TCE	decreasing	-6.211	yes
T-3	TCA	decreasing	-7.484	yes
	TCE	decreasing	-8.392	yes
T-4A	TCA	increasing	0.868	no
	TCE	decreasing	-5.991	yes
T-4B	TCA	increasing	5.157	yes
	TCE	increasing	1.754	no
T-6A	TCA	decreasing	-8.901	yes
	TCE	---	---	---
T-6B	TCA	decreasing	-4.958	yes
	TCE	decreasing	-4.840	yes
T-7B	TCA	---	---	---
	TCE	decreasing	-8.975	yes
T-9	TCA	decreasing	-3.022	yes
	TCE	increasing	2.197	yes
T-10	TCA	---	---	---
	TCE	decreasing	-1.295	no

* The Mann-Kendall test was used to evaluate the statistical significance of trend at the 95% confidence level. The trend is considered statistically significant if the test statistic is less than -1.960, or is greater than 1.960.

Table 4
Results of Trend Analyses

Well	Parameter	Type of Trend	Test Statistic*	Trend Significant?
T-11B	TCA	---	---	---
	TCE	decreasing	-3.433	yes
T-11C	TCA	---	---	---
	TCE	decreasing	-5.415	yes
T-13B	TCA	---	---	---
	TCE	decreasing	-0.822	no
T16	TCA	decreasing	-3.871	yes
	TCE	decreasing	-4.830	yes
T-17	TCA	decreasing	-5.311	yes
	TCE	decreasing	-4.794	yes
T-20	TCA	---	---	---
	TCE	increasing	3.975	yes
W-1D	TCA	decreasing	-2.096	yes
	TCE	decreasing	-0.870	no
W-2	TCA	---	---	---
	TCE	---	---	---
W-3D	TCA	decreasing	-4.942	yes
	TCE	decreasing	-6.904	yes
W-4D	TCA	---	---	---
	TCE	decreasing	-4.444	yes

* The Mann-Kendall test was used to evaluate the statistical significance of trend at the 95% confidence level. The trend is considered statistically significant if the test statistic is less than -1.960, or is greater than 1.960.

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-1	11/28/89	<5.0	440
T-1	02/27/90	<5.0	400
T-1	05/22/90	<25	630
T-1	08/29/90	<25	590
T-1	11/28/90	<25	710
T-1	02/27/91	<25	840
T-1	05/29/91	<25	800
T-1	08/28/91	<25	630
T-1	11/21/91	<25	780
T-1	02/27/92	<25	910
T-1	05/28/92	<25	830
T-1	08/26/92	<25	630
T-1	11/17/92	<25	540
T-1	02/25/93	<25	900
T-1	05/26/93	<15	470
T-1	08/24/93	<42	1000
T-1	11/17/93	<25	860
T-1	02/22/94	<25	19
T-1	05/18/94	<25	930
T-1	08/17/94	<25	880
T-1	11/17/94	<10	760
T-1	02/14/95	<10	650
T-1	05/16/95	<10	730
T-1	08/15/95	<5.0	430
T-1	11/14/95	<25	460
T-1	02/14/96	<25	430
T-1	05/16/96	<5.0	350
T-1	08/15/96	<5.0	380
T-1	11/14/96	<5.0	410
T-1	02/12/97	<5.0	400
T-1	05/14/97	<5.0	320
T-1	08/21/97	<5.0	250
T-1	11/19/97	<5.0	365
T-1	02/17/98	5.0	280
T-1	05/20/98	<5.0	240
T-1	08/18/98	<5.0	250
T-1	11/18/98	<5.0	350
T-1	02/17/99	5.0	280
T-1	05/20/99	<5.0	240
T-1	08/18/99	<5.0	250
T-1	11/03/99	<5.0	250
T-1	02/22/00	<5.0	320
T-1	05/25/00	<5.0	140
T-1	08/22/00	<5.0	370
T-1	11/01/00	<5.0	370
T-1	02/13/01	<5.0	370
T-1	05/22/01	<5.0	340
T-1	08/21/01	<5.0	340
T-1	11/13/01	<5.0	240

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-2A	10/31/89	15	180
T-2A	11/27/89	13	230
T-2A	02/26/90	11.5	230
T-2A	05/22/90	15	210
T-2A	08/29/90	<10	180
T-2A	11/27/90	6.6	210
T-2A	02/26/91	5.0	230
T-2A	05/29/91	16	220
T-2A	08/27/91	<10	260
T-2A	11/21/91	<10	205
T-2A	02/26/92	<12.5	230
T-2A	05/27/92	<10	200
T-2A	08/27/92	10	240
T-2A	11/17/92	9.0	170
T-2A	02/25/93	11	200
T-2A	05/25/93	12	170
T-2A	08/24/93	13	220
T-2A	11/16/93	10	180
T-2A	02/22/94	24	320
T-2A	05/18/94	29	250
T-2A	08/17/94	26	150
T-2A	11/17/94	34	190
T-2A	02/14/95	24	200
T-2A	05/16/95	15	180
T-2A	08/15/95	14	120
T-2A	11/14/95	16	120
T-2A	02/14/96	18	110
T-2A	05/15/96	11	69
T-2A	08/15/96	8.6	5.8
T-2A	11/13/96	11	82
T-2A	02/12/97	6.7	57
T-2A	05/14/97	7.0	56
T-2A	08/20/97	5.0	43
T-2A	11/18/97	8.0	54
T-2A	02/17/98	7.4	44
T-2A	05/19/98	6.5	49
T-2A	08/18/98	6.1	42
T-2A	11/18/98	9.5	57
T-2A	02/17/99	7.4	44
T-2A	05/19/99	6.5	49
T-2A	08/18/99	6.1	42
T-2A	11/02/99	6.7	39
T-2A	02/22/00	5.9	41
T-2A	05/24/00	5.3	43
T-2A	08/22/00	5.7	51
T-2A	11/01/00	9.9	58
T-2A	02/13/01	9.0	47
T-2A	05/22/01	20	70
T-2A	08/21/01	36	120
T-2A	11/13/01	52.0	130

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-3	11/28/89	3200	1200
T-3	02/27/90	1700	1250
T-3	05/23/90	2700	1250
T-3	08/29/90	1800	990
T-3	12/06/90	1300	830
T-3	02/26/91	1600	1000
T-3	05/31/91	1600	995
T-3	08/27/91	790	730
T-3	11/20/91	640	460
T-3	02/26/92	340	380
T-3	05/27/92	200	300
T-3	08/27/92	380	400
T-3	11/17/92	530	360
T-3	02/24/93	800	390
T-3	05/26/93	740	400
T-3	08/24/93	1200	480
T-3	11/16/93	650	350
T-3	02/22/94	980	470
T-3	05/18/94	960	375
T-3	08/17/94	860	330
T-3	11/17/94	1100	380
T-3	02/14/95	1100	430
T-3	05/16/95	930	340
T-3	08/15/95	340	310
T-3	11/14/95	430	305
T-3	02/14/96	400	260
T-3	05/15/96	570	370
T-3	08/15/96	400	250
T-3	11/13/96	470	360
T-3	02/12/97	320	270
T-3	05/13/97	290	280
T-3	08/20/97	390	280
T-3	11/18/97	190	240
T-3	02/17/98	169	181
T-3	05/20/98	160	220
T-3	08/18/98	170	220
T-3	11/18/98	140	210
T-3	02/17/99	169	181
T-3	05/20/99	160	220
T-3	08/18/99	170	220
T-3	11/2/99	120	140
T-3	02/22/00	85	120
T-3	05/24/00	64	120
T-3	08/22/00	66	140
T-3	11/01/00	52	110
T-3	02/13/01	51	93
T-3	05/22/01	44	82
T-3	08/21/01	53	110
T-3	11/14/01	44	94
T-4A	02/27/90	<5.0	340
T-4A	05/22/90	<10	440
T-4A	08/28/90	<10	290
T-4A	11/28/90	<25	440
T-4A	02/26/91	<5.0	280
T-4A	05/29/91	<10	270
T-4A	08/28/91	<10	210
T-4A	11/20/91	<10	230

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-4A	02/26/92	<5.0	250
T-4A	05/27/92	<10	200
T-4A	08/27/92	<5.0	190
T-4A	11/18/92	<10	190
T-4A	02/24/93	<10	190
T-4A	05/26/93	<10	170
T-4A	08/24/93	<9.0	210
T-4A	11/16/93	<10	210
T-4A	02/23/94	<10	230
T-4A	05/18/94	<10	220
T-4A	08/17/94	<10	210
T-4A	11/17/94	<5.0	180
T-4A	02/14/95	<5.0	360
T-4A	05/16/95	<5.0	260
T-4A	08/15/95	<5.0	170
T-4A	11/14/95	<10	160
T-4A	02/14/96	10	170
T-4A	05/15/96	13	200
T-4A	08/15/96	19	190
T-4A	11/13/96	9.8	260
T-4A	02/13/97	6.0	210
T-4A	05/14/97	<5.0	170
T-4A	08/21/97	<5.0	140
T-4A	11/19/97	15	192
T-4A	02/17/98	14.1	177
T-4A	05/20/98	<5.0	170
T-4A	08/18/98	12	200
T-4A	11/18/98	12	200
T-4A	02/17/99	14.1	177
T-4A	05/20/99	<5.0	170
T-4A	08/18/99	12	200
T-4A	11/03/99	7.3	140
T-4A	02/23/00	5.9	140
T-4A	05/24/00	<5.0	110
T-4A	08/22/00	<5.0	140
T-4A	11/02/00	6.3	130
T-4A	02/13/01	<5.0	83
T-4A	05/22/01	<5.0	62
T-4A *	08/21/01	200	210
T-4A	11/13/01	<5.0	57
T-4B	02/27/90	<5.0	170
T-4B	05/22/90	<5.0	170
T-4B	08/28/90	<5.0	145
T-4B	11/28/90	<10	66
T-4B	02/26/91	<5.0	160
T-4B	05/29/91	<5.0	130
T-4B	08/28/91	<5.0	120
T-4B	11/20/91	<5.0	200
T-4B	02/26/92	<5.0	250
T-4B	05/27/92	<10	310
T-4B	08/27/92	<10	370
T-4B	11/18/92	<10	330
T-4B	02/24/93	<10	350
T-4B	05/26/93	<10	280
T-4B	08/24/93	<10	380
T-4B	11/16/93	<10	330

NOTE: data for duplicate samples were averaged
* Data suspect due to labeling error.

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-4B	02/23/94	<10	360
T-4B	05/18/94	<10	360
T-4B	08/17/94	<10	400
T-4B	11/17/94	<5.0	350
T-4B	02/14/95	<5.0	190
T-4B	05/16/95	<5.0	460
T-4B	08/15/95	<5.0	270
T-4B	11/14/95	<10	290
T-4B	02/14/96	<10	370
T-4B	05/15/96	<5.0	65
T-4B	08/15/96	<5.0	300
T-4B	11/13/96	<5.0	320
T-4B	02/13/97	<5.0	390
T-4B	05/13/97	<5.0	360
T-4B	08/21/97	<5.0	340
T-4B	11/18/97	15	192
T-4B	02/17/98	111	322
T-4B	05/20/98	72	380
T-4B	08/18/98	37	380
T-4B	11/18/98	120	310
T-4B	02/17/99	111	322
T-4B	05/19/99	72	380
T-4B	08/18/99	37	380
T-4B	11/03/99	80	270
T-4B	02/23/00	160	290
T-4B	05/24/00	170	160
T-4B	08/22/00	375	360
T-4B	11/02/00	285	305
T-4B	02/13/01	360	350
T-4B	05/22/01	210	260
T-4A *	08/21/01	<5.0	75
T-4B	11/13/01	140	110
T-6A	11/08/89	1300	<2.0
T-6A	11/27/89	1400	<5.0
T-6A	02/26/90	1400	<5.0
T-6A	05/22/90	920	<50
T-6A	08/29/90	760	<50
T-6A	11/27/90	925	<50
T-6A	02/26/91	850	<50
T-6A	05/29/91	760	<50
T-6A	08/28/91	780	440
T-6A	11/21/91	770	<50
T-6A	02/26/92	730	<25
T-6A	05/27/92	760	<50
T-6A	08/26/92	590	<50
T-6A	11/18/92	670	<50
T-6A	02/24/93	670	<25
T-6A	05/26/93	430	<25
T-6A	08/24/93	600	<25
T-6A	11/16/93	380	<25
T-6A	02/23/94	440	<15
T-6A	05/17/94	370	<15
T-6A	08/17/94	430	<15
T-6A	11/17/94	480	<10
T-6A	02/14/95	400	<5.0

NOTE: data for duplicate samples were averaged
* Data suspect due to labeling error.

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-6A	05/16/95	400	<5.0
T-6A	08/15/95	305	<5.0
T-6A	11/15/95	300	<10
T-6A	02/14/96	270	<10
T-6A	05/15/96	250	<5.0
T-6A	08/15/96	230	<5.0
T-6A	11/14/96	250	<5.0
T-6A	02/12/97	200	<5.0
T-6A	05/14/97	180	<5.0
T-6A	08/20/97	160	<5.0
T-6A	11/19/97	216	<5.0
T-6A	02/17/98	129	<5.0
T-6A	05/20/98	25	<5.0
T-6A	08/19/98	150	<5.0
T-6A	11/18/98	120	<5.0
T-6A	02/17/99	129	<5.0
T-6A	05/19/99	25	<5.0
T-6A	08/18/99	150	<5.0
T-6A	11/3/99	67	<5.0
T-6A	02/22/00	69	<5.0
T-6A	05/24/00	49	<5.0
T-6A	08/23/00	65	<5.0
T-6A	11/02/00	42	<5.0
T-6A	02/13/01	45	<5.0
T-6A	05/22/01	45	<5.0
T-6A	08/21/01	43	<5.0
T-6A	11/13/01	37.5	<5.0
T-6B	11/14/89	<2	82
T-6B	11/28/89	<5.0	110
T-6B	02/26/90	<5.0	120
T-6B	05/22/90	<5.0	110
T-6B	08/29/90	<5.0	100
T-6B	11/27/90	<5.0	74
T-6B	02/26/91	5.6	110
T-6B	05/29/91	5.8	78
T-6B	08/28/91	<5.0	78
T-6B	11/21/91	5.0	49
T-6B	02/26/92	7.0	85
T-6B	05/27/92	8.0	88
T-6B	08/26/92	9.0	91
T-6B	11/18/92	12	93
T-6B	02/24/93	19	87
T-6B	05/26/93	29	<5.0
T-6B	08/24/93	21.5	81.5
T-6B	11/16/93	20	82
T-6B	02/23/94	11	75
T-6B	05/17/94	5.5	68
T-6B	08/17/94	6.0	75
T-6B	11/17/94	5.0	77
T-6B	02/14/95	<5.0	64
T-6B	05/16/95	<5.0	54
T-6B	08/15/95	<5.0	32
T-6B	11/15/95	<5.0	30
T-6B	02/14/96	<5.0	41

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-6B	05/15/96	<5.0	57
T-6B	08/15/96	5.8	160
T-6B	11/14/96	7.1	200
T-6B	02/12/97	<5.0	120
T-6B	05/14/97	<5.0	100
T-6B	08/20/97	<5.0	89
T-6B	11/19/97	<5.0	81
T-6B	02/17/98	<5.0	38.8
T-6B	05/20/98	<5.0	75
T-6B	08/19/98	<5.0	49
T-6B	11/18/98	<5.0	42
T-6B	02/17/99	<5.0	38.8
T-6B	05/19/99	<5.0	75
T-6B	08/18/99	<5.0	49
T-6B	11/03/99	<5.0	18
T-6B	02/22/00	<5.0	23
T-6B	05/24/00	<5.0	20
T-6B	08/23/00	<5.0	20
T-6B	11/02/00	<5.0	17
T-6B	02/13/01	<5.0	21
T-6B	05/22/01	<5.0	26
T-6B	08/21/01	<5.0	31
T-6B	11/13/01	<5.0	32
T-7B	02/28/90	<50	2500
T-7B	05/23/90	<100	2400
T-7B	08/30/90	<100	2200
T-7B	11/28/90	<100	1900
T-7B	02/27/91	<100	2200
T-7B	05/29/91	<100	2200
T-7B	08/28/91	<100	2100
T-7B	11/20/91	<100	1850
T-7B	02/26/92	<100	1850
T-7B	05/27/92	<100	810
T-7B	08/27/92	<100	1900
T-7B	11/18/92	<100	2100
T-7B	02/25/93	<100	2000
T-7B	05/26/93	<90	1600
T-7B	08/24/93	<90	2200
T-7B	02/18/98	<5.0	32.4
T-7B	05/20/98	<5.0	32
T-7B	08/19/98	<5.0	24
T-7B	11/18/98	<5.0	21
T-7B	11/16/93	<90	1900
T-7B	02/22/94	<50	1650
T-7B	05/18/94	<25	715
T-7B	08/17/94	<15	440
T-7B	11/17/94	<5.0	400
T-7B	02/14/95	<5.0	260
T-7B	05/16/95	<5.0	257
T-7B	08/15/95	<5.0	140
T-7B	11/15/95	<5.0	79
T-7B	02/14/96	<5.0	110
T-7B	05/15/96	<5.0	80
T-7B	08/15/96	<5.0	47

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-7B	11/13/96	<5.0	95
T-7B	02/13/97	<5.0	78
T-7B	05/14/97	<5.0	62
T-7B	08/21/97	<5.0	50
T-7B	11/19/97	<5.0	46
T-7B	02/18/98	<5.0	56.1
T-7B	05/20/98	<5.0	50
T-7B	08/18/98	<5.0	46
T-7B	11/18/98	<5.0	54
T-7B	02/18/99	<5.0	32.4
T-7B	05/19/99	<5.0	32
T-7B	08/18/99	<5.0	24
T-7B	11/03/99	<5.0	21
T-7B	02/23/00	<5.0	17
T-7B	05/24/00	<5.0	15
T-7B	08/23/00	<5.0	16
T-7B	11/02/00	<5.0	16
T-7B	02/13/01	<5.0	12.5
T-7B	05/22/01	<5.0	13.5
T-7B	08/21/01	<5.0	13
T-7B	11/13/01	<5.0	10
T-9	02/28/90	2700	470
T-9	05/24/90	735	245
T-9	08/29/90	1400	170
T-9	11/28/90	635	215
T-9	02/27/91	620	170
T-9	05/29/91	1200	160
T-9	08/28/91	790	170
T-9	11/19/91	520	300
T-9	02/27/92	630	110
T-9	05/28/92	930	170
T-9	08/26/92	330	180
T-9	11/19/92	125	150
T-9	02/24/93	180	120
T-9	05/26/93	165	42
T-9	08/24/93	120	59.5
T-9	11/17/93	69	36
T-9	02/22/94	92	71
T-9	05/18/94	95	97
T-9	08/17/94	110	79
T-9	11/17/94	130	63
T-9	02/14/95	1300	350
T-9	05/16/95	1800	790
T-9	08/15/95	460	275
T-9	11/15/95	830	320
T-9	02/14/96	705	345
T-9	05/15/96	1200	500
T-9	08/15/96	530	300
T-9	11/14/96	320	215
T-9	02/12/97	890	425
T-9	05/13/97	445	285
T-9	08/20/97	470	250
T-9	11/19/97	283	259
T-9	02/18/98	565	157
T-9	05/20/98	610	280

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-9	08/19/98	580	305
T-9	11/18/98	170	250
T-9	02/18/99	565	157
T-9	05/20/99	610	280
T-9	08/19/99	580	305
T-9	11/03/99	150	325
T-9	02/22/00	205	495
T-9	05/24/00	225	530
T-9	08/23/00	230	535
T-9	11/01/00	220	415
T-9	02/13/01	200	370
T-9	05/23/01	155	270
T-9	08/21/01	44	155
T-9	11/13/01	22	65
T-10	02/28/90	<5.0	220
T-10	05/23/90	<10	250
T-10	08/29/90	<10	200
T-10	11/28/90	<25	340
T-10	02/27/91	<100	680
T-10	05/29/91	<25	380
T-10	08/27/91	<13	440
T-10	11/20/91	<25	635
T-10	02/26/92	<12.5	785
T-10	05/28/92	<50	840
T-10	08/26/92	<50	1095
T-10	11/18/92	<25	700
T-10	02/24/93	<25	980
T-10	05/26/93	<25	730
T-10	08/25/93	<42	1100
T-10	11/17/93	<25	930
T-10	02/23/94	<50	1100
T-10	05/18/94	<50	1200
T-10	08/17/94	<25	840
T-10	11/17/94	<10	730
T-10	02/14/95	<10	640
T-10	05/16/95	<10	580
T-10	08/15/95	<5.0	430
T-10	11/15/95	<10	400
T-10	02/14/96	<25	390
T-10	05/15/96	<10	410
T-10	08/15/96	<5.0	320
T-10	11/14/96	<5.0	460
T-10	02/12/97	<5.0	135
T-10	05/14/97	<5.0	470
T-10	08/20/97	<5.0	430
T-10	11/19/97	<5.0	535
T-10	02/18/98	<5.0	494
T-10	05/20/98	<5.0	770
T-10	08/18/98	<5.0	790
T-10	11/18/98	5.1	945
T-10	02/18/99	<5.0	291
T-10	05/20/99	<5.0	770
T-10	08/18/99	<5.0	790
T-10	11/03/99	<5.0	425

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-10	02/22/00	<5.0	395
T-10	05/25/00	<5.0	430
T-10	08/23/00	<5.0	460
T-10	11/02/00	<5.0	440
T-10	02/13/01	<5.0	310
T-10	05/22/01	<5.0	260
T-10	08/21/01	<5.0	220
T-10	11/14/01	<5.0	170
T-11B	02/26/90	<5.0	<5.0
T-11B	05/22/90	<5.0	86
T-11B	08/30/90	<5.0	140
T-11B	11/27/90	<25	240
T-11B	02/26/91	<5.0	200
T-11B	05/30/91	<25	260
T-11B	08/28/91	<5.0	260
T-11B	11/20/91	<5.0	380
T-11B	02/26/92	<5.0	290
T-11B	05/27/92	<5.0	135
T-11B	08/26/92	<5.0	62
T-11B	11/18/92	<5.0	40
T-11B	02/24/93	<5.0	33
T-11B	05/26/93	<5.0	35
T-11B	08/25/93	<5.0	35
T-11B	11/16/93	<5.0	36
T-11B	02/23/94	<5.0	46
T-11B	05/17/94	<5.0	61
T-11B	08/17/94	<5.0	69
T-11B	11/17/94	<5.0	93
T-11B	02/14/95	<5.0	93
T-11B	05/16/95	<5.0	170
T-11B	08/15/95	<5.0	120
T-11B	11/15/95	<5.0	190
T-11B	02/14/96	<5.0	155
T-11B	05/15/96	<5.0	160
T-11B	08/15/96	<5.0	86
T-11B	11/13/96	<5.0	140
T-11B	02/13/97	<5.0	135
T-11B	05/14/97	<5.0	66
T-11B	08/21/97	<5.0	60
T-11B	11/19/97	<5.0	73
T-11B	02/18/98	<5.0	56.1
T-11B	05/20/98	<5.0	50
T-11B	08/18/98	<5.0	46
T-11B	11/18/98	<5.0	54
T-11B	02/18/99	<5.0	56.1
T-11B	05/20/99	<5.0	50
T-11B	08/18/99	<5.0	46
T-11B	11/03/99	<5.0	38
T-11B	02/23/00	<5.0	47
T-11B	05/25/00	<5.0	56
T-11B	08/23/00	<5.0	42
T-11B	11/02/00	<5.0	63
T-11B	02/13/01	<5.0	40
T-11B	05/23/01	<5.0	38
T-11B	08/21/01	<5.0	37
T-11B	11/13/01	<5.0	30
T-11C	02/26/90	<5.0	<5.0
T-11C	05/22/90	<5.0	18
T-11C	08/30/90	<5.0	21
T-11C	11/27/90	<5.0	55

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-11C	02/26/91	<5.0	31
T-11C	05/30/91	<5.0	40
T-11C	08/28/91	<5.0	29
T-11C	11/20/91	<5.0	28
T-11C	02/26/92	<5.0	41
T-11C	05/27/92	<5.0	22
T-11C	08/26/92	<5.0	23
T-11C	11/18/92	<5.0	41.5
T-11C	02/24/93	<5.0	39
T-11C	05/26/93	<5.0	44
T-11C	08/25/93	<5.0	33
T-11C	11/16/93	<5.0	47
T-11C	02/23/94	<5.0	35
T-11C	05/17/94	<5.0	45
T-11C	08/17/94	<5.0	37
T-11C	11/17/94	<5.0	23
T-11C	02/14/95	<5.0	28
T-11C	05/16/95	<5.0	57
T-11C	08/15/95	<5.0	35
T-11C	11/15/95	<5.0	33
T-11C	02/14/96	<5.0	24
T-11C	05/15/96	<5.0	25
T-11C	08/15/96	<5.0	20
T-11C	11/13/96	<5.0	27
T-11C	02/13/97	<5.0	20
T-11C	05/14/97	<5.0	15
T-11C	08/21/97	<5.0	31
T-11C	11/19/97	<5.0	12
T-11C	02/18/98	<5.0	8.0
T-11C	05/20/98	<5.0	7.9
T-11C	08/18/98	<5.0	8.1
T-11C	11/18/98	<5.0	8.3
T-11C	02/18/99	<5.0	8.0
T-11C	05/20/99	<5.0	7.9
T-11C	08/19/99	<5.0	8.1
T-11C	11/03/99	<5.0	7.2
T-11C	02/23/00	<5.0	5.4
T-11C	05/25/00	<5.0	<5.0
T-11C	08/23/00	<5.0	<5.0
T-11C	11/02/00	<5.0	6.0
T-11C	02/13/01	N.S.	N.S.
T-11C	05/23/01	<5.0	5.0
T-11C	08/21/01	<5.0	<5.0
T-11C	11/13/01	<5.0	<5.0
T-13B	02/28/90	<5.0	46
T-13B	05/23/90	<10	37
T-13B	08/28/90	<5.0	36
T-13B	11/28/90	<10	54
T-13B	02/27/91	36	52
T-13B	05/29/91	<50	310
T-13B	08/28/91	<10	64
T-13B	11/19/91	<12.5	73
T-13B	02/26/92	<5.0	57
T-13B	05/28/92	<10	56
T-13B	08/26/92	<10	47
T-13B	11/17/92	<10	64
T-13B	02/24/93	<10	60
T-13B	05/26/93	<10	67
T-13B	08/24/93	<9.0	72

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-13B	11/17/93	<9.0	55
T-13B	02/22/94	<5.0	65
T-13B	05/18/94	<10	72
T-13B	08/17/94	<5.0	41
T-13B	11/17/94	<5.0	60
T-13B	02/14/95	<5.0	52
T-13B	05/16/95	<5.0	67
T-13B	08/15/95	<5.0	56
T-13B	11/15/95	<5.0	53
T-13B	02/14/96	<5.0	64
T-13B	05/15/96	<5.0	61
T-13B	08/15/96	<5.0	18
T-13B	11/14/96	<5.0	68
T-13B	02/13/97	<5.0	67
T-13B	05/14/97	<5.0	62
T-13B	08/20/97	<5.0	44
T-13B	11/18/97	<5.0	65
T-13B	02/18/98	<5.0	55.8
T-13B	05/20/98	<5.0	65
T-13B	08/19/98	<5.0	67
T-13B	11/18/98	<5.0	67
T-13B	02/18/99	<5.0	55.8
T-13B	05/20/99	<5.0	65
T-13B	08/18/99	<5.0	67
T-13B	11/02/99	<5.0	61
T-13B	02/22/00	<5.0	48
T-13B	05/24/00	<5.0	52
T-13B	08/23/00	<5.0	65
T-13B	11/02/00	<5.0	65
T-13B	02/13/01	<5.0	62
T-13B	05/23/01	<5.0	62
T-13B	08/21/01	<5.0	54
T-13B	11/13/01	<5.0	36
T-16	11/28/89	16	1200
T-16	02/28/90	<50	880
T-16	05/24/90	<50	880
T-16	08/29/90	<50	1200
T-16	11/28/90	<50	1100
T-16	02/28/91	<50	1450
T-16	05/29/91	<50	1400
T-16	08/28/91	150	550
T-16	11/21/91	<50	850
T-16	02/27/92	<50	945
T-16	05/28/92	<25	645
T-16	08/26/92	<25	670
T-16	11/17/92	<25	690
T-16	02/25/93	<25	945
T-16	05/26/93	<25	495
T-16	08/24/93	<13	340
T-16	11/17/93	<25	580
T-16	02/22/94	<10	320
T-16	05/18/94	13	200
T-16	08/17/94	21	160
T-16	11/17/94	10	200
T-16	02/14/95	13	200
T-16	05/16/95	33	140

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-16	08/15/95	22	100
T-16	11/15/95	22	120
T-16	02/14/96	27	120
T-16	05/16/96	13	67
T-16	08/15/96	<5	44
T-16	11/14/96	13	72
T-16	02/12/97	6.4	52
T-16	05/14/97	<5.0	28
T-16	08/21/97	12	57
T-16	11/19/97	19	84
T-16	02/17/98	16.3	67.4
T-16	05/20/98	21	70
T-16	08/18/98	18	60
T-16	11/18/98	13	140
T-16	02/17/99	16.3	67.4
T-16	05/20/99	21	70
T-16	08/18/99	18	60
T-16	11/03/99	9.6	130
T-16	02/22/00	7.5	120
T-16	05/25/00	5.4	91
T-16	08/22/00	7.0	160
T-16	11/01/00	6.7	210
T-16	02/13/01	7.0	250
T-16	05/22/01	<5.0	260
T-16	08/21/01	<5.0	260
T-16	11/13/01	6	290
T-17	05/30/91	135	34
T-17	08/28/91	75	43
T-17	11/19/91	24	19
T-17	02/27/92	13	16
T-17	05/28/92	9.0	10
T-17	08/26/92	7.0	13
T-17	11/18/92	6.0	10
T-17	02/24/93	<5.0	7.0
T-17	05/25/93	370	88
T-17	08/24/93	1500	220
T-17	11/16/93	2200	340
T-17	02/22/94	2100	375
T-17	05/18/94	495	157
T-17	08/17/94	310	120
T-17	11/17/94	220	99
T-17	02/14/95	165	85.5
T-17	05/16/95	120	68
T-17	08/15/95	75	45
T-17	11/15/95	105	50.5
T-17	02/14/96	100	56
T-17	05/15/96	76	45
T-17	08/15/96	50	32
T-17	11/14/96	49	36
T-17	02/12/97	42	33
T-17	05/13/97	36	35
T-17	08/21/97	27	28
T-17	11/19/97	19	84
T-17	02/18/98	23	23.5
T-17	05/19/98	14	22
T-17	08/19/98	9.0	10

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
T-17	11/18/98	7.8	12
T-17	02/18/99	23	23.5
T-17	05/19/99	14	22
T-17	08/19/99	9	10
T-17	11/03/99	6.6	11
T-17	02/22/00	6.2	11
T-17	05/24/00	9.3	15
T-17	08/22/00	7.7	15
T-17	11/01/00	5.7	11
T-17	02/13/01	6.0	10
T-17	05/22/01	<5.0	7.0
T-17	08/21/01	<5.0	8
T-17	11/13/01	<5.0	6
T-20	05/29/91	<5.0	<5.0
T-20	08/28/91	<5.0	<5.0
T-20	11/21/91	<5.0	<5.0
T-20	02/26/92	<5.0	5.0
T-20	05/28/92	<5.0	8.0
T-20	08/26/92	<5.0	7.0
T-20	11/17/92	<5.0	10
T-20	02/24/93	<5.0	15
T-20	05/26/93	<5.0	<5.0
T-20	08/24/93	<5.0	9.0
T-20	11/16/93	<5.0	10
T-20	02/22/94	<5.0	10
T-20	05/18/94	<5.0	13
T-20	08/17/94	<5.0	7.0
T-20	11/17/94	<5.0	7.0
T-20	02/14/95	<5.0	10
T-20	05/16/95	<5.0	10
T-20	08/15/95	<5.0	9.5
T-20	11/15/95	<5.0	8.0
T-20	02/12/96	<5.0	12
T-20	05/16/96	<5.0	9.9
T-20	08/15/96	<5.0	7.9
T-20	11/14/96	<5.0	11
T-20	02/12/97	<5.0	8.9
T-20	05/14/97	<5.0	12
T-20	08/20/97	<5.0	20
T-20	11/19/97	<5.0	11
T-20	02/17/98	<5.0	9.6
T-20	05/20/98	<5.0	15
T-20	08/18/98	<5.0	13
T-20	11/18/98	<5.0	12
T-20	02/17/99	<5.0	9.6
T-20	05/20/99	<5.0	15
T-20	08/18/99	<5.0	13
T-20	11/03/99	<5.0	12
T-20	02/22/00	<5.0	11
T-20	05/25/00	<5.0	11
T-20	08/22/00	<5.0	10
T-20	11/01/00	<5.0	11
T-20	02/13/01	<5.0	11
T-20	05/22/01	<5.0	13
T-20	08/21/01	<5.0	11
T-20	11/13/01	<5.0	11
W-1D	02/17/88	<5.0	210
W-1D	05/25/88	<5.0	210
W-1D	11/28/89	<5.0	315

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
W-1D	02/27/90	<5.0	370
W-1D	05/23/90	<10	480
W-1D	08/28/90	<10	280
W-1D	11/28/90	<25	370
W-1D	02/27/91	<25	390
W-1D	02/27/91	<25	390
W-1D	05/29/91	<10	400
W-1D	08/27/91	<25	380
W-1D	11/21/91	<25	370
W-1D	02/26/92	<12.5	400
W-1D	05/27/92	10	270
W-1D	08/25/92	30	230
W-1D	11/17/92	58	280
W-1D	02/24/93	78	340
W-1D	05/25/93	76	280
W-1D	08/24/93	74	370
W-1D	11/16/93	61.5	380
W-1D	02/22/94	44	465
W-1D	05/18/94	30	470
W-1D	08/16/94	29	440
W-1D	11/17/94	26	440
W-1D	05/16/95	31.5	505
W-1D	08/15/95	63	415
W-1D	11/15/95	95	300
W-1D	02/14/96	<10	340
W-1D	05/14/96	75	280
W-1D	08/14/96	37	210
W-1D	11/13/96	52	330
W-1D	02/12/97	62	300
W-1D	05/13/97	48	310
W-1D	08/20/97	67	220
W-1D	11/18/97	57	296
W-1D	02/17/98	33.3	258
W-1D	05/19/98	36	310
W-1D	08/18/98	36	360
W-1D	11/18/98	18	500
W-1D	2/17/99	33.3	258
W-1D	05/19/99	36	310
W-1D	08/18/99	36	360
W-1D	11/02/99	11	370
W-1D	02/22/00	7.1	410
W-1D	05/24/00	6.6	420
W-1D	08/22/00	<5.0	350
W-1D	11/01/00	11	400
W-1D	02/13/01	14	340
W-1D	05/22/01	17	360
W-1D	08/21/01	<5.0	280
W-1D	11/14/01	10	190
W-2	02/17/88	690	7.0
W-2	05/26/88	700	6.0
W-2	11/27/89	150	<5.0
W-2	02/26/90	84	<5.0
W-2	05/22/90	89	<50
W-2	08/29/90	<50	<50
W-2	11/27/90	74	<50
W-2	02/26/91	<50	<50
W-2	05/29/91	<50	<50
W-2	08/27/91	<50	<50
W-2	11/21/91	<50	<50
W-2	02/26/92	<10	60
W-2	05/27/92	<50	<50
W-2	11/17/92	<10	<10

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
W-2	02/24/93	<10	<10
W-2	05/25/93	17	<10
W-2	08/24/93	<30	<30
W-2	11/16/93	<25	<25
W-2	02/22/94	28	<25
W-2	05/18/94	28	<25
W-2	08/16/94	<25	<25
W-2	11/17/94	14	<10
W-2	02/14/95	6.0	<5.0
W-2	05/16/95	<10	<10
W-2	08/15/95	<10	<10
W-2	11/15/95	<10	<10
W-2	02/14/96	<10	<10
W-2	05/15/96	<5.0	<5.0
W-2	08/14/96	<5.0	<5.0
W-2	11/13/96	<5.0	<5.0
W-2	02/12/97	<5.0	<5.0
W-2	05/13/97	<5.0	<5.0
W-2	08/21/97	<5.0	<5.0
W-2	11/18/97	<5.0	6.0
W-2	02/18/98	<5.0	<5.0
W-2	05/20/98	<5.0	<5.0
W-2	08/18/98	<5.0	<5.0
W-2	11/18/98	<5.0	<5.0
W-2	02/18/99	<5.0	5.0
W-2	05/19/99	<5.0	<5.0
W-2	08/18/99	<5.0	<5.0
W-2	11/02/99	<5.0	<5.0
W-2	02/22/00	<5.0	<5.0
W-2	05/24/00	<5.0	<5.0
W-2	08/22/00	<5.0	<5.0
W-2	11/01/00	<5.0	<5.0
W-2	02/13/01	<5.0	<5.0
W-2	05/22/01	<5.0	<5.0
W-2	08/21/01	<5.0	<5.0
W-2	11/13/01	<5.0	<5.0
W-3D	02/17/88	8	720
W-3D	05/25/88	12	785
W-3D	11/28/89	<5.0	570
W-3D	02/27/90	<5.0	500
W-3D	05/23/90	<25	540
W-3D	08/29/90	<25	440
W-3D	12/06/90	<25	490
W-3D	02/27/91	<25	590
W-3D	05/30/91	<25	390
W-3D	08/27/91	<25	450
W-3D	11/21/91	40	390
W-3D	02/26/92	61	440
W-3D	05/27/92	59	290
W-3D	08/25/92	100	330
W-3D	11/17/92	120	280
W-3D	02/24/93	120	330
W-3D	05/25/93	90	320
W-3D	08/24/93	76	360

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
W-3D	11/16/93	57	370
W-3D	02/22/94	91	380
W-3D	05/18/94	88	410
W-3D	08/16/94	53	385
W-3D	11/17/94	26	535
W-3D	02/14/95	14.5	530
W-3D	05/16/95	<10	550
W-3D	08/15/95	<5.0	445
W-3D	11/15/95	<10	320
W-3D	02/14/96	<10	310
W-3D	05/14/96	<5.0	185
W-3D	08/14/96	<5.0	86
W-3D	11/13/96	<5.0	76
W-3D	02/12/97	<5.0	102
W-3D	05/13/97	<5.0	109
W-3D	08/20/97	<5.0	102
W-3D	11/18/97	<5.0	72
W-3D	02/17/98	<5.0	79.4
W-3D	05/20/98	<5.0	78
W-3D	08/18/98	<5.0	68
W-3D	11/17/98	<5.0	78
W-3D	02/17/99	<5.0	79.4
W-3D	05/20/99	<5.0	78
W-3D	08/18/99	<5.0	68
W-3D	11/02/99	<5.0	50.5
W-3D	02/22/00	<5.0	40
W-3D	05/24/00	<5.0	54
W-3D	08/22/00	<5.0	30
W-3D	11/01/00	<5.0	47
W-3D	02/13/01	<5.0	43
W-3D	05/22/01	<5.0	62
W-3D	08/21/01	<5.0	120
W-3D	11/14/01	7	130
W-4D	02/17/88	<5.0	320
W-4D	05/25/88	<5.0	230
W-4D	11/28/89	5.0	470
W-4D	02/27/90	5.4	480
W-4D	05/23/90	<25	370
W-4D	08/29/90	<25	385
W-4D	12/06/90	<25	410
W-4D	02/28/91	<25	500
W-4D	05/31/91	<25	120
W-4D	08/27/91	<25	250
W-4D	11/20/91	<25	470
W-4D	02/26/92	<25	700
W-4D	05/27/92	<25	660
W-4D	08/25/92	<25	700
W-4D	11/17/92	<25	740
W-4D	02/24/93	<20	450
W-4D	05/25/93	<20	310
W-4D	08/24/93	<5.0	64
W-4D	11/16/93	5.0	110
W-4D	02/22/94	<10	300
W-4D	05/18/94	<10	360

NOTE: data for duplicate samples were averaged

Table 5
Summary of Analytical Data for Investigative Wells

Well Number	Date Sampled	1,1,1-Trichloro-ethane	Trichloro-ethylene
W-4D	08/16/94	11	380
W-4D	11/17/94	10	390
W-4D	02/14/95	8.5	415
W-4D	05/16/95	<5.0	48.5
W-4D	08/15/95	<5.0	6.6
W-4D	11/15/95	<25	440
W-4D	02/14/96	<25	400
W-4D	05/15/96	<5.0	110
W-4D	08/14/96	<5.0	110
W-4D	11/13/96	<5.0	70
W-4D	02/12/97	5.4	330
W-4D	05/13/97	6.0	280
W-4D	08/20/97	<5.0	50
W-4D	11/18/97	<5.0	213
W-4D	02/17/98	<5.0	118
W-4D	05/20/98	<5.0	16
W-4D	08/18/98	<5.0	26
W-4D	11/17/98	5.2	200
W-4D	02/17/99	<5.0	118
W-4D	05/19/99	<5.0	16.5
W-4D	08/18/99	<5.0	26
W-4D	11/02/99	5.1	150
W-4D	02/22/00	<5.0	120
W-4D	05/24/00	<5.0	120
W-4D	08/22/00	<5.0	135
W-4D	11/01/00	<5.0	160
W-4D	02/13/01	<5.0	120
W-4D	05/21/01	<5.0	<5.0
W-4D	08/20/01	<5.0	5.0
W-4D	11/12/01	<5.0	60

NOTE: data for duplicate samples were averaged

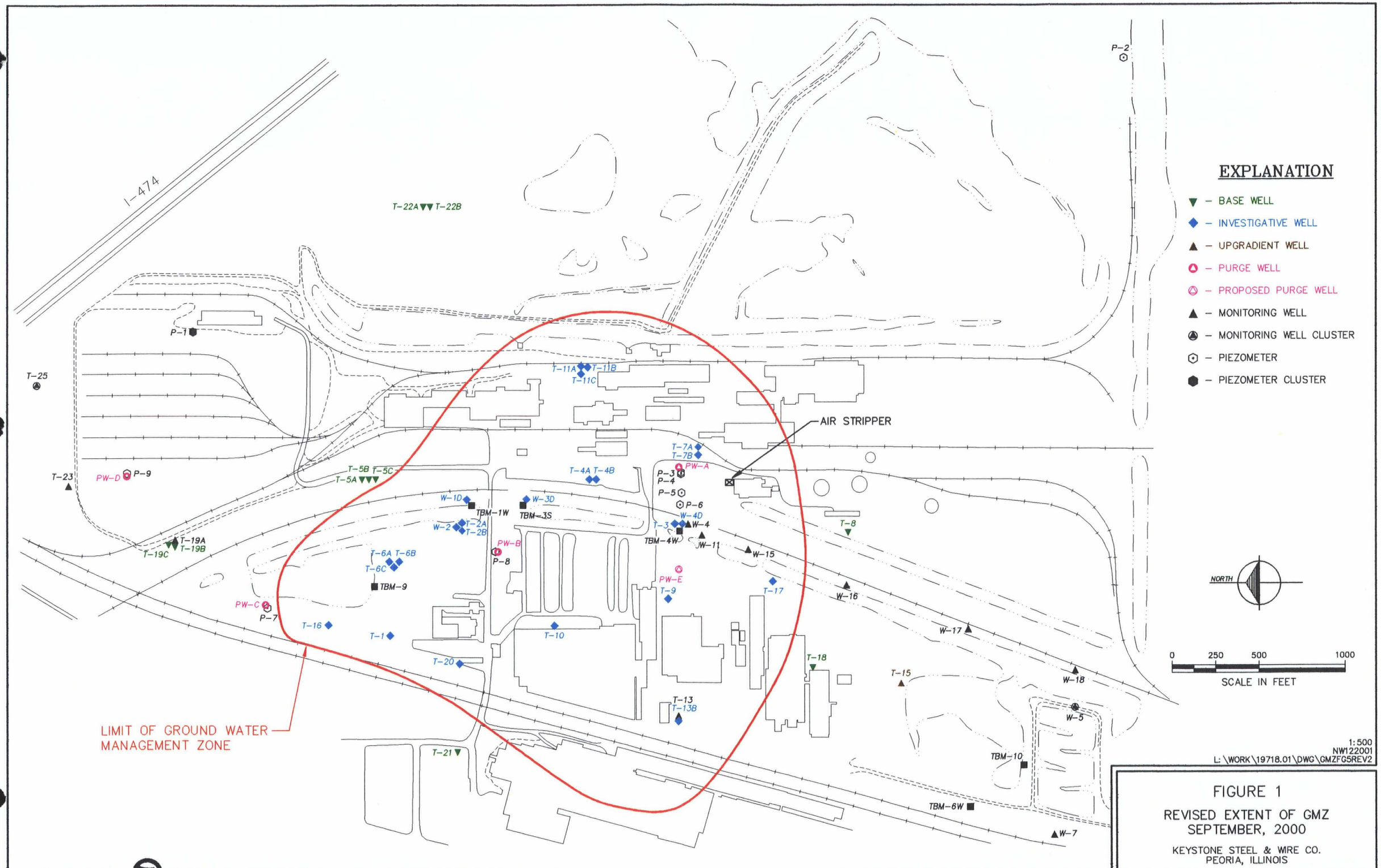


FIGURE 1

REVISED EXTENT OF GMZ
SEPTEMBER, 2000

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

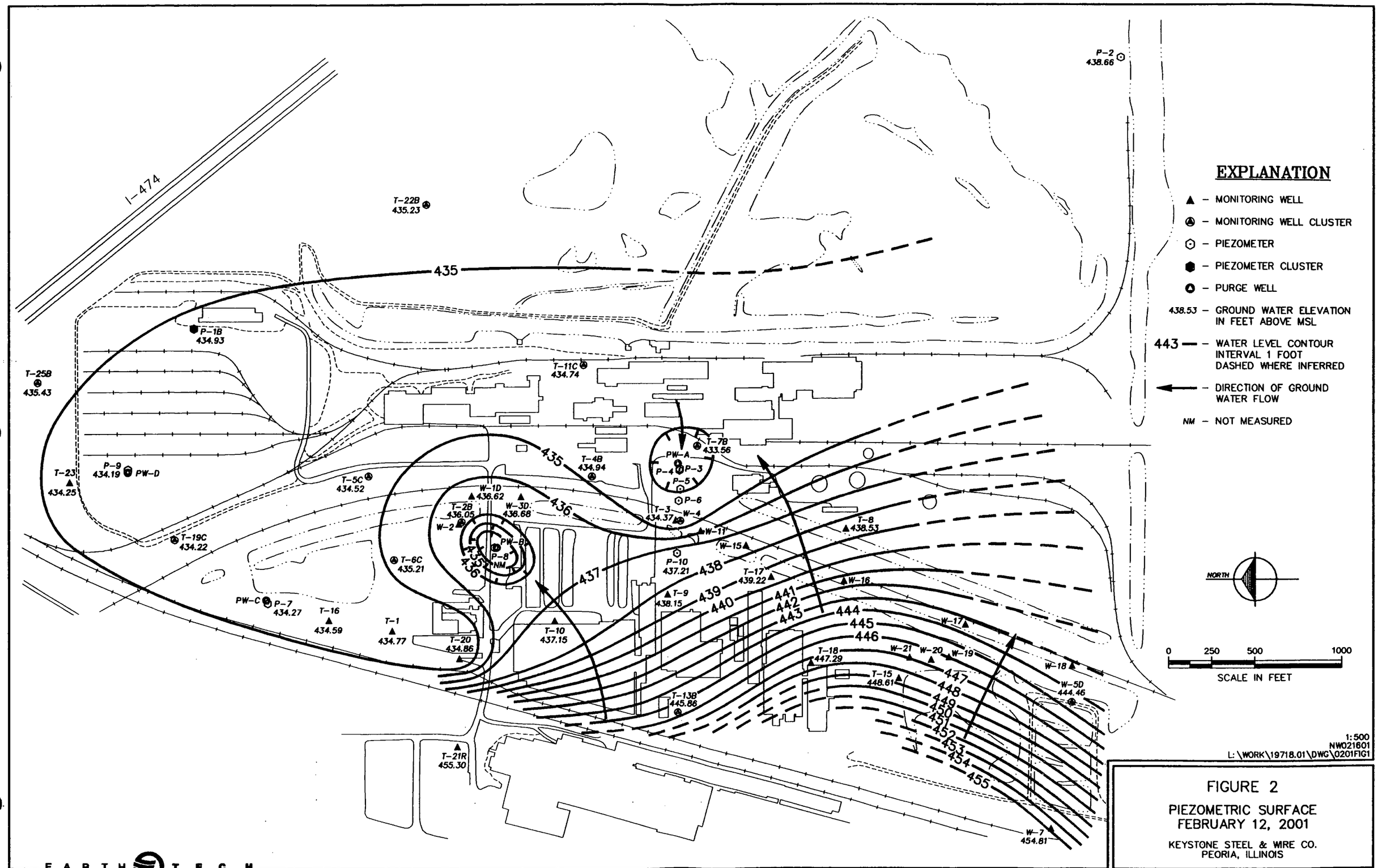
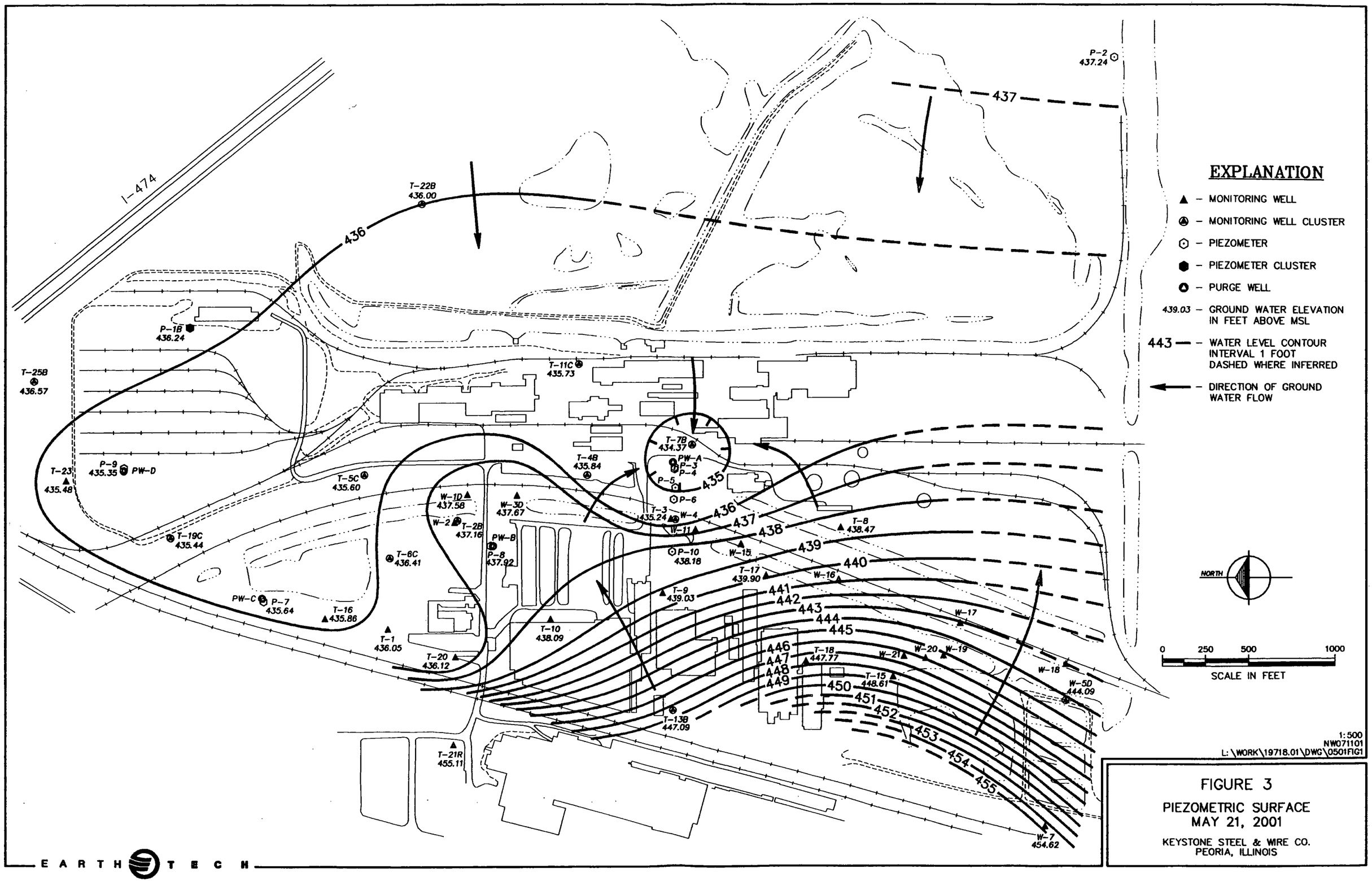


FIGURE 2

PIEZOMETRIC SURFACE
FEBRUARY 12, 2001

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS



EXPLANATION

- ▲ – MONITORING WELL
- ◬ – MONITORING WELL CLUSTER
- ⊙ – PIEZOMETER
- ⬢ – PIEZOMETER CLUSTER
- ◬ – PURGE WELL
- 439.03 – GROUND WATER ELEVATION IN FEET ABOVE MSL
- 443 — – WATER LEVEL CONTOUR INTERVAL 1 FOOT DASHED WHERE INFERRED
- ← – DIRECTION OF GROUND WATER FLOW

FIGURE 3

PIEZOMETRIC SURFACE
MAY 21, 2001

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

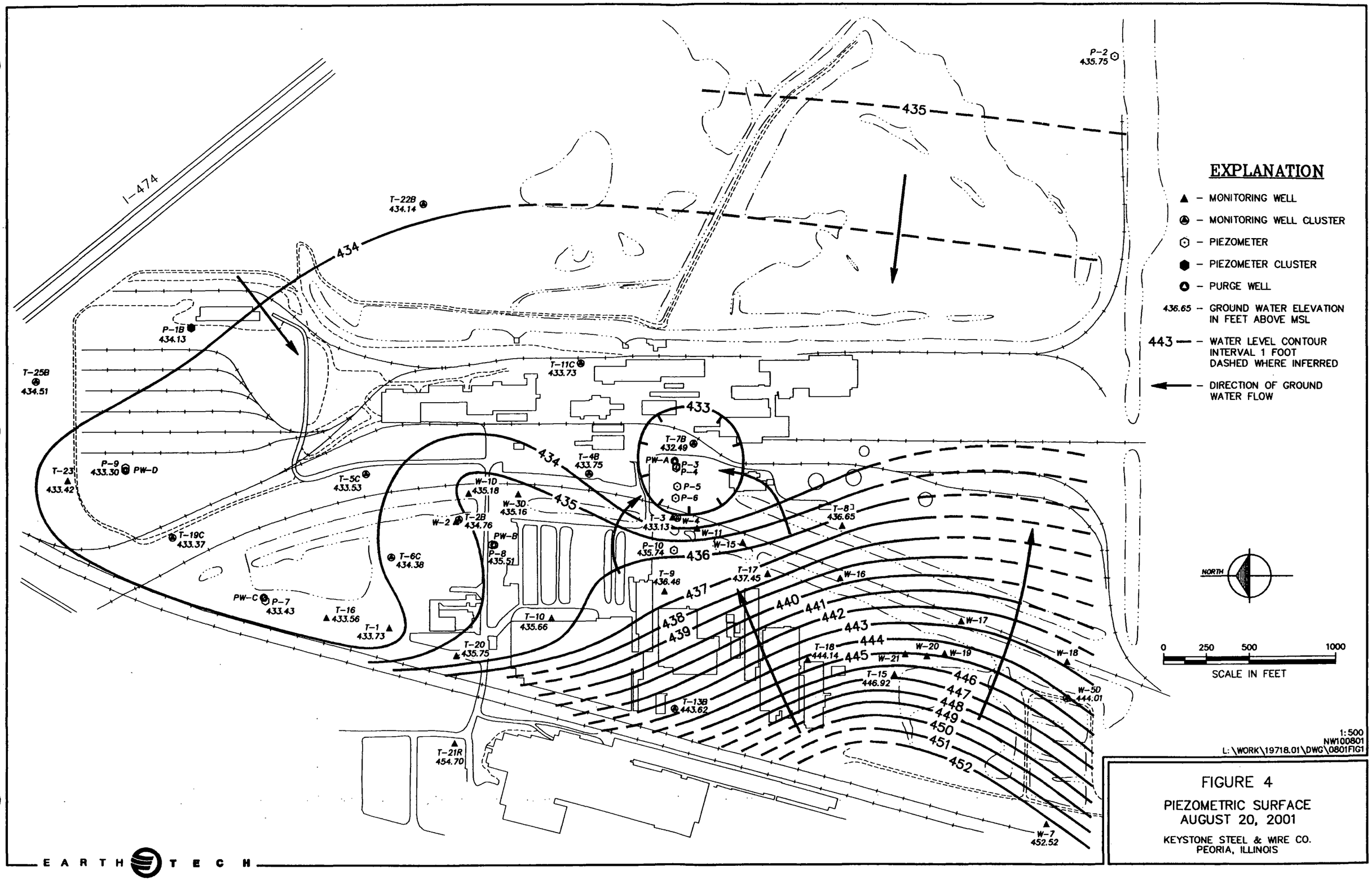


FIGURE 4

PIEZOMETRIC SURFACE
AUGUST 20, 2001

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

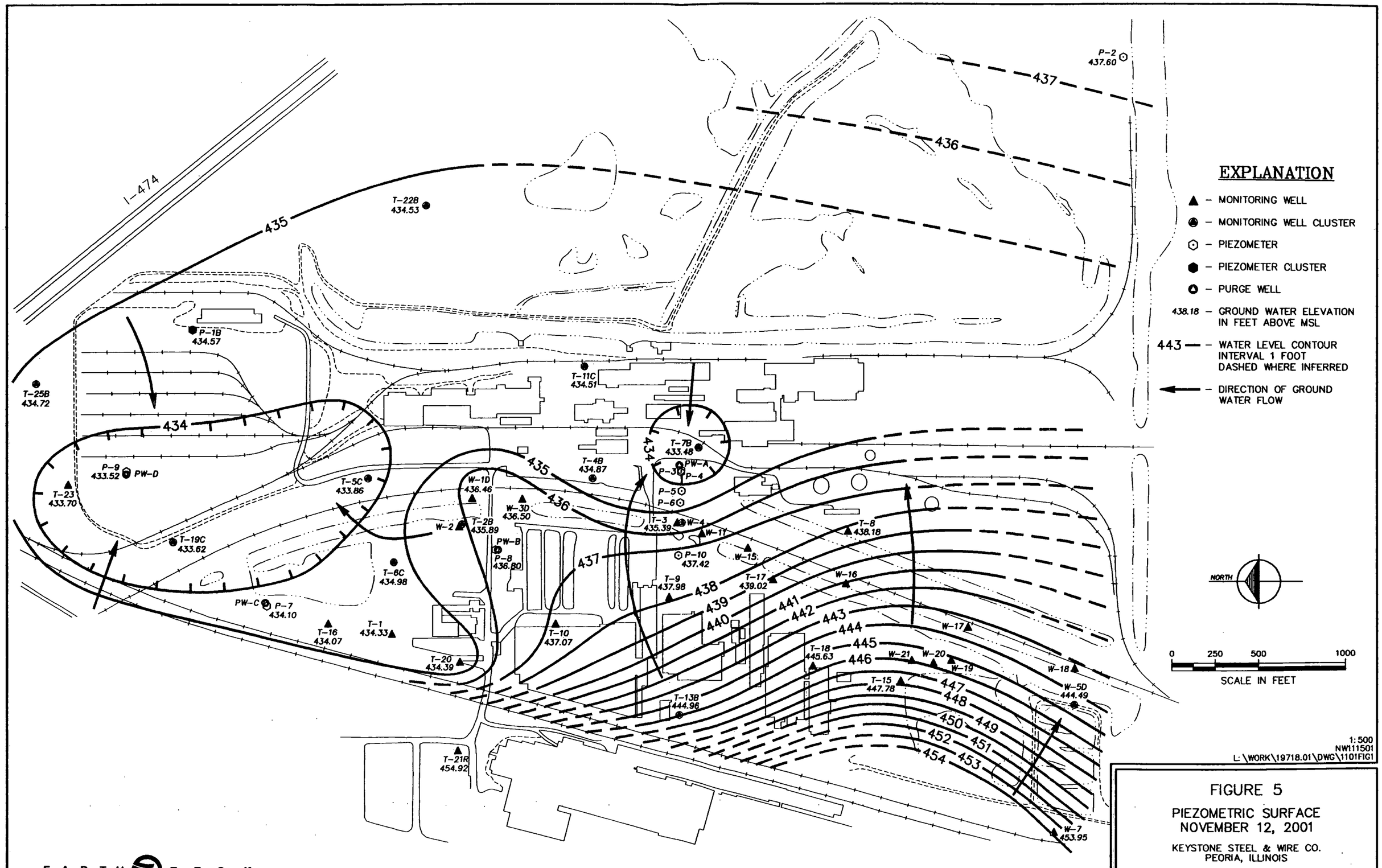


FIGURE 5

PIEZOMETRIC SURFACE
NOVEMBER 12, 2001

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

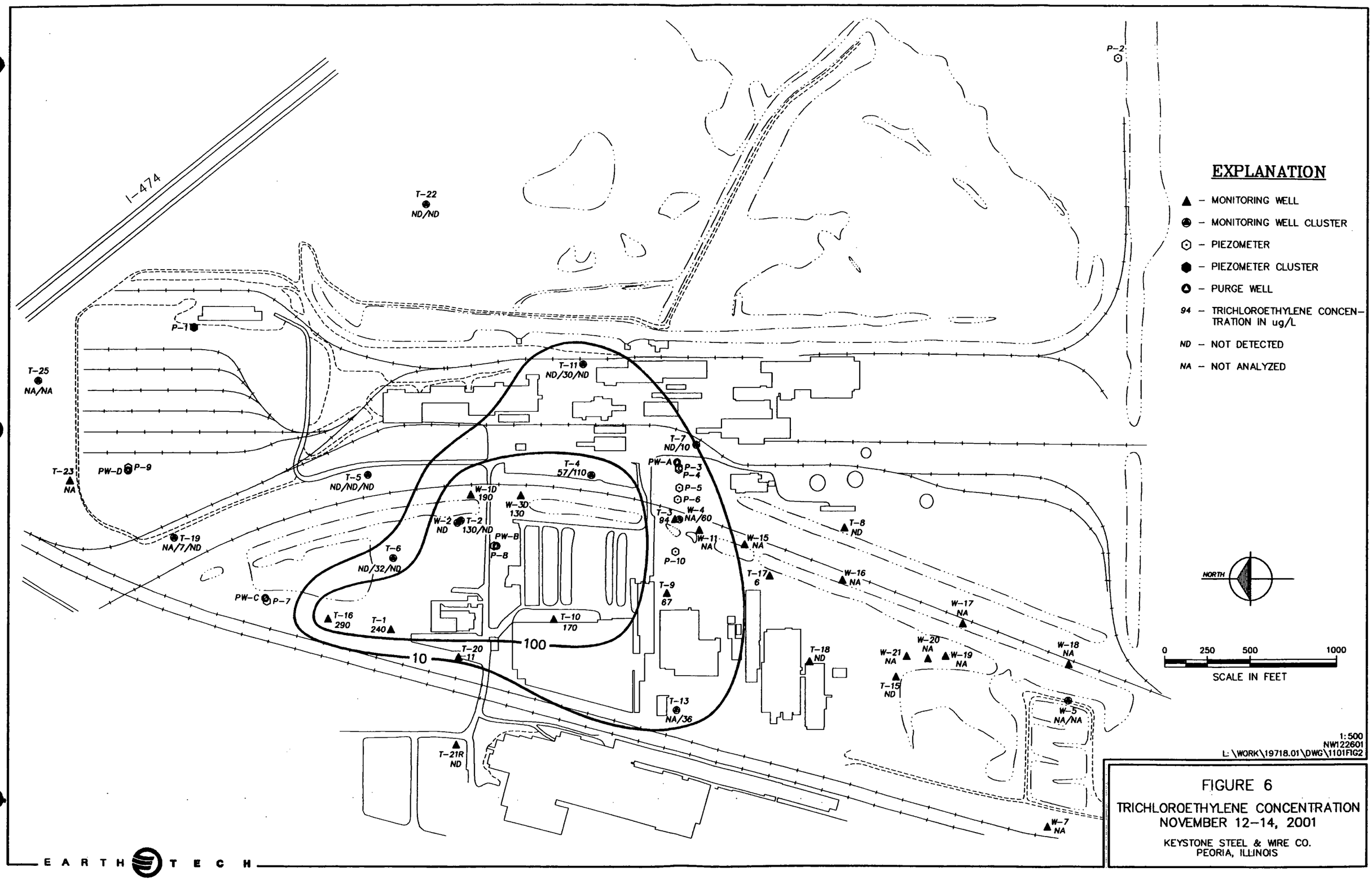


FIGURE 6

TRICHLOROETHYLENE CONCENTRATION
NOVEMBER 12–14, 2001

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

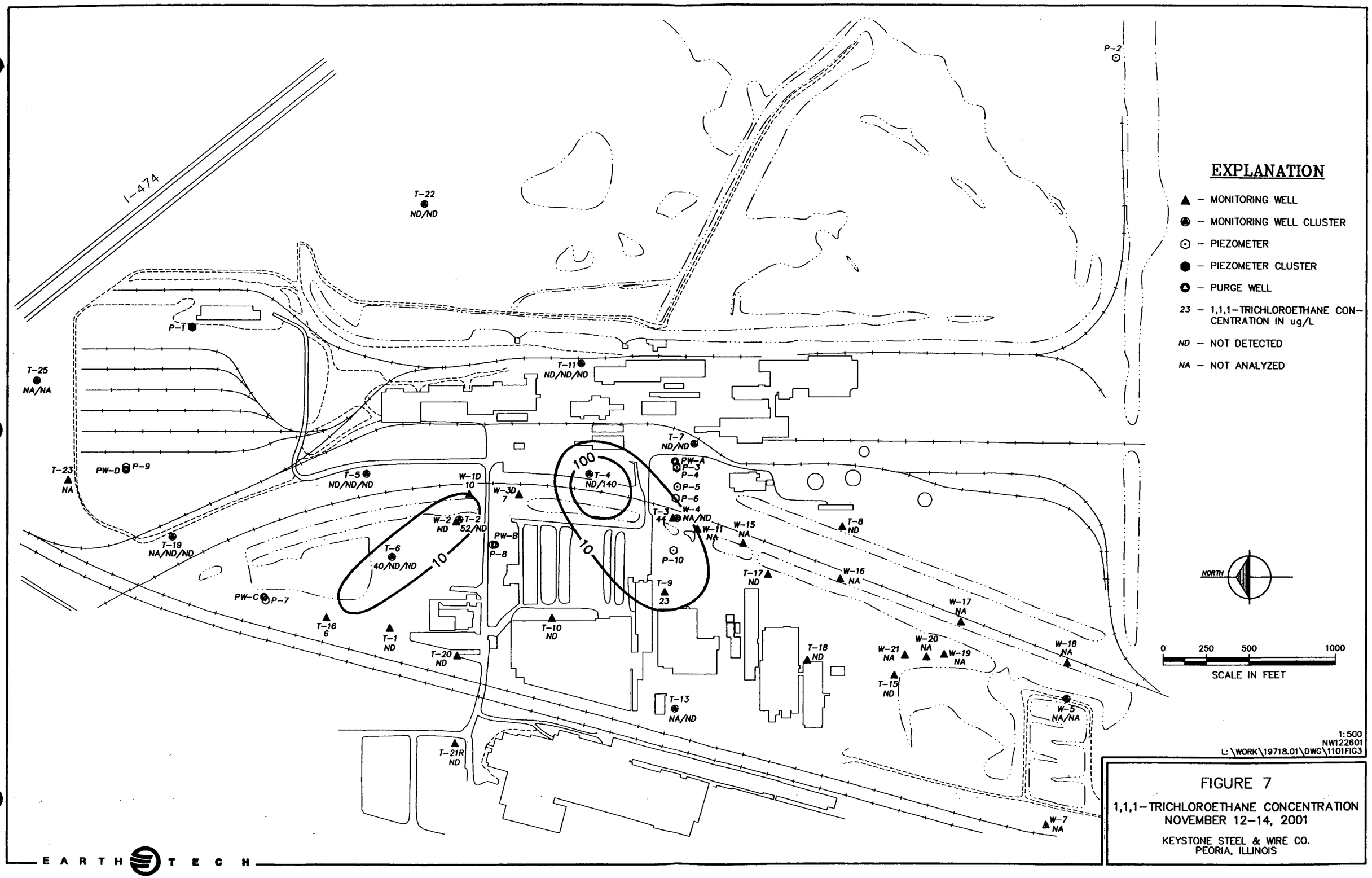
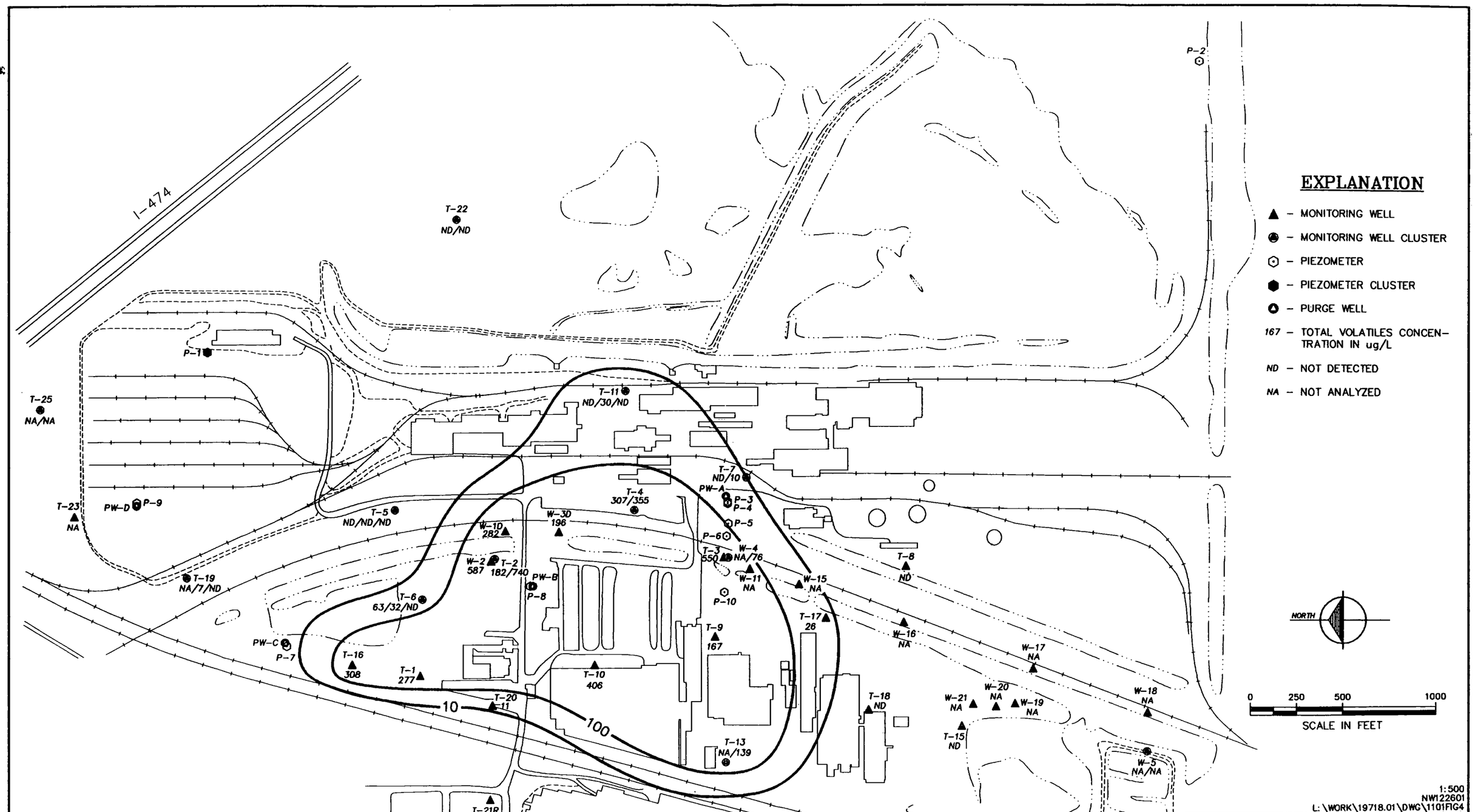


FIGURE 7

1,1,1-TRICHLOROETHANE CONCENTRATION
NOVEMBER 12-14, 2001

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS



EXPLANATION

- ▲ – MONITORING WELL
- ● – MONITORING WELL CLUSTER
- ⊙ – PIEZOMETER
- ⬢ – PIEZOMETER CLUSTER
- ◆ – PURGE WELL
- 167 – TOTAL VOLATILES CONCENTRATION IN ug/L
- ND – NOT DETECTED
- NA – NOT ANALYZED

FIGURE 8

TOTAL VOLATILES CONCENTRATION
NOVEMBER 12–14, 2001

KEYSTONE STEEL & WIRE CO.
PEORIA, ILLINOIS

EARTH TECH

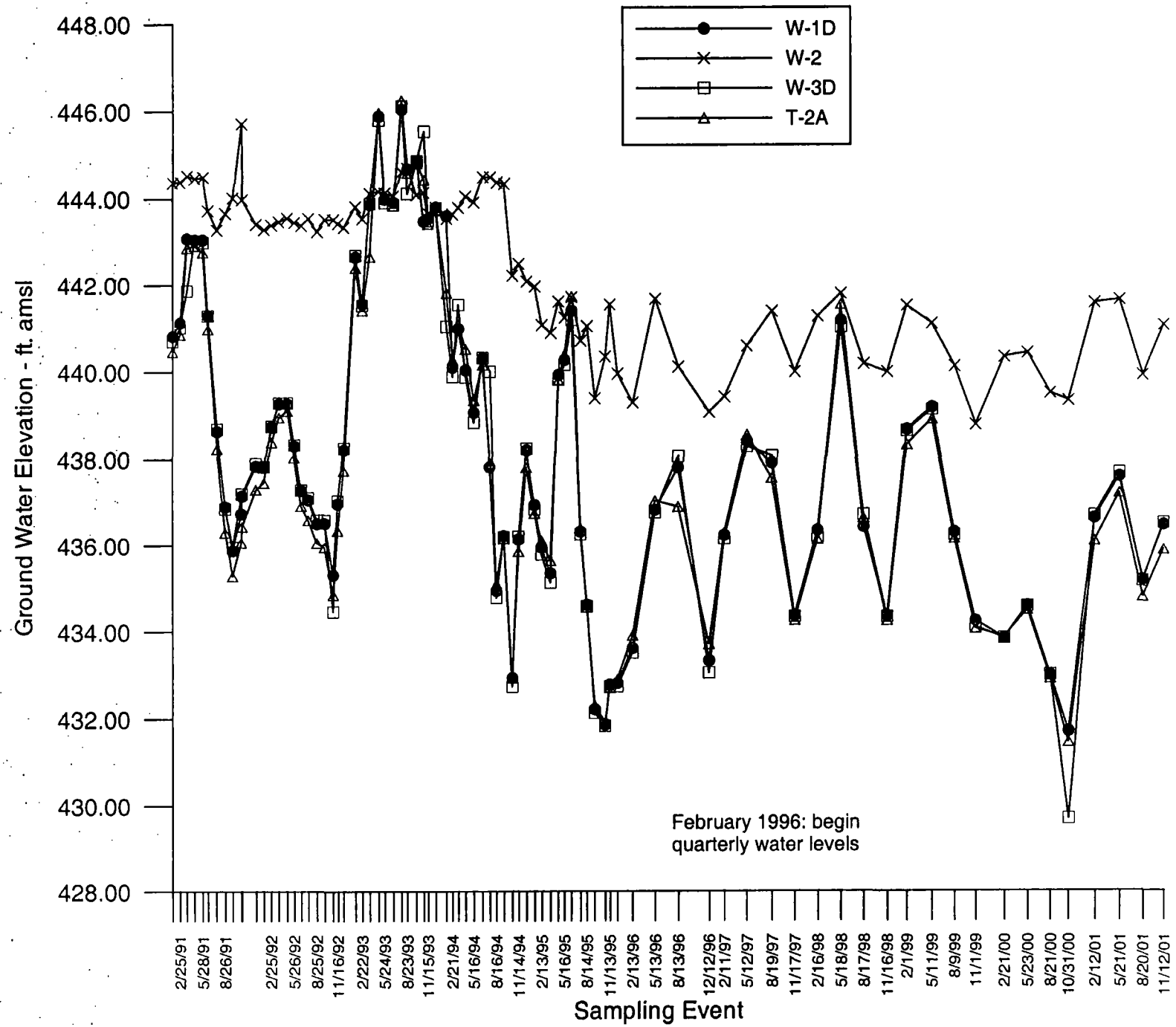


Figure 9. Hydrographs for wells W-1D, W-2, W-3D, and T-2A.

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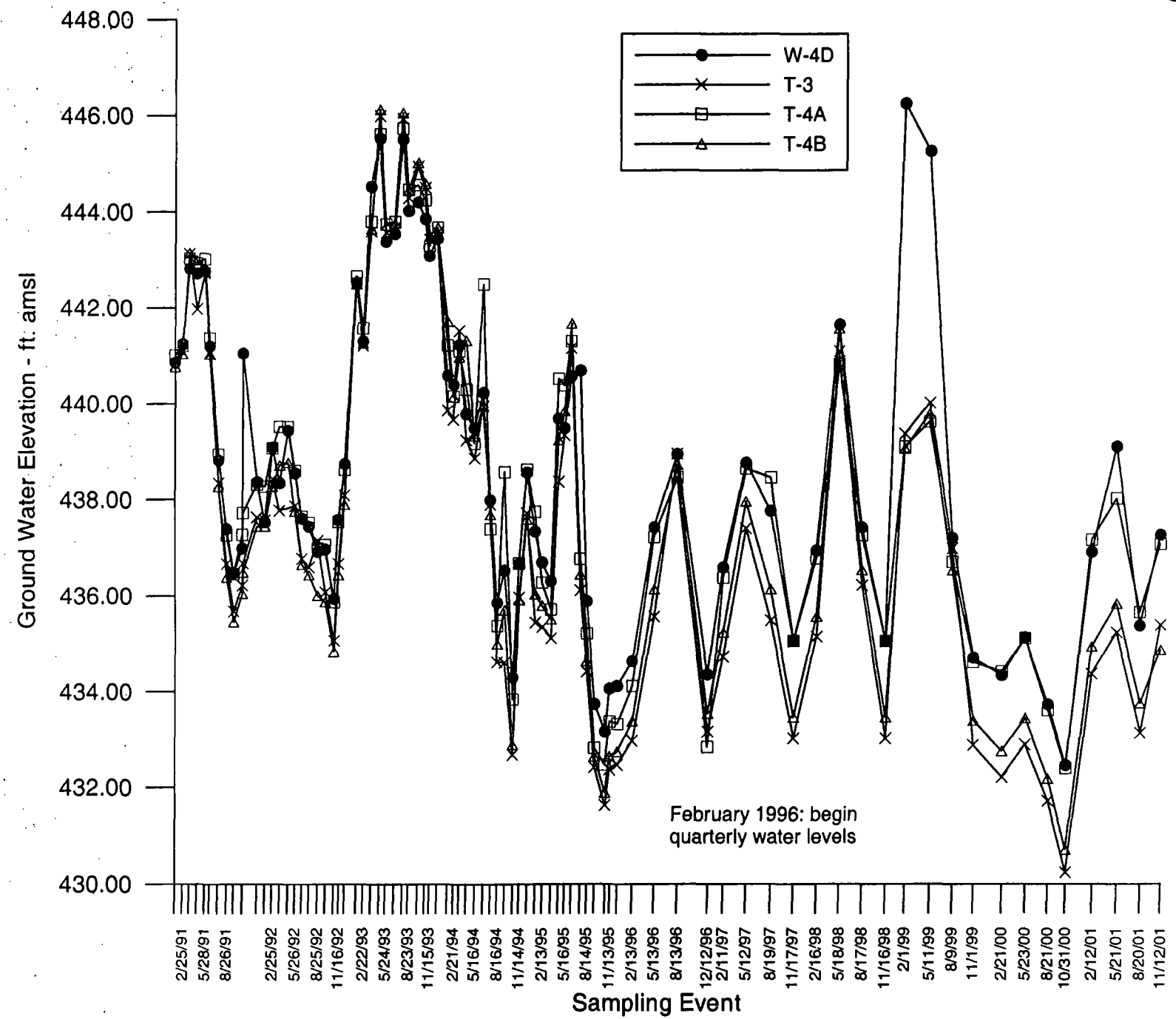

Figure 10. Hydrographs for wells W-4D, T-3, T-4A, and T-4B.

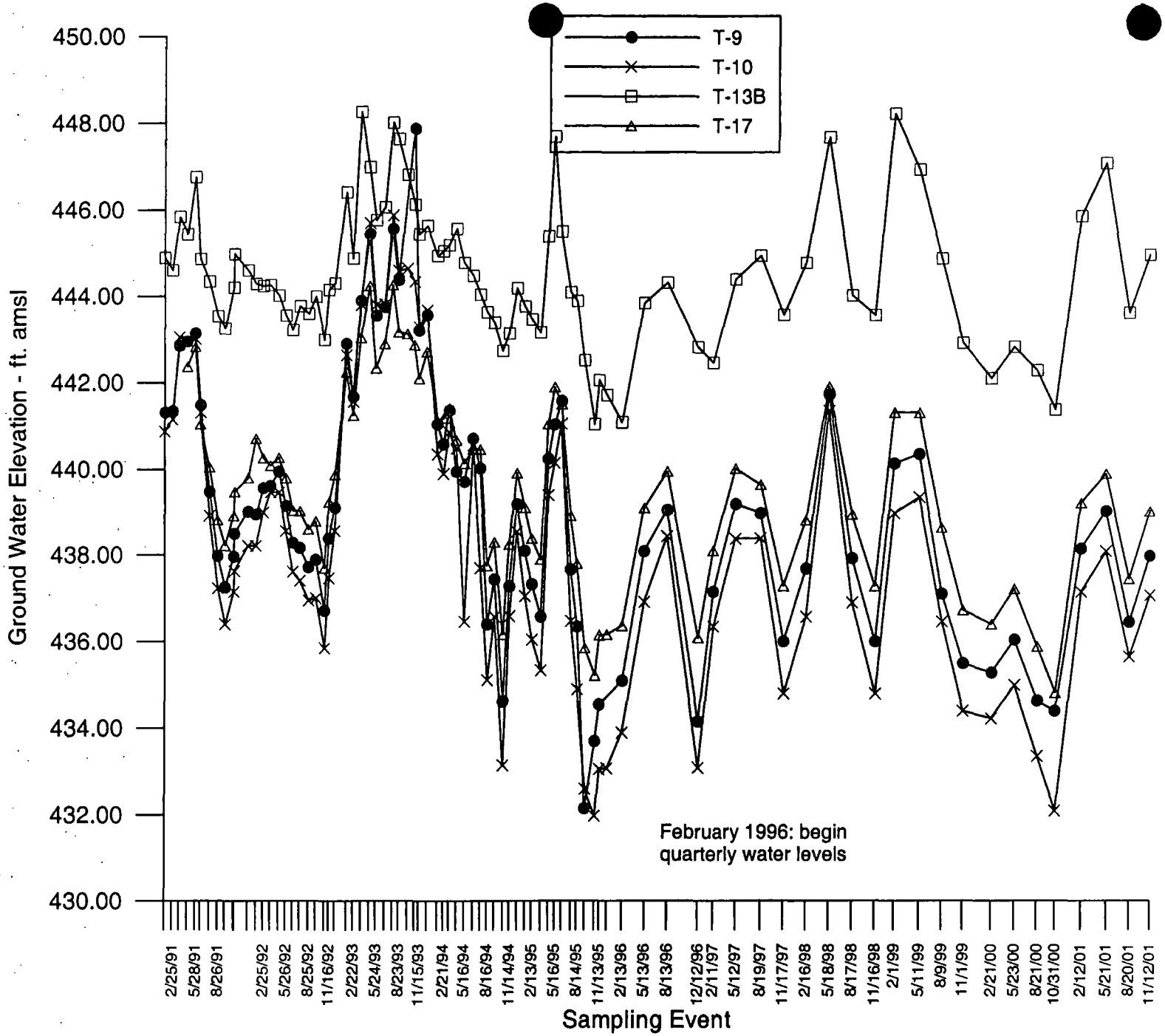

Figure 11. Hydrographs for wells T-9, T-10, T-13B, and T-17.

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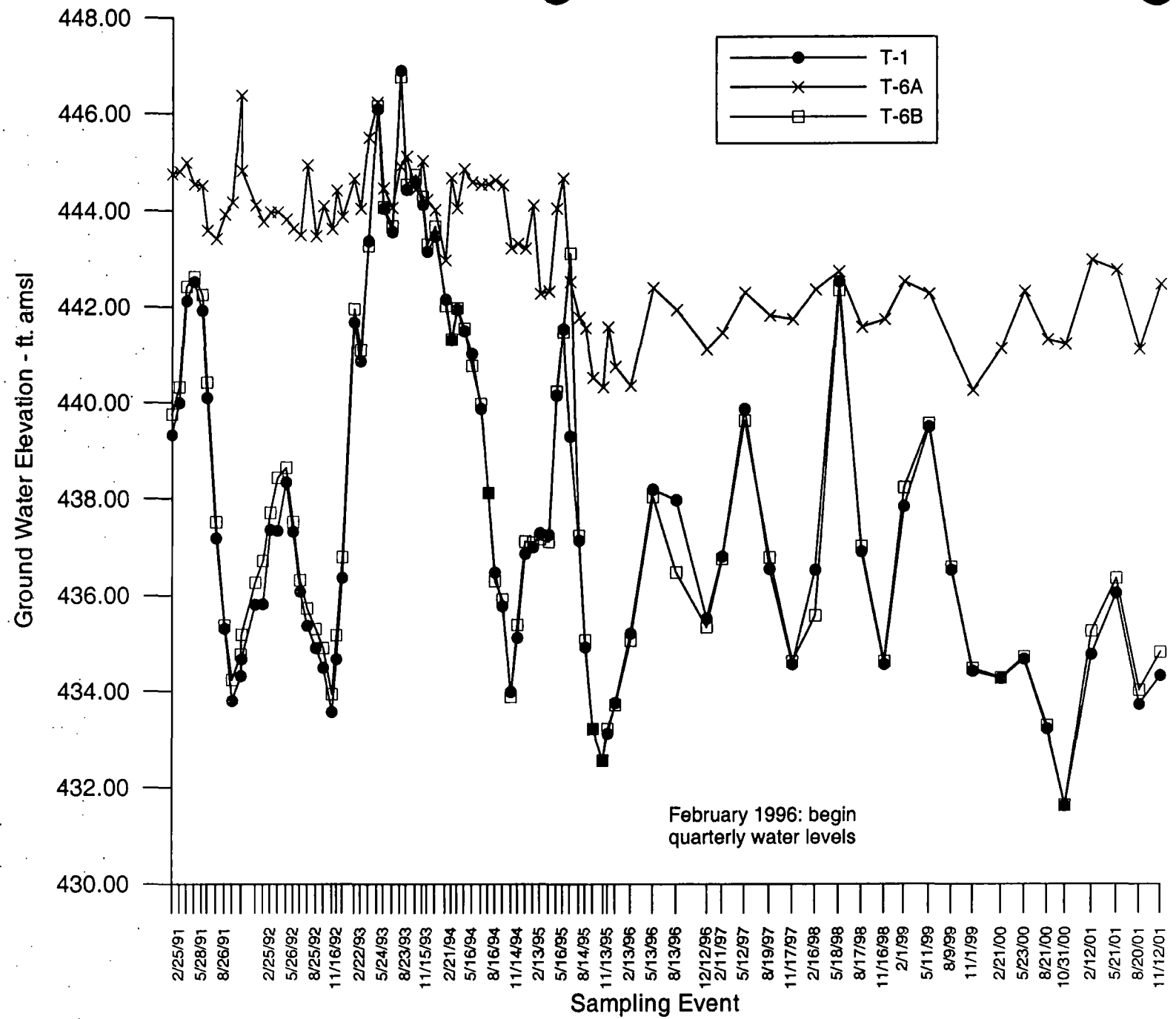

Figure 12. Hydrographs for wells T-1, T-6A, and T-6B.

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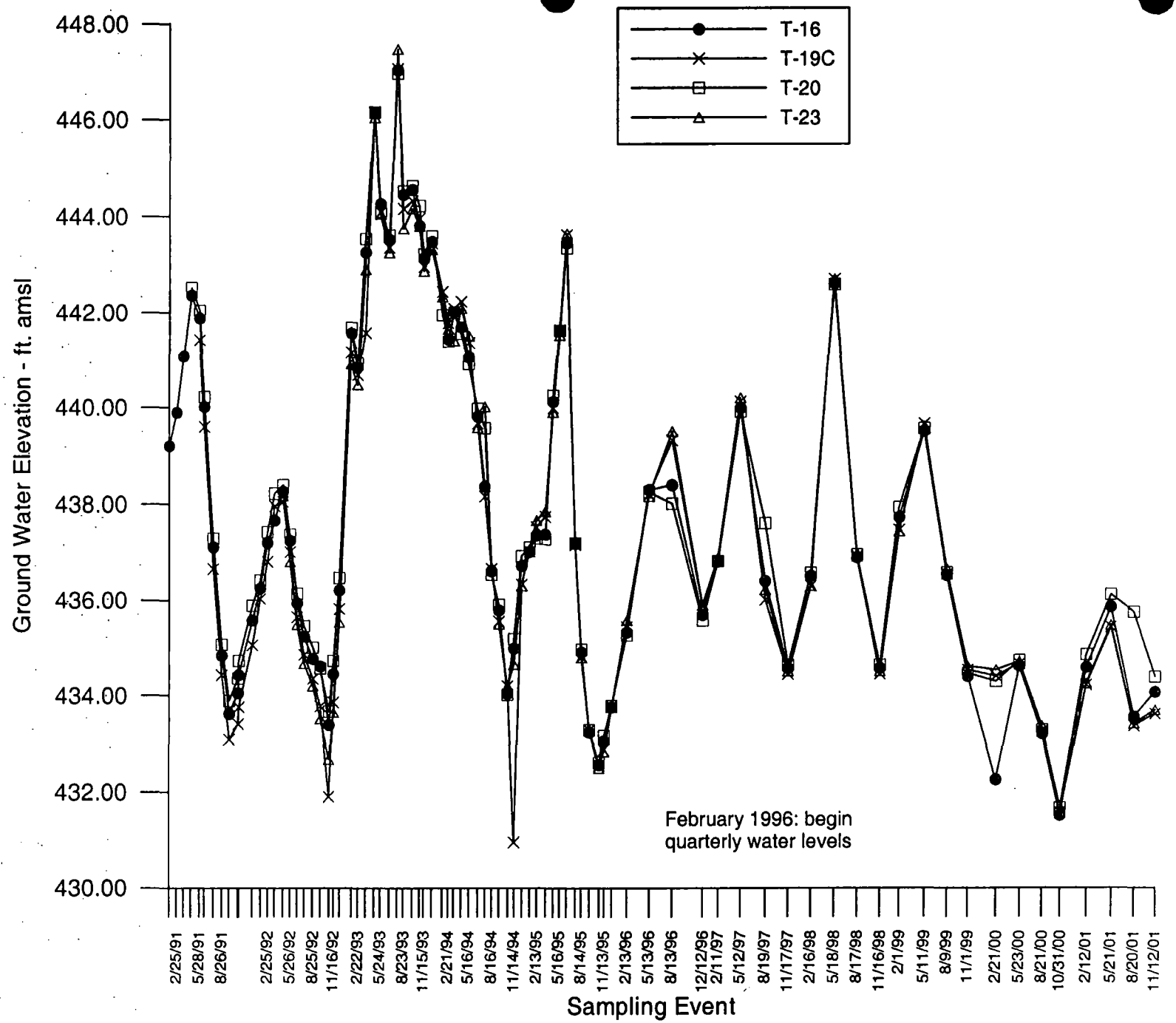

Figure 13. Hydrographs for wells T-16, T-19C, T-20, and T-23.

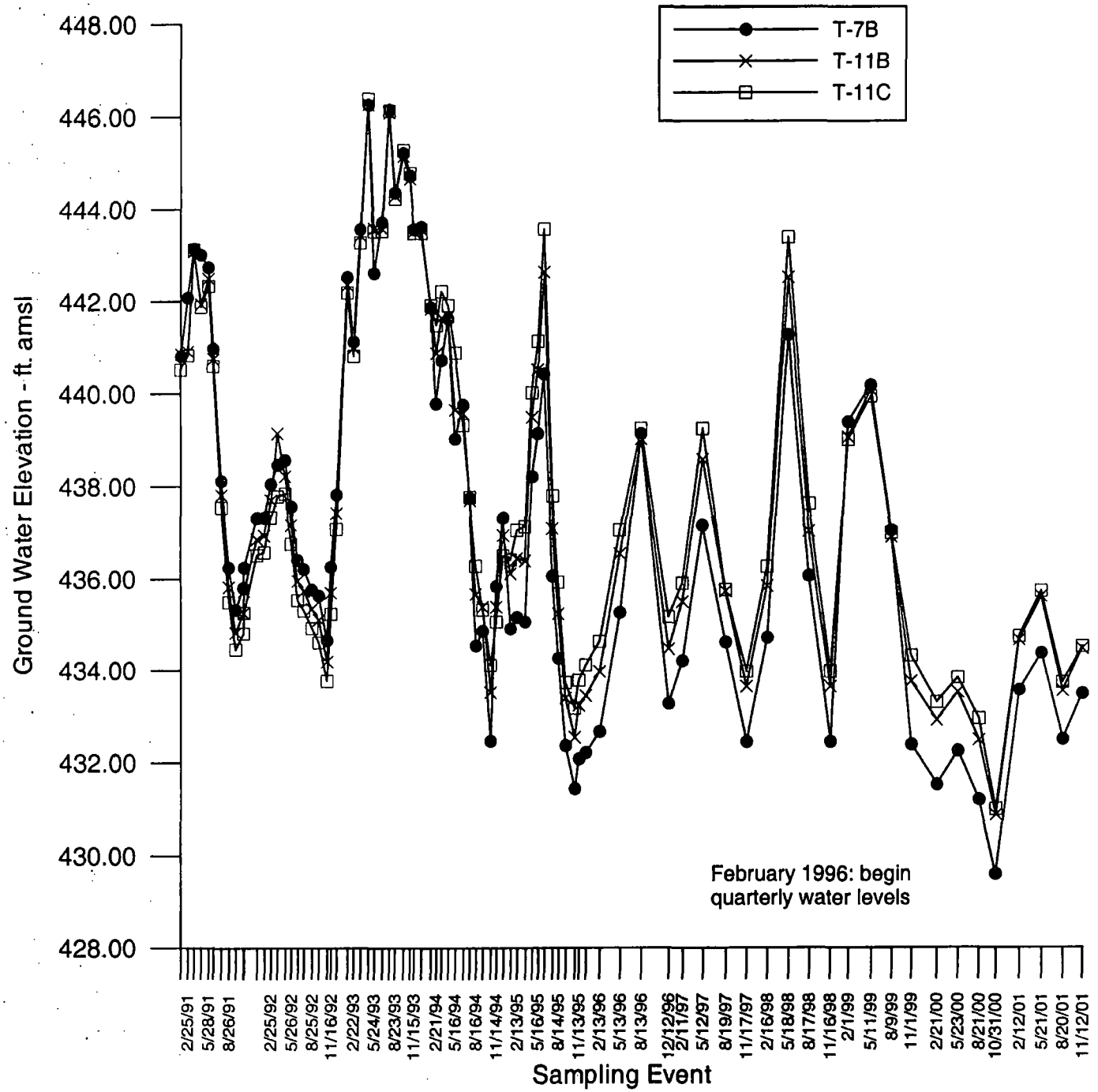

Figure 14. Hydrographs for wells T-7B, T-11B, and T-11C.

L:\work\19718.01\document\tceannl\2001annul\hydrographs\T7B.grf

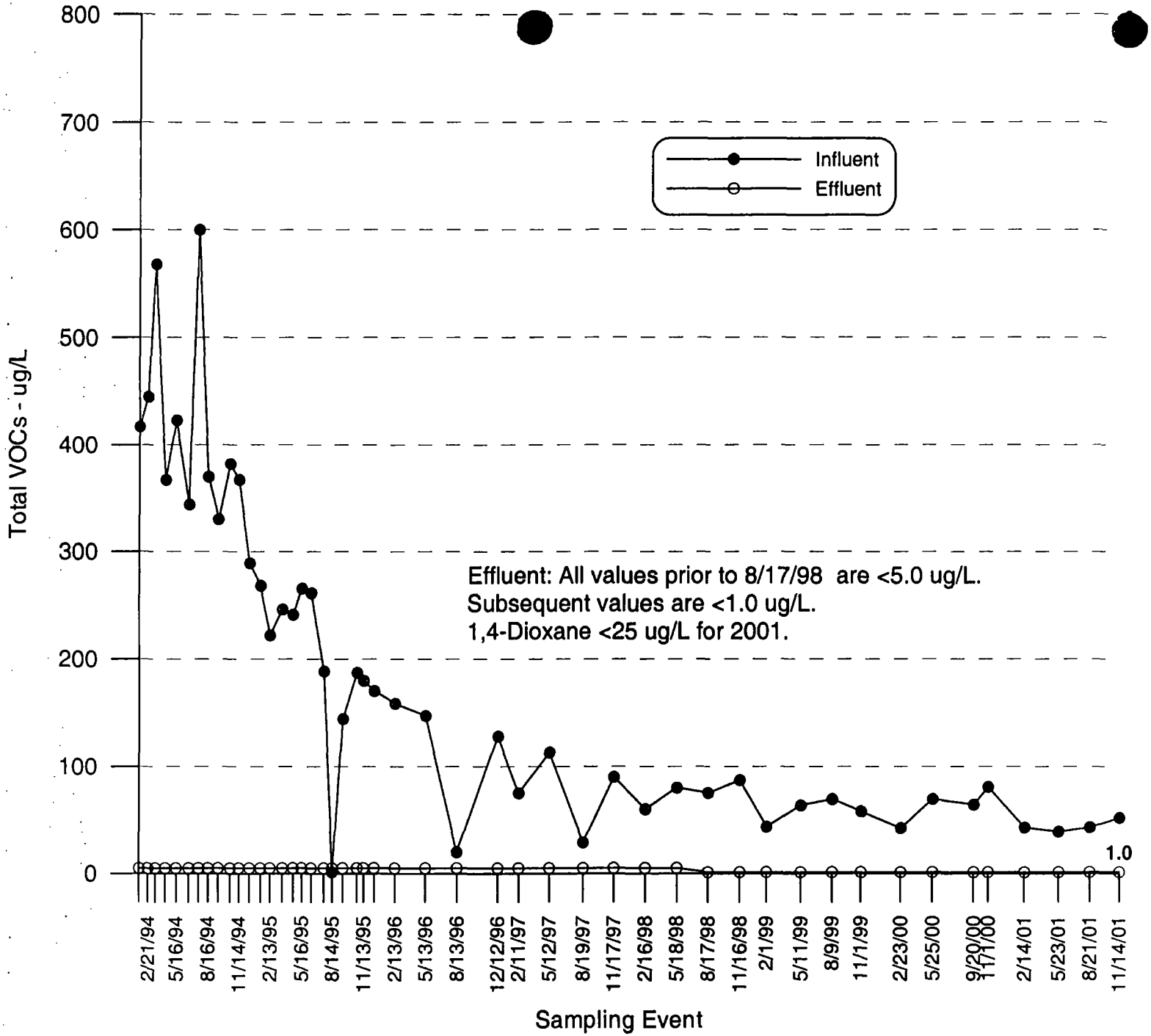

Figure 15. Time-series plot of influent and effluent results for the air stripper.

L:\work\19718.01\document\tceannl\2001annl\hydrographs\inflefnt.grf

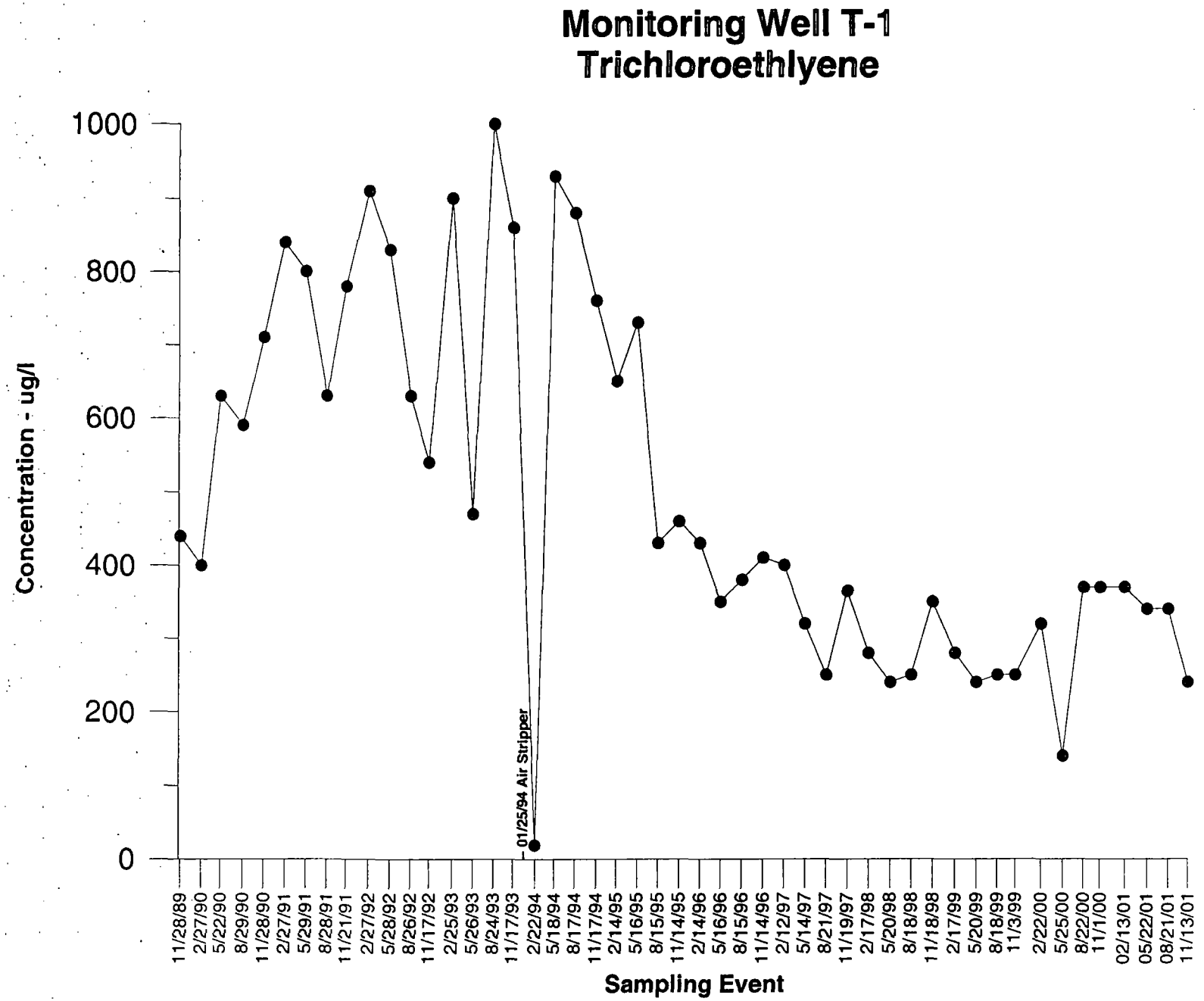

Figure 16. Time-series plot of TCE for investigative well T-1

L:\work\19718.01\document\tceappl\2001appl\gwgraphs\Trit-1.grf

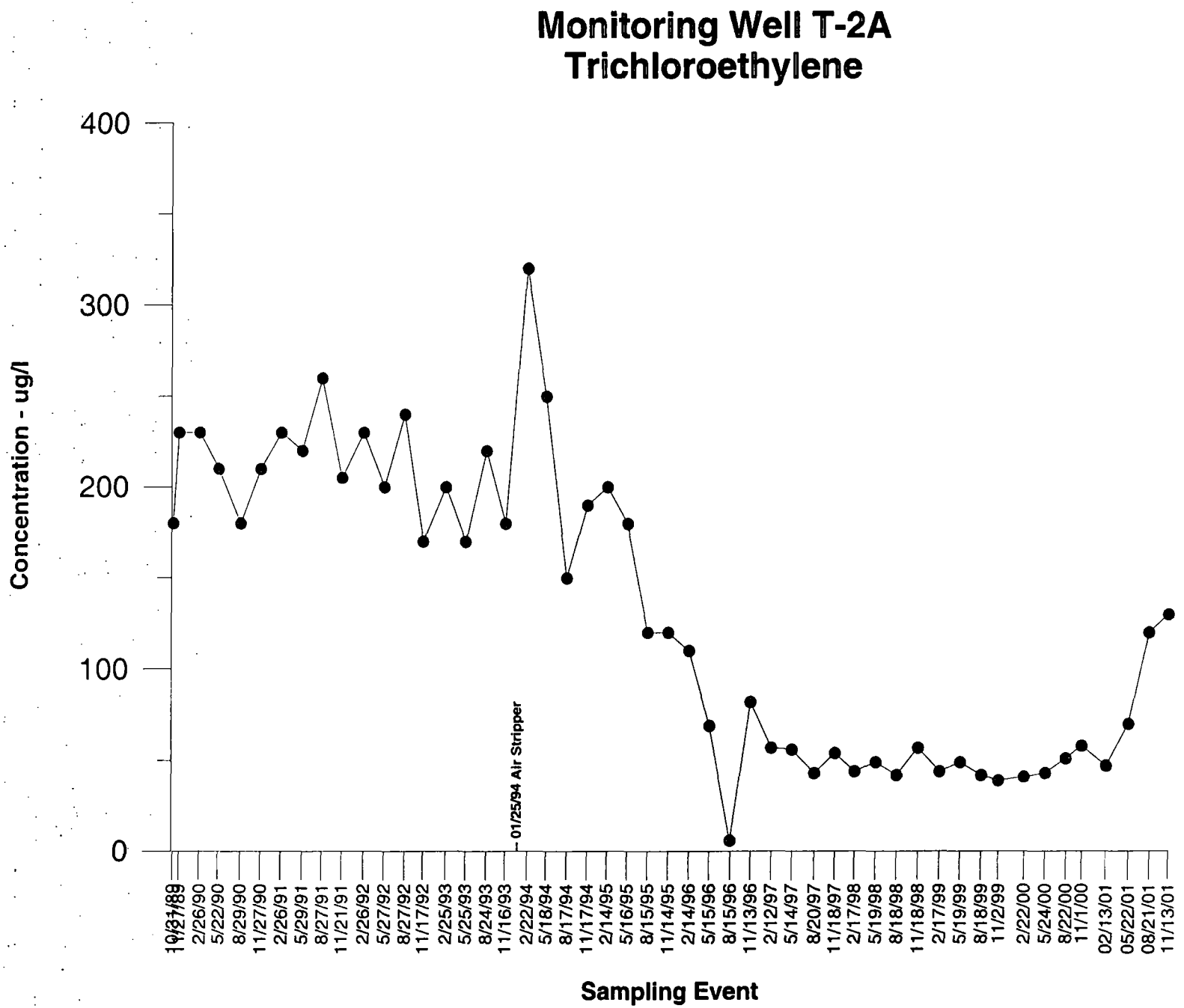

Figure 17. Time-series plot of TCE for investigative well T-2A.

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Trit-2A.grf

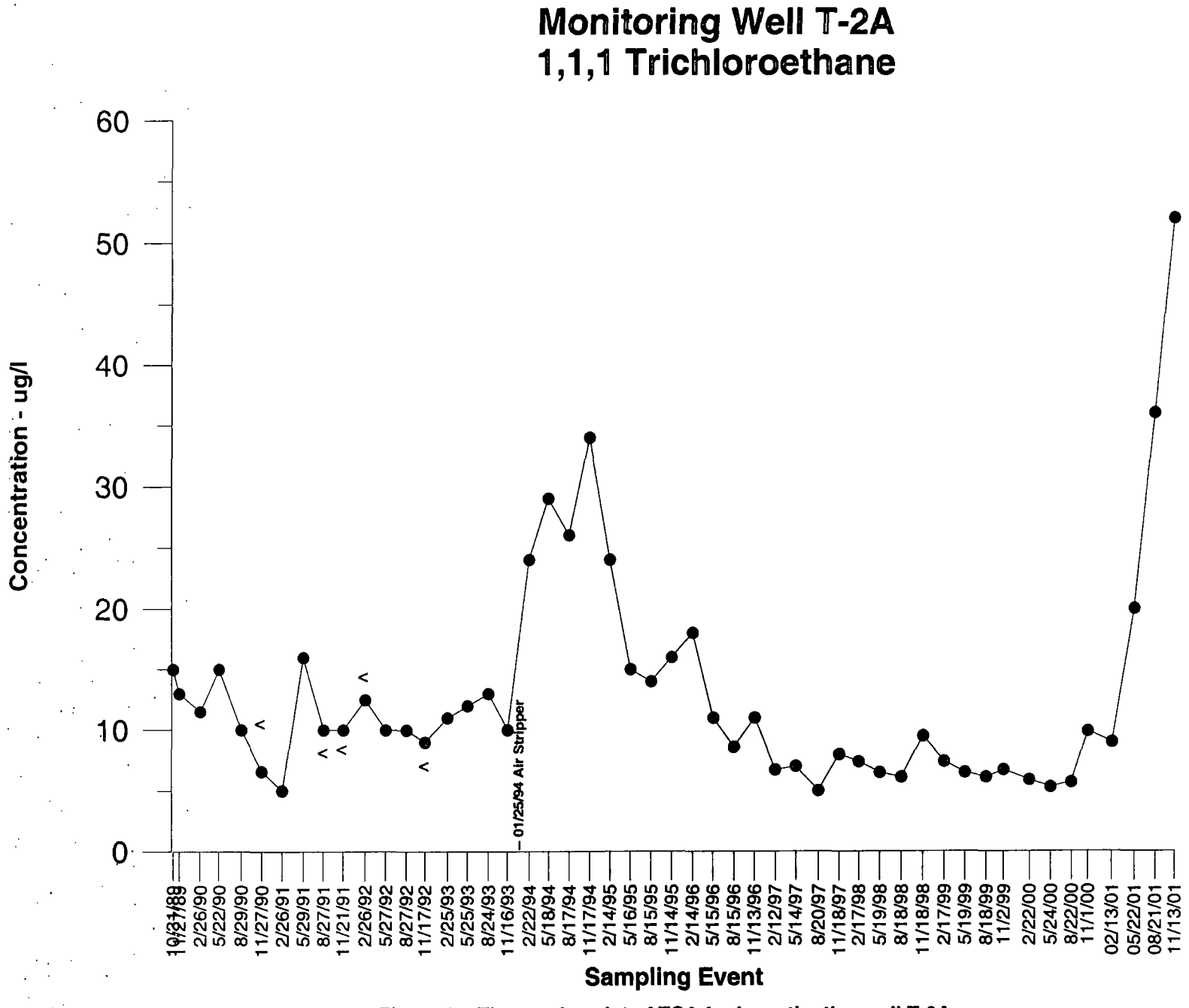

Figure 18. Time-series plot of TCA for investigative well T-2A.

L:\work\19718.01\document\TCEAnnl\2001Annl\gwgraphs\Tcat-2a.grf

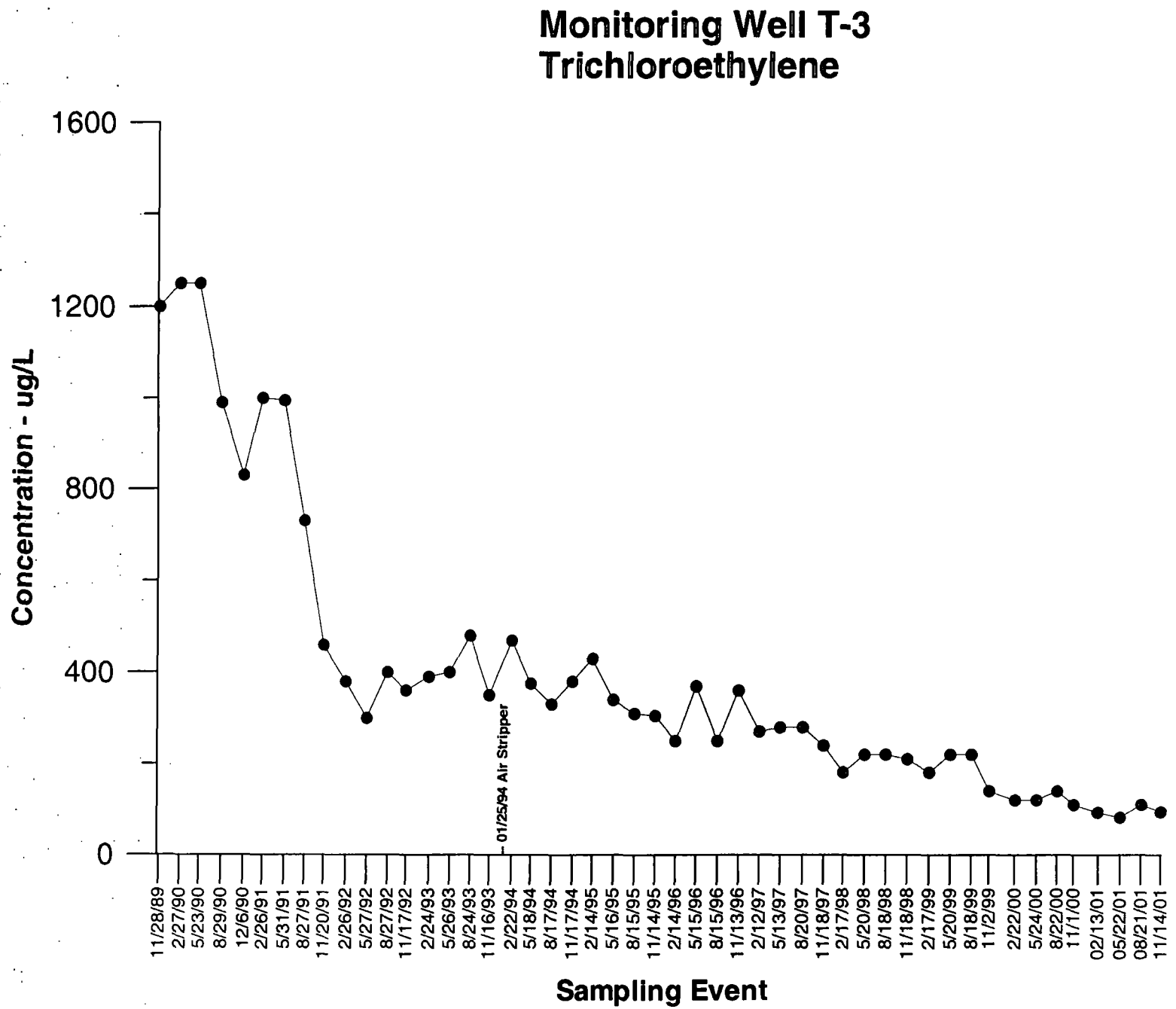

Figure 19. Time-series plot of TCE for investigative well T-3.

:\work\19718.01\document\tceannl\2001annl\gwgraphs\Trit-3.grf

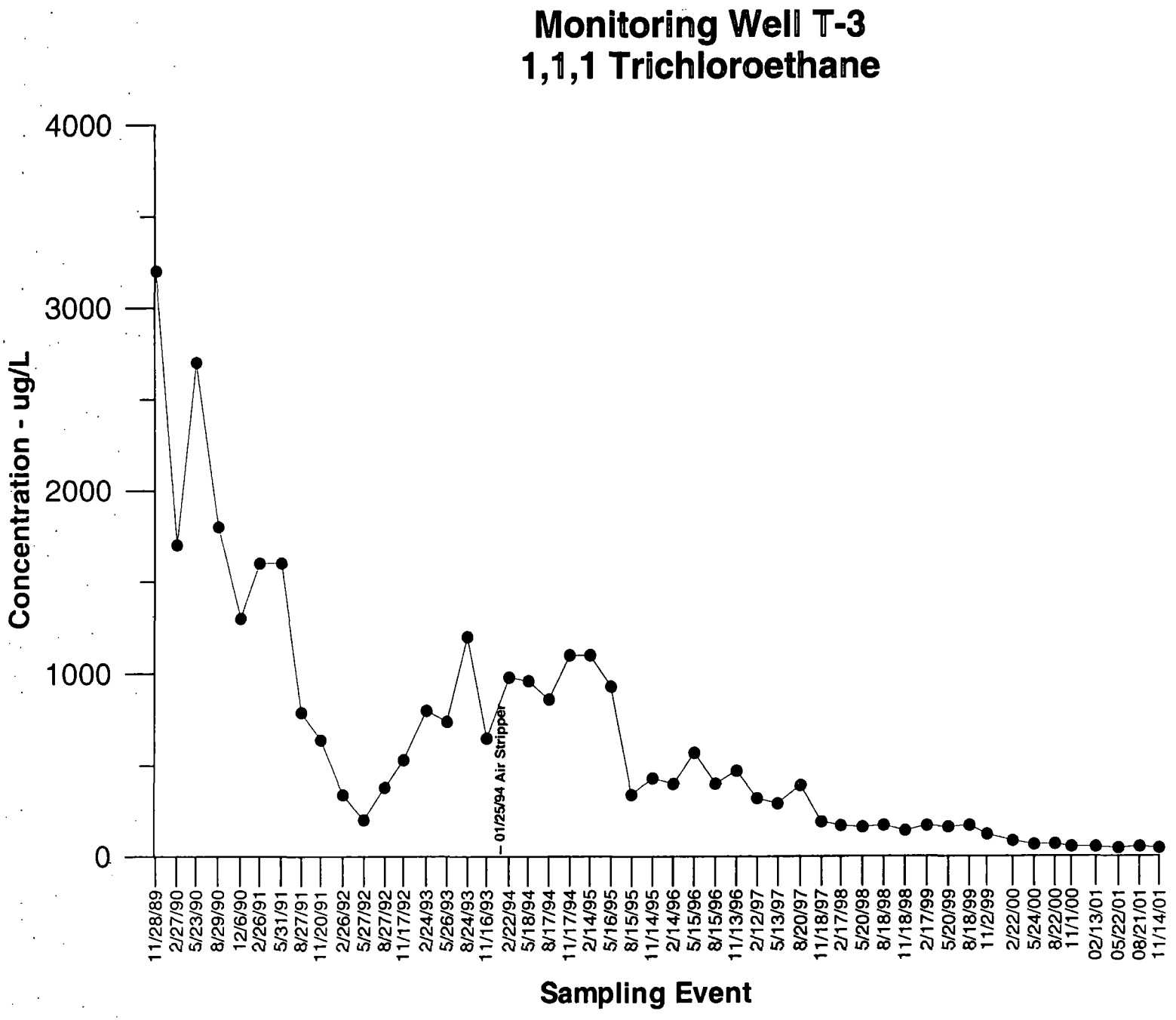

Figure 20. Time-series plot of TCA for investigative well T-3.

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Tcat-3.grf

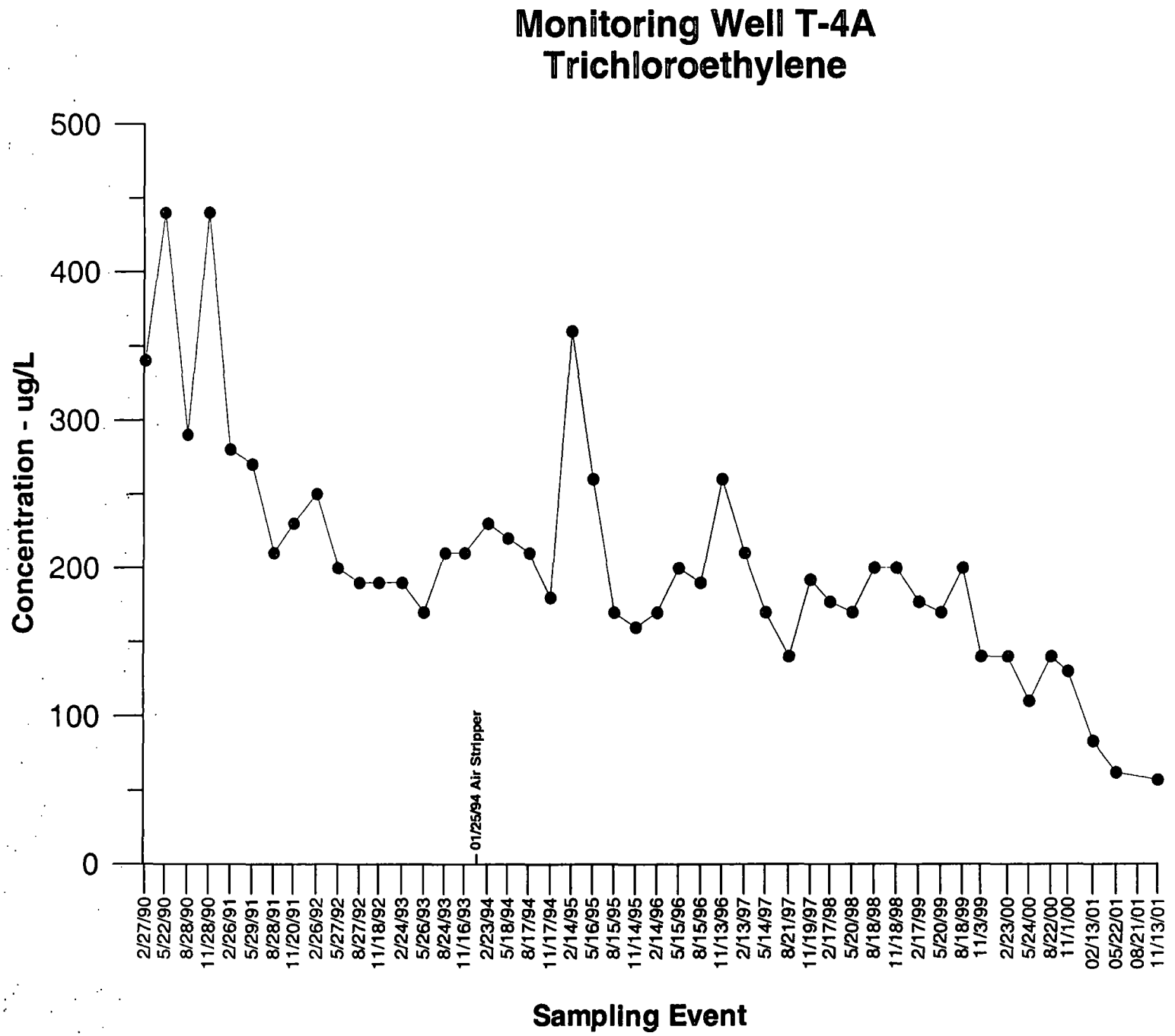

Figure 21. Time-series plot of TCE for investigative well T-4A.

L:\work\19718.01\document\TCEAnnl\2001Annl\gwgraphs\Trit-4a.grf

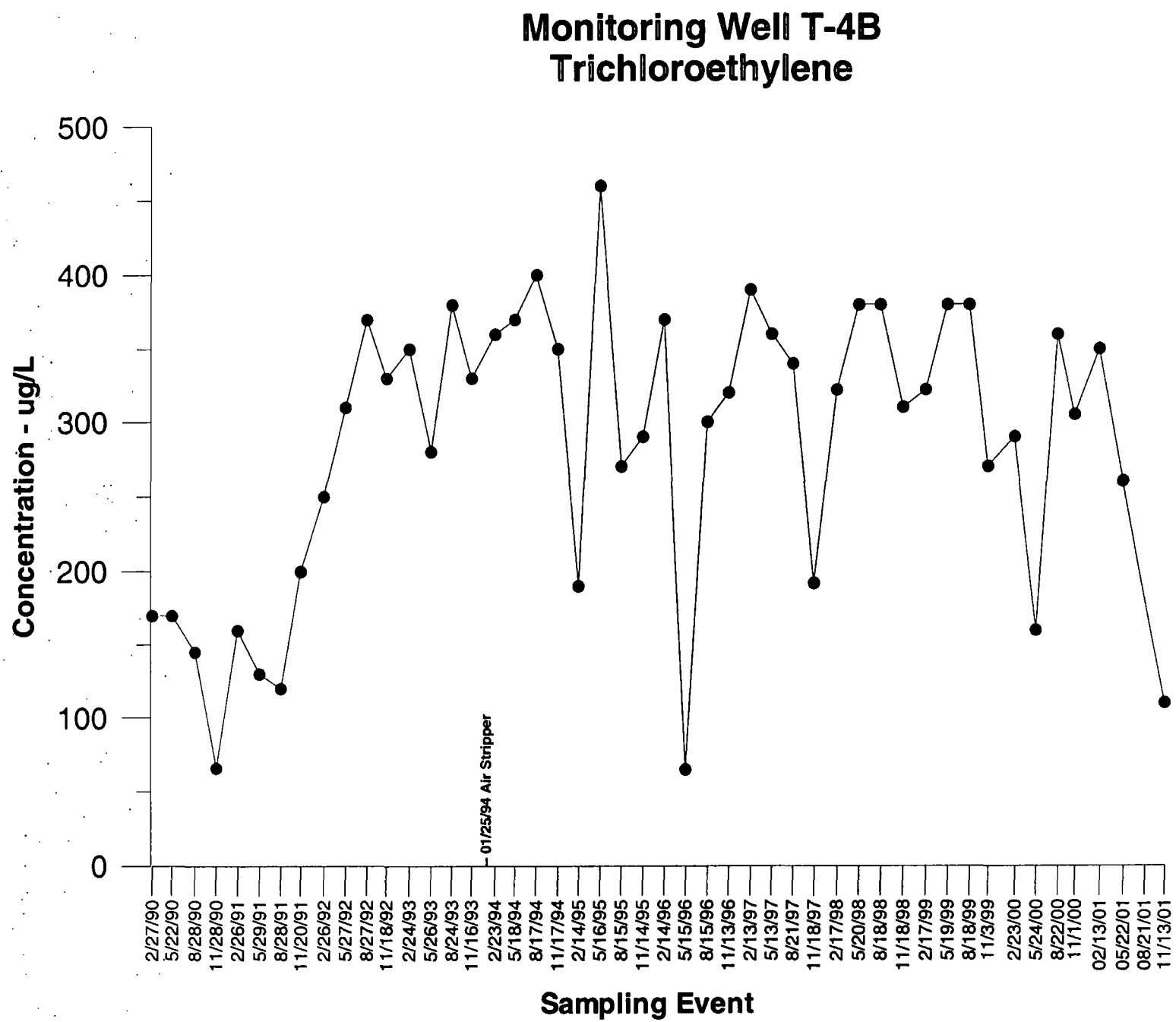

Figure 22. Time-series plot of TCE for investigative well T-4B.

.:\work\19718.01\document\tceannl\2001annl\gwgraphs\Trit-4B.grf

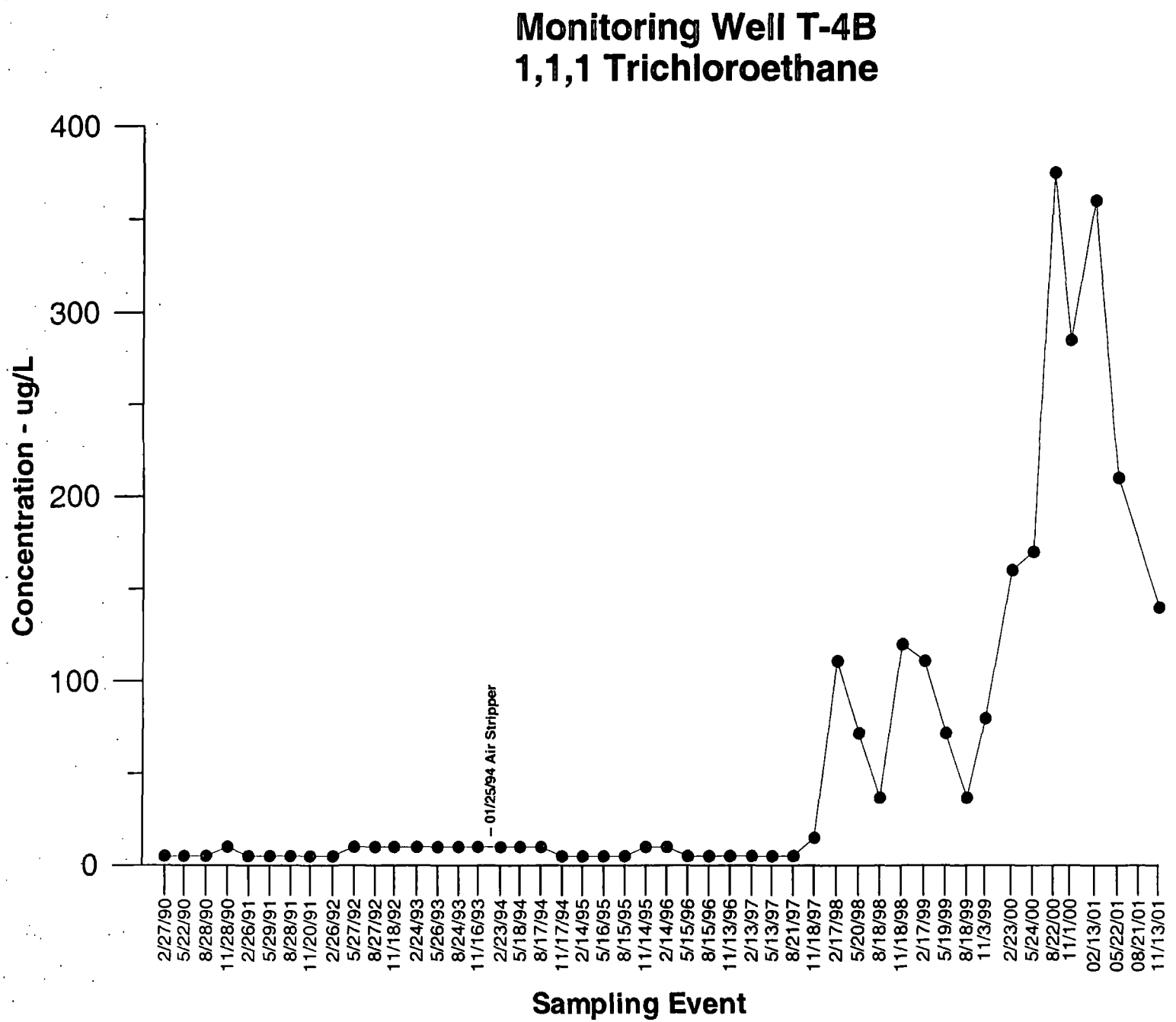

Figure 23. Time-series plot of TCA for investigative well T-4B.

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Tcat-4B.grf

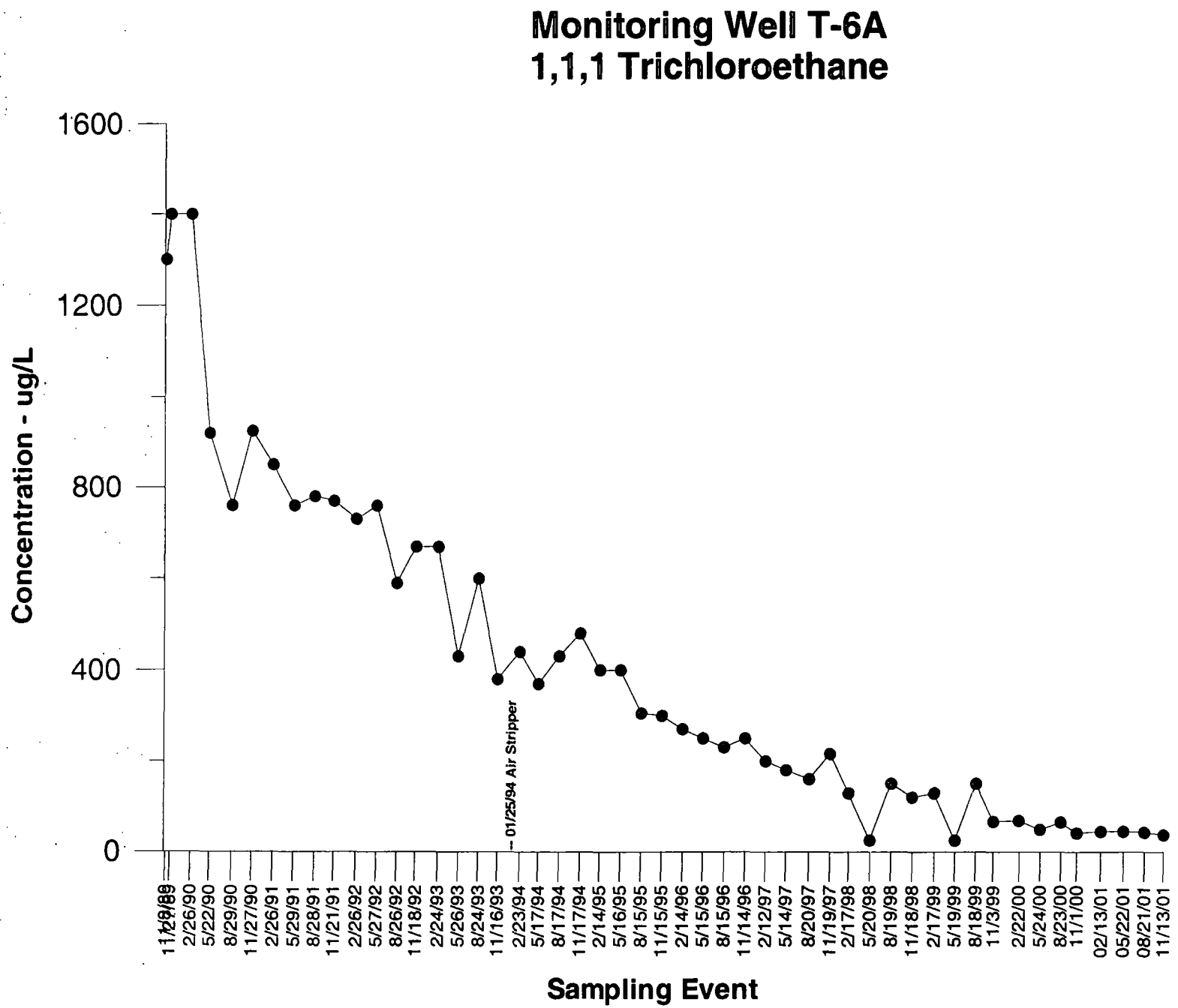

Figure 24. Time-series plot of TCA for investigative well T-6A.

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Tcat-6A.grf

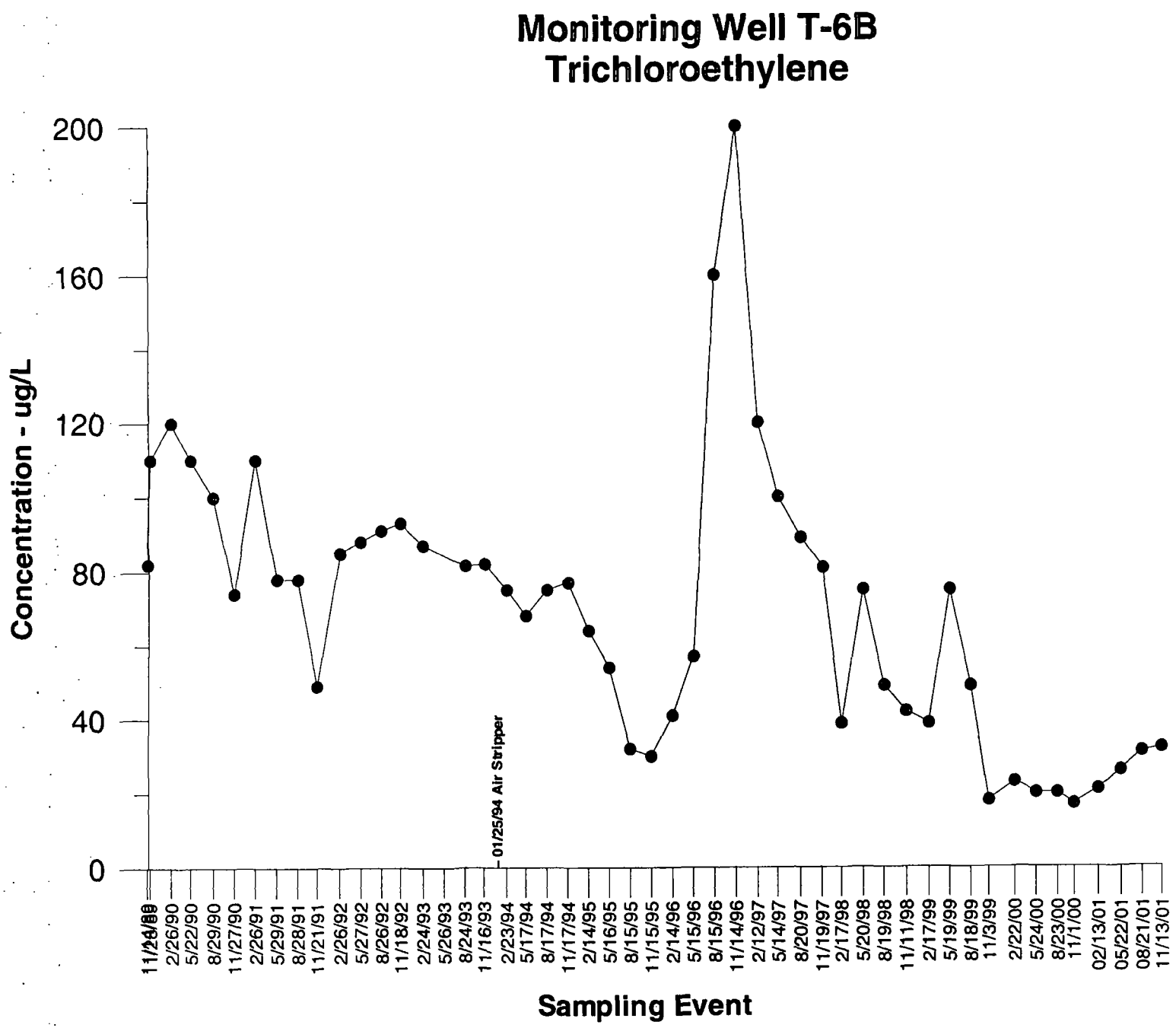

Figure 25. Time-series plot of TCE for investigative well T-6B.

L:\work\19718.01\document\TCEAnnl\2001Annl\gwgraphs\Trit-6b.grf

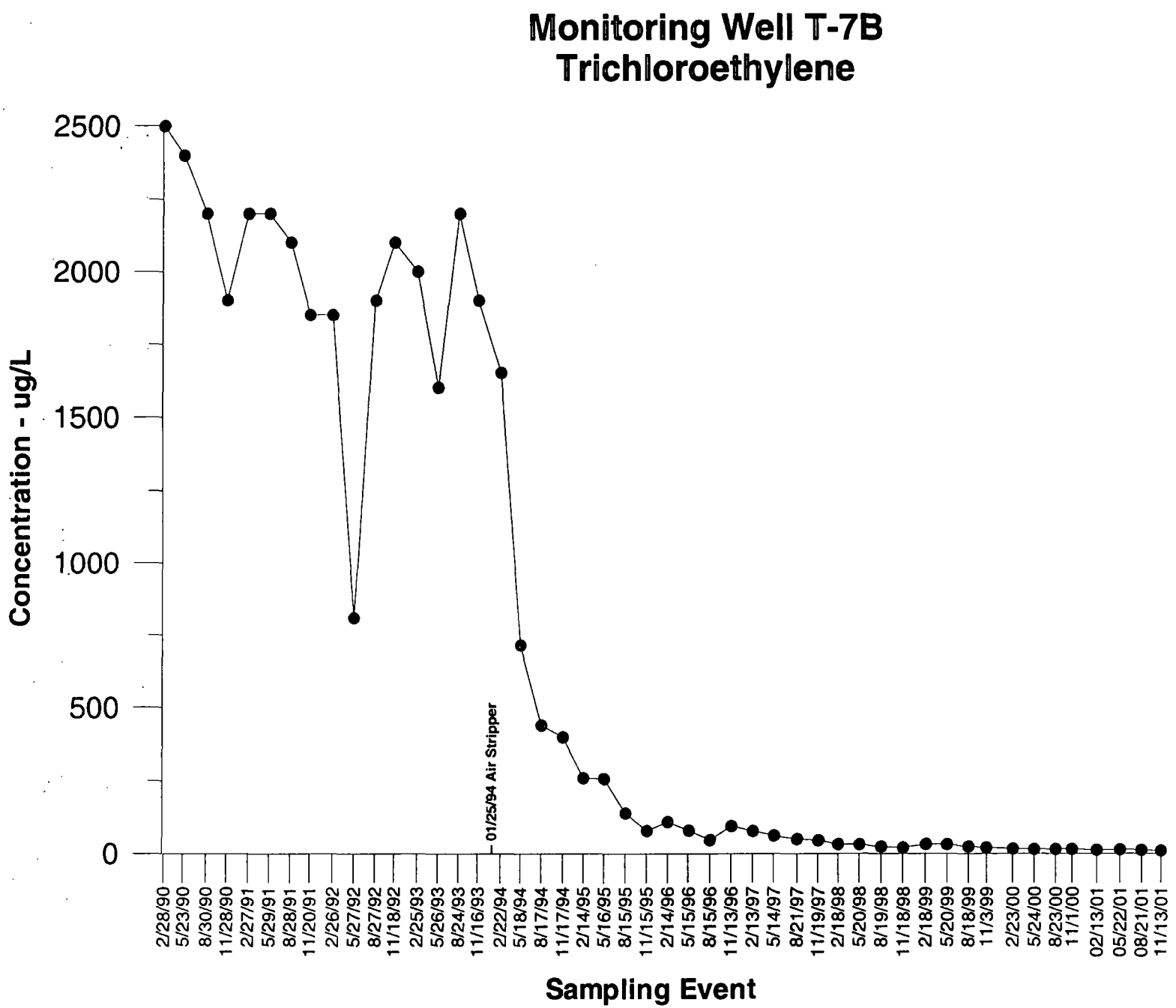

Figure 26. Time-series plot of TCE for investigative well T-7B.

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Trit-7b.grf

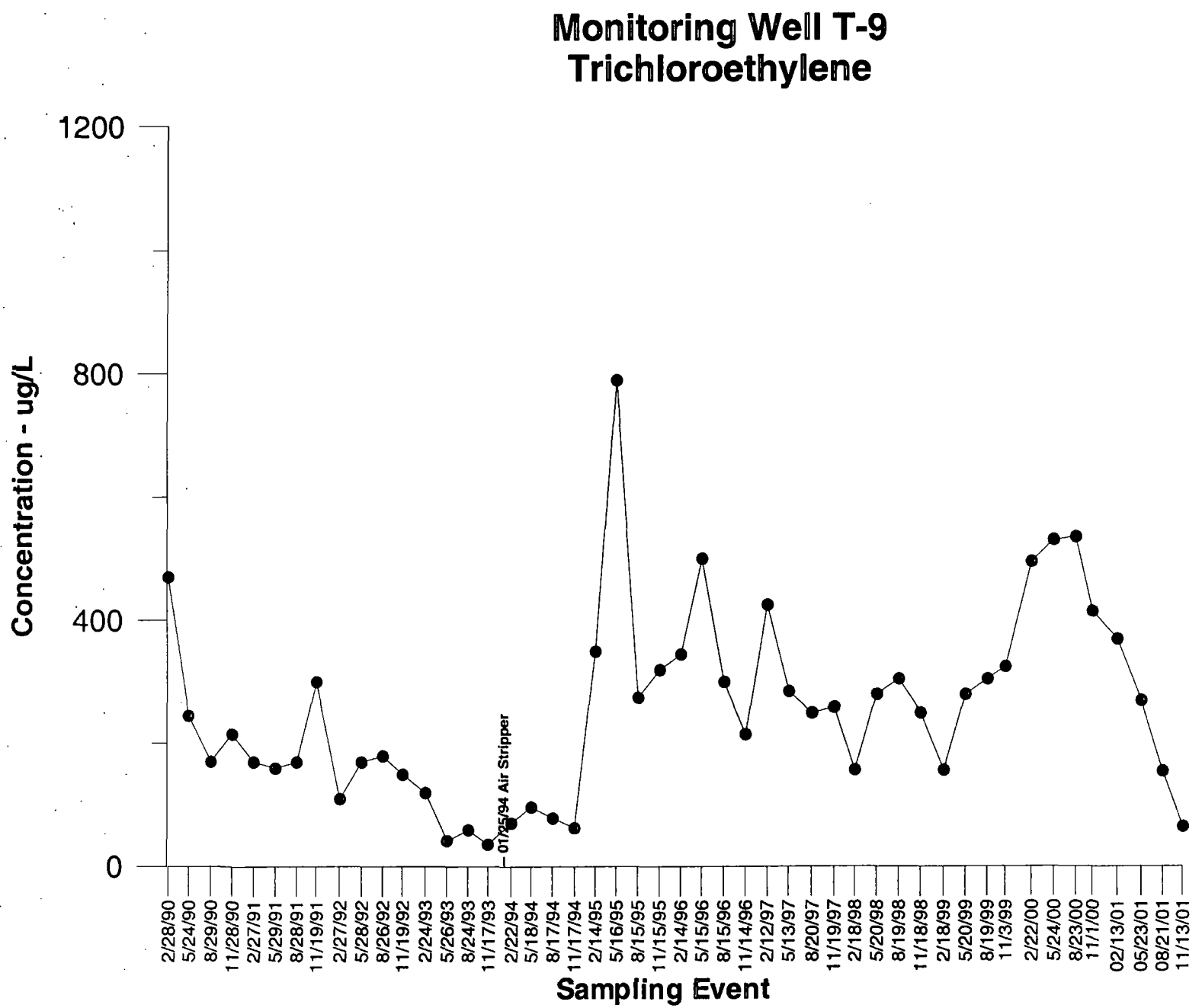

Figure 27. Time-series plot of TCE for investigative well T-9.

L:\work\19718.01\document\TCEAnnl\2001Annl\gwgraphs\Trit-9.grf

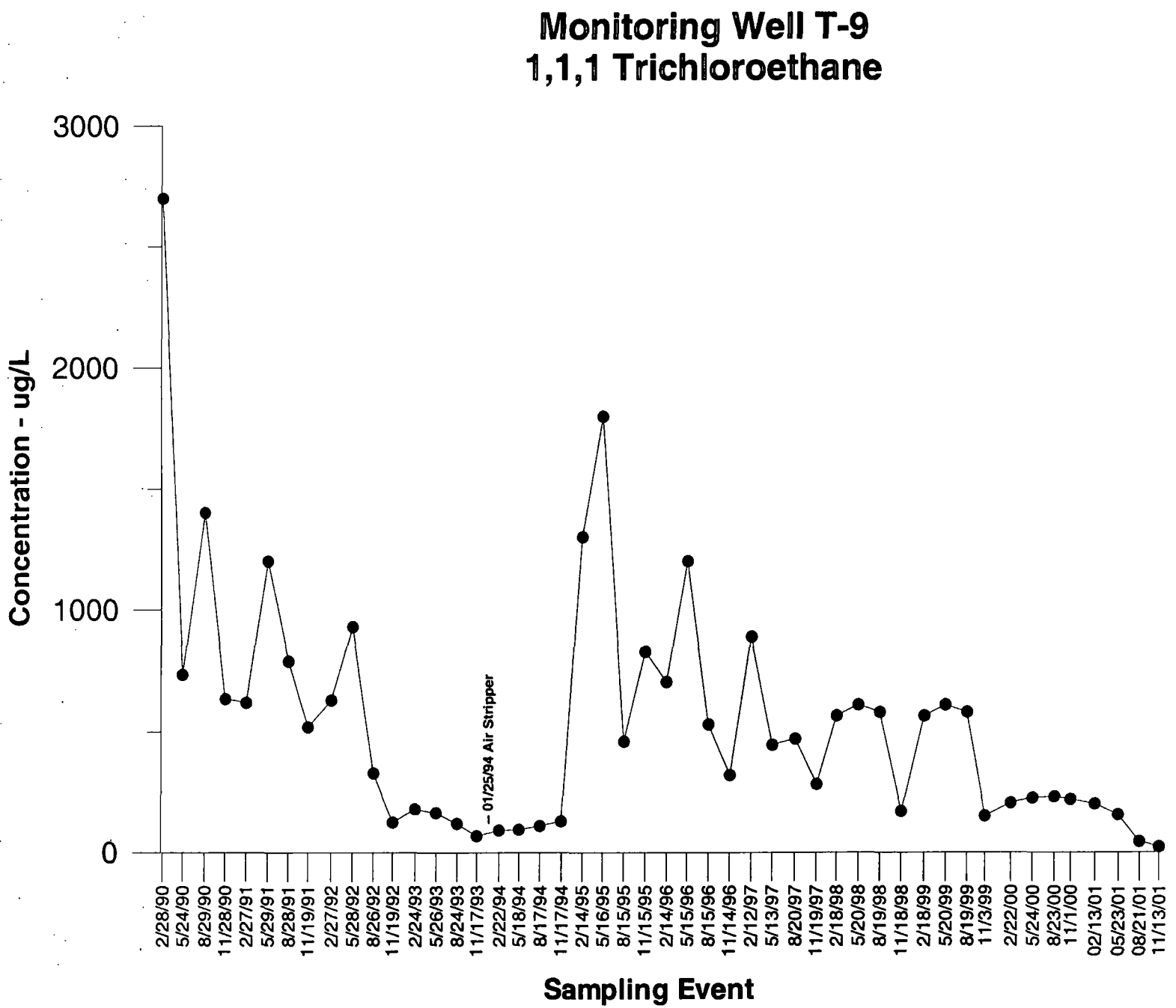

Figure 28. Time-series plot of TCA for investigative well T-9.

L:\work\19718.01\document\TCEAnnl\2001Annl\gwgraphs\Tcat-9.grf

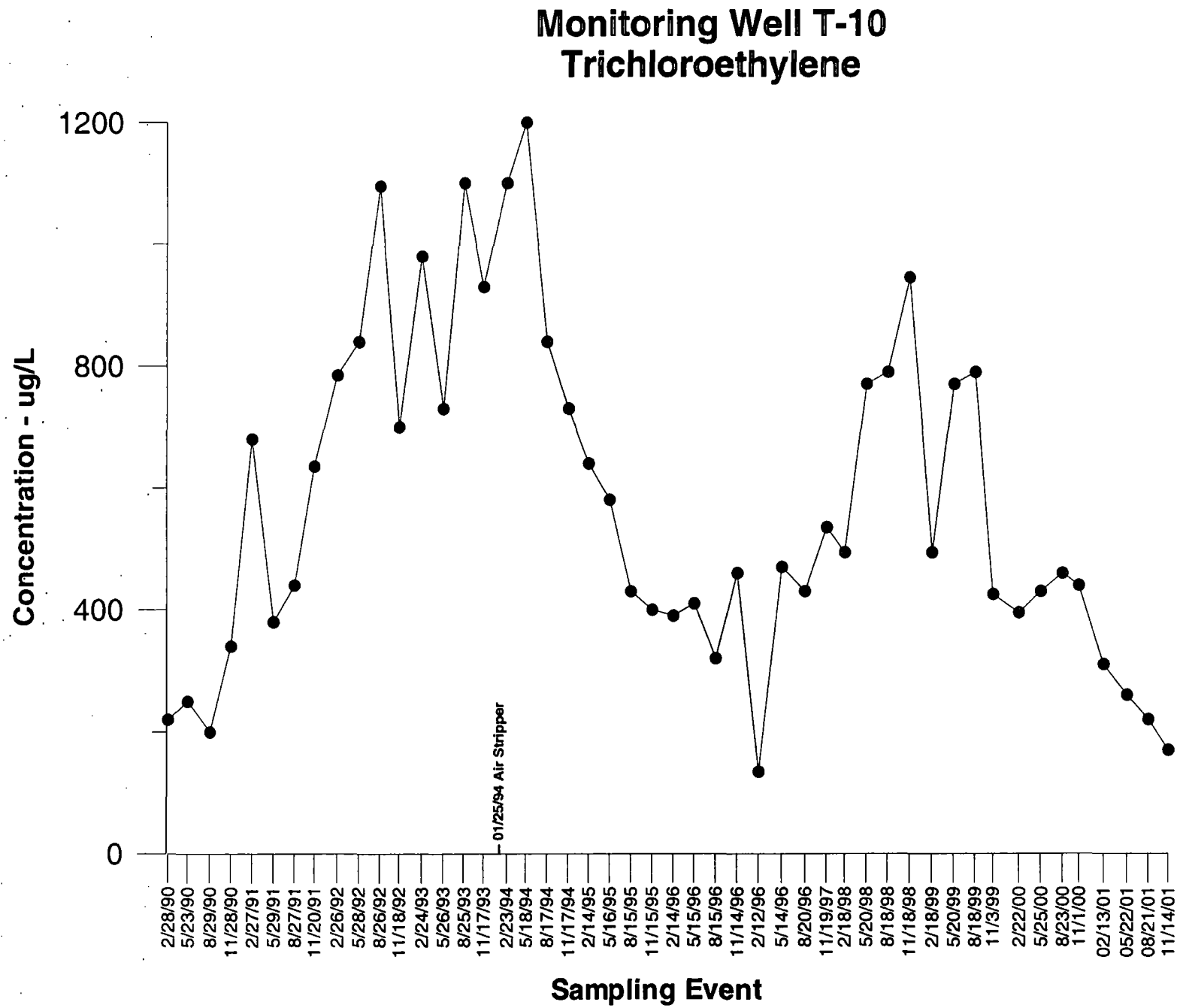

Figure 29. Time-series plot of TCE for investigative well T-10.

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Trit-10.grf

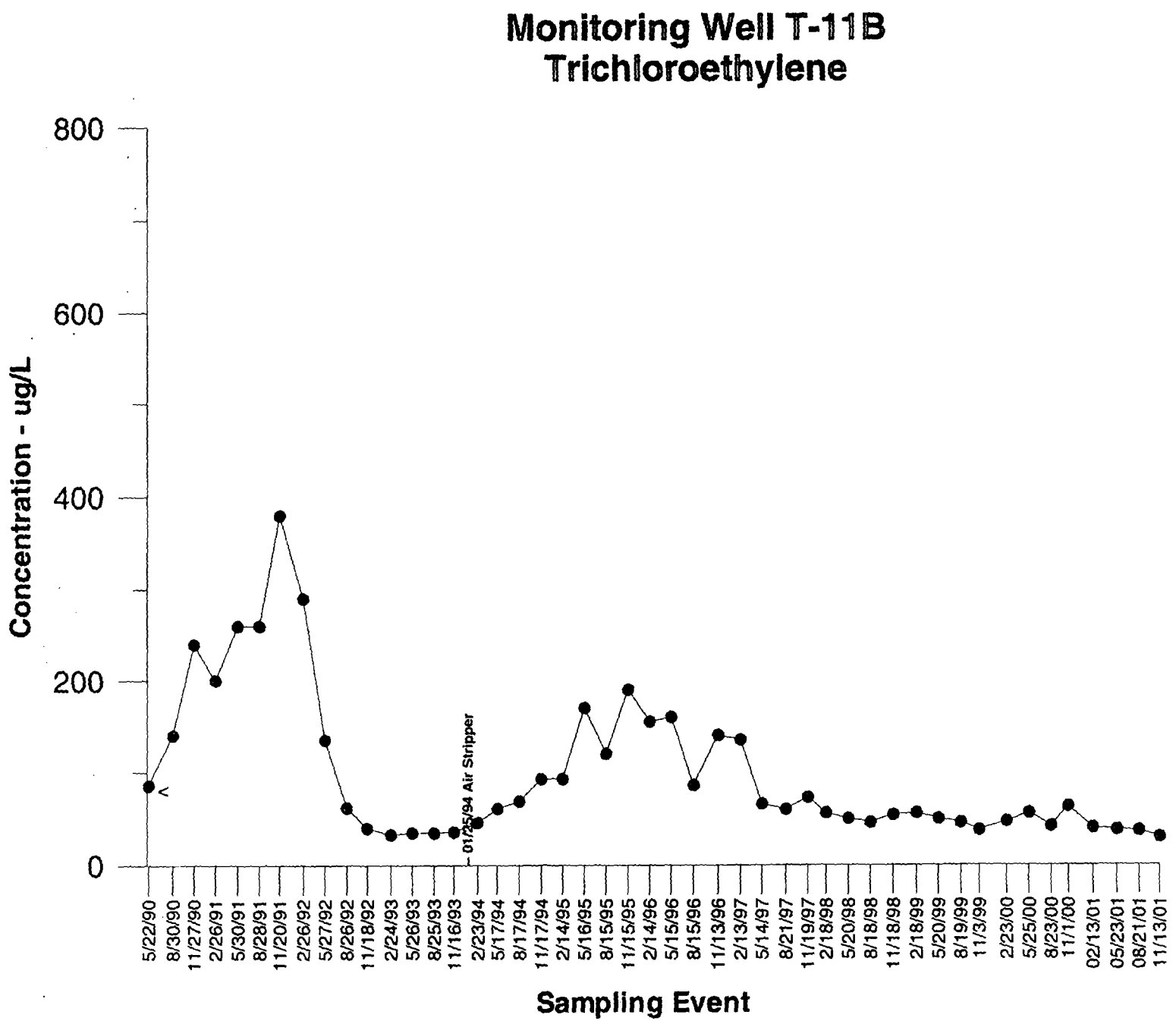

Figure 30. Time-series plot of TCE for investigative well T-11B.

2001Annl\qwgraphs\Trit-11b.grf

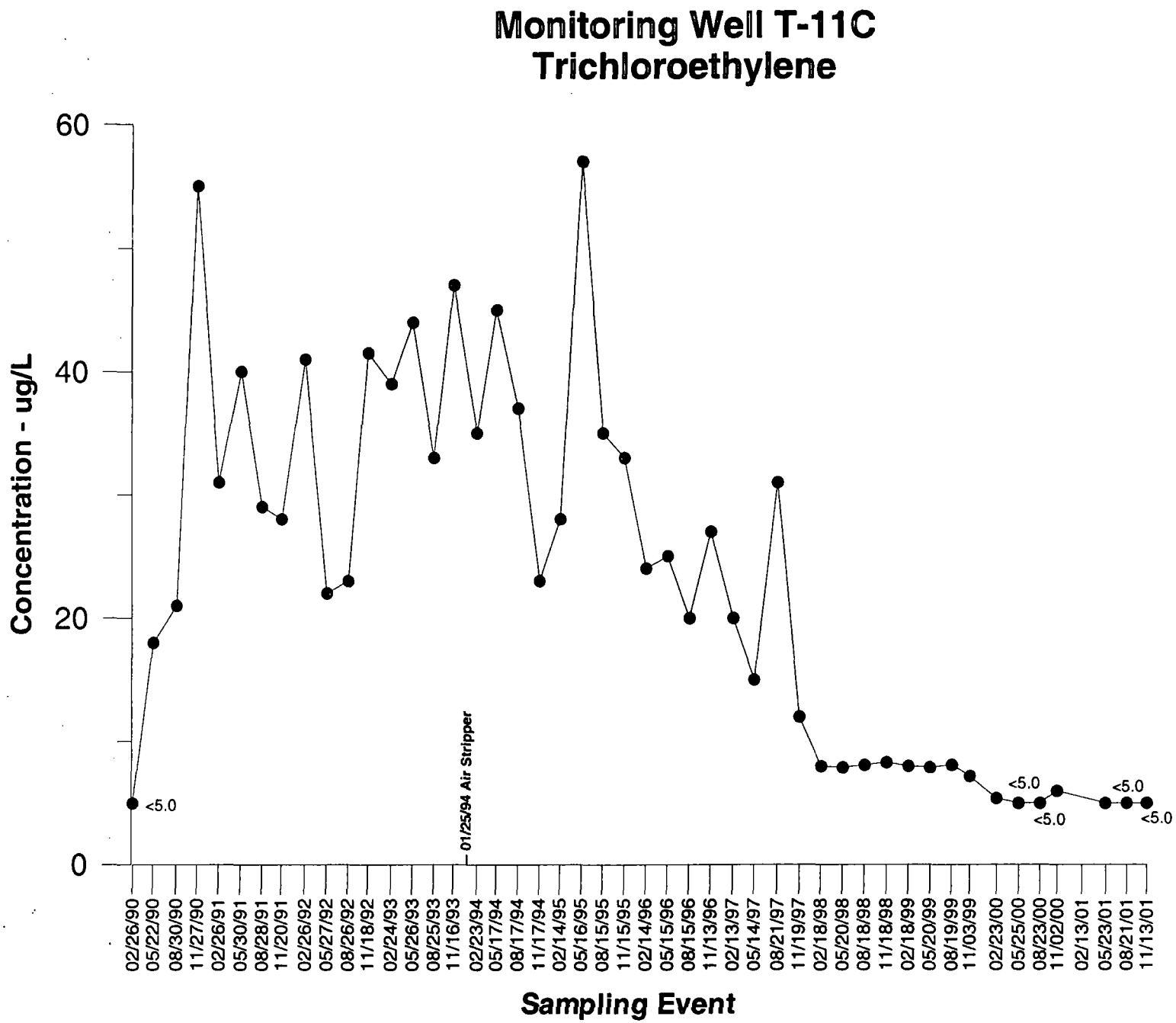

Figure 31. Time-series plot of TCE for investigative well T-11C.

L:\work\19718.01\document\TCEAnnl\2001Annl\gwgraphs\Trit-11C.grf

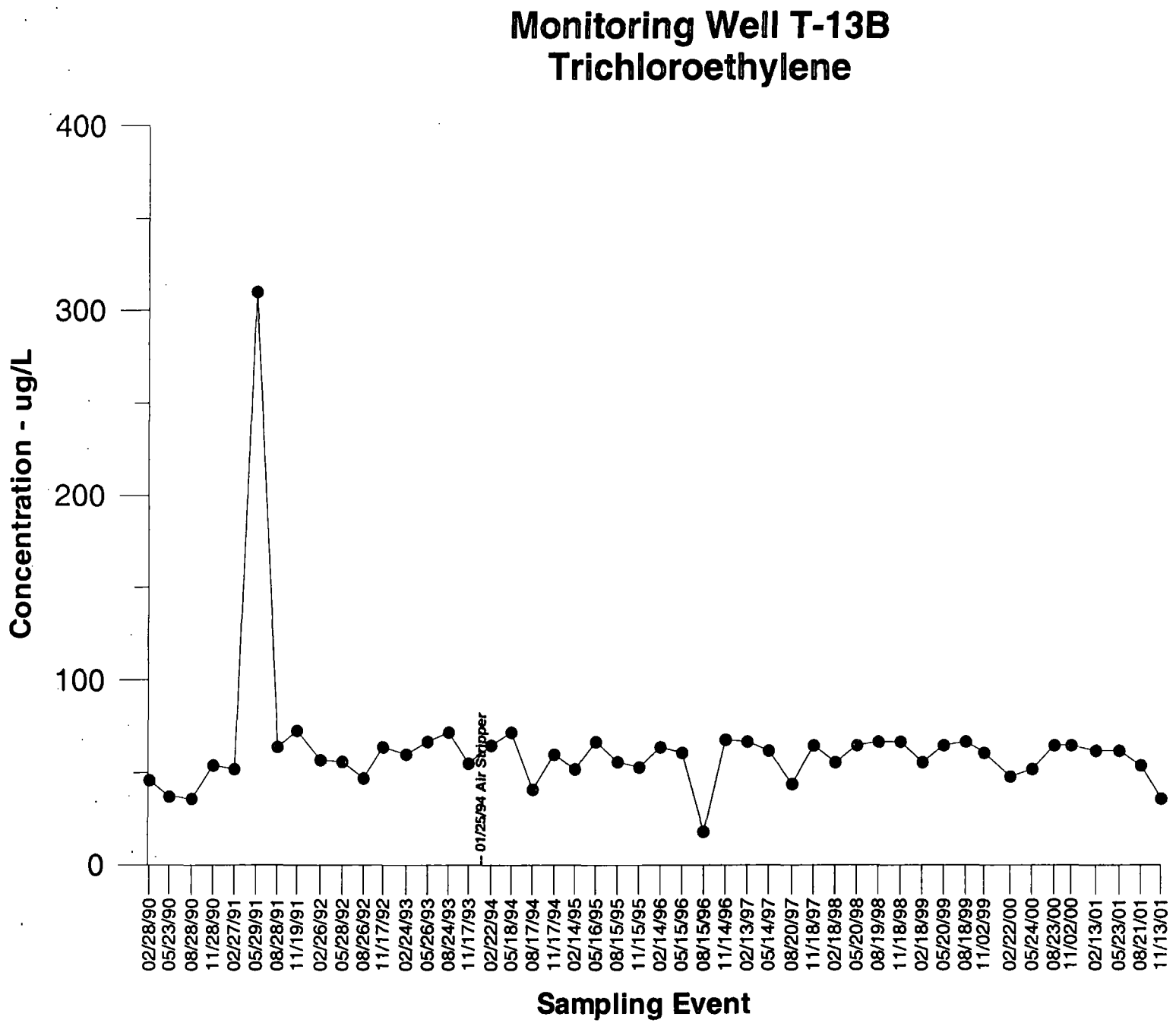

Figure 32. Time-series plot of TCE for investigative well T-13B.

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Trit-13b.grf

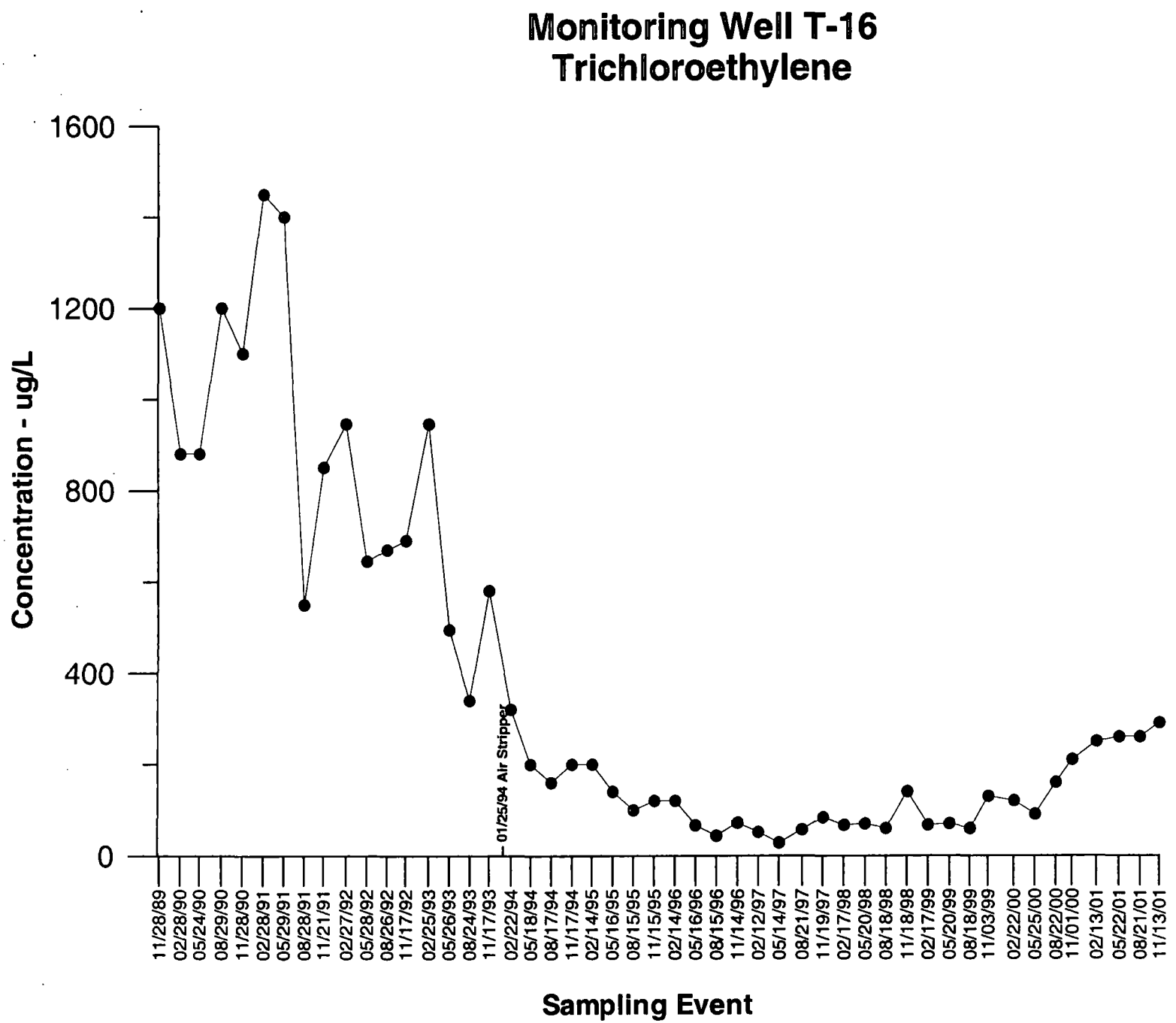

Figure 33. Time-series plot of TCE for investigative well T-16.

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Trit-16.grf

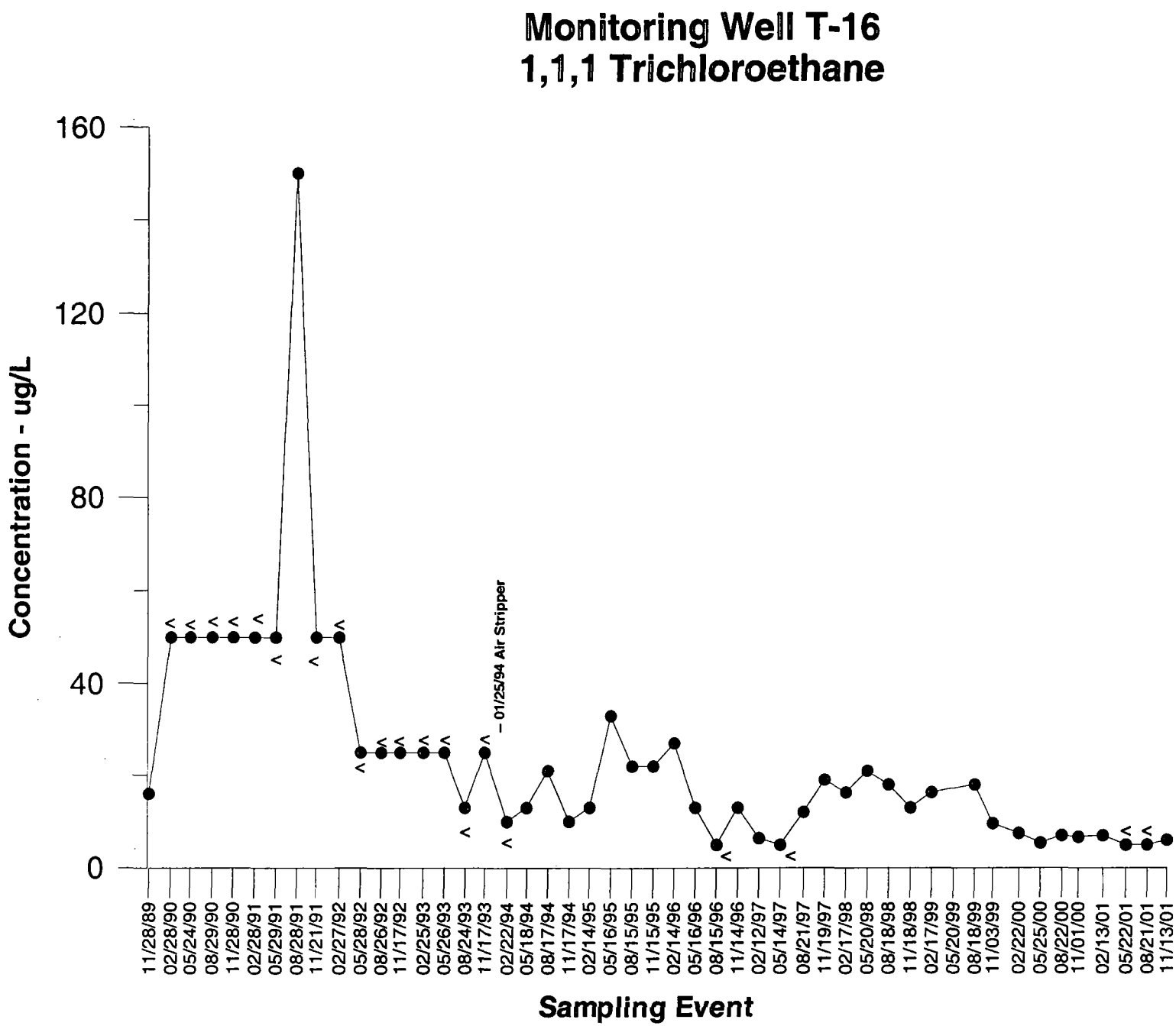

Figure 34. Time-series plot for TCA for investigative well T-16.

L:\work\19718.01\document\tceannl\2001annl\grwraphs\Tcat-16.grf

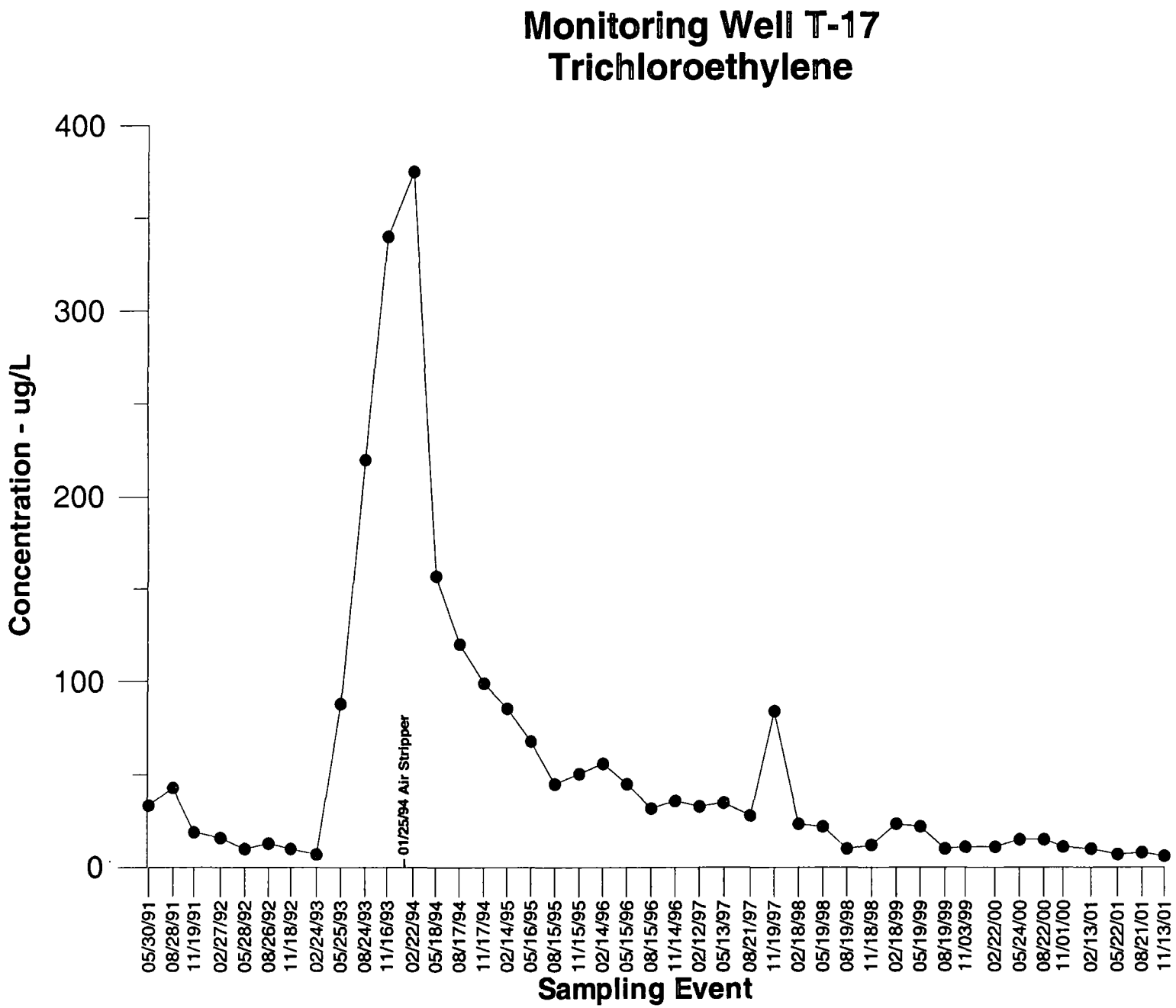

Figure 35. Time-series plot of TCE for investigative well T-17.

L:\work\19718.01\Document\TCEAnnl\2001Annl\gwgraphs\Trit-17.grf

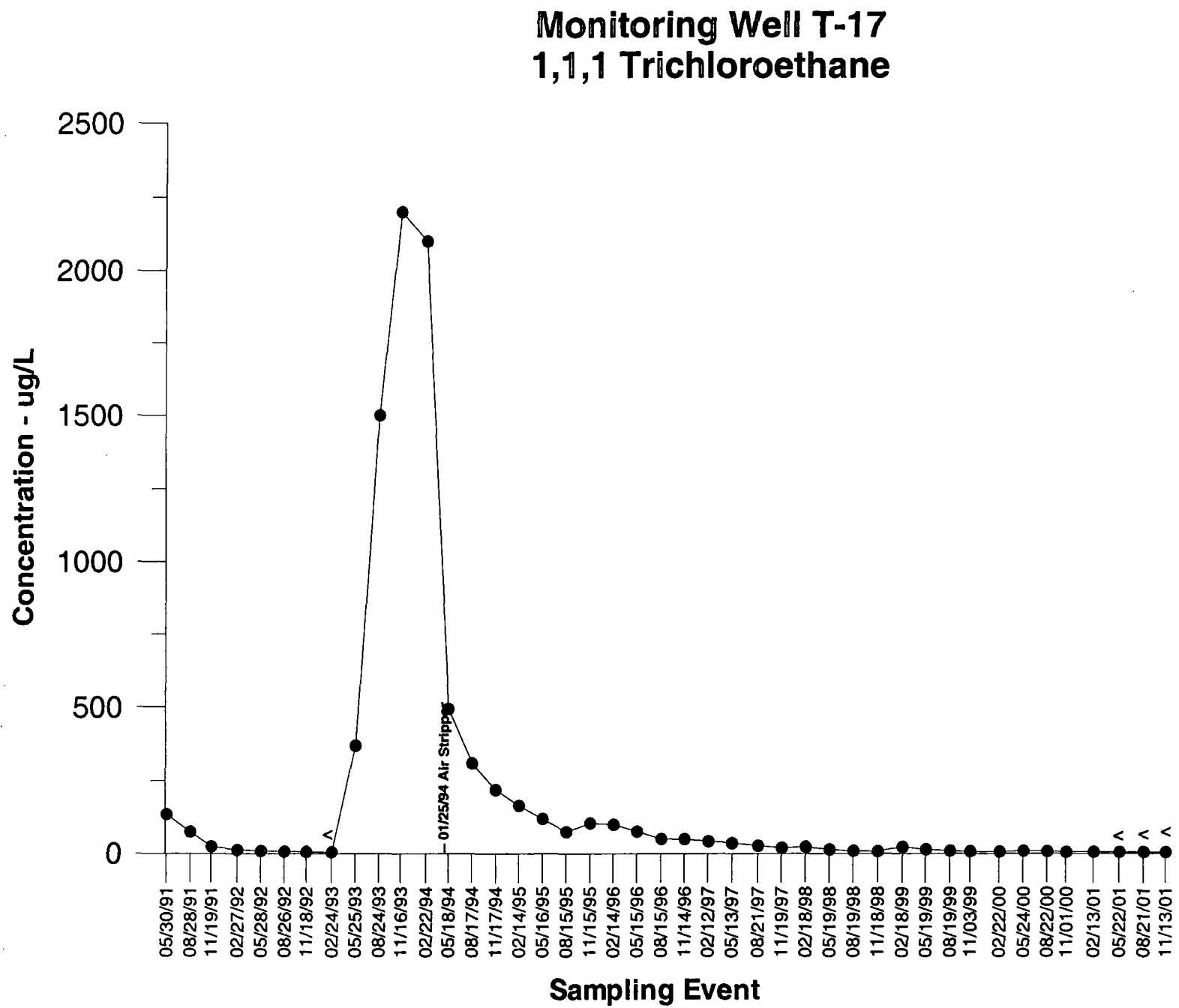

Figure 36. Time-series plot of TCA for investigative well T-17.

L:\work\19718.01\docmument\TCEAnnl\2001Annl\gwgraphs\Tcat-17.grf

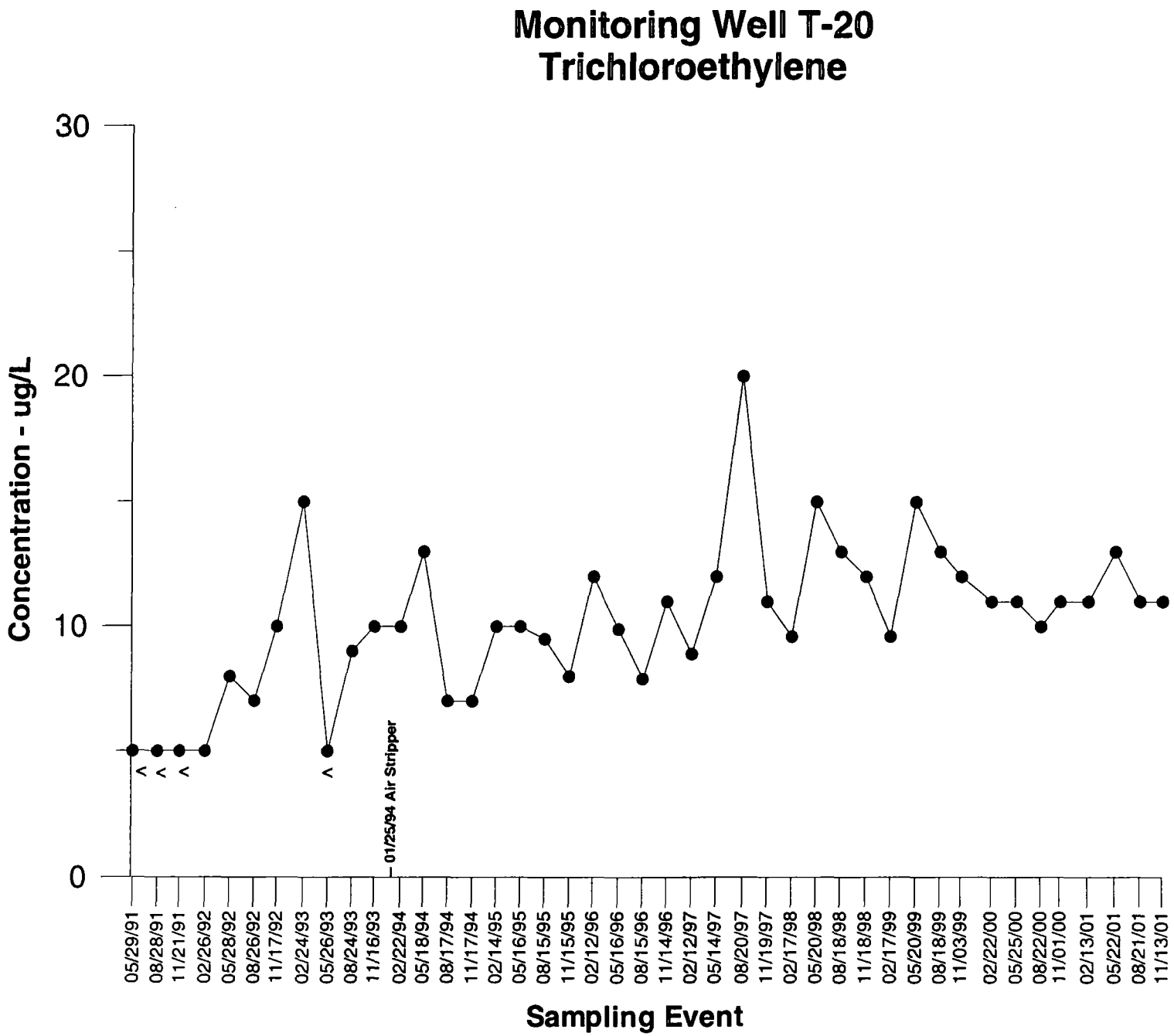

Figure 37. Time-series plot of TCE for investigative well T-20.

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Trit-20.grf

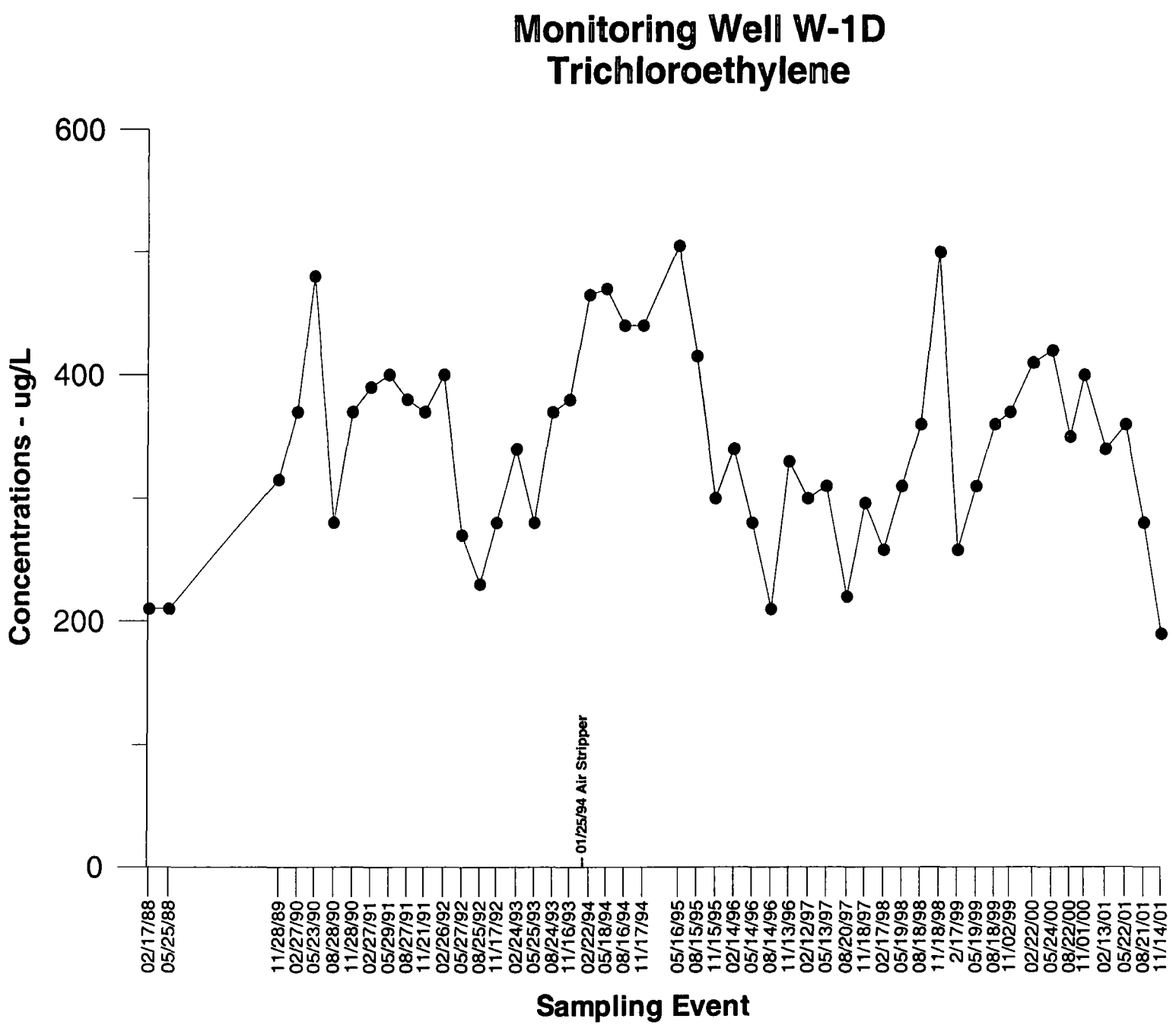

Figure 38. Time-series plot of TCE for investigative well W-1D.

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Triw-1d.grf

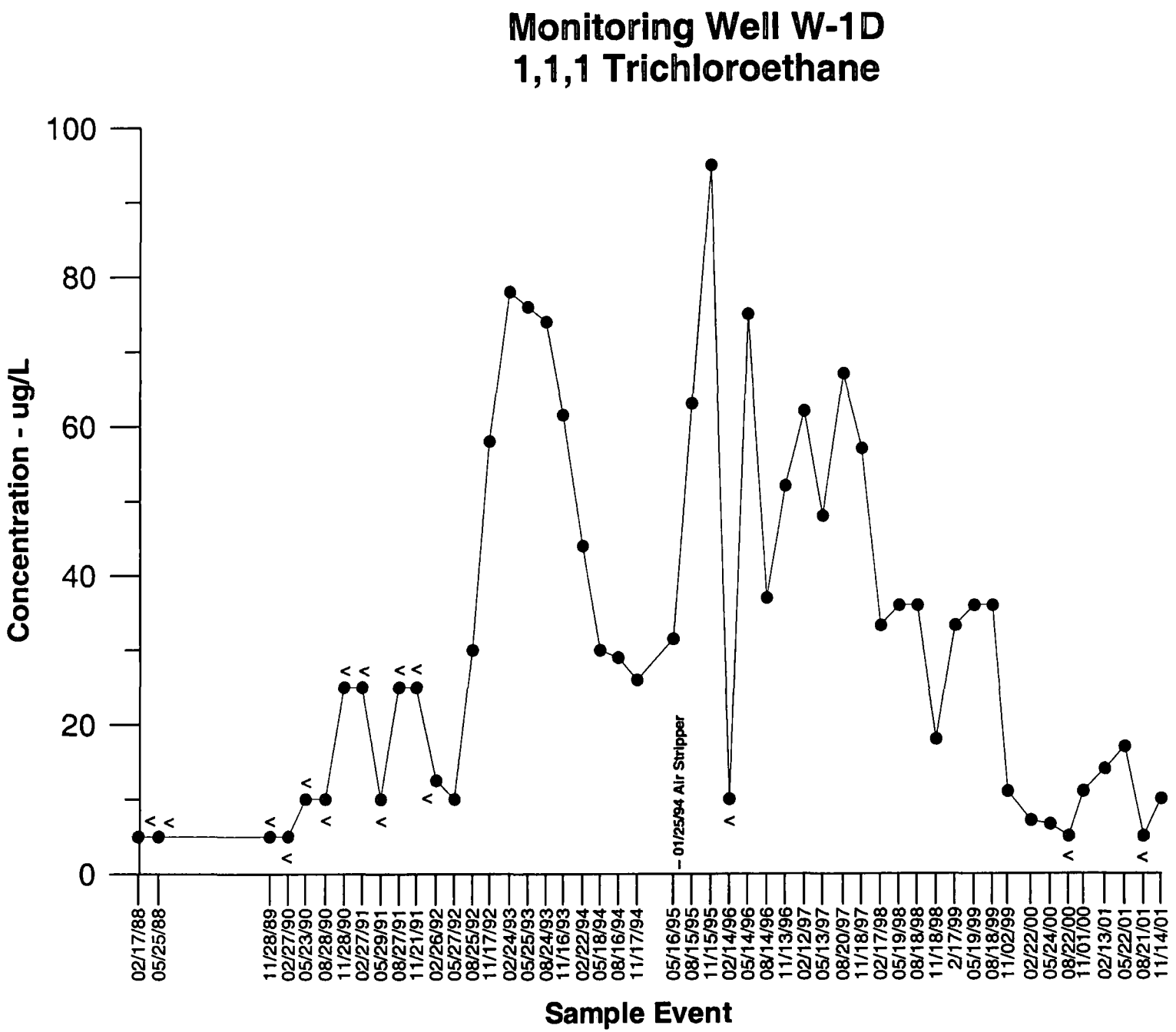

Figure 39. Time-series plot of TCA for investigative well W-1D.

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Tcaw-1d.grf

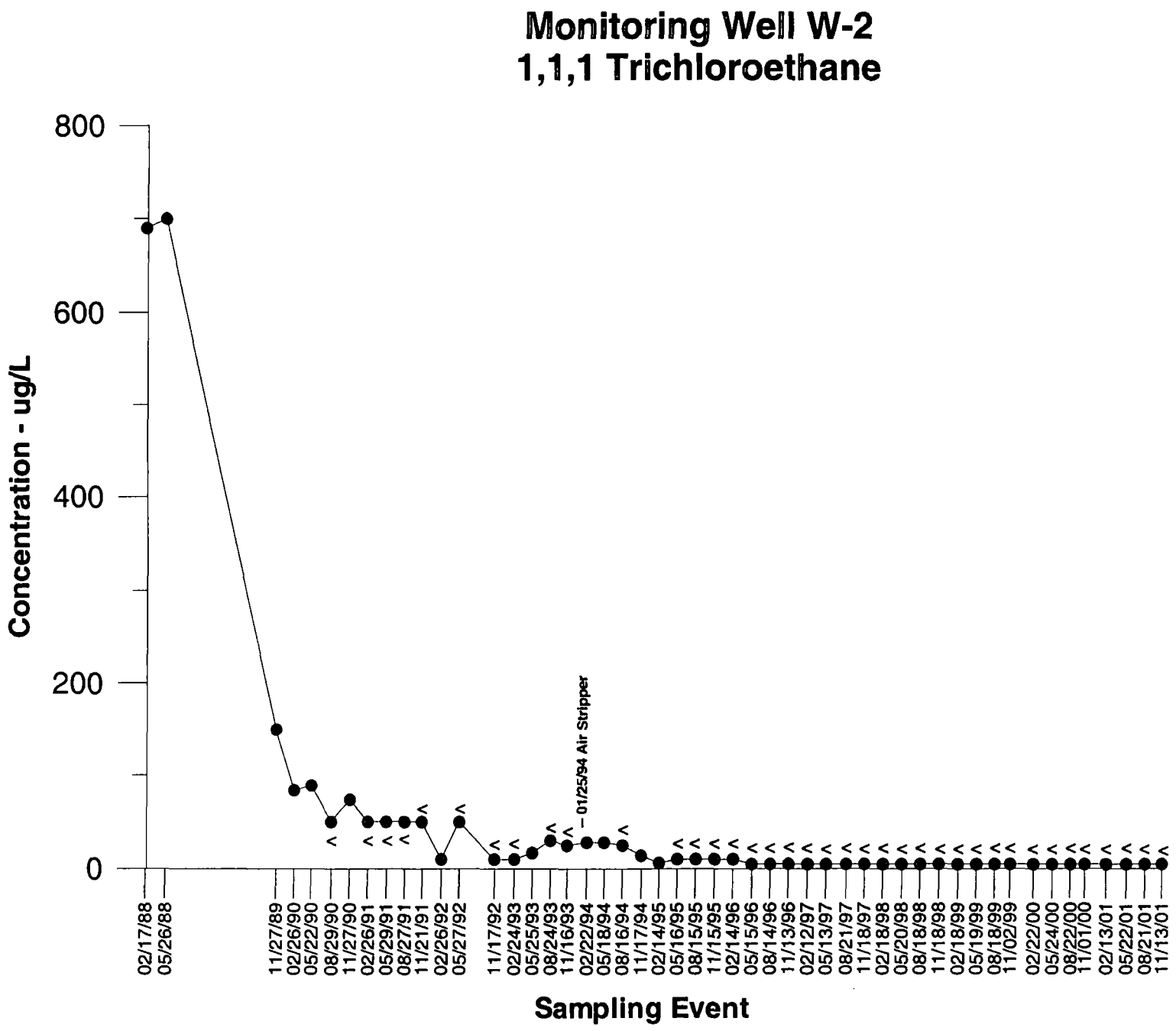

Figure 40. Time-series plot of TCA for investigative well W-2

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Tcaw-2.grf

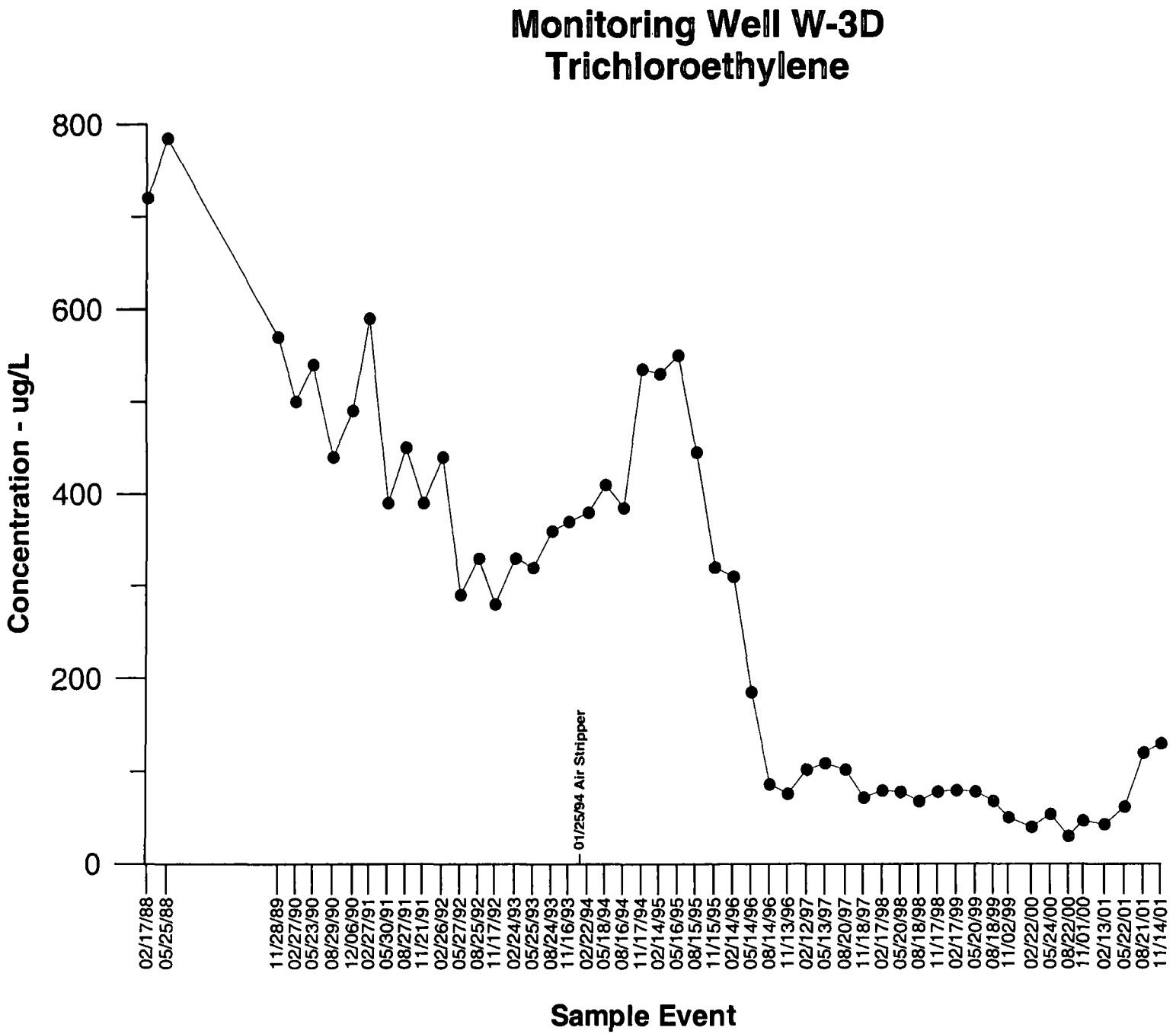

Figure 41. Time-series plot of TCE for investigative well W-3D.

L:\work\19718.01\document\TCEAnnl\2001Annl\gwgraphs\Triw-3d.grf

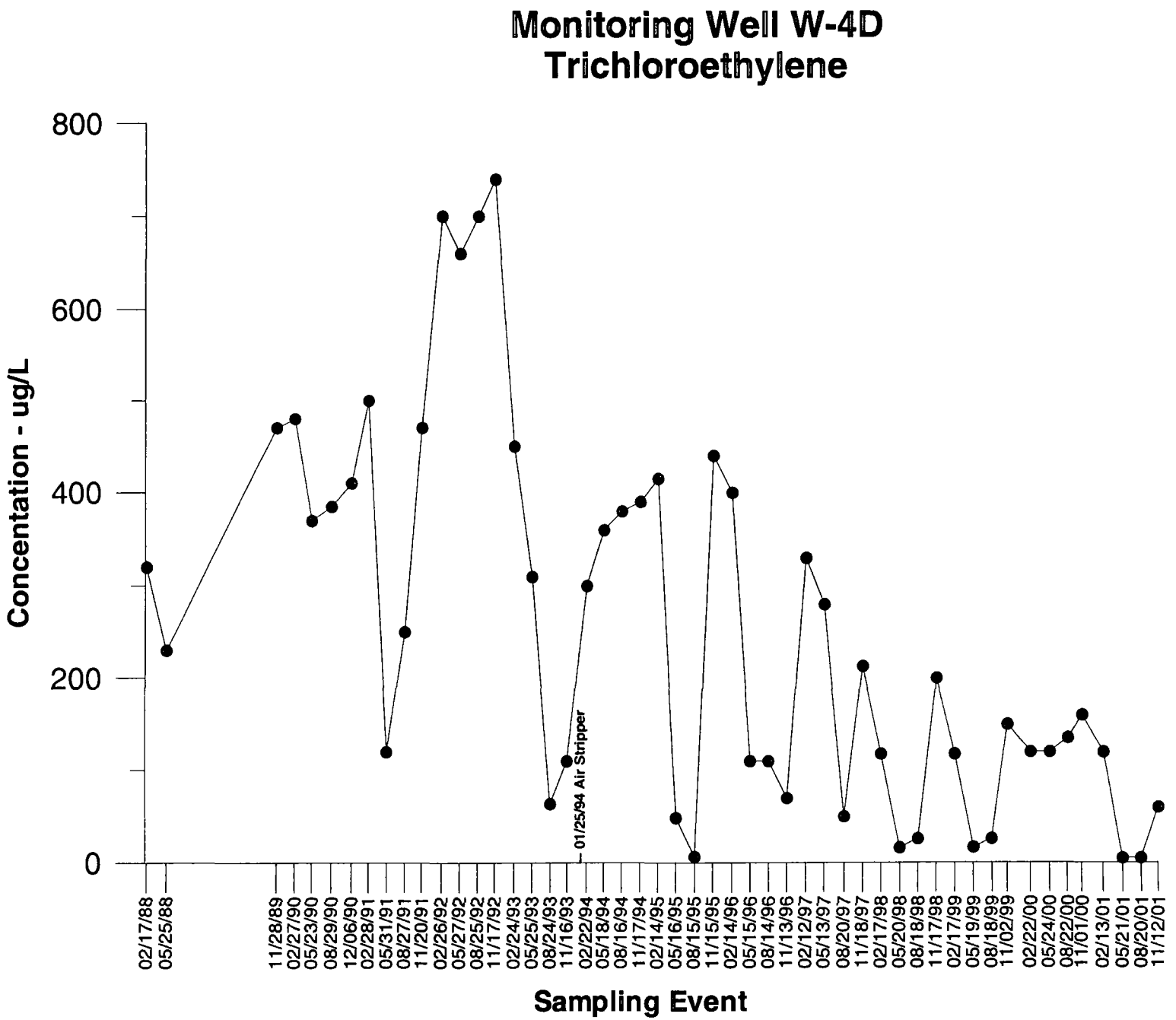

Figure 42. Time-series plot of TCE for investigative well W-4D.

L:\work\19718.01\document\tceannl\2001annl\gwgraphs\Triw-4d.grf

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[illegible] • [illegible] IL [illegible]
[illegible] • [illegible]-6651 • FAX [illegible]

CASE NARRATIVE – Earth Tech/Keystone

Ground Water Project No. 19718.03

PDC Laboratories, Inc. received 44 water samples on November 14, 2001, with custody seals intact and in good condition. The sample set was designated as sample delivery batch 01112204 for Volatile analysis.

Sample Ids		Date	
Field	Lab	Collected	Received
T-1	01112204-1	11/13/01	11/14/01
T-2A	01112204-2	11/13/01	11/14/01
T-2B	01112204-3	11/13/01	11/14/01
T-3	01112204-4	11/13/01	11/14/01
T-4A	01112204-5	11/13/01	11/14/01
T-4B	01112204-6	11/13/01	11/14/01
T-5A	01112204-7	11/13/01	11/14/01
T-5B	01112204-8	11/13/01	11/14/01
T-5C	01112204-9	11/13/01	11/14/01
T-6A	01112204-10	11/13/01	11/14/01
T-6B	01112204-11	11/13/01	11/14/01
T-6C	01112204-12	11/13/01	11/14/01
T-7A	01112204-13	11/13/01	11/14/01
T-7B	01112204-14	11/13/01	11/14/01
T-8	01112204-15	11/13/01	11/14/01
T-9	01112204-16	11/13/01	11/14/01
T-10	01112204-17	11/13/01	11/14/01
T-11A	01112204-18	11/13/01	11/14/01

PDC Laboratories, Inc.
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11B	01112204-19	11/13/01	11/14/01
T-11C	01112204-20	11/13/01	11/14/01
T-13-B	01112204-21	11/13/01	11/14/01
T-15	01112204-22	11/13/01	11/14/01
T-16	01112204-23	11/13/01	11/14/01
T-17	01112204-24	11/13/01	11/14/01
T-18	01112204-25	11/13/01	11/14/01
T-19B	01112204-26	11/13/01	11/14/01
T-19C	01112204-27	11/13/01	11/14/01
T-20	01112204-28	11/13/01	11/14/01
T-21R	01112204-29	11/13/01	11/14/01
T-22A	01112204-30	11/13/01	11/14/01
T-22B	01112204-31	11/13/01	11/14/01
W-1D	01112204-32	11/13/01	11/14/01
W-2	01112204-33	11/13/01	11/14/01
W-3D	01112204-34	11/13/01	11/14/01
W-4D	01112204-35	11/13/01	11/14/01
DUP-4	01112204-36	11/13/01	11/14/01
DUP05	01112204-37	11/13/01	11/14/01
DUP-6	01112204-38	11/13/01	11/14/01
DUP-7	01112204-39	11/13/01	11/14/01
BLANK 304	01112204-40	11/13/01	11/14/01
BLANK 202	01112204-41	11/13/01	11/14/01
BLANK 307	01112204-42	11/13/01	11/14/01
BLANK 118	01112204-43	11/13/01	11/14/01
TRIP BLANK	01112204-44	11/13/01	11/14/01

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Project Summary

These samples were prepared and analyzed for Volatiles in accordance with the following Methodology: SW846 8260.

VOA QC Summary

All holding time criteria were met for all samples.

All Initial and Continuing Calibration Standards met laboratory QC acceptance criteria.

All Method Blanks were free of contamination for target analytes.

All Surrogate recoveries were within specified QC limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD) were performed on samples 01112204-7 and 01112204-29. All recoveries were within the specified QC criteria except for Trichloroethene in sample 01112204-7.

All associated Laboratory Control Sample (LCS) recoveries were within QC acceptance criteria.

A dilution of 1:5 was performed on samples 01112204-1 T-1, 01112204-4 T-3, and 01112204-23 T-16.

Certification

This data package is in compliance with the technical intent of Earth Tech's contract, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Signature:	Barbara Beard	Name:	Barbara Beard
Date:	December 18, 01	Title:	Project Manager

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ACCREDITED IN ACCORDANCE WITH nelac

Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

Method	Parameter				
	Laboratory Sample No.:		01112204-1	01112204-1	01112204-2
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-1	T-1	T-2A
	Date Collected:		13-NOV-01 17:30:00	13-NOV-01 17:30:00	13-NOV-01 14:20:00
			D5:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l		10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l		1 U	1 U
SW8260B/SW5030B	Bromomethane	ug/l		10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l		10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l		5 U	5 U
SW8260B/SW5030B	Acetone	ug/l		5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l		5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l		5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethane	ug/l		5 U	5 U
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l		5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l		37	5 U
SW8260B/SW5030B	Chloroform	ug/l		5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l		5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l		5 U	52
SW8260B/SW5030B	1,4-Dioxane	ug/l		25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l		5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l		5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l		5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l		5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l		5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	240		130
SW8260B/SW5030B	Dibromochloromethane	ug/l		5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l		5 U	5 U
SW8260B/SW5030B	Benzene	ug/l		5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l		5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l		5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l		5 U	5 U

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PDC Laboratories, Inc.
PO Box 3071 • Peoria, IL 61612-3071
(309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689

Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-1	01112204-1	01112204-2
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-1	T-1	T-2A
	Date Collected:		13-NOV-01 17:30:00	13-NOV-01 17:30:00	13-NOV-01 14:20:00
Method	Parameter		D5:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l		5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l		5 U	5 U
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l		5 U	5 U
SW8260B/SW5030B	Toluene	ug/l		5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l		5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l		5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l		5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l		5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l		5 U	5 U
SW8260B/SW5030B	Styrene	ug/l		5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

Method	Parameter		01112204-3	01112204-4	01112204-4
	Laboratory Sample No.:		01112204-3	01112204-4	01112204-4
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-2B	T-3	T-3
	Date Collected:		13-NOV-01 15:10:00	14-NOV-01 11:30:00	14-NOV-01 11:30:00
			D1:1	D5:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U		10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U		1 U
SW8260B/SW5030B	Bromomethane	ug/l	10 U		10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U		10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U		5 U
SW8260B/SW5030B	Acetone	ug/l	5 U		5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U		5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	5 U		5 U
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U		15
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U		5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	5 U		47
SW8260B/SW5030B	Chloroform	ug/l	5 U		5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U		5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U		44
SW8260B/SW5030B	1,4-Dioxane	ug/l	740		25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U		5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U		5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U		5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U		5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U		5 U
SW8260B/SW5030B	Trichloroethene	ug/l	5 U		94
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U		5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U		5 U
SW8260B/SW5030B	Benzene	ug/l	5 U		5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U		5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U		5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U		5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-3	01112204-4	01112204-4
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-2B	T-3	T-3
	Date Collected:		13-NOV-01 15:10:00	14-NOV-01 11:30:00	14-NOV-01 11:30:00
Method	Parameter		D1:1	D5:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U		5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	350	
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U		5 U
SW8260B/SW5030B	Toluene	ug/l	5 U		5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U		5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U		5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U		5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U		5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U		5 U
SW8260B/SW5030B	Styrene	ug/l	5 U		5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-5	01112204-6	01112204-7
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-4A	T-4B	T-5A
	Date Collected:		13-NOV-01 11:45:00	13-NOV-01 12:40:00	13-NOV-01 11:30:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U	1 U	1 U
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	5 U	65	5 U
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U	20	5 U
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	5 U	20	5 U
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U	140	5 U
SW8260B/SW5030B	1,4-Dioxane	ug/l	250	25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	57	110	5 U
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-5	01112204-6	01112204-7
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-4A	T-4B	T-5A
	Date Collected:		13-NOV-01 11:45:00	13-NOV-01 12:40:00	13-NOV-01 11:30:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-8	01112204-9	01112204-10
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-5B	T-5C	T-6A
	Date Collected:		13-NOV-01 11:35:00	13-NOV-01 11:40:00	13-NOV-01 11:55:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U	1 U	1 U
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	5 U	5 U	9
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U	5 U	12
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U	5 U	35
SW8260B/SW5030B	1,4-Dioxane	ug/l	25 U	25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-8	01112204-9	01112204-10
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-5B	T-5C	T-6A
	Date Collected:		13-NOV-01 11:35:00	13-NOV-01 11:40:00	13-NOV-01 11:55:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

Laboratory Sample No.:			01112204-11	01112204-12	01112204-13
Client Description:			GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
Site/Locator:			T-6B	T-6C	T-7A
Date Collected:			13-NOV-01 12:35:00	13-NOV-01 14:05:00	13-NOV-01 09:10:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U	1 U	1 U
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,4-Dioxane	ug/l	25 U	25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	32	5 U	5 U
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U

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Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-11	01112204-12	01112204-13
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-6B	T-6C	T-7A
	Date Collected:		13-NOV-01 12:35:00	13-NOV-01 14:05:00	13-NOV-01 09:10:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U	5 U

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Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-14	01112204-15	01112204-16
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-7B	T-8	T-9
	Date Collected:		13-NOV-01 09:50:00	13-NOV-01 17:00:00	13-NOV-01 10:35:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U	1 U	1 U
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	5 U	5 U	5
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U	5 U	23
SW8260B/SW5030B	1,4-Dioxane	ug/l	25 U	25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	10	5 U	67
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U

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(309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689

Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-14	01112204-15	01112204-16
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-7B	T-8	T-9
	Date Collected:		13-NOV-01 09:50:00	13-NOV-01 17:00:00	13-NOV-01 10:35:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	5 U	72
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

Method	Parameter		01112204-17	01112204-18	01112204-19
Laboratory Sample No.:			01112204-17	01112204-18	01112204-19
Client Description:			GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
Site/Locator:			T-10	T-11A	T-11B
Date Collected:			14-NOV-01 10:10:00	13-NOV-01 15:30:00	13-NOV-01 15:20:00
			D1:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	16	1 U	1 U
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	9	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	12	5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	190	5 U	5 U
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,4-Dioxane	ug/l	25 U	25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	170	5 U	30
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-17	01112204-18	01112204-19
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-10	T-11A	T-11B
	Date Collected:		14-NOV-01 10:10:00	13-NOV-01 15:30:00	13-NOV-01 15:20:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	8	5 U	5 U
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-20	01112204-21	01112204-22
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-11C	T-13B	T-15
	Date Collected:		13-NOV-01 15:25:00	13-NOV-01 11:00:00	12-NOV-01 16:30:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U	3	1 U
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	5 U	100	5 U
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,4-Dioxane	ug/l	25 U	25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	5 U	36	5 U
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-20	01112204-21	01112204-22
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-11C	T-13B	T-15
	Date Collected:		13-NOV-01 15:25:00	13-NOV-01 11:00:00	12-NOV-01 16:30:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-23	01112204-23	01112204-24
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-16	T-16	T-17
	Date Collected:		13-NOV-01 16:00:00	13-NOV-01 16:00:00	13-NOV-01 16:40:00
Method	Parameter		D5:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l		10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l		1 U	1 U
SW8260B/SW5030B	Bromomethane	ug/l		10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l		10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l		5 U	5 U
SW8260B/SW5030B	Acetone	ug/l		5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l		5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l		5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethane	ug/l		23	5 U
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l		5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l		12	5 U
SW8260B/SW5030B	Chloroform	ug/l		5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l		5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l		6	5 U
SW8260B/SW5030B	1,4-Dioxane	ug/l		25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l		5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l		5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l		5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l		5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l		5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	290		6
SW8260B/SW5030B	Dibromochloromethane	ug/l		5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l		5 U	5 U
SW8260B/SW5030B	Benzene	ug/l		5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l		5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l		5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l		5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-23	01112204-23	01112204-24
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-16	T-16	T-17
	Date Collected:		13-NOV-01 16:00:00	13-NOV-01 16:00:00	13-NOV-01 16:40:00
Method	Parameter		D5:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l		5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l		5 U	20
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l		5 U	5 U
SW8260B/SW5030B	Toluene	ug/l		5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l		5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l		5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l		5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l		5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l		5 U	5 U
SW8260B/SW5030B	Styrene	ug/l		5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-25	01112204-26	01112204-27
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-18	T-19B	T-19C
	Date Collected:		13-NOV-01 13:30:00	13-NOV-01 10:40:00	13-NOV-01 11:55:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U	1 U	1 U
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,4-Dioxane	ug/l	25 U	25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	5 U	7	5 U
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U

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(309) 692-9688 • (800) 752-6651 • FAX (309) 692-9689

Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-25	01112204-26	01112204-27
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-18	T-19B	T-19C
	Date Collected:		13-NOV-01 13:30:00	13-NOV-01 10:40:00	13-NOV-01 11:55:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-28	01112204-29	01112204-30
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-20	T-21R	T-22A
	Date Collected:		13-NOV-01 11:25:00	13-NOV-01 13:15:00	13-NOV-01 08:25:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U	1 U	1 U
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,4-Dioxane	ug/l	25 U	25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	11	5 U	5 U
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-28	01112204-29	01112204-30
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-20	T-21R	T-22A
	Date Collected:		13-NOV-01 11:25:00	13-NOV-01 13:15:00	13-NOV-01 08:25:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U	5 U

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5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-31	01112204-32	01112204-33
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-22B	W-1D	W-2
	Date Collected:		13-NOV-01 10:05:00	14-NOV-01 09:30:00	13-NOV-01 13:45:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U	1 U	2
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	5 U	5 U	5
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U	5 U	80
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U	10	5 U
SW8260B/SW5030B	1,4-Dioxane	ug/l	25 U	82	500
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	5 U	190	5 U
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U

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Earth Tech
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Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-31	01112204-32	01112204-33
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		T-22B	W-1D	W-2
	Date Collected:		13-NOV-01 10:05:00	14-NOV-01 09:30:00	13-NOV-01 13:45:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-34	01112204-35	01112204-36
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		W-3D	W-4D	DUP-4
	Date Collected:		14-NOV-01 09:30:00	13-NOV-01 15:15:00	13-NOV-01 12:00:00
Method	Parameter		D1:1	D1:R2	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U	3	1 U
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	26	5 U	10
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	10	5 U	13
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	23	13	5 U
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	7	5 U	40
SW8260B/SW5030B	1,4-Dioxane	ug/l	25 U	25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	130	60	5 U
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-34	01112204-35	01112204-36
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		W-3D	W-4D	DUP-4
	Date Collected:		14-NOV-01 09:30:00	13-NOV-01 15:15:00	13-NOV-01 12:00:00
Method	Parameter		D1:1	D1:R2	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-37	01112204-38	01112204-39
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		DUP-5	DUP-6	DUP-7
	Date Collected:		13-NOV-01 12:00:00	13-NOV-01 12:00:00	14-NOV-01 12:00:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U	1 U	17
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	5 U	6	9
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U	5 U	12
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	5 U	5 U	190
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U	21	5 U
SW8260B/SW5030B	1,4-Dioxane	ug/l	25 U	25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	10	63	170
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U

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Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-37	01112204-38	01112204-39
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		DUP-5	DUP-6	DUP-7
	Date Collected:		13-NOV-01 12:00:00	13-NOV-01 12:00:00	14-NOV-01 12:00:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	66	8
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-40	01112204-41	01112204-42
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		BLANK 304	BLANK 202	BLANK 307
	Date Collected:		13-NOV-01 13:50:00	13-NOV-01 08:20:00	13-NOV-01 08:15:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U	1 U	1 U
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,4-Dioxane	ug/l	25 U	39	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-40	01112204-41	01112204-42
	Client Description:		GROUND WATER REMED.	GROUND WATER REMED.	GROUND WATER REMED.
	Site/Locator:		BLANK 304	BLANK 202	BLANK 307
	Date Collected:		13-NOV-01 13:50:00	13-NOV-01 08:20:00	13-NOV-01 08:15:00
Method	Parameter		D1:1	D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-43	01112204-44
	Client Description:		GROUND WATER REMED. BLANK 118	GROUND WATER REMED. TRIP BLANK
	Site/Locator:			
	Date Collected:		14-NOV-01 08:40:00	14-NOV-01 00:00:00
Method	Parameter		D1:1	D1:1
SW8260B/SW5030B	Chloromethane	ug/l	10 U	10 U
SW8260B/SW5030B	Vinyl Chloride	ug/l	1 U	1 U
SW8260B/SW5030B	Bromomethane	ug/l	10 U	10 U
SW8260B/SW5030B	Chloroethane	ug/l	10 U	10 U
SW8260B/SW5030B	Methylene Chloride	ug/l	5 U	5 U
SW8260B/SW5030B	Acetone	ug/l	5 U	5 U
SW8260B/SW5030B	Carbon Disulfide	ug/l	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethene	ug/l	5 U	5 U
SW8260B/SW5030B	1,1-Dichloroethane	ug/l	5 U	5 U
SW8260B/SW5030B	trans-1,2-Dichloroethene	ug/l	5 U	5 U
SW8260B/SW5030B	cis-1,2-Dichloroethene	ug/l	5 U	5 U
SW8260B/SW5030B	Chloroform	ug/l	5 U	5 U
SW8260B/SW5030B	1,2-Dichloroethane	ug/l	5 U	5 U
SW8260B/SW5030B	1,1,1-Trichloroethane	ug/l	5 U	5 U
SW8260B/SW5030B	1,4-Dioxane	ug/l	25 U	25 U
SW8260B/SW5030B	Carbon Tetrachloride	ug/l	5 U	5 U
SW8260B/SW5030B	Vinyl Acetate	ug/l	5 U	5 U
SW8260B/SW5030B	Bromodichloromethane	ug/l	5 U	5 U
SW8260B/SW5030B	1,2-Dichloropropane	ug/l	5 U	5 U
SW8260B/SW5030B	cis-1,3-Dichloropropene	ug/l	5 U	5 U
SW8260B/SW5030B	Trichloroethene	ug/l	5 U	5 U
SW8260B/SW5030B	Dibromochloromethane	ug/l	5 U	5 U
SW8260B/SW5030B	1,1,2-Trichloroethane	ug/l	5 U	5 U
SW8260B/SW5030B	Benzene	ug/l	5 U	5 U
SW8260B/SW5030B	trans-1,3-Dichloropropene	ug/l	5 U	5 U
SW8260B/SW5030B	Bromoform	ug/l	5 U	5 U
SW8260B/SW5030B	4-Methyl-2-pentanone	ug/l	5 U	5 U

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Earth Tech
5010 Stone Mill Road
Bloomington, IN 47408

Attn: Mr. Bob Aten

Date Received: 11/14/01
Date Reported: 12/18/01
Purchase Order:
Customer No. 205746

	Laboratory Sample No.:		01112204-43	01112204-44
	Client Description:		GROUND WATER REMED. BLANK 118	GROUND WATER REMED. TRIP BLANK
	Site/Locator:			
	Date Collected:		14-NOV-01 08:40:00	14-NOV-01 00:00:00
Method	Parameter		D1:1	D1:1
SW8260B/SW5030B	2-Hexanone	ug/l	5 U	5 U
SW8260B/SW5030B	Tetrachloroethene	ug/l	5 U	5 U
SW8260B/SW5030B	1,1,2,2-Tetrachloroethane	ug/l	5 U	5 U
SW8260B/SW5030B	Toluene	ug/l	5 U	5 U
SW8260B/SW5030B	Chlorobenzene	ug/l	5 U	5 U
SW8260B/SW5030B	Ethylbenzene	ug/l	5 U	5 U
SW8260B/SW5030B	Xylenes (Total)	ug/l	5 U	5 U
SW8260B/SW5030B	2-Chloroethyl vinyl ether	ug/l	5 U	5 U
SW8260B/SW5030B	2-Butanone	ug/l	5 U	5 U
SW8260B/SW5030B	Styrene	ug/l	5 U	5 U

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12-18-01 13:55

Product	Measure Dat	Hold Date	Batch ID	Assoc.Code	Dil. Factor	Analysis Dat	Analyis Hold Date	Analysis Batch
Lab ID: 01112204-1	Client ID: T-1			Collect Date: 11/13/01 17:30			Receive Date: 11/14/01 12:30	
FED M8260					1	11/16/01 12:24	11/27/01 17:30	WG52014
FED M8260					5	11/21/01 12:40	11/27/01 17:30	WG52483
Lab ID: 01112204-2	Client ID: T-2A			Collect Date: 11/13/01 14:20			Receive Date: 11/14/01 12:30	
FED M8260					1	11/16/01 12:52	11/27/01 14:20	WG52014
Lab ID: 01112204-3	Client ID: T-2B			Collect Date: 11/13/01 15:10			Receive Date: 11/14/01 12:30	
FED M8260					1	11/16/01 13:26	11/27/01 15:10	WG52014
Lab ID: 01112204-4	Client ID: T-3			Collect Date: 11/14/01 11:30			Receive Date: 11/14/01 12:30	
FED M8260					1	11/16/01 13:53	11/28/01 11:30	WG52014
FED M8260					5	11/20/01 17:46	11/28/01 11:30	WG52083
Lab ID: 01112204-5	Client ID: T-4A			Collect Date: 11/13/01 11:45			Receive Date: 11/14/01 12:30	
FED M8260					1	11/16/01 14:21	11/27/01 11:45	WG52014
Lab ID: 01112204-6	Client ID: T-4B			Collect Date: 11/13/01 12:40			Receive Date: 11/14/01 12:30	
FED M8260					1	11/16/01 14:49	11/27/01 12:40	WG52014
Lab ID: 01112204-7	Client ID: T-5A			Collect Date: 11/13/01 11:30			Receive Date: 11/14/01 12:30	
FED M8260					1	11/16/01 15:32	11/27/01 11:30	WG52014
Lab ID: 01112204-8	Client ID: T-5B			Collect Date: 11/13/01 11:35			Receive Date: 11/14/01 12:30	
FED M8260					1	11/16/01 16:53	11/27/01 11:35	WG52014
Lab ID: 01112204-9	Client ID: T-5C			Collect Date: 11/13/01 11:40			Receive Date: 11/14/01 12:30	
FED M8260					1	11/16/01 17:21	11/27/01 11:40	WG52014
Lab ID: 01112204-10	Client ID: T-6A			Collect Date: 11/13/01 11:55			Receive Date: 11/14/01 12:30	
FED M8260					1	11/16/01 17:49	11/27/01 11:55	WG52014
Lab ID: 01112204-11	Client ID: T-6B			Collect Date: 11/13/01 12:35			Receive Date: 11/14/01 12:30	
FED M8260					1	11/16/01 18:17	11/27/01 12:35	WG52014
Lab ID: 01112204-12	Client ID: T-6C			Collect Date: 11/13/01 14:05			Receive Date: 11/14/01 12:30	
FED M8260					1	11/19/01 10:58	11/27/01 14:05	WG52077
Lab ID: 01112204-13	Client ID: T-7A			Collect Date: 11/13/01 09:10			Receive Date: 11/14/01 12:30	
FED M8260					1	11/19/01 11:25	11/27/01 09:10	WG52077
Lab ID: 01112204-14	Client ID: T-7B			Collect Date: 11/13/01 09:50			Receive Date: 11/14/01 12:30	
FED M8260					1	11/19/01 11:53	11/27/01 09:50	WG52077
Lab ID: 01112204-15	Client ID: T-8			Collect Date: 11/13/01 17:00			Receive Date: 11/14/01 12:30	
FED M8260					1	11/19/01 12:21	11/27/01 17:00	WG52077
Lab ID: 01112204-16	Client ID: T-9			Collect Date: 11/13/01 10:35			Receive Date: 11/14/01 12:30	
FED M8260					1	11/19/01 12:49	11/27/01 10:35	WG52077
Lab ID: 01112204-17	Client ID: T-10			Collect Date: 11/14/01 10:10			Receive Date: 11/14/01 12:30	
FED M8260					1	11/19/01 13:17	11/28/01 10:10	WG52077
Lab ID: 01112204-18	Client ID: T-11A			Collect Date: 11/13/01 15:30			Receive Date: 11/14/01 12:30	
FED M8260					1	11/20/01 16:22	11/27/01 15:30	WG52083
Lab ID: 01112204-19	Client ID: T-11B			Collect Date: 11/13/01 15:20			Receive Date: 11/14/01 12:30	
FED M8260					1	11/19/01 14:13	11/27/01 15:20	WG52077
Lab ID: 01112204-20	Client ID: T-11C			Collect Date: 11/13/01 15:25			Receive Date: 11/14/01 12:30	
FED M8260					1	11/19/01 14:40	11/27/01 15:25	WG52077

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Lab ID: 01112204-21	Client ID: T-13B	Collect Date: 11/13/01 11:00		Receive Date: 11/14/01 12:30		
FED M8260			1	11/19/01 15:08	11/27/01 11:00	WG52077
Lab ID: 01112204-22	Client ID: T-15	Collect Date: 11/12/01 16:30		Receive Date: 11/14/01 12:30		
FED M8260			1	11/19/01 15:36	11/26/01 16:30	WG52077
Lab ID: 01112204-23	Client ID: T-16	Collect Date: 11/13/01 16:00		Receive Date: 11/14/01 12:30		
FED M8260			1	11/19/01 16:04	11/27/01 16:00	WG52077
FED M8260			5	11/20/01 18:14	11/27/01 16:00	WG52083
Lab ID: 01112204-24	Client ID: T-17	Collect Date: 11/13/01 16:40		Receive Date: 11/14/01 12:30		
FED M8260			1	11/19/01 16:32	11/27/01 16:40	WG52077
Lab ID: 01112204-25	Client ID: T-18	Collect Date: 11/13/01 13:30		Receive Date: 11/14/01 12:30		
FED M8260			1	11/19/01 17:00	11/27/01 13:30	WG52077
Lab ID: 01112204-26	Client ID: T-19B	Collect Date: 11/13/01 10:40		Receive Date: 11/14/01 12:30		
FED M8260			1	11/19/01 17:27	11/27/01 10:40	WG52077
Lab ID: 01112204-27	Client ID: T-19C	Collect Date: 11/13/01 11:55		Receive Date: 11/14/01 12:30		
FED M8260			1	11/20/01 16:50	11/27/01 11:55	WG52083
Lab ID: 01112204-28	Client ID: T-20	Collect Date: 11/13/01 11:25		Receive Date: 11/14/01 12:30		
FED M8260			1	11/19/01 18:23	11/27/01 11:25	WG52077
Lab ID: 01112204-29	Client ID: T-21R	Collect Date: 11/13/01 13:15		Receive Date: 11/14/01 12:30		
FED M8260			1	11/19/01 18:51	11/27/01 13:15	WG52077
Lab ID: 01112204-30	Client ID: T-22A	Collect Date: 11/13/01 08:25		Receive Date: 11/14/01 12:30		
FED M8260			1	11/20/01 09:31	11/27/01 08:25	WG52083
Lab ID: 01112204-31	Client ID: T-22B	Collect Date: 11/13/01 10:05		Receive Date: 11/14/01 12:30		
FED M8260			1	11/20/01 09:58	11/27/01 10:05	WG52083
Lab ID: 01112204-32	Client ID: W-1D	Collect Date: 11/14/01 09:30		Receive Date: 11/14/01 12:30		
FED M8260			1	11/20/01 10:26	11/28/01 09:30	WG52083
Lab ID: 01112204-33	Client ID: W-2	Collect Date: 11/13/01 13:45		Receive Date: 11/14/01 12:30		
FED M8260			1	11/20/01 10:53	11/27/01 13:45	WG52083
Lab ID: 01112204-34	Client ID: W-3D	Collect Date: 11/14/01 09:30		Receive Date: 11/14/01 12:30		
FED M8260			1	11/20/01 11:19	11/28/01 09:30	WG52083
Lab ID: 01112204-35	Client ID: W-4D	Collect Date: 11/13/01 15:15		Receive Date: 11/14/01 12:30		
FED M8260			1	11/21/01 13:08	11/27/01 15:15	WG52483
Lab ID: 01112204-36	Client ID: DUP-4	Collect Date: 11/13/01 12:00		Receive Date: 11/14/01 12:30		
FED M8260			1	11/20/01 12:15	11/27/01 12:00	WG52083
Lab ID: 01112204-37	Client ID: DUP-5	Collect Date: 11/13/01 12:00		Receive Date: 11/14/01 12:30		
FED M8260			1	11/20/01 12:42	11/27/01 12:00	WG52083
Lab ID: 01112204-38	Client ID: DUP-6	Collect Date: 11/13/01 12:00		Receive Date: 11/14/01 12:30		
FED M8260			1	11/20/01 13:10	11/27/01 12:00	WG52083
Lab ID: 01112204-39	Client ID: DUP-7	Collect Date: 11/14/01 12:00		Receive Date: 11/14/01 12:30		
FED M8260			1	11/20/01 13:36	11/28/01 12:00	WG52083
Lab ID: 01112204-40	Client ID: BLANK-304	Collect Date: 11/13/01 13:50		Receive Date: 11/14/01 12:30		
FED M8260			1	11/20/01 14:04	11/27/01 13:50	WG52083

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Lab ID: 01112204-41	Client ID: BLANK 202	Collect Date: 11/13/01 08:20	Receive Date: 11/14/01 12:30	
FED M8260	1	11/20/01 14:32	11/27/01 08:20	WG52083
Lab ID: 01112204-42	Client ID: BLANK 307	Collect Date: 11/13/01 08:15	Receive Date: 11/14/01 12:30	
FED M8260	1	11/20/01 14:59	11/27/01 08:15	WG52083
Lab ID: 01112204-43	Client ID: BLANK 118	Collect Date: 11/14/01 08:40	Receive Date: 11/14/01 12:30	
FED M8260	1	11/20/01 15:26	11/28/01 08:40	WG52083
Lab ID: 01112204-44	Client ID: TRIP BLANK	Collect Date: 11/14/01 00:00	Receive Date: 11/14/01 12:30	
FED M8260	1	11/20/01 15:54	11/28/01 00:00	WG52083

PDC Laboratories Quality Control Summary Report

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
QC CROSS REFERENCE REPORT

Lab ID	Client ID	Prep. Lot	Analysis Lot	Analysis Date	Analyst	Method	Sample Tag
01112204-1	T-1		WG52014	16-Nov-01 12:24	TJP	SW8260B/SW5030B	D1:1
01112204-1	T-1		WG52483	21-Nov-01 12:40	TJP	SW8260B/SW5030B	D5:1
01112204-2	T-2A		WG52014	16-Nov-01 12:52	TJP	SW8260B/SW5030B	D1:1
01112204-3	T-2B		WG52014	16-Nov-01 13:26	TJP	SW8260B/SW5030B	D1:1
01112204-4	T-3		WG52014	16-Nov-01 13:53	TJP	SW8260B/SW5030B	D1:1
01112204-4	T-3		WG52083	20-Nov-01 17:46	TJP	SW8260B/SW5030B	D5:1
01112204-5	T-4A		WG52014	16-Nov-01 14:21	TJP	SW8260B/SW5030B	D1:1
01112204-6	T-4B		WG52014	16-Nov-01 14:49	TJP	SW8260B/SW5030B	D1:1
01112204-7	T-5A		WG52014	16-Nov-01 15:32	TJP	SW8260B/SW5030B	D1:1
01112204-8	T-5B		WG52014	16-Nov-01 16:53	TJP	SW8260B/SW5030B	D1:1
01112204-9	T-5C		WG52014	16-Nov-01 17:21	TJP	SW8260B/SW5030B	D1:1
01112204-10	T-6A		WG52014	16-Nov-01 17:49	TJP	SW8260B/SW5030B	D1:1
01112204-11	T-6B		WG52014	16-Nov-01 18:17	TJP	SW8260B/SW5030B	D1:1
01112204-12	T-6C		WG52077	19-Nov-01 10:58	TJP	SW8260B/SW5030B	D1:1
01112204-13	T-7A		WG52077	19-Nov-01 11:25	TJP	SW8260B/SW5030B	D1:1
01112204-14	T-7B		WG52077	19-Nov-01 11:53	TJP	SW8260B/SW5030B	D1:1
01112204-15	T-8		WG52077	19-Nov-01 12:21	TJP	SW8260B/SW5030B	D1:1
01112204-16	T-9		WG52077	19-Nov-01 12:49	TJP	SW8260B/SW5030B	D1:1
01112204-17	T-10		WG52077	19-Nov-01 13:17	TJP	SW8260B/SW5030B	D1:1
01112204-18	T-11A		WG52083	20-Nov-01 16:22	TJP	SW8260B/SW5030B	D1:1
01112204-19	T-11B		WG52077	19-Nov-01 14:13	TJP	SW8260B/SW5030B	D1:1
01112204-20	T-11C		WG52077	19-Nov-01 14:40	TJP	SW8260B/SW5030B	D1:1
01112204-21	T-13B		WG52077	19-Nov-01 15:08	TJP	SW8260B/SW5030B	D1:1
01112204-22	T-15		WG52077	19-Nov-01 15:36	TJP	SW8260B/SW5030B	D1:1
01112204-23	T-16		WG52077	19-Nov-01 16:04	TJP	SW8260B/SW5030B	D1:1
01112204-23	T-16		WG52083	20-Nov-01 18:14	TJP	SW8260B/SW5030B	D5:1
01112204-24	T-17		WG52077	19-Nov-01 16:32	TJP	SW8260B/SW5030B	D1:1
01112204-25	T-18		WG52077	19-Nov-01 17:00	TJP	SW8260B/SW5030B	D1:1
01112204-26	T-19B		WG52077	19-Nov-01 17:27	TJP	SW8260B/SW5030B	D1:1
01112204-27	T-19C		WG52083	20-Nov-01 16:50	TJP	SW8260B/SW5030B	D1:1
01112204-28	T-20		WG52077	19-Nov-01 18:23	TJP	SW8260B/SW5030B	D1:1
01112204-29	T-21R		WG52077	19-Nov-01 18:51	TJP	SW8260B/SW5030B	D1:1
01112204-30	T-22A		WG52083	20-Nov-01 09:31	TJP	SW8260B/SW5030B	D1:1
01112204-31	T-22B		WG52083	20-Nov-01 09:58	TJP	SW8260B/SW5030B	D1:1
01112204-32	W-1D		WG52083	20-Nov-01 10:26	TJP	SW8260B/SW5030B	D1:1
01112204-33	W-2		WG52083	20-Nov-01 10:53	TJP	SW8260B/SW5030B	D1:1
01112204-34	W-3D		WG52083	20-Nov-01 11:19	TJP	SW8260B/SW5030B	D1:1
01112204-35	W-4D		WG52083	20-Nov-01 11:47	TJP	SW8260B/SW5030B	D1:1
01112204-35	W-4D		WG52483	21-Nov-01 13:08	TJP	SW8260B/SW5030B	D1:R2
01112204-36	DUP-4		WG52083	20-Nov-01 12:15	TJP	SW8260B/SW5030B	D1:1
01112204-37	DUP-5		WG52083	20-Nov-01 12:42	TJP	SW8260B/SW5030B	D1:1
01112204-38	DUP-6		WG52083	20-Nov-01 13:10	TJP	SW8260B/SW5030B	D1:1
01112204-39	DUP-7		WG52083	20-Nov-01 13:36	TJP	SW8260B/SW5030B	D1:1
01112204-40	BLANK 304		WG52083	20-Nov-01 14:04	TJP	SW8260B/SW5030B	D1:1
01112204-41	BLANK 202		WG52083	20-Nov-01 14:32	TJP	SW8260B/SW5030B	D1:1
01112204-42	BLANK 307		WG52083	20-Nov-01 14:59	TJP	SW8260B/SW5030B	D1:1
01112204-43	BLANK 118		WG52083	20-Nov-01 15:26	TJP	SW8260B/SW5030B	D1:1
01112204-44	TRIP BLANK		WG52083	20-Nov-01 15:54	TJP	SW8260B/SW5030B	D1:1

METHOD BLANK

Laboratory ID: WG52014-1 Analysis Lot: WG52014 Prep Lot: N/A Sample Tag: D1:1

Analyte	Units	Value	RDL	Analysis Date
Chloromethane	UG/L	10U	10	16-Nov-01 11:28
Vinyl Chloride	UG/L	1.0U	1.0	16-Nov-01 11:28
Bromomethane	UG/L	10U	10	16-Nov-01 11:28
Chloroethane	UG/L	10U	10	16-Nov-01 11:28
Methylene Chloride	UG/L	5.0U	5.0	16-Nov-01 11:28
Acetone	UG/L	5.0U	5.0	16-Nov-01 11:28
Carbon Disulfide	UG/L	5.0U	5.0	16-Nov-01 11:28

PDC Laboratories Quality Control Summary Report

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
METHOD BLANK

Laboratory ID: WG52014-1 Analysis Lot: WG52014 Prep Lot: N/A

Analyte	Units	Value	RDL	Analysis Date
1,1-Dichloroethene	UG/L	5.0U	5.0	16-Nov-01 11:28
1,1-Dichloroethane	UG/L	5.0U	5.0	16-Nov-01 11:28
trans-1,2-Dichloroethene	UG/L	5.0U	5.0	16-Nov-01 11:28
cis-1,2-Dichloroethene	UG/L	5.0U	5.0	16-Nov-01 11:28
Chloroform	UG/L	5.0U	5.0	16-Nov-01 11:28
1,2-Dichloroethane	UG/L	5.0U	5.0	16-Nov-01 11:28
1,1,1-Trichloroethane	UG/L	5.0U	5.0	16-Nov-01 11:28
1,4-Dioxane	UG/L	25U	25	16-Nov-01 11:28
Carbon Tetrachloride	UG/L	5.0U	5.0	16-Nov-01 11:28
Vinyl Acetate	UG/L	5.0U	5.0	16-Nov-01 11:28
Bromodichloromethane	UG/L	5.0U	5.0	16-Nov-01 11:28
1,2-Dichloropropane	UG/L	5.0U	5.0	16-Nov-01 11:28
cis-1,3-Dichloropropene	UG/L	5.0U	5.0	16-Nov-01 11:28
Trichloroethene	UG/L	5.0U	5.0	16-Nov-01 11:28
Dibromochloromethane	UG/L	5.0U	5.0	16-Nov-01 11:28
1,1,2-Trichloroethane	UG/L	5.0U	5.0	16-Nov-01 11:28
Benzene	UG/L	5.0U	5.0	16-Nov-01 11:28
trans-1,3-Dichloropropene	UG/L	5.0U	5.0	16-Nov-01 11:28
Bromoform	UG/L	5.0U	5.0	16-Nov-01 11:28
4-Methyl-2-pentanone	UG/L	5.0U	5.0	16-Nov-01 11:28
2-Hexanone	UG/L	5.0U	5.0	16-Nov-01 11:28
Tetrachloroethene	UG/L	5.0U	5.0	16-Nov-01 11:28
1,1,2,2-Tetrachloroethane	UG/L	5.0U	5.0	16-Nov-01 11:28
Toluene	UG/L	5.0U	5.0	16-Nov-01 11:28
Chlorobenzene	UG/L	5.0U	5.0	16-Nov-01 11:28
Ethylbenzene	UG/L	5.0U	5.0	16-Nov-01 11:28
m,p-Xylene	UG/L	5.0U	5.0	16-Nov-01 11:28
o-Xylene	UG/L	5.0U	5.0	16-Nov-01 11:28
Xylenes (Total)	UG/L	5.0U	5.0	16-Nov-01 11:28
2-Chloroethyl vinyl ether	UG/L	5.0U	5.0	16-Nov-01 11:28
2-Butanone	UG/L	5.0U	5.0	16-Nov-01 11:28
Styrene	UG/L	5.0U	5.0	16-Nov-01 11:28

Laboratory ID: WG52077-2 Analysis Lot: WG52077 Prep Lot: N/A Sample Tag: D1:1

Analyte	Units	Value	RDL	Analysis Date
Chloromethane	UG/L	10U	10	19-Nov-01 10:30
Vinyl Chloride	UG/L	1.0U	1.0	19-Nov-01 10:30
Bromomethane	UG/L	10U	10	19-Nov-01 10:30
Chloroethane	UG/L	10U	10	19-Nov-01 10:30
Methylene Chloride	UG/L	5.0U	5.0	19-Nov-01 10:30
Acetone	UG/L	5.0U	5.0	19-Nov-01 10:30
Carbon Disulfide	UG/L	5.0U	5.0	19-Nov-01 10:30
1,1-Dichloroethene	UG/L	5.0U	5.0	19-Nov-01 10:30
1,1-Dichloroethane	UG/L	5.0U	5.0	19-Nov-01 10:30
trans-1,2-Dichloroethene	UG/L	5.0U	5.0	19-Nov-01 10:30
cis-1,2-Dichloroethene	UG/L	5.0U	5.0	19-Nov-01 10:30
Chloroform	UG/L	5.0U	5.0	19-Nov-01 10:30
1,2-Dichloroethane	UG/L	5.0U	5.0	19-Nov-01 10:30
1,1,1-Trichloroethane	UG/L	5.0U	5.0	19-Nov-01 10:30
1,4-Dioxane	UG/L	25U	25	19-Nov-01 10:30
Carbon Tetrachloride	UG/L	5.0U	5.0	19-Nov-01 10:30
Vinyl Acetate	UG/L	5.0U	5.0	19-Nov-01 10:30
Bromodichloromethane	UG/L	5.0U	5.0	19-Nov-01 10:30
1,2-Dichloropropane	UG/L	5.0U	5.0	19-Nov-01 10:30
cis-1,3-Dichloropropene	UG/L	5.0U	5.0	19-Nov-01 10:30
Trichloroethene	UG/L	5.0U	5.0	19-Nov-01 10:30
Dibromochloromethane	UG/L	5.0U	5.0	19-Nov-01 10:30
1,1,2-Trichloroethane	UG/L	5.0U	5.0	19-Nov-01 10:30
Benzene	UG/L	5.0U	5.0	19-Nov-01 10:30
trans-1,3-Dichloropropene	UG/L	5.0U	5.0	19-Nov-01 10:30
Bromoform	UG/L	5.0U	5.0	19-Nov-01 10:30
4-Methyl-2-pentanone	UG/L	5.0U	5.0	19-Nov-01 10:30

PDC Laboratories Quality Control Summary Report

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
METHOD BLANK

Laboratory ID: WG52077-2 Analysis Lot: WG52077 Prep Lot: N/A

Analyte	Units	Value	RDL	Analysis Date
2-Hexanone	UG/L	5.0U	5.0	19-Nov-01 10:30
Tetrachloroethene	UG/L	5.0U	5.0	19-Nov-01 10:30
1,1,2,2-Tetrachloroethane	UG/L	5.0U	5.0	19-Nov-01 10:30
Toluene	UG/L	5.0U	5.0	19-Nov-01 10:30
Chlorobenzene	UG/L	5.0U	5.0	19-Nov-01 10:30
Ethylbenzene	UG/L	5.0U	5.0	19-Nov-01 10:30
m,p-Xylene	UG/L	5.0U	5.0	19-Nov-01 10:30
o-Xylene	UG/L	5.0U	5.0	19-Nov-01 10:30
Xylenes (Total)	UG/L	5.0U	5.0	19-Nov-01 10:30
2-Chloroethyl vinyl ether	UG/L	5.0U	5.0	19-Nov-01 10:30
2-Butanone	UG/L	5.0U	5.0	19-Nov-01 10:30
Styrene	UG/L	5.0U	5.0	19-Nov-01 10:30

Laboratory ID: WG52083-2 Analysis Lot: WG52083 Prep Lot: N/A Sample Tag: D1:1

Analyte	Units	Value	RDL	Analysis Date
Chloromethane	UG/L	10U	10	20-Nov-01 08:04
Vinyl Chloride	UG/L	1.0U	1.0	20-Nov-01 08:04
Bromomethane	UG/L	10U	10	20-Nov-01 08:04
Chloroethane	UG/L	10U	10	20-Nov-01 08:04
Methylene Chloride	UG/L	5.0U	5.0	20-Nov-01 08:04
Acetone	UG/L	5.0U	5.0	20-Nov-01 08:04
Carbon Disulfide	UG/L	5.0U	5.0	20-Nov-01 08:04
1,1-Dichloroethene	UG/L	5.0U	5.0	20-Nov-01 08:04
1,1-Dichloroethane	UG/L	5.0U	5.0	20-Nov-01 08:04
trans-1,2-Dichloroethene	UG/L	5.0U	5.0	20-Nov-01 08:04
cis-1,2-Dichloroethene	UG/L	5.0U	5.0	20-Nov-01 08:04
Chloroform	UG/L	5.0U	5.0	20-Nov-01 08:04
1,2-Dichloroethane	UG/L	5.0U	5.0	20-Nov-01 08:04
1,1,1-Trichloroethane	UG/L	5.0U	5.0	20-Nov-01 08:04
1,4-Dioxane	UG/L	25U	25	20-Nov-01 08:04
Carbon Tetrachloride	UG/L	5.0U	5.0	20-Nov-01 08:04
Vinyl Acetate	UG/L	5.0U	5.0	20-Nov-01 08:04
Bromodichloromethane	UG/L	5.0U	5.0	20-Nov-01 08:04
1,2-Dichloropropane	UG/L	5.0U	5.0	20-Nov-01 08:04
cis-1,3-Dichloropropene	UG/L	5.0U	5.0	20-Nov-01 08:04
Trichloroethene	UG/L	2.0J	5.0	20-Nov-01 08:04
Dibromochloromethane	UG/L	5.0U	5.0	20-Nov-01 08:04
1,1,2-Trichloroethane	UG/L	5.0U	5.0	20-Nov-01 08:04
Benzene	UG/L	5.0U	5.0	20-Nov-01 08:04
trans-1,3-Dichloropropene	UG/L	5.0U	5.0	20-Nov-01 08:04
Bromoform	UG/L	5.0U	5.0	20-Nov-01 08:04
4-Methyl-2-pentanone	UG/L	5.0U	5.0	20-Nov-01 08:04
2-Hexanone	UG/L	5.0U	5.0	20-Nov-01 08:04
Tetrachloroethene	UG/L	5.0U	5.0	20-Nov-01 08:04
1,1,2,2-Tetrachloroethane	UG/L	5.0U	5.0	20-Nov-01 08:04
Toluene	UG/L	5.0U	5.0	20-Nov-01 08:04
Chlorobenzene	UG/L	5.0U	5.0	20-Nov-01 08:04
Ethylbenzene	UG/L	5.0U	5.0	20-Nov-01 08:04
m,p-Xylene	UG/L	5.0U	5.0	20-Nov-01 08:04
o-Xylene	UG/L	5.0U	5.0	20-Nov-01 08:04
Xylenes (Total)	UG/L	5.0U	5.0	20-Nov-01 08:04
2-Chloroethyl vinyl ether	UG/L	5.0U	5.0	20-Nov-01 08:04
2-Butanone	UG/L	5.0U	5.0	20-Nov-01 08:04
Styrene	UG/L	5.0U	5.0	20-Nov-01 08:04

Laboratory ID: WG52483-2 Analysis Lot: WG52483 Prep Lot: N/A Sample Tag: D1:1

Analyte	Units	Value	RDL	Analysis Date

PDC Laboratories Quality Control Summary Report

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
METHOD BLANK

Laboratory ID: WG52483-2 Analysis Lot: WG52483 Prep Lot: N/A

Analyte	Units	Value	RDL	Analysis Date
Chloromethane	UG/L	10U	10	21-Nov-01 11:04
Vinyl Chloride	UG/L	1.0U	1.0	21-Nov-01 11:04
Bromomethane	UG/L	10U	10	21-Nov-01 11:04
Chloroethane	UG/L	10U	10	21-Nov-01 11:04
Methylene Chloride	UG/L	0.70J	5.0	21-Nov-01 11:04
Acetone	UG/L	5.0U	5.0	21-Nov-01 11:04
Carbon Disulfide	UG/L	5.0U	5.0	21-Nov-01 11:04
1,1-Dichloroethene	UG/L	5.0U	5.0	21-Nov-01 11:04
1,1-Dichloroethane	UG/L	5.0U	5.0	21-Nov-01 11:04
trans-1,2-Dichloroethene	UG/L	5.0U	5.0	21-Nov-01 11:04
cis-1,2-Dichloroethene	UG/L	5.0U	5.0	21-Nov-01 11:04
Chloroform	UG/L	5.0U	5.0	21-Nov-01 11:04
1,2-Dichloroethane	UG/L	5.0U	5.0	21-Nov-01 11:04
1,1,1-Trichloroethane	UG/L	5.0U	5.0	21-Nov-01 11:04
1,4-Dioxane	UG/L	25U	25	21-Nov-01 11:04
Carbon Tetrachloride	UG/L	5.0U	5.0	21-Nov-01 11:04
Vinyl Acetate	UG/L	5.0U	5.0	21-Nov-01 11:04
Bromodichloromethane	UG/L	5.0U	5.0	21-Nov-01 11:04
1,2-Dichloropropane	UG/L	5.0U	5.0	21-Nov-01 11:04
cis-1,3-Dichloropropene	UG/L	5.0U	5.0	21-Nov-01 11:04
Trichloroethene	UG/L	5.0U	5.0	21-Nov-01 11:04
Dibromochloromethane	UG/L	5.0U	5.0	21-Nov-01 11:04
1,1,2-Trichloroethane	UG/L	5.0U	5.0	21-Nov-01 11:04
Benzene	UG/L	5.0U	5.0	21-Nov-01 11:04
trans-1,3-Dichloropropene	UG/L	5.0U	5.0	21-Nov-01 11:04
Bromoform	UG/L	5.0U	5.0	21-Nov-01 11:04
4-Methyl-2-pentanone	UG/L	5.0U	5.0	21-Nov-01 11:04
2-Hexanone	UG/L	5.0U	5.0	21-Nov-01 11:04
Tetrachloroethene	UG/L	5.0U	5.0	21-Nov-01 11:04
1,1,2,2-Tetrachloroethane	UG/L	5.0U	5.0	21-Nov-01 11:04
Toluene	UG/L	5.0U	5.0	21-Nov-01 11:04
Chlorobenzene	UG/L	5.0U	5.0	21-Nov-01 11:04
Ethylbenzene	UG/L	5.0U	5.0	21-Nov-01 11:04
m,p-Xylene	UG/L	5.0U	5.0	21-Nov-01 11:04
o-Xylene	UG/L	5.0U	5.0	21-Nov-01 11:04
Xylenes (Total)	UG/L	5.0U	5.0	21-Nov-01 11:04
2-Chloroethyl vinyl ether	UG/L	5.0U	5.0	21-Nov-01 11:04
2-Butanone	UG/L	5.0U	5.0	21-Nov-01 11:04
Styrene	UG/L	5.0U	5.0	21-Nov-01 11:04

LABORATORY CONTROL SAMPLE

Laboratory ID: WG52014-2 Analysis Lot: WG52014 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,1-Dichloroethene	UG/L	20.0	16.0	80.0	63.0-112	16-Nov-01 11:56
Trichloroethene	UG/L	20.0	15.0	75.0	65.0-109	16-Nov-01 11:56
Benzene	UG/L	20.0	16.0	80.0	69.0-114	16-Nov-01 11:56
Toluene	UG/L	20.0	16.0	80.0	67.0-110	16-Nov-01 11:56
Chlorobenzene	UG/L	20.0	16.0	80.0	68.0-112	16-Nov-01 11:56

Laboratory ID: WG52077-3 Analysis Lot: WG52077 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,1-Dichloroethene	UG/L	20.0	18.0	90.0	63.0-112	19-Nov-01 09:41

PDC Laboratories Quality Control Summary Report

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
LABORATORY CONTROL SAMPLE

Laboratory ID: WG52077-3 Analysis Lot: WG52077 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
Trichloroethene	UG/L	20.0	19.0	95.0	65.0-109	19-Nov-01 09:41
Benzene	UG/L	20.0	17.0	85.0	69.0-114	19-Nov-01 09:41
Toluene	UG/L	20.0	17.0	85.0	67.0-110	19-Nov-01 09:41
Chlorobenzene	UG/L	20.0	17.0	85.0	68.0-112	19-Nov-01 09:41

Laboratory ID: WG52083-3 Analysis Lot: WG52083 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,1-Dichloroethene	UG/L	20.0	22.0	110	63.0-112	20-Nov-01 08:32
Trichloroethene	UG/L	20.0	20.0	100	65.0-109	20-Nov-01 08:32
Benzene	UG/L	20.0	21.0	105	69.0-114	20-Nov-01 08:32
Toluene	UG/L	20.0	20.0	100	67.0-110	20-Nov-01 08:32
Chlorobenzene	UG/L	20.0	20.0	100	68.0-112	20-Nov-01 08:32

Laboratory ID: WG52083-4 Analysis Lot: WG52083 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,1-Dichloroethene	UG/L	20.0	21.0	105	63.0-112	20-Nov-01 09:00
Trichloroethene	UG/L	20.0	19.0	95.0	65.0-109	20-Nov-01 09:00
Benzene	UG/L	20.0	20.0	100	69.0-114	20-Nov-01 09:00
Toluene	UG/L	20.0	20.0	100	67.0-110	20-Nov-01 09:00
Chlorobenzene	UG/L	20.0	19.0	95.0	68.0-112	20-Nov-01 09:00

Laboratory ID: WG52483-3 Analysis Lot: WG52483 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,1-Dichloroethene	UG/L	20.0	19.0	95.0	63.0-112	21-Nov-01 10:08
Trichloroethene	UG/L	20.0	17.0	85.0	65.0-109	21-Nov-01 10:08
Benzene	UG/L	20.0	18.0	90.0	69.0-114	21-Nov-01 10:08
Toluene	UG/L	20.0	18.0	90.0	67.0-110	21-Nov-01 10:08
Chlorobenzene	UG/L	20.0	17.0	85.0	68.0-112	21-Nov-01 10:08

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Laboratory IDs: WG52014-3, WG52014-4 Analysis Lot: WG52014 Sample Spiked: 01112204-7 Client ID: T-5A Sample Tag: D1:1

Analyte	Units	Amt MS Spiked	Amt MSD Spiked	Sample Value	MS Value	MSD Value	MS % Rec	MSD % Rec	Rec Limits	RPD	RPD Limits	
1,1-Dichloroethene	UG/L	20	20	5.0U	16	17	80.0	85.0	63.0-112	6.06	40.0	
Benzene	UG/L	20	20	5.0U	16	16	80.0	80.0	69.0-114	0.00	40.0	
Chlorobenzene	UG/L	20	20	5.0U	16	16	80.0	80.0	68.0-112	0.00	40.0	
Toluene	UG/L	20	20	5.0U	17	16	85.0	80.0	67.0-110	6.06	40.0	
Trichloroethene	UG/L	20	20	5.0U	18	29	90.0	145	65.0-109	46.8	40.0	*

Laboratory IDs: WG52077-4, WG52077-5 Analysis Lot: WG52077 Sample Spiked: 01112204-29 Client ID: T-21R Sample Tag: D1:1

Analyte	Units	Amt MS Spiked	Amt MSD Spiked	Sample Value	MS Value	MSD Value	MS % Rec	MSD % Rec	Rec Limits	RPD	RPD Limits
1,1-Dichloroethene	UG/L	20	20	5.0U	16	16	80.0	80.0	63.0-112	0.00	40.0

PDC Laboratories Quality Control Summary Report

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Laboratory IDs: WG52077-4, WG52077-5 Analysis Lot: WG52483 Sample Spiked: 01112204-29 Client ID: T-21R Sample Tag: D1:1

Analyte	Units	Amt MS Spiked	Amt MSD Spiked	Sample Value	MS Value	MSD Value	MS % Rec	MSD % Rec	Rec Limits	RPD	RPD Limits
Chlorobenzene	UG/L	20	20	5.0U	16	16	80.0	80.0	68.0-112	0.00	40.0
Toluene	UG/L	20	20	5.0U	16	16	80.0	80.0	67.0-110	0.00	40.0
Trichloroethene	UG/L	20	20	5.0U	16	16	80.0	80.0	65.0-109	0.00	40.0
Benzene	UG/L	20	20	5.0U	17	16	85.0	80.0	69.0-114	6.06	40.0

Laboratory IDs: WG52483-4, WG52483-5 Analysis Lot: WG52483 Sample Spiked: 01112204-35 Client ID: W-4D Sample Tag: D1:1

Analyte	Units	Amt MS Spiked	Amt MSD Spiked	Sample Value	MS Value	MSD Value	MS % Rec	MSD % Rec	Rec Limits	RPD	RPD Limits
Chlorobenzene	UG/L	20	20	5.0U	19	19	95.0	95.0	68.0-112	0.00	40.0
1,1-Dichloroethene	UG/L	20	20	5.0U	20	21	97.0	102	63.0-112	5.02	40.0
Benzene	UG/L	20	20	5.0U	20	20	100	100	69.0-114	0.00	40.0
Toluene	UG/L	20	20	5.0U	20	19	100	95.0	67.0-110	5.13	40.0
Trichloroethene	UG/L	20	20	60	78	80	90.0	100	65.0-109	10.5	40.0

CONTINUING CALIBRATION VERIFICATION

Laboratory ID: WG52077-1 Analysis Lot: WG52077 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
Chloromethane	UG/L	20	21	105	70.0-130	19-Nov-01 08:39
Vinyl Chloride	UG/L	20	22	110	70.0-130	19-Nov-01 08:39
Bromomethane	UG/L	20	15	75.0	70.0-130	19-Nov-01 08:39
Chloroethane	UG/L	20	23	115	70.0-130	19-Nov-01 08:39
Methylene Chloride	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
Acetone	UG/L	20	25	125	70.0-130	19-Nov-01 08:39
Carbon Disulfide	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
1,1-Dichloroethene	UG/L	20	18	90.0	70.0-130	19-Nov-01 08:39
1,1-Dichloroethane	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
trans-1,2-Dichloroethene	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
cis-1,2-Dichloroethene	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
Chloroform	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
1,2-Dichloroethane	UG/L	20	20	100	70.0-130	19-Nov-01 08:39
1,1,1-Trichloroethane	UG/L	20	20	100	70.0-130	19-Nov-01 08:39
1,4-Dioxane	UG/L	2000	1700	85.0	70.0-130	19-Nov-01 08:39
Carbon Tetrachloride	UG/L	20	20	100	70.0-130	19-Nov-01 08:39
Vinyl Acetate	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
Bromodichloromethane	UG/L	20	20	100	70.0-130	19-Nov-01 08:39
1,2-Dichloropropane	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
cis-1,3-Dichloropropene	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
Trichloroethene	UG/L	20	17	85.0	70.0-130	19-Nov-01 08:39
Dibromochloromethane	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
1,1,2-Trichloroethane	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
Benzene	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
trans-1,3-Dichloropropene	UG/L	20	20	100	70.0-130	19-Nov-01 08:39
Bromoform	UG/L	20	18	90.0	70.0-130	19-Nov-01 08:39
4-Methyl-2-pentanone	UG/L	20	18	90.0	70.0-130	19-Nov-01 08:39
2-Hexanone	UG/L	20	20	100	70.0-130	19-Nov-01 08:39
Tetrachloroethene	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
1,1,2,2-Tetrachloroethane	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
Toluene	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
Chlorobenzene	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
Ethylbenzene	UG/L	20	18	90.0	70.0-130	19-Nov-01 08:39
m,p-Xylene	UG/L	40	37	92.5	70.0-130	19-Nov-01 08:39
o-Xylene	UG/L	20	19	95.0	70.0-130	19-Nov-01 08:39
Xylenes (Total)	UG/L	60	56	93.3	70.0-130	19-Nov-01 08:39
1,2-Dichloroethane-d4 (SURR)	UG/L	30	30.2283	101	70.0-130	19-Nov-01 08:39
Toluene-d8 (SURR)	UG/L	30	28.7365	96.0	70.0-130	19-Nov-01 08:39
Bromofluorobenzene (SURR)	UG/L	30	28.7214	96.0	70.0-130	19-Nov-01 08:39
2-Chloroethyl vinyl ether	UG/L	20	21	105	70.0-130	19-Nov-01 08:39
2-Butanone	UG/L	20	20	100	70.0-130	19-Nov-01 08:39

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VOLATILE ORGANICS BY GC/MS (SW8260)
CONTINUING CALIBRATION VERIFICATION

Laboratory ID: WG52077-1 Analysis Lot: WG52077 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
Styrene	UG/L	20	18	90.0	70.0-130	19-Nov-01 08:39

Laboratory ID: WG52083-1 Analysis Lot: WG52083 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
Chloromethane	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
Vinyl Chloride	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
Bromomethane	UG/L	20	17	85.0	70.0-130	20-Nov-01 07:22
Chloroethane	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
Methylene Chloride	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
Acetone	UG/L	20	25	125	70.0-130	20-Nov-01 07:22
Carbon Disulfide	UG/L	20	19	95.0	70.0-130	20-Nov-01 07:22
1,1-Dichloroethene	UG/L	20	19	95.0	70.0-130	20-Nov-01 07:22
1,1-Dichloroethane	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
trans-1,2-Dichloroethene	UG/L	20	19	95.0	70.0-130	20-Nov-01 07:22
cis-1,2-Dichloroethene	UG/L	20	19	95.0	70.0-130	20-Nov-01 07:22
Chloroform	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
1,2-Dichloroethane	UG/L	20	21	105	70.0-130	20-Nov-01 07:22
2-Butanone	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
1,1,1-Trichloroethane	UG/L	20	22	110	70.0-130	20-Nov-01 07:22
1,4-Dioxane	UG/L	2000	1700	85.0	70.0-130	20-Nov-01 07:22
Carbon Tetrachloride	UG/L	20	21	105	70.0-130	20-Nov-01 07:22
Vinyl Acetate	UG/L	20	18	90.0	70.0-130	20-Nov-01 07:22
Bromodichloromethane	UG/L	20	21	105	70.0-130	20-Nov-01 07:22
1,2-Dichloropropane	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
cis-1,3-Dichloropropene	UG/L	20	21	105	70.0-130	20-Nov-01 07:22
Trichloroethene	UG/L	20	18	90.0	70.0-130	20-Nov-01 07:22
Dibromochloromethane	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
1,1,2-Trichloroethane	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
Benzene	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
trans-1,3-Dichloropropene	UG/L	20	21	105	70.0-130	20-Nov-01 07:22
Bromoform	UG/L	20	19	95.0	70.0-130	20-Nov-01 07:22
4-Methyl-2-pentanone	UG/L	20	18	90.0	70.0-130	20-Nov-01 07:22
2-Hexanone	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
Tetrachloroethene	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
1,1,2,2-Tetrachloroethane	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
Toluene	UG/L	20	19	95.0	70.0-130	20-Nov-01 07:22
Chlorobenzene	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
Ethylbenzene	UG/L	20	19	95.0	70.0-130	20-Nov-01 07:22
Styrene	UG/L	20	19	95.0	70.0-130	20-Nov-01 07:22
m,p-Xylene	UG/L	40	39	97.5	70.0-130	20-Nov-01 07:22
o-Xylene	UG/L	20	20	100	70.0-130	20-Nov-01 07:22
Xylenes (Total)	UG/L	60	59	98.3	70.0-130	20-Nov-01 07:22
1,2-Dichloroethane-d4 (SURR)	UG/L	30	27.7787	92.6	70.0-130	20-Nov-01 07:22
Toluene-d8 (SURR)	UG/L	30	25.5208	85.1	70.0-130	20-Nov-01 07:22
Bromofluorobenzene (SURR)	UG/L	30	25.7484	85.8	70.0-130	20-Nov-01 07:22
2-Chloroethyl vinyl ether	UG/L	20	20	100	70.0-130	20-Nov-01 07:22

Laboratory ID: WG52483-1 Analysis Lot: WG52483 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
Chloromethane	UG/L	20	20	100	70.0-130	21-Nov-01 09:02
Vinyl Chloride	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
Bromomethane	UG/L	20	16	80.0	70.0-130	21-Nov-01 09:02
Chloroethane	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
Methylene Chloride	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
Acetone	UG/L	20	26	130	70.0-130	21-Nov-01 09:02
Carbon Disulfide	UG/L	20	19	95.0	70.0-130	21-Nov-01 09:02
1,1-Dichloroethene	UG/L	20	19	95.0	70.0-130	21-Nov-01 09:02

PDC Laboratories Quality Control Summary Report

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
CONTINUING CALIBRATION VERIFICATION

Laboratory ID: WG52483-1 Analysis Lot: WG52483 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,1-Dichloroethane	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
trans-1,2-Dichloroethene	UG/L	20	20	100	70.0-130	21-Nov-01 09:02
cis-1,2-Dichloroethene	UG/L	20	20	100	70.0-130	21-Nov-01 09:02
Chloroform	UG/L	20	20	100	70.0-130	21-Nov-01 09:02
1,2-Dichloroethane	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
1,1,1-Trichloroethane	UG/L	20	22	110	70.0-130	21-Nov-01 09:02
1,4-Dioxane	UG/L	2000	1800	90.0	70.0-130	21-Nov-01 09:02
Carbon Tetrachloride	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
Vinyl Acetate	UG/L	20	19	95.0	70.0-130	21-Nov-01 09:02
Bromodichloromethane	UG/L	20	22	110	70.0-130	21-Nov-01 09:02
1,2-Dichloropropane	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
cis-1,3-Dichloropropene	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
Trichloroethene	UG/L	20	18	90.0	70.0-130	21-Nov-01 09:02
Dibromochloromethane	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
1,1,2-Trichloroethane	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
Benzene	UG/L	20	20	100	70.0-130	21-Nov-01 09:02
trans-1,3-Dichloropropene	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
Bromoform	UG/L	20	20	100	70.0-130	21-Nov-01 09:02
4-Methyl-2-pentanone	UG/L	20	19	95.0	70.0-130	21-Nov-01 09:02
2-Hexanone	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
Tetrachloroethene	UG/L	20	20	100	70.0-130	21-Nov-01 09:02
1,1,2,2-Tetrachloroethane	UG/L	20	20	100	70.0-130	21-Nov-01 09:02
Toluene	UG/L	20	20	100	70.0-130	21-Nov-01 09:02
Chlorobenzene	UG/L	20	20	100	70.0-130	21-Nov-01 09:02
Ethylbenzene	UG/L	20	19	95.0	70.0-130	21-Nov-01 09:02
m,p-Xylene	UG/L	40	39	97.5	70.0-130	21-Nov-01 09:02
o-Xylene	UG/L	20	19	95.0	70.0-130	21-Nov-01 09:02
Xylenes (Total)	UG/L	60	58	96.7	70.0-130	21-Nov-01 09:02
1,2-Dichloroethane-d4 (SURR)	UG/L	30	31.6225	105	70.0-130	21-Nov-01 09:02
Toluene-d8 (SURR)	UG/L	30	28.907	96.0	70.0-130	21-Nov-01 09:02
Bromofluorobenzene (SURR)	UG/L	30	29.0606	97.0	70.0-130	21-Nov-01 09:02
2-Chloroethyl vinyl ether	UG/L	20	21	105	70.0-130	21-Nov-01 09:02
2-Butanone	UG/L	20	22	110	70.0-130	21-Nov-01 09:02
Styrene	UG/L	20	19	95.0	70.0-130	21-Nov-01 09:02

SURROGATE RECOVERIES

Laboratory ID: 01112204-1 Analysis Lot: WG52014 Client ID: T-1 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	31.0	103	86.0-122	16-Nov-01 12:24
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	16-Nov-01 12:24
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	16-Nov-01 12:24

Laboratory ID: 01112204-1 Analysis Lot: WG52483 Client ID: T-1 Sample Tag: D5:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date	
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	21-Nov-01 12:40	5X Dilution
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	21-Nov-01 12:40	5X Dilution
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	21-Nov-01 12:40	5X Dilution

Laboratory ID: 01112204-2 Analysis Lot: WG52014 Client ID: T-2A Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	31.0	103	86.0-122	16-Nov-01 12:52
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	16-Nov-01 12:52
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	16-Nov-01 12:52

PDC Laboratories Quality Control Summary Report

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
SURROGATE RECOVERIES

Laboratory ID: 01112204-3 Analysis Lot: WG52014 Client ID: T-2B Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date	
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	31.0	103	86.0-122	16-Nov-01 13:26	
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	16-Nov-01 13:26	
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	16-Nov-01 13:26	

Laboratory ID: 01112204-4 Analysis Lot: WG52014 Client ID: T-3 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date	
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	30.0	100	86.0-122	16-Nov-01 13:53	
Toluene-d8 (SURR)	UG/L	30.0	28.0	93.3	75.0-124	16-Nov-01 13:53	
Bromofluorobenzene (SURR)	UG/L	30.0	29.0	96.7	79.0-134	16-Nov-01 13:53	

Laboratory ID: 01112204-4 Analysis Lot: WG52083 Client ID: T-3 Sample Tag: D5:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date	
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	20-Nov-01 17:46	5X Dilution
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	20-Nov-01 17:46	5X Dilution
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	20-Nov-01 17:46	5X Dilution

Laboratory ID: 01112204-5 Analysis Lot: WG52014 Client ID: T-4A Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	31.0	103	86.0-122	16-Nov-01 14:21
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	16-Nov-01 14:21
Bromofluorobenzene (SURR)	UG/L	30.0	29.0	96.7	79.0-134	16-Nov-01 14:21

Laboratory ID: 01112204-6 Analysis Lot: WG52014 Client ID: T-4B Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	16-Nov-01 14:49
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	16-Nov-01 14:49
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	16-Nov-01 14:49

Laboratory ID: 01112204-7 Analysis Lot: WG52014 Client ID: T-5A Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	27.0	90.0	86.0-122	16-Nov-01 15:32
Toluene-d8 (SURR)	UG/L	30.0	26.0	86.7	75.0-124	16-Nov-01 15:32
Bromofluorobenzene (SURR)	UG/L	30.0	26.0	86.7	79.0-134	16-Nov-01 15:32

PDC Laboratories Quality Control Summary Report

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
SURROGATE RECOVERIES

Laboratory ID: 01112204-8 Analysis Lot: WG52014 Client ID: T-5B Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	16-Nov-01 16:53
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	16-Nov-01 16:53
Bromofluorobenzene (SURR)	UG/L	30.0	24.0	80.0	79.0-134	16-Nov-01 16:53

Laboratory ID: 01112204-9 Analysis Lot: WG52014 Client ID: T-5C Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	16-Nov-01 17:21
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	16-Nov-01 17:21
Bromofluorobenzene (SURR)	UG/L	30.0	29.0	96.7	79.0-134	16-Nov-01 17:21

Laboratory ID: 01112204-10 Analysis Lot: WG52014 Client ID: T-6A Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	31.0	103	86.0-122	16-Nov-01 17:49
Toluene-d8 (SURR)	UG/L	30.0	28.0	93.3	75.0-124	16-Nov-01 17:49
Bromofluorobenzene (SURR)	UG/L	30.0	29.0	96.7	79.0-134	16-Nov-01 17:49

Laboratory ID: 01112204-11 Analysis Lot: WG52014 Client ID: T-6B Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	16-Nov-01 18:17
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	16-Nov-01 18:17
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	16-Nov-01 18:17

Laboratory ID: 01112204-12 Analysis Lot: WG52077 Client ID: T-6C Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	31.0	103	86.0-122	19-Nov-01 10:58
Toluene-d8 (SURR)	UG/L	30.0	27.0	90.0	75.0-124	19-Nov-01 10:58
Bromofluorobenzene (SURR)	UG/L	30.0	27.0	90.0	79.0-134	19-Nov-01 10:58

Laboratory ID: 01112204-13 Analysis Lot: WG52077 Client ID: T-7A Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	30.0	100	86.0-122	19-Nov-01 11:25
Toluene-d8 (SURR)	UG/L	30.0	28.0	93.3	75.0-124	19-Nov-01 11:25
Bromofluorobenzene (SURR)	UG/L	30.0	29.0	96.7	79.0-134	19-Nov-01 11:25

PDC Laboratories Quality Control Summary Report

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
SURROGATE RECOVERIES

Laboratory ID: 01112204-14 Analysis Lot: WG52077 Client ID: T-7B Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	19-Nov-01 11:53
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	19-Nov-01 11:53
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	19-Nov-01 11:53

Laboratory ID: 01112204-15 Analysis Lot: WG52077 Client ID: T-8 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	31.0	103	86.0-122	19-Nov-01 12:21
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	19-Nov-01 12:21
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	19-Nov-01 12:21

Laboratory ID: 01112204-16 Analysis Lot: WG52077 Client ID: T-9 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	19-Nov-01 12:49
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	19-Nov-01 12:49
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	19-Nov-01 12:49

Laboratory ID: 01112204-17 Analysis Lot: WG52077 Client ID: T-10 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	31.0	103	86.0-122	19-Nov-01 13:17
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	19-Nov-01 13:17
Bromofluorobenzene (SURR)	UG/L	30.0	29.0	96.7	79.0-134	19-Nov-01 13:17

Laboratory ID: 01112204-18 Analysis Lot: WG52083 Client ID: T-11A Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	35.0	117	86.0-122	20-Nov-01 16:22
Toluene-d8 (SURR)	UG/L	30.0	31.0	103	75.0-124	20-Nov-01 16:22
Bromofluorobenzene (SURR)	UG/L	30.0	32.0	107	79.0-134	20-Nov-01 16:22

Laboratory ID: 01112204-19 Analysis Lot: WG52077 Client ID: T-11B Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	19-Nov-01 14:13
Toluene-d8 (SURR)	UG/L	30.0	28.0	93.3	75.0-124	19-Nov-01 14:13
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	19-Nov-01 14:13

PDC Laboratories Quality Control Summary Report

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
SURROGATE RECOVERIES

Laboratory ID: 01112204-20 Analysis Lot: WG52077 Client ID: T-11C Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date	
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	19-Nov-01 14:40	
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	19-Nov-01 14:40	
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	19-Nov-01 14:40	

Laboratory ID: 01112204-21 Analysis Lot: WG52077 Client ID: T-13B Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date	
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	19-Nov-01 15:08	
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	19-Nov-01 15:08	
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	19-Nov-01 15:08	

Laboratory ID: 01112204-22 Analysis Lot: WG52077 Client ID: T-15 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date	
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	19-Nov-01 15:36	
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	19-Nov-01 15:36	
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	19-Nov-01 15:36	

Laboratory ID: 01112204-23 Analysis Lot: WG52077 Client ID: T-16 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date	
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	19-Nov-01 16:04	
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	19-Nov-01 16:04	
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	19-Nov-01 16:04	

Laboratory ID: 01112204-23 Analysis Lot: WG52083 Client ID: T-16 Sample Tag: D5:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date	
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	34.0	113	86.0-122	20-Nov-01 18:14	5X Dilution
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	20-Nov-01 18:14	5X Dilution
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	20-Nov-01 18:14	5X Dilution

Laboratory ID: 01112204-24 Analysis Lot: WG52077 Client ID: T-17 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	19-Nov-01 16:32
Toluene-d8 (SURR)	UG/L	30.0	27.0	90.0	75.0-124	19-Nov-01 16:32
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	19-Nov-01 16:32

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PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
SURROGATE RECOVERIES

Laboratory ID: 01112204-25 Analysis Lot: WG52077 Client ID: T-18 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	34.0	113	86.0-122	19-Nov-01 17:00
Toluene-d8 (SURR)	UG/L	30.0	24.0	80.0	75.0-124	19-Nov-01 17:00
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	19-Nov-01 17:00

Laboratory ID: 01112204-26 Analysis Lot: WG52077 Client ID: T-19B Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	19-Nov-01 17:27
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	19-Nov-01 17:27
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	19-Nov-01 17:27

Laboratory ID: 01112204-27 Analysis Lot: WG52083 Client ID: T-19C Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	34.0	113	86.0-122	20-Nov-01 16:50
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	20-Nov-01 16:50
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	20-Nov-01 16:50

Laboratory ID: 01112204-28 Analysis Lot: WG52077 Client ID: T-20 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	19-Nov-01 18:23
Toluene-d8 (SURR)	UG/L	30.0	28.0	93.3	75.0-124	19-Nov-01 18:23
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	19-Nov-01 18:23

Laboratory ID: 01112204-29 Analysis Lot: WG52077 Client ID: T-21R Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	31.0	103	86.0-122	19-Nov-01 18:51
Toluene-d8 (SURR)	UG/L	30.0	28.0	93.3	75.0-124	19-Nov-01 18:51
Bromofluorobenzene (SURR)	UG/L	30.0	29.0	96.7	79.0-134	19-Nov-01 18:51

Laboratory ID: 01112204-30 Analysis Lot: WG52083 Client ID: T-22A Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	29.0	96.7	86.0-122	20-Nov-01 09:31
Toluene-d8 (SURR)	UG/L	30.0	28.0	93.3	75.0-124	20-Nov-01 09:31
Bromofluorobenzene (SURR)	UG/L	30.0	29.0	96.7	79.0-134	20-Nov-01 09:31

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PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
SURROGATE RECOVERIES

Laboratory ID: 01112204-31 Analysis Lot: WG52083 Client ID: T-22B Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	20-Nov-01 09:58
Toluene-d8 (SURR)	UG/L	30.0	28.0	93.3	75.0-124	20-Nov-01 09:58
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	20-Nov-01 09:58

Laboratory ID: 01112204-32 Analysis Lot: WG52083 Client ID: W-1D Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	20-Nov-01 10:26
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	20-Nov-01 10:26
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	20-Nov-01 10:26

Laboratory ID: 01112204-33 Analysis Lot: WG52083 Client ID: W-2 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	20-Nov-01 10:53
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	20-Nov-01 10:53
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	20-Nov-01 10:53

Laboratory ID: 01112204-34 Analysis Lot: WG52083 Client ID: W-3D Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	20-Nov-01 11:19
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	20-Nov-01 11:19
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	20-Nov-01 11:19

Laboratory ID: 01112204-35 Analysis Lot: WG52483 Client ID: W-4D Sample Tag: D1:R2

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	31.0	103	86.0-122	21-Nov-01 13:08
Toluene-d8 (SURR)	UG/L	30.0	28.0	93.3	75.0-124	21-Nov-01 13:08
Bromofluorobenzene (SURR)	UG/L	30.0	29.0	96.7	79.0-134	21-Nov-01 13:08

Laboratory ID: 01112204-36 Analysis Lot: WG52083 Client ID: DUP-4 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	20-Nov-01 12:15
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	20-Nov-01 12:15
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	20-Nov-01 12:15

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
SURROGATE RECOVERIES

Laboratory ID: 01112204-37 Analysis Lot: WG52083 Client ID: DUP-5 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	20-Nov-01 12:42
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	20-Nov-01 12:42
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	20-Nov-01 12:42

Laboratory ID: 01112204-38 Analysis Lot: WG52083 Client ID: DUP-6 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	20-Nov-01 13:10
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	20-Nov-01 13:10
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	20-Nov-01 13:10

Laboratory ID: 01112204-39 Analysis Lot: WG52083 Client ID: DUP-7 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	20-Nov-01 13:36
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	20-Nov-01 13:36
Bromofluorobenzene (SURR)	UG/L	30.0	33.0	110	79.0-134	20-Nov-01 13:36

Laboratory ID: 01112204-40 Analysis Lot: WG52083 Client ID: BLANK 304 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	34.0	113	86.0-122	20-Nov-01 14:04
Toluene-d8 (SURR)	UG/L	30.0	28.0	93.3	75.0-124	20-Nov-01 14:04
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	20-Nov-01 14:04

Laboratory ID: 01112204-41 Analysis Lot: WG52083 Client ID: BLANK 202 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	20-Nov-01 14:32
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	20-Nov-01 14:32
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	20-Nov-01 14:32

Laboratory ID: 01112204-42 Analysis Lot: WG52083 Client ID: BLANK 307 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	34.0	113	86.0-122	20-Nov-01 14:59
Toluene-d8 (SURR)	UG/L	30.0	28.0	93.3	75.0-124	20-Nov-01 14:59
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	20-Nov-01 14:59

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VOLATILE ORGANICS BY GC/MS (SW8260)
SURROGATE RECOVERIES

Laboratory ID: 01112204-43 Analysis Lot: WG52083 Client ID: BLANK 118 Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	34.0	113	86.0-122	20-Nov-01 15:26
Toluene-d8 (SURR)	UG/L	30.0	27.0	90.0	75.0-124	20-Nov-01 15:26
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	20-Nov-01 15:26

Laboratory ID: 01112204-44 Analysis Lot: WG52083 Client ID: TRIP BLANK Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	34.0	113	86.0-122	20-Nov-01 15:54
Toluene-d8 (SURR)	UG/L	30.0	28.0	93.3	75.0-124	20-Nov-01 15:54
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	20-Nov-01 15:54

Laboratory ID: WG52014-1 Analysis Lot: WG52014 Client ID: MB Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	26.0	86.7	86.0-122	16-Nov-01 11:28
Toluene-d8 (SURR)	UG/L	30.0	25.0	83.3	75.0-124	16-Nov-01 11:28
Bromofluorobenzene (SURR)	UG/L	30.0	26.0	86.7	79.0-134	16-Nov-01 11:28

Laboratory ID: WG52014-2 Analysis Lot: WG52014 Client ID: LCS Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	28.0	93.3	86.0-122	16-Nov-01 11:56
Toluene-d8 (SURR)	UG/L	30.0	27.0	90.0	75.0-124	16-Nov-01 11:56
Bromofluorobenzene	UG/L	30.0	26.0	86.7	79.0-134	16-Nov-01 11:56

Laboratory ID: WG52014-3 Analysis Lot: WG52014 Client ID: MS Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	31.0	103	86.0-122	16-Nov-01 15:57
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	16-Nov-01 15:57
Bromofluorobenzene (SURR)	UG/L	30.0	28.0	93.3	79.0-134	16-Nov-01 15:57

Laboratory ID: WG52014-4 Analysis Lot: WG52014 Client ID: MSD Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	16-Nov-01 16:25
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	16-Nov-01 16:25
Bromofluorobenzene (SURR)	UG/L	30.0	29.0	96.7	79.0-134	16-Nov-01 16:25

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VOLATILE ORGANICS BY GC/MS (SW8260)
SURROGATE RECOVERIES

Laboratory ID: WG52077-2 Analysis Lot: WG52077 Client ID: MB Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	31.0	103	86.0-122	19-Nov-01 10:30
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	19-Nov-01 10:30
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	19-Nov-01 10:30

Laboratory ID: WG52077-3 Analysis Lot: WG52077 Client ID: LCS Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	19-Nov-01 09:41
Toluene-d8 (SURR)	UG/L	30.0	31.0	103	75.0-124	19-Nov-01 09:41
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	19-Nov-01 09:41

Laboratory ID: WG52077-4 Analysis Lot: WG52077 Client ID: MS Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	19-Nov-01 19:19
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	19-Nov-01 19:19
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	19-Nov-01 19:19

Laboratory ID: WG52077-5 Analysis Lot: WG52077 Client ID: MSD Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	32.0	107	86.0-122	19-Nov-01 19:47
Toluene-d8 (SURR)	UG/L	30.0	29.0	96.7	75.0-124	19-Nov-01 19:47
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	19-Nov-01 19:47

Laboratory ID: WG52083-2 Analysis Lot: WG52083 Client ID: MB Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	29.0	96.7	86.0-122	20-Nov-01 08:04
Toluene-d8 (SURR)	UG/L	30.0	27.0	90.0	75.0-124	20-Nov-01 08:04
Bromofluorobenzene (SURR)	UG/L	30.0	28.0	93.3	79.0-134	20-Nov-01 08:04

Laboratory ID: WG52083-3 Analysis Lot: WG52083 Client ID: LCS Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	20-Nov-01 08:32
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	20-Nov-01 08:32
Bromofluorobenzene (SURR)	UG/L	30.0	31.0	103	79.0-134	20-Nov-01 08:32

PDC Laboratories Quality Control Summary Report

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)
SURROGATE RECOVERIES

Laboratory ID: WG52083-4 Analysis Lot: WG52083 Client ID: LCSD Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	20-Nov-01 09:00
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	20-Nov-01 09:00
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	20-Nov-01 09:00

Laboratory ID: WG52483-2 Analysis Lot: WG52483 Client ID: MB Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	34.0	113	86.0-122	21-Nov-01 11:04
Toluene-d8 (SURR)	UG/L	30.0	31.0	103	75.0-124	21-Nov-01 11:04
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	21-Nov-01 11:04

Laboratory ID: WG52483-3 Analysis Lot: WG52483 Client ID: LCS Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	34.0	113	86.0-122	21-Nov-01 10:08
Toluene-d8 (SURR)	UG/L	30.0	31.0	103	75.0-124	21-Nov-01 10:08
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	21-Nov-01 10:08

Laboratory ID: WG52483-4 Analysis Lot: WG52483 Client ID: MS Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	33.0	110	86.0-122	21-Nov-01 13:33
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	21-Nov-01 13:33
Bromofluorobenzene (SURR)	UG/L	30.0	29.0	96.7	79.0-134	21-Nov-01 13:33

Laboratory ID: WG52483-5 Analysis Lot: WG52483 Client ID: MSD Sample Tag: D1:1

Analyte	Units	Spiked	Measured	%Recovery	Limits	Analysis Date
1,2-Dichloroethane-d4 (SURR)	UG/L	30.0	34.0	113	86.0-122	21-Nov-01 14:01
Toluene-d8 (SURR)	UG/L	30.0	30.0	100	75.0-124	21-Nov-01 14:01
Bromofluorobenzene (SURR)	UG/L	30.0	30.0	100	79.0-134	21-Nov-01 14:01

PROJECT: 01112204

VOLATILE ORGANICS BY GC/MS (SW8260)

PDC LABORATORIES, INC.
2231 WEST ALTORFER DRIVE
PEORIA, IL 61615

PHONE # 309-692-9688
FAX # 309-692-9689

CHAIN OF CUSTODY RECORD

0223

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

(1) CLIENT	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED
KEYSTONE - GWMZ	19718.01		PICK-UP
ADDRESS: 5010 STONE MILL ROAD	PHONE NUMBER: 812-336-0972	FAX NUMBER	DATE SHIPPED: 11-14-01
CITY STATE ZIP: BLOOMINGTON, IN 47408	SAMPLER (PLEASE PRINT): ATEN, BENT; DUWELINS, FALLOWFIELD		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID, OTHER:
CONTACT PERSON: BOB ATEN	SAMPLER'S SIGNATURE:		

(3) ANALYSIS REQUESTED: VOCS 8260B; SEE ATTACHED LIST

(4) (FOR LAB USE ONLY): LOGIN # 0142204-44; LOGGED BY: [illegible]; LAB PROJ. #; TEMPLATE; PROJ. MGR.:

	(2) SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX TYPE	TOTAL # OF CONT.	VOCS 8260B	SEE ATTACHED LIST						REMARKS
1.	T-1	11-13-01	17:30	X		GW	3	X							
2.	T-2A	11-13-01	14:20	X		GW	3	X							
3.	T-2B	11-13-01	15:10	X		GW	3	X							
4.	T-3	11-14-01	11:30	X		GW	3	X							
5.	T-4A	11-13-01	11:45	X		GW	3	X							
6.	T-4B	11-13-01	12:40	X		GW	3	X							
7.	T-5A	11-13-01	11:30	X		GW	3	X							
8.	T-5B	11-13-01	11:35	X		GW	3	X							
9.	T-5C	11-13-01	11:40	X		GW	3	X							
10.	T-6A	11-13-01	11:55	X		GW	3	X							
11.	T-6B	11-13-01	12:35	X		GW	3	X							
12.	T-6C	11-13-01	14:05	X		GW	3	X							

(5) TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE): NORMAL ~~RUSH~~

RUSH RESULTS VIA (PLEASE CIRCLE): ~~FAX~~ ~~PHONE~~

FAX # IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:

(6) *The sample temperature will be measured upon receipt at the lab. By initialing this area you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area you allow the lab to proceed with analytical testing regardless of the sample temperature.*

(7) RELINQUISHED BY: (SIGNATURE)	DATE	RECEIVED BY: (SIGNATURE)	DATE
John A. Duwelius	11-14-01		
	TIME 11:00		TIME
RELINQUISHED BY: (SIGNATURE)	DATE	RECEIVED AT LAB BY: (SIGNATURE)	DATE 11-14-01
	TIME	[illegible]	TIME 12:30

(8) COMMENTS: (FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT 13 °C
CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N
SAMPLE(S) RECEIVED ON ICE Y OR N
BOTTLES RECEIVED IN GOOD CONDITION Y OR N
BOTTLES FILLED WITH ADEQUATE VOLUME Y OR N
SAMPLES RECEIVED WITHIN HOLD TIME(S) Y OR N

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PDC LABORATORIES, INC.
2231 WEST ALTORFER DRIVE
PEORIA, IL 61615

PHONE # 309-692-9688
FAX # 309-692-9689

CHAIN OF CUSTODY RECORD

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT: KEYSTONE - GWMZ	PROJECT NUMBER: 19718.01	P.O. NUMBER:	MEANS SHIPPED: pick-up
ADDRESS: 5010 STONE MILL ROAD	PHONE NUMBER: 812-336-0972	FAX NUMBER:	DATE SHIPPED: 11-14-01
CITY, STATE, ZIP: BLOOMINGTON, IN 47408	SAMPLER (PLEASE PRINT): ATEN BENT, DUWELIUS, FALLOWFIELD		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID, OTHER:
CONTACT PERSON: BOB ATEN	SAMPLER'S SIGNATURE:		

3 ANALYSIS REQUESTED

4 (FOR LAB USE ONLY)
LOGIN # 01112204-44
LOGGED BY: Rep
LAB PROJ. #
TEMPLATE:
PROJ. MGR.:

	2 SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX TYPE	TOTAL # OF CONT	VOCS 8260 B	SEE ATTACHED	LIST					REMARKS
13	T-7 ~~C~~ A	11-13-01	9:10	X		GW	3	X							
14	T-7 B	11-13-01	9:50	X		GW	3	X							
15	T-8	11-13-01	17:00	X		GW	3	X							
16	T-9	11-13-01	10:35	X		GW	3	X							
17	T-10	11-14-01	10:10	X		GW	3	X							
18	T-11 A	11-13-01	15:30	X		GW	3	X							
19	T-11 B	11-13-01	15:20	X		GW	3	X							
20	T-11 C	11-13-01	15:25	X		GW	3	X							
21	T-13 B	11-13-01	11:00	X		GW	3	X							
22	T-15	11-12-01	16:30	X		GW	3	X							
23	T-16	11-13-01	16:00	X		GW	3	X							
24	T-17	11-13-01	16:40	X		GW	3	X							

5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL ~~RUSH~~
RUSH RESULTS VIA (PLEASE CIRCLE) ~~FAX~~ ~~PHONE~~
FAX # IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:

6 *The sample temperature will be measured upon receipt at the lab. By initialing this area you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area you allow the lab to proceed with analytical testing regardless of the sample temperature.*

7 RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME
John A. Duwelius	11-14-01 / 11:00		
RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED AT LAB BY: (SIGNATURE)	DATE 11-14-01 / TIME 12:30
		[signature]	

8 COMMENTS: (FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT 13 °C
CHILL PROCESS STARTED PRIOR TO RECEIPT ✓ OR N
SAMPLE(S) RECEIVED ON ICE ✓ OR N
BOTTLES RECEIVED IN GOOD CONDITION ✓ OR N
BOTTLES FILLED WITH ADEQUATE VOLUME ✓ OR N
SAMPLES RECEIVED WITHIN HOLD TIME(S) ✓ OR N

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PDC LABORATORIES, INC.
2231 WEST ALTORFER DRIVE
PEORIA, IL 61615

PHONE # 309-692-9688
FAX # 309-692-9689

CHAIN OF CUSTODY RECORD

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT: KEYSTONE GWMZ	PROJECT NUMBER: 19718.01	P.O. NUMBER:	MEANS SHIPPED: PICK-UP
ADDRESS: 5010 STONE MILL ROAD	PHONE NUMBER: 812-336-0972	FAX NUMBER:	DATE SHIPPED: 11-14-01
CITY, STATE, ZIP: BLOOMINGTON IN 47408	SAMPLER (PLEASE PRINT): ATEN, BENT DUWELIUS, FALLOWFIELD		
CONTACT PERSON: BOB ATEN	SAMPLER'S SIGNATURE:		

MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID, OTHER: _____

3 ANALYSIS REQUESTED

4 (FOR LAB USE ONLY)
LOGIN # 0111 8204-44
LOGGED BY: [illegible]
LAB PROJ. # _____
TEMPLATE: _____
PROJ. MGR.: _____

	2 SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX TYPE	TOTAL # OF CONT	VOCS 8260B	SEE ATTACHED	LIST					REMARKS
25	T-18	11-13-01	13:30	X	GW	GW	3	X							
26	T-19B	11-13-01	10:40	X	GW	GW	3	X							
27	T-19C	11-13-01	11:55	X	GW	GW	3	X							
28	T-20	11-13-01	11:25	X	GW	GW	3	X							
29	T-21R	11-13-01	13:15	X	GW	GW	3	X							
30	T-22A	11-13-01	8:25	X	GW	GW	3	X							
31	T-22B	11-13-01	10:05	X	GW	GW	3	X							
32	W-1D	11-14-01	9:30	X		GW	3	X							
33	W-2	11-13-01	13:45	X	GW	GW	3	X							
34	W-3D	11-14-01	9:30	X		GW	3	X							
35	W-4D	11-~~13~~ 12 13-01	15:15	X	GW	GW	3	X							
36	Dup-4	11-13-01	12:00	X		GW	3	X							

5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL ~~RUSH~~
(RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
RUSH RESULTS VIA (PLEASE CIRCLE) ~~FAX~~ ~~PHONE~~
FAX # IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:

6 *The sample temperature will be measured upon receipt at the lab. By initialing this area you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area you allow the lab to proceed with analytical testing regardless of the sample temperature.* _____

7 RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME
John A. Duwelius	DATE 11-14-01 TIME 11:00		
RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED AT LAB BY: (SIGNATURE) [signature]	DATE 11-14-01 TIME 12:30

8 COMMENTS: (FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT 13 °C
CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N
SAMPLE(S) RECEIVED ON ICE Y OR N
BOTTLES RECEIVED IN GOOD CONDITION Y OR N
BOTTLES FILLED WITH ADEQUATE VOLUME Y OR N
SAMPLES RECEIVED WITHIN HOLD TIME(S) Y OR N

090060

PDC LABORATORIES, INC.
2231 WEST ALTORFER DRIVE
PEORIA, IL 61615

PHONE # 309-692-9688
FAX # 309-692-9689

CHAIN OF CUSTODY RECORD

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1			
CLIENT: KEYSTONE GWMZ	PROJECT NUMBER: 19718.01	P.O. NUMBER:	MEANS SHIPPED: pick-up
ADDRESS: 5010 STONE WALL ROAD	PHONE NUMBER: 812-336-0972	FAX NUMBER:	DATE SHIPPED: 11-14-01
CITY, STATE, ZIP: BLOOMINGTON, IN 47408	SAMPLER (PLEASE PRINT): ATEN, BENJ. / DAVID FOLLOWFIELD		MATRIX TYPES: WW-WASTEWATER, DW-DRINKING WATER, GW-GROUND WATER, WWSL-SLUDGE, NAS-SOLID, OTHER:
CONTACT PERSON: BOB ATEN	SAMPLER'S SIGNATURE:		

3 ANALYSIS REQUESTED: VOCS 8260B; SEE ATTACHED LIST

4 (FOR LAB USE ONLY)
LOGIN # 0111220-44
LOGGED BY: MD
LAB PROJ. #
TEMPLATE:
PROJ. MGR.:

	2 SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP.	MATRIX TYPE	TOTAL # OF CONT.	VOCS 8260B	SEE ATTACHED LIST						REMARKS
37	Dup-5	11-13-01	12:00	X		GW	3	X							
38	Dup-6	11-13-01	12:00	X		GW	3	X							
39	Dup-7	11-14-01	12:00	X		GW	3	X							
40	BLANK 304	11-13-01	13:50	X		GW	3	X							
41	BLANK 202	11-13-01	08:20	X		GW	3	X							
42	BLANK 307	11-13-01	08:15	X		GW	3	X							
43	BLANK 118	11-14-01	8:40	X		GW	3	X							
44	Trip Blank			X		GW	~~3~~ 4 RB	X							

5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE): NORMAL ~~RUSH~~
RUSH RESULTS VIA (PLEASE CIRCLE): ~~FAX~~ ~~PHONE~~
FAX # IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:

6 *The sample temperature will be measured upon receipt at the lab. By initialing this area you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area you allow the lab to proceed with analytical testing regardless of the sample temperature.*

7			
RELINQUISHED BY: (SIGNATURE) [signature]	DATE: 11-14-01 TIME: 11:00	RECEIVED BY: (SIGNATURE)	DATE / TIME
RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED AT LAB BY: (SIGNATURE) [signature]	DATE: 11-14-01 TIME: 12:30

8 COMMENTS: (FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT	13 °C
CHILL PROCESS STARTED PRIOR TO RECEIPT	Y OR N
SAMPLE(S) RECEIVED ON ICE	Y OR N
BOTTLES RECEIVED IN GOOD CONDITION	Y OR N
BOTTLES FILLED WITH ADEQUATE VOLUME	Y OR N
SAMPLES RECEIVED WITHIN HOLD TIME(S)	Y OR N

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