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TECHNICAL MEMORANDUM RESULTS OF APRIL 2001 QUARTERLY GROUNDWATER MONITORING AT RICHARDS GEBAUR AIR FORCE BASE KANSAS CITY MO

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CH2M HILL

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Results of April 2001 Quarterly Groundwater Monitoring at Richards-Gebaur Air Force Base

PREPARED FOR: Air Force Base Realignment and Closure (BRAC) Cleanup Team (BCT)

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This technical memorandum summarizes the analytical results for the quarterly groundwater monitoring (QGM) conducted between April 16 and April 26, 2001 at Richards-Gebaur Air Force Base (AFB), Kansas City, Missouri. The April 2001 results are compared with the findings from the three previous groundwater monitoring events to better understand the nature and extent of the groundwater contamination at the Base.

Introduction

The QGM program was established at Richards-Gebaur AFB based on the results of the 1999 Basewide Remedial Investigation (RI) and 2000 RI Addendum. Five groundwater-contaminated sites were identified during the RI investigation and were selected for the original QGM.

In 2001, an additional site, referred to as Building 105, was investigated to assess the presence of volatile organic compounds (VOCs) in the site groundwater. Twelve monitoring wells were installed in a series of step-outs between February and April 2001 to delineate the groundwater contamination.

Consequently, the April 2001 QGM comprised six sites where concentrations of VOCs in groundwater are known to exceed the conservative Tier 1 Screening Levels that were set forth in the RI (generally equivalent to federal maximum contaminant levels).

The six sites are:

- CS 004, UST 620A
- SS 003, Oil Saturated Area
- SS 006, Hazardous Material Storage Area
- SS 009, Fire Valve Area
- ST 005, POL Yard
- Building 105, Communications Facility

From the six sites, 75 monitoring wells were selected for the April 2001 QGM program. Results from the first QGM were discussed in the *Draft RI Report* (CH2M HILL, 2000). Results from the October 2000 QGM were discussed in the *Results of October 2000 Quarterly Groundwater Monitoring at Richards-Gebaur Air Force Base* (CH2M HILL, 2001). Results from the January 2001 QGM were discussed in the *Results of January 2001 Quarterly Groundwater Monitoring at*

Richards-Gebaur Air Force Base (CH2M HILL, 2001). Findings of the April 2001 QGM are presented below. Subsequent groundwater monitoring events are scheduled for July 2001, and October 2001. The monitoring well network for the six sites is summarized in Table 1.

The objectives of the quarterly groundwater monitoring at Richards-Gebaur AFB are as follows:

- assess whether the existing monitoring well network sufficiently delineates the groundwater contamination
- evaluate temporal trends of chemicals of concern (COCs) in groundwater.

Methodology

Field Procedures

Following the direction of the Air Force, CH2M HILL used low-flow groundwater sampling techniques during the April 2001 Sampling. Previous groundwater sampling was done using standard bailers. One expected advantage of using low-flow sampling methods is that it generally results in more representative analytical data than using bailers. In particular, this technique is generally preferred for geochemical data collection for natural attenuation evaluation by significantly minimizing the possible aeration and volatilization induced by the conventional sampling techniques.

To perform low-flow groundwater sampling, a peristaltic pump, instead of a bailer, was used to purge the well and collect the sample. The intake of the peristaltic pump was placed within the screened interval of the well. The pump was operated slowly to purge the water from the discharge tubing and draw water from the aquifer formation through the screen immediately adjacent to the intake without mixing with the "stagnant" water in the well. The pumping water level was monitored to ensure the drawdown was kept to a minimum to prevent artificial aeration of the sample and mixing with stagnant well-bore water. Continuous measurement of field parameters such as turbidity, dissolved oxygen (DO), temperature, oxidation-reduction potential (ORP), electrical conductivity, and pH using a flow-through cell was used to identify when purged water had reached equilibrium. The low-flow purging and sampling was conducted until groundwater indicator parameters had stabilized, regardless of the number of well volumes. Once the equilibrium conditions were achieved, groundwater samples were collected immediately from the outlet of the tubing. VOC samples were collected first followed by natural attenuation (NA) parameter samples.

Laboratory Analyses

Groundwater samples were analyzed for VOCs via USEPA Method SW8260B. The analytical work was performed by CH2M HILL's Applied Science Laboratory (ASL), Corvallis, Oregon. The analytical results were reported on a standard 21-day turnaround time. Data were validated per methods outlined in the October 1999 *Richards-Gebaur Air Force Base (AFB) Basewide RI/FS Work Plan* (CH2M HILL, 1999).

Select samples were analyzed for NA parameters. The NA parameters included chloride, nitrate, sulfate, alkalinity, ferrous iron, DO, ORP, methane, ethane, ethene, total organic carbon (TOC), ethanol, and chloroethanol. All the NA parameters, except ferrous iron, DO, and ORP, were analyzed by the same laboratory on a standard 21-day turnaround time. Ferrous iron was measured in the field using colorimetric HACH method 8146. DO and OPR readings were obtained using a Horiba-U22 using a flow-through cell.

Results - VOCs

The following paragraphs summarize the VOC analytical results from the April 2001 QGM on a site-by-site basis. Detections of VOCs in groundwater at the six sites are shown in Table 2. The April results are compared against corresponding Tier I Screening Levels established for the Basewide RI project. Compounds exceeding Tier I Screening Levels in groundwater are summarized in Table 3. The April 2001 QGM results are also compared with the data from the three previous groundwater monitoring events to evaluate the temporal trends of COC concentrations in groundwater.

Building 105 – Communications Facility

Twelve groundwater wells at Building 105 were sampled during the April 2001 QGM (see Table 1). The 12 wells were installed between February and April 2001 and were sampled for the first time in April. The April 2001 results indicated that VOCs exceeded their corresponding Tier I Screening Levels in five out of the 12 wells. The distribution of VOC exceedances at Building 105 is shown in Figure 1.

- *Trichloethene (TCE)*

TCE was detected at concentrations exceeding its Tier I Screening Level of 5 ppb in five wells: MW-001, MW-002, MW-003, MW-008, and MW-012. The TCE concentrations in these wells ranged from 16.4 ppb to 885 ppb, with the highest concentration occurring in MW-002, consistent with results from the 2001 RI Addendum. Well MW-009, which had a detected TCE concentration of 12 ppb during the March 2001 site investigation, did not exceed 5 ppb in April.

- *Vinyl Chloride*

Vinyl chloride exceeded its Tier I Screening Level of 2 ppb in one of the 12 wells: MW-001, which is located 10 feet northwest of the former UST location. This is consistent with the result from the February 2001 site investigation.

CS 004 – UST 620A

Sixteen groundwater wells at CS 004 were sampled as part of the April 2001 QGM (see Table 1). The April 2001 results indicate that VOCs exceeded their corresponding Tier I Screening Levels in two nested pairs of shallow/deep wells, MW-001(S)/MW-008(D) and MW-003(S)/MW-007(D), one shallow well, MW-016(S), and one deep well, MW-006(D). This is consistent with the results from the January 2001 QGM. The distribution of VOC exceedences at CS 004 is depicted in Figure 2, and the temporal trends of COCs in groundwater for select wells are presented in Figure 3.

- *TCE*

TCE exceeded its Tier I Screening Level of 5 ppb in one deep well: MW-006. The TCE concentration at this well was 9.6 ppb, slightly lower than the concentration measured in Janurary 2000.

- *Cis-1,2-dichloroethene (DCE)*

Cis-1,2-DCE was detected in one shallow well, MW-003(S), at a concentration above its corresponding Tier 1 Screening Level of 70 ppb. The concentration of cis-1,2-DCE at MW-003(S) was 222 ppb in April 2001, similar to the reported data from the previous QGMs.

Although detected in wells MW-007(D), MW-001(S), and MW-008(D) in October 2000, cis-1,2-DCE concentrations for these three wells have not exceeded 70 ppb again.

- *Vinyl chloride*

Vinyl chloride was found in four out of sixteen wells at the site at concentrations above its corresponding Screening Level of 2 ppb. The vinyl chloride concentrations in these wells are slightly lower than the previous QGM findings. Well MW-001, which had been found with vinyl chloride exceedances in the past, was free of vinyl chloride exceedance during this QGM.

SS 003 – Oil Saturated Area

Eight groundwater wells at SS 003 were sampled during the April 2001 QGM (see Table 1). The results indicated that TCE was the only VOC that was detected above Tier I Screening Levels. This result was consistent with the previous QGM results.

- *TCE*

TCE was detected at concentrations exceeding its Tier 1 Screening Level in four wells: MW-004, MW-006, MW-007, and MW-008 (see Figure 4). In general, TCE concentrations in MW-004, MW-006, and MW-008 were slightly lower than those measured in January 2001. On the other hand, TCE concentrations in well MW-007 were slightly higher than that reported in January 2001. Temporal trends of TCE in groundwater at SS 003 from June 2000 to April 2001 are presented in Figure 5.

- *Cis-1,2-DCE*

The chemical was detected, but at concentrations below its Tier 1 Screening Level of 70 ppb.

- *Vinyl chloride*

The chemical was detected, but at concentrations below its Tier 1 Screening Level of 2 ppb.

SS 006 – Hazardous Material Storage Area

Fourteen groundwater wells at SS 006 and one well from the adjacent site (AOC 001) were sampled in April 2001 (see Table 1). Three VOCs – TCE, cis-1,2-DCE, and vinyl chloride – were detected at concentrations above their corresponding Tier I Screening Levels. The locations of wells at SS 006 with VOC concentrations exceeding applicable Tier 1 Screening Levels are presented in Figure 6. Temporal trends of COC concentrations for select wells at SS 006 are presented in Figure 7.

- *TCE*

TCE was detected above its Tier I Screening Level in nine wells: MW-005, MW-010, MW-011, MW-012, MW-013, MW-014, MW-015, MW-018, and MW-020. It appears that concentrations of TCE in wells MW-011, MW-012, MW-013, MW-014, and MW-015 have increased slightly since January 2001, although the TCE concentration in MW-018, located at the south boundary of the site, has remained the same since October 2000. TCE concentrations at wells MW-005 and MW-010 were slightly lower than those measured in January 2001. MW-009, with a TCE concentration of 81 ppb in January 2001, was free of TCE exceedances in April 2001 QGM. Wells MW-019 and MW-020 were installed during the February 2001 additional site investigation and were sampled for the second time during the April 2001 QGM. The concentration of TCE at well MW-020 was 460 ppb; exceeding its corresponding Tier I Screening Level of 5 ppb.

- *Cis-1,2-DCE*

Cis-1,2-DCE was detected at concentrations exceeding its Tier1 Screening Level of 70 ppb in four wells: MW-010, MW-011, MW-012, and MW-020. The concentration of cis-1,2-DCE at MW-010 was 141 ppb, consistent with the previous QGM findings. Well MW-011, which was free of cis-1,2-DCE exceedances before, was detected with a cis-1,2-DCE concentration of 82.3 ppb during the April 2001 QGM. The concentration of cis-1,2-DCE at MW-012 was slightly lower than the reported level in January 2001. MW-020, a newly installed well, was detected with a cis-1,2-DCE concentration of 72.8 ppb, slightly above the corresponding screening level.

- *Vinyl chloride*

Vinyl chloride was detected in one well, MW-010, at a concentration above its Tier I Screening Level of 2 ppb. The concentration of vinyl chloride at MW-010 was 2.4 J ppb, lower than the reported concentration of 18 ppb in January 2001. A "J" qualifier indicates that the analyte was positively identified, but that the quantitation is an estimate. Vinyl chloride was not detected in MW-005 this QGM.

SS 009 – Fire Valve Area

Eight groundwater wells were sampled at SS 009 in April 2001 (see Table 1). The QGM results show that five VOCs were detected in well MW-003 and two VOCs in well MW-009 at concentrations exceeding Tier 1 Screening Levels (Figure 8), and that the remaining wells were free of COCs at concentrations above Tier 1 Screening Levels. Results from the April 2001 QGM show generally lower concentrations than those detected during the previous three QGMs. Temporal trends of COC concentrations in groundwater at SS 009 are presented in Figure 9.

- *TCE*

TCE was detected in one shallow well, MW-003, exceeding its Tier I Screening Level of 5 ppb. The TCE concentration in this well was 20.1 ppb, consistent with the January 2001 QGM finding.

- *Cis-1,2-DCE*

Cis-1,2-DCE was detected in one shallow well, MW-003, exceeding its Tier I Screening Level of 70 ppb. The concentration was 163 ppb, slightly higher than that measured in January 2001 QGM.

- *Vinyl chloride*

Vinyl chloride was detected in two shallow wells: MW-003 and MW-009, exceeding its Tier I Screening Level of 2 ppb. The concentration of vinyl chloride was 3.6 ppb, slightly lower than the January 2001 QGM finding. Well MW-009, which was not sampled during the last two QGMs, had a vinyl chloride concentration of 10.4 ppb, slightly higher than the concentration of 5.1 J ppb measured in October 1999.

- *1,1 – DCE*

Two shallow wells: MW-003 and MW-009, had 1,1-DCE detected at concentrations exceeding its Tier I Screening Level of 7 ppb. The 1,1-DCE concentration in MW-003 was 46 ppb, consistent with the January 2001 QGM finding. The 1,1-DCE concentration in MW-009 was 7.6 ppb, slightly above the corresponding screening level.

- *Tetrachloroethene (PCE)*

PCE was detected in one well, MW-003, at a concentration exceeding its Tier I Screening Level of 5 ppb. The PCE concentration in this well was 16.9 ppb, consistent with the January 2001 result.

ST 005 – POL Storage Area

Sixteen groundwater wells were sampled at ST 005 in April 2001 (see Table 1). As in the previous QGM events, TCE was the only VOC detected at concentrations exceeding applicable Tier 1 Screening Levels. TCE was found in nine of the 16 wells. The distribution of TCE at ST 005 is shown in Figure 10 and temporal trends of TCE concentrations in groundwater for select wells are presented in Figure 11. Note that cis-1,2-DCE was detected in several wells at the site, but at concentrations below its Tier 1 Screening Level of 70 ppb.

- *TCE*

Several differences in the results can be seen between the previous QGMs and the April 2001 QGM. First, TCE concentrations in the five wells at the center of the groundwater contaminated zone (MW-003(S), MW-010(D), MW-012(S), MW-013(D) and MW-018(S)) appear to have increased since January 2001. MW-013 (D), which was found to be free of TCE exceedance in January 2001, had a TCE concentration of 89.4 ppb. The TCE concentration at well MW-018(D) varied from 1,200 ppb in October 2000, to 420 ppb in January 2001, then to 854 ppb in April 2001. Secondly, the distribution of TCE at the three perimeter wells MW-020, MW-021, and MW-022 has changed since January 2001. The TCE concentration at well MW-020 has slightly decreased since January 2001. Wells MW-021(S) and MW-022(S), which were free of TCE exceedances during the January 2001 QGM, were found with TCE at concentrations slightly above the screening level of 5 ppb in April.

Results - NA Potential

Results of the NA indicator parameter analyses are summarized in Table 4. The results are consistent with the NA data collected during the Basewide RI and the October 2000 QGM. Most well locations exhibit relatively high DO and ORP readings, indicating an apparent aerobic environment. Methane, indicative of strong reducing conditions, is absent from more than 75 percent of the select well locations. Only two well locations, CS 004-MW012 and SS 009-MW009, display relatively high concentrations of methane (1570 ppb and 551 ppb, respectively), indicating strong anaerobic condition at these two locations. Underneath asphalt!

In general, subsurface conditions at the six sites are not at optimal values for anaerobic biodegradation (Wiedemeier et al., 1998). However, the presence of TCE degradation products such as cis-1,2-DCE and vinyl chloride at Building 105, CS 004, SS 006, and SS 009 indicates that some natural attenuation has likely occurred at these sites in the past.

Conclusions

Based on the findings from the April 2001 QGM and considering the previous QGM results, the following conclusions may be drawn regarding the occurrence and distribution of VOCs in groundwater at Richards-Gebaur AFB:

- **Building 105**

TCE is the primary COC at the site. The concentration of TCE in groundwater was consistent with the results obtained during sampling that took place as part of the February and April 2001 site investigation. The extent of groundwater contamination appears to be sufficiently delineated at the site.

- **CS 004**

The COCs at this site are TCE, cis-1,2-DCE, and vinyl chloride. The concentrations of COCs detected in April 2001 were generally lower than the previous QGM findings. The monitoring well network appears to adequately delineate VOCs in groundwater at the site.

- **SS 003**

TCE is the primary COC at the site. With slight variation, concentrations of TCE in groundwater in April 2001 were consistent over the past two years, indicating that groundwater contamination at the site is limited to the area west of Building 704. As in previous years, no significant levels of degradation byproducts of TCE were found at this site. The monitoring well network appears to adequately delineate VOCs in groundwater at the site.

- **SS 006**

The COCs at this site are TCE, cis-1,2-DCE, and vinyl chloride. In general, the concentrations of COCs appear fairly consistent over time. Four downgradient perimeter wells, MW-013, MW-014, MW-015, and MW-018 showed TCE concentrations above the 5 ppb screening level. MW-20, further downgradient from the above wells, exhibits the highest concentration of TCE at the site (i.e. 460 ppb).

- **SS 009**

The COCs at this site consist of TCE, cis-1,2-DCE, vinyl chloride, PCE, and 1,1-DCE. The April 2001 results were consistent with the results of the past three QGM events. The monitoring well network appears to adequately delineate VOCs in groundwater at the site.

- **ST 005**

TCE is the primary COC at this site, and has consistently been detected above its 5 ppb screening level in several onsite wells. The main area of contamination appears to lie northeast of former Facility 959. TCE concentrations within this area have varied over the past three QGMs. Three perimeter wells, MW-020, MW-021, and MW-022, showed TCE concentrations slightly above the 5 ppb screening level. In general, the monitoring well network appears to adequately delineate VOCs in groundwater at the site.

Recommendations

A review and comparison of results obtained by low-flow sampling versus previous conventional bailer sampling results shows little significant difference. Furthermore, based on the field observations during the April 2001 QGM, it appears that low-flow purging and sampling technique may not be practical for sites with extremely slow recharge rates, such as SS 006, SS 009, and ST 005. In some cases, a well may recharge so slowly that it may be impossible to collect a groundwater sample that is representative of formation groundwater with respect to key

geochemical parameters. In such instances, it is recommended either sampling the stagnant water from within the screened interval (this is the so-called "no-purge" method) or slowly purging the well dry and collect the samples as soon as the volume needed for sampling has recharged.

In either case, it is recommended that standard bailer techniques be used for future groundwater sampling, consistent with the 1999 and 2000 RI investigation.

Table 1: Quarterly Groundwater Monitoring Wells at Richards-Gebaur AFB

CS 004 (UST 620 A)	SS 003 (Oil Saturated Area)	SS 006 (Hazardous Material Storage Area)	SS 009 (Fire Valve Area)	ST 005 (POL Storage Yard)	Building 105
MW-001(S) / MW-008(D)	MW-001	MW-005	MW-002(S)	MW-003 (S) / MW-010(D)	MW-001
MW-002(S)	MW-003	MW-008	MW-003(S)	MW-011(D) / MW-012(S)	MW-002
MW-003(S) / MW-007(D)	MW-004	MW-009	MW-005(S)	MW-013(D) / MW-014(S)	MW-003
MW-004 (D)	MW-005	MW-010	MW-006(D)	MW-015(D) / MW-016(S)	MW-004
MW-005(S)	MW-006	MW-011	MW-008(D)	MW-017(D) / MW-018(S)	MW-005
MW-006(D)	MW-007	MW-012	MW-009(S)	MW-019 (S)	MW-006
MW-009(S) / MW-010(D)	MW-008	MW-013	MW-010(D)	MW-020 (S)	MW-007
MW-011 (D)	MW-002 (CS 002)	MW-014	MW-011(S)	MW-021 (S)	MW-008
MW-012(S)		MW-015		MW-022 (S)	MW-009
MW-013(S)		MW-016		MW-023 (S)	MW-010
MW-014(S)		MW-017		MW-1207 (S)	MW-011
MW-015(D)		MW-018			MW-012
MW-016(S)		MW-019			
		MW-020			
		MW-001 (AOC 001)			
NA Parameters					
MW-001(S)	MW-002R(CS 002)	MW-001 (AOC 001)	MW-002(S)	MW-003(S)	MW-001
MW-003(S)	MW-003	MW-005	MW-003(S)	MW-018(S)	MW-002
MW-005(S)	MW-004	MW-008	MW-005(S)	NW-020(S)	MW-005
MW-012(S)	MW-006	MW-010	MW-009(S)	MW-022(S)	MW-008
		MW-011			MW-011
		MW-012			MW-012

Table 2: Compounds Detected in Groundwater, April 2001 Quarterly Monitoring Event

Grouped by Operable Unit, Site, and Location, sorted by Field ID and Analyte

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
AOC-001									
	AC01-MW01								
		AOC001-MW001	4/16/01	N	E310 1	Alkalinity	244.00		mg/L as CaCO3
			4/16/01	N	SW9056	Chloride	11 40		mg/L
			4/16/01	N	SW8260B	Chloromethane	0 34	F	ug/L
			4/16/01	N	SW8260B	Cis-1,2-DCE	0 08	F	ug/L
			4/16/01	N	RSK-175	Methane	2 13		ug/L
			4/16/01	N	SW9056	Sulfate	36 00		mg/L
			4/16/01	N	SW8260B	TCE	0 27	F	ug/L
			4/16/01	N	SW8260B	Tetrachloroethene	0 12	F	ug/L
			4/16/01	N	SW8260B	Toluene	0 05	F	ug/L
			4/16/01	N	E415 1	Total Organic Carbon	2 30		mg/L
BLDG-105									
	BLDG105-MW001								
		BLDG105-MW001	4/24/01	N	SW8260B	1,1-DCA	0 29	F	ug/L
			4/24/01	N	SW8260B	1,1-DCE	0 13	F	ug/L
			4/24/01	N	SW8260B	1,2-DCB	2 00		ug/L
			4/24/01	N	SW8260B	1,4-DCB	0 55		ug/L
			4/24/01	N	E310 1	Alkalinity	310 00		mg/L as CaCO3
			4/24/01	N	SW8260B	Benzene	0 12	F	ug/L
			4/24/01	N	SW9056	Chloride	163 00		mg/L
			4/24/01	N	SW8260B	Chlorobenzene	2 70		ug/L
			4/24/01	N	SW8260B	Cis-1,2-DCE	14 60		ug/L
			4/24/01	N	RSK-175	Ethane	0 65	F	ug/L
			4/24/01	N	RSK-175	Methane	8 21		ug/L
			4/24/01	N	SW9056	Nitrate	0 62		mg/L
			4/24/01	N	SW9056	Sulfate	56 80		mg/L
			4/24/01	N	SW8260B	TCE	262 00		ug/L
			4/24/01	N	SW8260B	Tetrachloroethene	1.30	F	ug/L
			4/24/01	N	E415.1	Total Organic Carbon	1 70		mg/L
			4/24/01	N	SW8260B	Trans-1,2-DCE	0 41	F	ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
BLDG-105									
		BLDG105-MW001	4/24/01	N	SW8260B	Vinyl chloride	6.60		ug/L
	BLDG105-MW002								
		BLDG105-FDMW002	4/24/01	N	E310 1	Alkalinity	302 00		mg/L as CaCO3
			4/24/01	N	SW9056	Chloride	62 90		mg/L
			4/24/01	FD	RSK-175	Ethene	0 29	F	ug/L
			4/24/01	FD	SW9056	Nitrate	1 94		mg/L
			4/24/01	N	SW9056	Sulfate	78 00		mg/L
			4/24/01	FD	E415 1	Total Organic Carbon	2 00		mg/L
		BLDG105-MW002	4/24/01	N	E310 1	Alkalinity	302 00		mg/L as CaCO3
			4/24/01	N	SW8260B	Benzene	0 12	F	ug/L
			4/24/01	N	SW9056	Chloride	63 70		mg/L
			4/24/01	N	SW8260B	Chlorobenzene	0 11	F	ug/L
			4/24/01	N	SW8260B	Chloroform	0 29	F	ug/L
			4/24/01	N	SW8260B	Cis-1,2-DCE	20 00		ug/L
			4/24/01	N	SW9056	Nitrate	1 67		mg/L
			4/24/01	N	SW9056	Sulfate	74 30		mg/L
			4/24/01	N	SW8260B	TCE	885 00		ug/L
			4/24/01	N	SW8260B	Tetrachloroethene	0 17	F	ug/L
			4/24/01	N	E415.1	Total Organic Carbon	1 70		mg/L
			4/24/01	N	SW8260B	Trans-1,2-DCE	0 42	F	ug/L
	BLDG105-MW003								
		BLDG105-FDMW003	4/24/01	FD	SW8260B	Cis-1,2-DCE	1 80		ug/L
			4/24/01	FD	SW8260B	TCE	16 50		ug/L
		BLDG105-MW003	4/24/01	N	SW8260B	Cis-1,2-DCE	1 80		ug/L
			4/24/01	N	SW8260B	TCE	16 40		ug/L
	BLDG105-MW004								
		BLDG105-MW004	4/24/01	N	SW8260B	Toluene	0.51	F	ug/L
	BLDG105-MW005								
		BLDG105-MW005	4/24/01	N	E310 1	Alkalinity	270 00		mg/L as CaCO3
			4/24/01	N	SW9056	Chloride	61 90		mg/L
			4/24/01	N	SW9056	Nitrate	0 68		mg/L
			4/24/01	N	SW9056	Sulfate	40 10		mg/L
			4/24/01	N	E415 1	Total Organic Carbon	1 80		mg/L
	BLDG105-MW006								

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
BLDG-105									
		BLDG105-MW006	4/24/01	N	SW8260B	TCE	0 17	F	ug/L
	BLDG105-MW007								
		BLDG105-MW007	4/24/01	N	SW8260B	TCE	1 20		ug/L
	BLDG105-MW008								
		BLDG105-MW008	4/24/01	N	E310 1	Alkalinity	190 00		mg/L as CaCO3
			4/24/01	N	SW9056	Chloride	26 70		mg/L
			4/24/01	N	SW8260B	Cis-1,2-DCE	1 40		ug/L
			4/24/01	N	SW9056	Nitrate	0 28		mg/L
			4/24/01	N	SW9056	Sulfate	21 80		mg/L
			4/24/01	N	SW8260B	TCE	97.70		ug/L
			4/24/01	N	E415 1	Total Organic Carbon	1 00		mg/L
	BLDG105-MW009								
		BLDG105-MW009	4/25/01	N	SW8260B	Benzene	0 07	F	ug/L
			4/25/01	N	SW8260B	TCE	2 20		ug/L
			4/25/01	N	SW8260B	Toluene	0 06	F	ug/L
	BLDG105-MW010								
		BLDG105-MW010	4/24/01	N	SW8260B	Benzene	0 29	F	ug/L
			4/24/01	N	SW8260B	Toluene	0 24	F	ug/L
	BLDG105-MW011								
		BLDG105-MW011	4/19/01	N	E310 1	Alkalinity	205 00		mg/L as CaCO3
			4/19/01	N	SW8260B	Benzene	0 14	F	ug/L
			4/19/01	N	SW9056	Chloride	8.38		mg/L
			4/19/01	N	SW8260B	Ethylbenzene	0 04	F	ug/L
			4/19/01	N	RSK-175	Methane	0 20	F	ug/L
			4/19/01	N	SW9056	Nitrate	0 08	F	mg/L
			4/19/01	N	SW9056	Sulfate	21 60		mg/L
			4/19/01	N	SW8260B	TCE	0 25	F	ug/L
			4/19/01	N	SW8260B	Toluene	0 15	F	ug/L
			4/19/01	N	E415 1	Total Organic Carbon	6 20		mg/L
	BLDG105-MW012								
		BLDG105-MW012	4/24/01	N	SW8260B	1,1-DCE	0 21	F	ug/L
			4/24/01	N	E310 1	Alkalinity	256 00		mg/L as CaCO3
			4/24/01	N	SW9056	Chloride	125 00		mg/L
			4/24/01	N	SW8260B	Cis-1,2-DCE	13 70		ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
BLDG-105									
		BLDG105-MW012	4/24/01	N	SW9056	Nitrate	0 21		mg/L
			4/24/01	N	SW9056	Sulfate	45 20		mg/L
			4/24/01	N	SW8260B	TCE	125 00		ug/L
			4/24/01	N	E415 1	Total Organic Carbon	1 70		mg/L
			4/24/01	N	SW8260B	Trans-1,2-DCE	0 17	F	ug/L
CS-002									
	CS02-MW02R								
		CS002-MW002R	4/16/01	N	E310 1	Alkalinity	218.00		mg/L as CaCO3
			4/16/01	N	SW9056	Chloride	98 20		mg/L
			4/16/01	N	SW8260B	Chloromethane	0 40	F	ug/L
			4/16/01	N	SW8260B	Cis-1,2-DCE	0.48	F	ug/L
			4/16/01	N	SW9056	Nitrate	1 21		mg/L
			4/16/01	N	SW9056	Sulfate	80 40		mg/L
			4/16/01	N	SW8260B	TCE	3 50		ug/L
			4/16/01	N	SW8260B	Tetrachloroethene	0 16	F	ug/L
			4/16/01	N	SW8260B	Toluene	0.06	F	ug/L
			4/16/01	N	E415 1	Total Organic Carbon	2 00		mg/L
CS-004									
	CS04-MW01								
		CS004-FDMW001	4/23/01	FD	E310 1	Alkalinity	448.00		mg/L as CaCO3
			4/23/01	FD	SW9056	Chloride	124 00		mg/L
			4/23/01	FD	RSK-175	Methane	27.90	J	ug/L
			4/23/01	FD	SW9056	Nitrate	0 09	F	mg/L
			4/23/01	FD	SW9056	Sulfate	16 80		mg/L
			4/23/01	FD	E415.1	Total Organic Carbon	3 80		mg/L
		CS004-MW001	4/23/01	N	E310 1	Alkalinity	452 00		mg/L as CaCO3
			4/23/01	N	SW8260B	Benzene	0.32	F	ug/L
			4/23/01	N	SW9056	Chloride	125 00		mg/L
			4/23/01	N	SW8260B	Cis-1,2-DCE	39 00		ug/L
			4/23/01	N	RSK-175	Methane	7 45	J	ug/L
			4/23/01	N	SW8260B	Methyl tert-Butyl Ether	0 24	F	ug/L
			4/23/01	N	SW9056	Nitrate	0 11		mg/L
			4/23/01	N	SW9056	Sulfate	16 80		mg/L
			4/23/01	N	SW8260B	TCE	0 20	F	ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
CS-004									
		CS004-MW001	4/23/01	N	E415 1	Total Organic Carbon	3 70		mg/L
			4/23/01	N	SW8260B	Trans-1,2-DCE	0 55	F	ug/L
			4/23/01	N	SW8260B	Vinyl chloride	0 84	F	ug/L
	CS04-MW02								
		CS004-MW002	4/23/01	N	SW8260B	Cis-1,2-DCE	0 59	F	ug/L
			4/23/01	N	SW8260B	TCE	0 33	F	ug/L
			4/23/01	N	SW8260B	Tetrachloroethene	0 09	F	ug/L
			4/23/01	N	SW8260B	Toluene	0 04	F	ug/L
	CS04-MW03								
		CS004-MW003	4/23/01	N	E310 1	Alkalinity	376 00		mg/L as CaCO3
			4/23/01	N	SW9056	Chloride	23 30		mg/L
			4/23/01	N	SW8260B	Cis-1,2-DCE	222 00		ug/L
			4/23/01	N	RSK-175	Methane	1 13		ug/L
			4/23/01	N	SW9056	Nitrate	0 06	F	mg/L
			4/23/01	N	SW9056	Sulfate	35 80		mg/L
			4/23/01	N	SW8260B	TCE	1 90		ug/L
			4/23/01	N	E415 1	Total Organic Carbon	2 20		mg/L
			4/23/01	N	SW8260B	Trans-1,2-DCE	16 10		ug/L
			4/23/01	N	SW8260B	Vinyl chloride	2 50		ug/L
	CS04-MW05								
		CS004-MW005	4/23/01	N	E310 1	Alkalinity	368 00		mg/L as CaCO3
			4/23/01	N	SW9056	Chloride	9 25		mg/L
			4/23/01	N	RSK-175	Methane	0 90		ug/L
			4/23/01	N	SW9056	Nitrate	1 05		mg/L
			4/23/01	N	SW9056	Sulfate	38 20		mg/L
			4/23/01	N	E415.1	Total Organic Carbon	0.93	F	mg/L
	CS04-MW06								
		CS004-MW006	4/23/01	N	SW8260B	1,1-DCE	0 07	F	ug/L
			4/23/01	N	SW8260B	Cis-1,2-DCE	5 00		ug/L
			4/23/01	N	SW8260B	TCE	9 60		ug/L
			4/23/01	N	SW8260B	Tetrachloroethene	0 06	F	ug/L
			4/23/01	N	SW8260B	Trans-1,2-DCE	0 17	F	ug/L
	CS04-MW07								
		CS004-FDMW007	4/20/01	FD	SW8260B	Benzene	0 07	F	ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
CS-004									
		CS004-FDMW007	4/20/01	FD	SW8260B	Cis-1,2-DCE	39 10		ug/L
			4/20/01	FD	SW8260B	TCE	4 40		ug/L
			4/20/01	FD	SW8260B	Trans-1,2-DCE	3 90		ug/L
			4/20/01	FD	SW8260B	Vinyl chloride	3 50		ug/L
		CS004-MW007	4/20/01	N	SW8260B	Benzene	0 07	F	ug/L
			4/20/01	N	SW8260B	Cis-1,2-DCE	38 50		ug/L
			4/20/01	N	SW8260B	TCE	4 40		ug/L
			4/20/01	N	SW8260B	Trans-1,2-DCE	3 90		ug/L
			4/20/01	N	SW8260B	Vinyl chloride	3 30		ug/L
	CS04-MW08								
		CS004-MW008	4/23/01	N	SW8260B	Benzene	0 11	F	ug/L
			4/23/01	N	SW8260B	Cis-1,2-DCE	60 00		ug/L
			4/23/01	N	SW8260B	TCE	0 15	F	ug/L
			4/23/01	N	SW8260B	Trans-1,2-DCE	2 80		ug/L
			4/23/01	N	SW8260B	Vinyl chloride	5 40		ug/L
	CS04-MW09								
		CS004-MW009	4/20/01	N	SW8260B	Cis-1,2-DCE	4 80		ug/L
			4/20/01	N	SW8260B	TCE	0 78	F	ug/L
			4/20/01	N	SW8260B	Trans-1,2-DCE	0 48	F	ug/L
			4/20/01	N	SW8260B	Vinyl chloride	0 64	F	ug/L
	CS04-MW10								
		CS004-MW010	4/20/01	N	SW8260B	Cis-1,2-DCE	1 00	F	ug/L
			4/20/01	N	SW8260B	TCE	0 17	F	ug/L
			4/20/01	N	SW8260B	Trans-1,2-DCE	0 10	F	ug/L
	CS04-MW11								
		CS004-MW011	4/20/01	N	SW8260B	Benzene	0 18	F	ug/L
			4/20/01	N	SW8260B	Cis-1,2-DCE	0 37	F	ug/L
			4/20/01	N	SW8260B	Methyl tert-Butyl Ether	0 06	F	ug/L
	CS04-MW12								
		CS004-MW012	4/23/01	N	E310 1	Alkalinity	498 00		mg/L as CaCO3
			4/23/01	N	SW8260B	Benzene	0 06	F	ug/L
			4/23/01	N	SW9056	Chloride	192 00		mg/L
			4/23/01	N	SW8260B	Cis-1,2-DCE	0 59	F	ug/L
			4/23/01	N	RSK-175	Ethane	0 94		ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
CS-004									
		CS004-MW012	4/23/01	N	RSK-175	Methane	1570 00		ug/L
			4/23/01	N	SW8260B	Methyl tert-Butyl Ether	0 06	F	ug/L
			4/23/01	N	SW9056	Nitrate	0.13		mg/L
			4/23/01	N	SW9056	Sulfate	1 54		mg/L
			4/23/01	N	SW8260B	Tetrachloroethene	0 09	F	ug/L
			4/23/01	N	SW8260B	Toluene	0 04	F	ug/L
			4/23/01	N	E415 1	Total Organic Carbon	8 90		mg/L
			4/23/01	N	SW8260B	Trans-1,2-DCE	0 09	F	ug/L
			4/23/01	N	SW8260B	Vinyl chloride	0 40	F	ug/L
	CS04-MW14								
		CS004-MW014	4/20/01	N	SW8260B	Benzene	0 31	F	ug/L
	CS04-MW15								
		CS004-MW015	4/23/01	N	SW8260B	Benzene	0 07	F	ug/L
			4/23/01	N	SW8260B	Cis-1,2-DCE	0 11	F	ug/L
			4/23/01	N	SW8260B	Methyl tert-Butyl Ether	0 19	F	ug/L
	CS04-MW16								
		CS004-MW016	4/23/01	N	SW8260B	Benzene	1 20		ug/L
			4/23/01	N	SW8260B	Cis-1,2-DCE	10 90		ug/L
			4/23/01	N	SW8260B	Methyl tert-Butyl Ether	0 28	F	ug/L
			4/23/01	N	SW8260B	Toluene	0 03	F	ug/L
			4/23/01	N	SW8260B	Trans-1,2-DCE	3 60		ug/L
			4/23/01	N	SW8260B	Vinyl chloride	6 50		ug/L
SS-003									
	SS03-MW04								
		SS003-MW004	4/16/01	N	SW8260B	1,1-DCE	0 07	F	ug/L
			4/16/01	N	SW8260B	4-Chlorotoluene	0 03	F	ug/L
			4/16/01	N	E310 1	Alkalinity	306 00		mg/L as CaCO3
			4/16/01	N	SW8260B	Benzene	0 06	F	ug/L
			4/16/01	N	SW9056	Chloride	43 40		mg/L
			4/16/01	N	SW8260B	Chloroform	0 14	F	ug/L
			4/16/01	N	SW8260B	Cis-1,2-DCE	6 10		ug/L
			4/16/01	N	SW8260B	m,p-Xylene	0 05	F	ug/L
			4/16/01	N	SW8260B	n-Propylbenzene	0 03	F	ug/L
			4/16/01	N	SW9056	Nitrate	2.20		mg/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
SS-003									
		SS003-MW004	4/16/01	N	SW8260B	sec-Butylbenzene	0 03	F	ug/L
			4/16/01	N	SW9056	Sulfate	29 90		mg/L
			4/16/01	N	SW8260B	TCE	50 00		ug/L
			4/16/01	N	SW8260B	Tetrachloroethene	0 04	F	ug/L
			4/16/01	N	SW8260B	Toluene	0 07	F	ug/L
			4/16/01	N	E415 1	Total Organic Carbon	0 88	F	mg/L
			4/16/01	N	SW8260B	Trans-1,2-DCE	0 31	F	ug/L
	SS03-MW05								
		SS003-MW005	4/17/01	N	SW8260B	Benzene	0 07	F	ug/L
			4/17/01	N	SW8260B	Toluene	0 03	F	ug/L
	SS03-MW06								
		SS003-FDMW006	4/17/01	FD	E310 1	Alkalinity	253 00		mg/L as CaCO3
			4/17/01	FD	SW9056	Chloride	109 00		mg/L
			4/17/01	FD	SW9056	Nitrate	0 19		mg/L
			4/17/01	FD	SW9056	Sulfate	44 60		mg/L
			4/17/01	FD	E415 1	Total Organic Carbon	2 20		mg/L
		SS003-MW006	4/17/01	N	E310 1	Alkalinity	255 00		mg/L as CaCO3
			4/17/01	N	SW8260B	Benzene	0 04	F	ug/L
			4/17/01	N	SW8260B	Carbon tetrachloride	0 20	F	ug/L
			4/17/01	N	SW9056	Chloride	111 00		mg/L
			4/17/01	N	SW8260B	Chlorobenzene	0 07	F	ug/L
			4/17/01	N	SW8260B	Chloroform	2.50		ug/L
			4/17/01	N	SW8260B	Cis-1,2-DCE	7.80		ug/L
			4/17/01	N	SW9056	Nitrate	0 20		mg/L
			4/17/01	N	SW9056	Sulfate	44 70		mg/L
			4/17/01	N	SW8260B	TCE	8.90		ug/L
			4/17/01	N	E415 1	Total Organic Carbon	2.30		mg/L
	SS03-MW07								
		SS003-FDMW007	4/17/01	FD	SW8260B	1,1-DCE	0.18	F	ug/L
			4/17/01	FD	SW8260B	Benzene	0 07	F	ug/L
			4/17/01	FD	SW8260B	Chlorobenzene	0 04	F	ug/L
			4/17/01	FD	SW8260B	Cis-1,2-DCE	20 60		ug/L
			4/17/01	FD	SW8260B	Methyl tert-Butyl Ether	0 68	F	ug/L
			4/17/01	FD	SW8260B	TCE	25.80		ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
SS-003									
		SS003-FDMW007	4/17/01	FD	SW8260B	Trans-1,2-DCE	0 24	F	ug/L
			4/17/01	FD	SW8260B	Vinyl chloride	0 35	F	ug/L
		SS003-MW007	4/17/01	N	SW8260B	1,1-DCE	0 16	F	ug/L
			4/17/01	N	SW8260B	Benzene	0 07	F	ug/L
			4/17/01	N	SW8260B	Cis-1,2-DCE	20.50		ug/L
			4/17/01	N	SW8260B	Methyl tert-Butyl Ether	0 67	F	ug/L
			4/17/01	N	SW8260B	TCE	26 30		ug/L
			4/17/01	N	SW8260B	Trans-1,2-DCE	0 22	F	ug/L
	SS03-MW08								
		SS003-MW008	4/18/01	N	SW8260B	Cis-1,2-DCE	0 93	F	ug/L
			4/18/01	N	SW8260B	TCE	9 40		ug/L
	SS03-MW1								
		SS003-MW001	4/17/01	N	SW8260B	1,2,4-Trimethylbenzene	0 02	F	ug/L
			4/17/01	N	SW8260B	Benzene	0 22	F	ug/L
			4/17/01	N	SW8260B	Cis-1,2-DCE	2 20		ug/L
			4/17/01	N	SW8260B	n-Butylbenzene	0 05	F	ug/L
			4/17/01	N	SW8260B	n-Propylbenzene	0 03	F	ug/L
			4/17/01	N	SW8260B	Naphthalene	0.14	F	ug/L
			4/17/01	N	SW8260B	sec-Butylbenzene	0 11	F	ug/L
			4/17/01	N	SW8260B	TCE	0 29	F	ug/L
			4/17/01	N	SW8260B	tert-Butylbenzene	0.16	F	ug/L
			4/17/01	N	SW8260B	Toluene	0 04	F	ug/L
	SS03-MW3								
		SS003-MW003	4/17/01	N	E310.1	Alkalinity	328 00		mg/L as CaCO3
			4/17/01	N	SW9056	Chloride	15 90		mg/L
			4/17/01	N	SW8260B	Cis-1,2-DCE	0 65	F	ug/L
			4/17/01	N	SW9056	Nitrate	0 09	F	mg/L
			4/17/01	N	SW9056	Sulfate	72 10		mg/L
			4/17/01	N	SW8260B	TCE	1 20		ug/L
			4/17/01	N	SW8260B	Tetrachloroethene	0 17	F	ug/L
			4/17/01	N	E415 1	Total Organic Carbon	6 50		mg/L
SS-006									
	SS06-MW05								
		SS006-MW005	4/16/01	N	SW8260B	1,1-DCA	0 10	F	ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
SS-006									
		SS006-MW005	4/16/01	N	SW8260B	1,1-DCE	0 12	F	ug/L
			4/16/01	N	SW8260B	1,2-DCB	0 09	F	ug/L
			4/16/01	N	E310 1	Alkalinity	310 00		mg/L as CaCO3
			4/16/01	N	SW8260B	Benzene	0 06	F	ug/L
			4/16/01	N	SW8260B	Carbon tetrachloride	0.07	F	ug/L
			4/16/01	N	SW9056	Chloride	147 00		mg/L
			4/16/01	N	SW8260B	Chlorobenzene	0 77		ug/L
			4/16/01	N	SW8260B	Chloroform	0 09	F	ug/L
			4/16/01	N	SW8260B	Cis-1,2-DCE	22 50		ug/L
			4/16/01	N	SW9056	Nitrate	0 87		mg/L
			4/16/01	N	SW9056	Sulfate	92 90		mg/L
			4/16/01	N	SW8260B	TCE	398 00		ug/L
			4/16/01	N	SW8260B	Tetrachloroethene	0 06	F	ug/L
			4/16/01	N	SW8260B	Toluene	0 05	F	ug/L
			4/16/01	N	E415 1	Total Organic Carbon	1 40		mg/L
			4/16/01	N	SW8260B	Trans-1,2-DCE	1 10		ug/L
	SS06-MW08								
		SS006-MW008	4/16/01	N	E310 1	Alkalinity	324.00		mg/L as CaCO3
			4/16/01	N	SW9056	Chloride	53 10		mg/L
			4/16/01	N	SW8260B	Chloromethane	0 43	F	ug/L
			4/16/01	N	SW8260B	Cis-1,2-DCE	0 06	F	ug/L
			4/16/01	N	RSK-175	Methane	0.36	F	ug/L
			4/16/01	N	SW9056	Nitrate	0 24		mg/L
			4/16/01	N	SW9056	Sulfate	239.00		mg/L
			4/16/01	N	SW8260B	TCE	0 39	F	ug/L
			4/16/01	N	SW8260B	Tetrachloroethene	0.13	F	ug/L
			4/16/01	N	SW8260B	Toluene	0 05	F	ug/L
			4/16/01	N	E415 1	Total Organic Carbon	1 90		mg/L
	SS06-MW09								
		SS006-FDMW009	4/19/01	FD	SW8260B	Benzene	0.13	F	ug/L
			4/19/01	FD	SW8260B	Cis-1,2-DCE	1 40		ug/L
			4/19/01	FD	SW8260B	TCE	3 30		ug/L
		SS006-MW009	4/19/01	N	SW8260B	Benzene	0 12	F	ug/L
			4/19/01	N	SW8260B	Cis-1,2-DCE	1 40		ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
SS-006									
		SS006-MW009	4/19/01	N	SW8260B	TCE	3 20		ug/L
			4/19/01	N	SW8260B	Vinyl chloride	0 37	F	ug/L
	SS06-MW10								
		SS006-FDMW010	4/16/01	FD	SW8260B	1,1-DCA	0 79		ug/L
			4/16/01	FD	SW8260B	1,1-DCE	0 57	F	ug/L
			4/16/01	FD	SW8260B	1,2-DCB	0 14	F	ug/L
			4/16/01	FD	SW8260B	1,3-DCB	0 07	F	ug/L
			4/16/01	FD	SW8260B	1,4-DCB	0 07	F	ug/L
			4/16/01	FD	SW8260B	Benzene	0 09	F	ug/L
			4/16/01	FD	SW8260B	Chlorobenzene	0 14	F	ug/L
			4/16/01	FD	SW8260B	Chloroform	0 04	F	ug/L
			4/16/01	FD	SW8260B	Cis-1,2-DCE	147 00		ug/L
			4/16/01	FD	SW8260B	TCE	237 00		ug/L
			4/16/01	FD	SW8260B	Tetrachloroethene	0 07	F	ug/L
			4/16/01	FD	SW8260B	Toluene	0 03	F	ug/L
			4/16/01	FD	SW8260B	Trans-1,2-DCE	9.80		ug/L
			4/16/01	FD	SW8260B	Vinyl chloride	1 90	J	ug/L
		SS006-MW010	4/16/01	N	SW8260B	1,1-DCA	0 75		ug/L
			4/16/01	N	SW8260B	1,1-DCE	0 50	F	ug/L
			4/16/01	N	SW8260B	1,2-DCB	0 14	F	ug/L
			4/16/01	N	SW8260B	1,3-DCB	0 06	F	ug/L
			4/16/01	N	E310 1	Alkalinity	282 00		mg/L as CaCO3
			4/16/01	N	SW8260B	Benzene	0 12	F	ug/L
			4/16/01	N	SW9056	Chloride	107 00		mg/L
			4/16/01	N	SW8260B	Chlorobenzene	0 15	F	ug/L
			4/16/01	N	SW8260B	Chloroform	0 04	F	ug/L
			4/16/01	N	SW8260B	Cis-1,2-DCE	141 00		ug/L
			4/16/01	N	SW9056	Nitrate	0 34		mg/L
			4/16/01	N	SW9056	Sulfate	81 10		mg/L
			4/16/01	N	SW8260B	TCE	226 00		ug/L
			4/16/01	N	SW8260B	Tetrachloroethene	0 15	F	ug/L
			4/16/01	N	SW8260B	Toluene	0 06	F	ug/L
			4/16/01	N	E415 1	Total Organic Carbon	1.70		mg/L
			4/16/01	N	SW8260B	Trans-1,2-DCE	9 20		ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
SS-006									
		SS006-MW010	4/16/01	N	SW8260B	Vinyl chloride	2 40	J	ug/L
	SS06-MW11								
		SS006-MW011	4/17/01	N	SW8260B	1,1-DCE	0 25	F	ug/L
			4/17/01	N	E310 1	Alkalinity	264 00		mg/L as CaCO3
			4/17/01	N	SW9056	Chloride	152 00		mg/L
			4/17/01	N	SW8260B	Chlorobenzene	0 06	F	ug/L
			4/17/01	N	SW8260B	Chloroform	0 06	F	ug/L
			4/17/01	N	SW8260B	Cis-1,2-DCE	82 30		ug/L
			4/17/01	N	SW9056	Nitrate	1.32		mg/L
			4/17/01	N	SW9056	Sulfate	101 00		mg/L
			4/17/01	N	SW8260B	TCE	188 00		ug/L
			4/17/01	N	E415.1	Total Organic Carbon	1 50		mg/L
			4/17/01	N	SW8260B	Trans-1,2-DCE	7 30		ug/L
	SS06-MW12								
		SS006-MW012	4/17/01	N	SW8260B	1,1,2-TCA	0 12	F	ug/L
			4/17/01	N	SW8260B	1,1-DCE	0 47	F	ug/L
			4/17/01	N	SW8260B	1,2-DCB	0 09	F	ug/L
			4/17/01	N	SW8260B	1,3-DCB	0 07	F	ug/L
			4/17/01	N	SW8260B	1,4-DCB	0 16	F	ug/L
			4/17/01	N	E310 1	Alkalinity	300 00		mg/L as CaCO3
			4/17/01	N	SW8260B	Benzene	0 08	F	ug/L
			4/17/01	N	SW9056	Chloride	174 00		mg/L
			4/17/01	N	SW8260B	Chlorobenzene	0 10	F	ug/L
			4/17/01	N	SW8260B	Chloroform	0 08	F	ug/L
			4/17/01	N	SW8260B	Cis-1,2-DCE	78 30		ug/L
			4/17/01	N	RSK-175	Methane	0 14	F	ug/L
			4/17/01	N	SW9056	Nitrate	1 98		mg/L
			4/17/01	N	SW9056	Sulfate	72 40		mg/L
			4/17/01	N	SW8260B	TCE	112 00		ug/L
			4/17/01	N	E415 1	Total Organic Carbon	1 50		mg/L
			4/17/01	N	SW8260B	Trans-1,2-DCE	9 90		ug/L
			4/17/01	N	SW8260B	Vinyl chloride	0 22	F	ug/L
	SS06-MW13								
		SS006-MW013	4/18/01	N	SW8260B	Benzene	0 08	F	ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
SS-006									
		SS006-MW013	4/18/01	N	SW8260B	Chloroform	0 05	F	ug/L
			4/18/01	N	SW8260B	Cis-1,2-DCE	7 40		ug/L
			4/18/01	N	SW8260B	TCE	14 20		ug/L
	SS06-MW14								
		SS006-MW014	4/18/01	N	SW8260B	Chloroform	0 04	F	ug/L
			4/18/01	N	SW8260B	Cis-1,2-DCE	4 00		ug/L
			4/18/01	N	SW8260B	TCE	52 80		ug/L
			4/18/01	N	SW8260B	Toluene	0 03	F	ug/L
			4/18/01	N	SW8260B	Trans-1,2-DCE	0 12	F	ug/L
	SS06-MW15								
		SS006-MW015	4/19/01	N	SW8260B	1,1-DCE	0 10	F	ug/L
			4/19/01	N	SW8260B	Benzene	0 08	F	ug/L
			4/19/01	N	SW8260B	Chloroform	0 13	F	ug/L
			4/19/01	N	SW8260B	Cis-1,2-DCE	3 20		ug/L
			4/19/01	N	SW8260B	TCE	155 00		ug/L
			4/19/01	N	SW8260B	Trans-1,2-DCE	0 11	F	ug/L
	SS06-MW16								
		SS006-MW016	4/19/01	N	SW8260B	TCE	0 12	F	ug/L
	SS06-MW17								
		SS006-MW017	4/19/01	N	SW8260B	Benzene	0,08	F	ug/L
			4/19/01	N	SW8260B	Chloroform	0 07	F	ug/L
			4/19/01	N	SW8260B	Chloromethane	0 52	F	ug/L
			4/19/01	N	SW8260B	Tetrachloroethene	0.11	F	ug/L
			4/19/01	N	SW8260B	Toluene	0 04	F	ug/L
	SS06-MW18								
		SS006-MW018	4/17/01	N	SW8260B	Chloroform	0 06	F	ug/L
			4/17/01	N	SW8260B	Cis-1,2-DCE	29 40		ug/L
			4/17/01	N	SW8260B	TCE	15 60		ug/L
			4/17/01	N	SW8260B	Trans-1,2-DCE	0 25	F	ug/L
	SS06-MW19								
		SS006-MW019	4/19/01	N	SW8260B	Benzene	0 93		ug/L
			4/19/01	N	SW8260B	Chloroform	0 10	F	ug/L
			4/19/01	N	SW8260B	TCE	0.14	F	ug/L
			4/19/01	N	SW8260B	Toluene	0 03	F	ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
SS-006									
	SS06-MW20								
		SS006-MW020	4/19/01	N	SW8260B	1,1-DCE	2 90		ug/L
			4/19/01	N	SW8260B	Benzene	0 40		ug/L
			4/19/01	N	SW8260B	Chloroform	0 16	F	ug/L
			4/19/01	N	SW8260B	Cis-1,2-DCE	72 80		ug/L
			4/19/01	N	SW8260B	TCE	460 00		ug/L
			4/19/01	N	SW8260B	Toluene	0 05	F	ug/L
			4/19/01	N	SW8260B	Trans-1,2-DCE	21 90		ug/L
			4/19/01	N	SW8260B	Vinyl chloride	1 80		ug/L
SS-009									
	SS09-MW02								
		SS009-MW002	4/18/01	N	E310 1	Alkalinity	431 00		mg/L as CaCO3
			4/18/01	N	SW9056	Chloride	214 00		mg/L
			4/18/01	N	RSK-175	Methane	0 25	F	ug/L
			4/18/01	N	SW9056	Nitrate	0 15		mg/L
			4/18/01	N	SW9056	Sulfate	17 20		mg/L
			4/18/01	N	E415 1	Total Organic Carbon	2 90		mg/L
	SS09-MW03								
		SS009-FDMW003	4/18/01	FD	SW8260B	1,1,2-TCA	0 22	F	ug/L
			4/18/01	FD	SW8260B	1,1-DCA	50.70		ug/L
			4/18/01	FD	SW8260B	1,1-DCE	39 70		ug/L
			4/18/01	FD	SW8260B	1,2-DCA	0 69		ug/L
			4/18/01	FD	SW8260B	Benzene	1.60		ug/L
			4/18/01	FD	SW8260B	Cis-1,2-DCE	165 00		ug/L
			4/18/01	FD	SW8260B	Naphthalene	0 04	F	ug/L
			4/18/01	FD	SW8260B	TCE	20 90		ug/L
			4/18/01	FD	SW8260B	Tetrachloroethene	17 60		ug/L
			4/18/01	FD	SW8260B	Toluene	0 67	F	ug/L
			4/18/01	FD	SW8260B	Vinyl chloride	3 90		ug/L
		SS009-MW003	4/18/01	N	SW8260B	1,1,2-TCA	0 21	F	ug/L
			4/18/01	N	SW8260B	1,1-DCA	48 50		ug/L
			4/18/01	N	SW8260B	1,1-DCE	38 00		ug/L
			4/18/01	N	SW8260B	1,2-DCA	0 71		ug/L
			4/18/01	N	E310 1	Alkalinity	600 00		mg/L as CaCO3

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
SS-009									
		SS009-MW003	4/18/01	N	SW8260B	Benzene	1 60		ug/L
			4/18/01	N	SW9056	Chloride	98.40		mg/L
			4/18/01	N	SW8260B	Cis-1,2-DCE	163 00		ug/L
			4/18/01	N	SW8260B	Ethylbenzene	0 02	F	ug/L
			4/18/01	N	SW8260B	m,p-Xylene	0 05	F	ug/L
			4/18/01	N	RSK-175	Methane	0 95		ug/L
			4/18/01	N	SW8260B	Naphthalene	0 12	F	ug/L
			4/18/01	N	SW9056	Sulfate	78.60		mg/L
			4/18/01	N	SW8260B	TCE	20 10		ug/L
			4/18/01	N	SW8260B	Tetrachloroethene	16 90		ug/L
			4/18/01	N	SW8260B	Toluene	0 68	F	ug/L
			4/18/01	N	E415 1	Total Organic Carbon	4 20		mg/L
			4/18/01	N	SW8260B	Vinyl chloride	3 60		ug/L
	SS09-MW05								
		SS009-MW005	4/19/01	N	SW8260B	1,1-DCA	0 99		ug/L
			4/19/01	N	SW8260B	1,1-DCE	0 34	F	ug/L
			4/19/01	N	E310 1	Alkalinity	500 00		mg/L as CaCO3
			4/19/01	N	SW9056	Chloride	129 00		mg/L
			4/19/01	N	SW8260B	Cis-1,2-DCE	0 79	F	ug/L
			4/19/01	N	SW9056	Nitrate	0 20		mg/L
			4/19/01	N	SW9056	Sulfate	64 50		mg/L
			4/19/01	N	SW8260B	TCE	1 40		ug/L
			4/19/01	N	SW8260B	Tetrachloroethene	3 50		ug/L
			4/19/01	N	SW8260B	Toluene	0 03	F	ug/L
			4/19/01	N	E415 1	Total Organic Carbon	2 60		mg/L
	SS09-MW06								
		SS009-MW006	4/18/01	N	SW8260B	1,1-DCA	0 60		ug/L
			4/18/01	N	SW8260B	1,1-DCE	0 43	F	ug/L
			4/18/01	N	SW8260B	Benzene	0 05	F	ug/L
			4/18/01	N	SW8260B	Cis-1,2-DCE	1 60		ug/L
			4/18/01	N	SW8260B	TCE	0 17	F	ug/L
			4/18/01	N	SW8260B	Vinyl chloride	0 93	F	ug/L
	SS09-MW08								
		SS009-MW008	4/18/01	N	SW8260B	Benzene	0 05	F	ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
SS-009									
	SS09-MW09								
		SS009-MW009	4/18/01	N	SW8260B	1,1-DCA	5 60		ug/L
			4/18/01	N	SW8260B	1,1-DCE	7 60		ug/L
			4/18/01	N	E310 1	Alkalinity	332 00		mg/L as CaCO3
			4/18/01	N	SW9056	Chloride	97.90		mg/L
			4/18/01	N	SW8260B	Cis-1,2-DCE	23 90		ug/L
			4/18/01	N	RSK-175	Ethane	0 41	F	ug/L
			4/18/01	N	RSK-175	Methane	551 00		ug/L
			4/18/01	N	SW9056	Nitrate	0 16		mg/L
			4/18/01	N	SW9056	Sulfate	29 50		mg/L
			4/18/01	N	SW8260B	TCE	4 30		ug/L
			4/18/01	N	SW8260B	Tetrachloroethene	2 20		ug/L
			4/18/01	N	E415 1	Total Organic Carbon	3 00		mg/L
			4/18/01	N	SW8260B	Trans-1,2-DCE	0 19	F	ug/L
			4/18/01	N	SW8260B	Vinyl chloride	10 40		ug/L
	SS09-MW11								
		SS009-MW011	4/19/01	N	SW8260B	TCE	0 20	F	ug/L
ST-005									
	ST05-MW10								
		ST005-MW010	4/25/01	N	SW8260B	Cis-1,2-DCE	0 22	F	ug/L
			4/25/01	N	SW8260B	TCE	8 60		ug/L
			4/25/01	N	SW8260B	Trichlorofluoromethane	4 00		ug/L
	ST05-MW11								
		ST005-MW011	4/26/01	N	SW8260B	Cis-1,2-DCE	0.32	F	ug/L
			4/26/01	N	SW8260B	TCE	3 30		ug/L
			4/26/01	N	SW8260B	Toluene	0 08	F	ug/L
			4/26/01	N	SW8260B	Trichlorofluoromethane	2.80		ug/L
	ST05-MW12								
		ST005-MW012	4/26/01	N	SW8260B	Chloroform	0 09	F	ug/L
			4/26/01	N	SW8260B	Cis-1,2-DCE	0 18	F	ug/L
			4/26/01	N	SW8260B	TCE	43 80		ug/L
			4/26/01	N	SW8260B	Trichlorofluoromethane	14 10		ug/L
	ST05-MW13								
		ST005-MW013	4/25/01	N	SW8260B	1,1-DCE	0 80	F	ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
ST-005									
		ST005-MW013	4/25/01	N	SW8260B	1,2-DCA	0 07	F	ug/L
			4/25/01	N	SW8260B	Benzene	0 77		ug/L
			4/25/01	N	SW8260B	Chloroform	0 18	F	ug/L
			4/25/01	N	SW8260B	Cis-1,2-DCE	3 70		ug/L
			4/25/01	N	SW8260B	TCE	89 40		ug/L
			4/25/01	N	SW8260B	Trichlorofluoromethane	21 00		ug/L
	ST05-MW14								
		ST005-MW014	4/25/01	N	SW8260B	1,1-DCE	0.13	F	ug/L
			4/25/01	N	SW8260B	Chloroform	0 08	F	ug/L
			4/25/01	N	SW8260B	Cis-1,2-DCE	1 90		ug/L
			4/25/01	N	SW8260B	Hexachlorobutadiene	0 11	F	ug/L
			4/25/01	N	SW8260B	Naphthalene	0 14	F	ug/L
			4/25/01	N	SW8260B	TCE	41 20		ug/L
			4/25/01	N	SW8260B	Trichlorofluoromethane	8 10		ug/L
	ST05-MW15								
		ST005-MW015	4/25/01	N	SW8260B	TCE	0 51	F	ug/L
			4/25/01	N	SW8260B	Trichlorofluoromethane	2 40		ug/L
	ST05-MW16								
		ST005-MW016	4/25/01	N	SW8260B	TCE	2 40		ug/L
			4/25/01	N	SW8260B	Trichlorofluoromethane	6 10		ug/L
	ST05-MW17								
		ST005-MW017	4/26/01	N	SW8260B	TCE	0 67	F	ug/L
			4/26/01	N	SW8260B	Trichlorofluoromethane	2 10		ug/L
	ST05-MW18								
		ST005-MW018	4/26/01	N	SW8260B	1,1-DCE	1 20		ug/L
			4/26/01	N	E310 1	Alkalinity	224 00		mg/L as CaCO3
			4/26/01	N	SW9056	Chloride	8 56		mg/L
			4/26/01	N	SW8260B	Chloroform	1 60		ug/L
			4/26/01	N	SW8260B	Cis-1,2-DCE	15 10		ug/L
			4/26/01	N	RSK-175	Methane	0 18	F	ug/L
			4/26/01	N	SW9056	Nitrate	0 97		mg/L
			4/26/01	N	SW9056	Sulfate	59 60		mg/L
			4/26/01	N	SW8260B	TCE	854 00		ug/L
			4/26/01	N	E415.1	Total Organic Carbon	2 20		mg/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
ST-005									
		ST005-MW018	4/26/01	N	SW8260B	Trichlorofluoromethane	727 00		ug/L
	ST05-MW19								
		ST005-MW019	4/25/01	N	SW8260B	Ethylbenzene	1 90		ug/L
			4/25/01	N	SW8260B	Isopropylbenzene	2 60		ug/L
			4/25/01	N	SW8260B	n-Butylbenzene	0 72	F	ug/L
			4/25/01	N	SW8260B	n-Propylbenzene	2 90		ug/L
			4/25/01	N	SW8260B	Naphthalene	0 27	F	ug/L
			4/25/01	N	SW8260B	p-Isopropyltoluene	0 11	F	ug/L
			4/25/01	N	SW8260B	sec-Butylbenzene	1 30	F	ug/L
			4/25/01	N	SW8260B	tert-Butylbenzene	0 38	F	ug/L
	ST05-MW20								
		ST005-MW020	4/25/01	N	E310 1	Alkalinity	406 00		mg/L as CaCO3
			4/25/01	N	SW9056	Chloride	10 40		mg/L
			4/25/01	N	SW8260B	Cis-1,2-DCE	5 60		ug/L
			4/25/01	N	RSK-175	Methane	0 20	F	ug/L
			4/25/01	N	SW9056	Nitrate	0 27		mg/L
			4/25/01	N	SW9056	Sulfate	38 70		mg/L
			4/25/01	N	SW8260B	TCE	7 10		ug/L
			4/25/01	N	E415 1	Total Organic Carbon	3 90		mg/L
	ST05-MW21								
		ST005-MW021	4/25/01	N	SW8260B	TCE	6 70		ug/L
			4/25/01	N	SW8260B	Trichlorofluoromethane	6 60		ug/L
	ST05-MW22								
		ST005-MW022	4/26/01	N	E310 1	Alkalinity	305 00		mg/L as CaCO3
			4/26/01	N	SW8260B	Benzene	0 07	F	ug/L
			4/26/01	N	SW9056	Chloride	7.55		mg/L
			4/26/01	N	RSK-175	Methane	0 22	F	ug/L
			4/26/01	N	SW8260B	Naphthalene	0 20	F	ug/L
			4/26/01	N	SW9056	Nitrate	0 09	F	mg/L
			4/26/01	N	SW9056	Sulfate	37 20		mg/L
			4/26/01	N	SW8260B	TCE	5 20		ug/L
			4/26/01	N	E415.1	Total Organic Carbon	2 00		mg/L
	ST05-MW23								
		ST005-MW023	4/26/01	N	SW8260B	Methylene chloride	0.53		ug/L

Site	Locatio	Field ID	Sample Date	QAQC	Method	Analyte	Result	Flag	Units
ST-005									
	ST05-MW3								
		ST005-FDMW003	4/25/01	FD	SW8260B	1,1-DCE	0 16	F	ug/L
			4/25/01	FD	SW8260B	Chloroform	0 71		ug/L
			4/25/01	FD	SW8260B	Cis-1,2-DCE	0 56	F	ug/L
			4/25/01	FD	SW8260B	TCE	202 00		ug/L
			4/25/01	FD	SW8260B	Trichlorofluoromethane	181 00		ug/L
		ST005-MW003	4/25/01	N	SW8260B	1,1-DCE	0 16	F	ug/L
			4/25/01	N	E310.1	Alkalinity	214 00		mg/L as CaCO3
			4/25/01	N	SW9056	Chloride	11 00		mg/L
			4/25/01	N	SW8260B	Chloroform	0 69		ug/L
			4/25/01	N	SW8260B	Cis-1,2-DCE	0 55	F	ug/L
			4/25/01	N	SW9056	Nitrate	3 53		mg/L
			4/25/01	N	SW9056	Sulfate	58 50		mg/L
			4/25/01	N	SW8260B	TCE	203 00		ug/L
			4/25/01	N	E415 1	Total Organic Carbon	1.00		mg/L
			4/25/01	N	SW8260B	Trichlorofluoromethane	180 00		ug/L

Qualifier Description
J = Analyte present but reported value may not be accurate or precise
R = This result has been rejected
U = The analyte was analyzed for, but not detected at the specified detection limit
B = Analyte detected in an associated blank
F = Analyte detected between the MDL and RL

Table 3: Compounds Exceeding Tier 1 Screening Levels in Groundwater, April 2001 Quarterly Monitoring Event

Grouped by Operable Unit, Site, and Location, sorted by Field ID and Analyte

Site	Location	Field ID	Matrix	Sample Date	Analyte	Detected Concentration	Units	Water Screening Level
BLDG-105								
	BLDG105-MW001							
		BLDG105-MW001	WATER	24-Apr-01	Trichloroethylene	262	ug/L	5 ug/L
		BLDG105-MW001	WATER	24-Apr-01	Vinyl Chloride	6 6	ug/L	2 ug/L
	BLDG105-MW002							
		BLDG105-MW002	WATER	24-Apr-01	Trichloroethylene	885	ug/L	5 ug/L
	BLDG105-MW003							
		BLDG105-FDMW003	WATER	24-Apr-01	Trichloroethylene	16 5	ug/L	5 ug/L
		BLDG105-MW003	WATER	24-Apr-01	Trichloroethylene	16 4	ug/L	5 ug/L
	BLDG105-MW008							
		BLDG105-MW008	WATER	24-Apr-01	Trichloroethylene	97 7	ug/L	5 ug/L
	BLDG105-MW012							
		BLDG105-MW012	WATER	24-Apr-01	Trichloroethylene	125	ug/L	5 ug/L
CS-004								
	CS004-MW07							
		CS004-FDMW007	WATER	20-Apr-01	Vinyl Chloride	3.5	ug/L	2 ug/L
	CS04-MW03							
		CS004-MW003	WATER	23-Apr-01	cis-1,2-Dichloroethylene	222	ug/L	70 ug/L
		CS004-MW003	WATER	23-Apr-01	Vinyl Chloride	2 5	ug/L	2 ug/L

218 29

Site	Location	Field ID	Matrix	Sample Date	Analyte	Detected Concentration	Units	Water Screening Level
	CS04-MW06	CS004-MW006	WATER	23-Apr-01	Trichloroethylene	9 6	ug/L	5 ug/L
	CS04-MW07	CS004-MW007	WATER	20-Apr-01	Vinyl Chloride	3 3	ug/L	2 ug/L
	CS04-MW08	CS004-MW008	WATER	23-Apr-01	Vinyl Chloride	5 4	ug/L	2 ug/L
	CS04-MW16	CS004-MW016	WATER	23-Apr-01	Vinyl Chloride	6 5	ug/L	2 ug/L
SS-003								
	SS03-MW04	SS003-MW004	WATER	16-Apr-01	Trichloroethylene	50	ug/L	5 ug/L
	SS03-MW06	SS003-MW006	WATER	17-Apr-01	Trichloroethylene	8 9	ug/L	5 ug/L
	SS03-MW07	SS003-FDMW007	WATER	17-Apr-01	Trichloroethylene	25 8	ug/L	5 ug/L
		SS003-MW007	WATER	17-Apr-01	Trichloroethylene	26 3	ug/L	5 ug/L
	SS03-MW08	SS003-MW008	WATER	18-Apr-01	Trichloroethylene	9 4	ug/L	5 ug/L
SS-006								
	SS06-MW08	SS006-MW005	WATER	16-Apr-01	Trichloroethylene	398	ug/L	5 ug/L
	SS06-MW10	SS006-FDMW010	WATER	16-Apr-01	cis-1,2-Dichloroethylene	147	ug/L	70 ug/L
		SS006-FDMW010	WATER	16-Apr-01	Trichloroethylene	237	ug/L	5 ug/L

218 30

Site	Location	Field ID	Matrix	Sample Date	Analyte	Detected Concentration	Units	Water Screening Level	
		SS006-MW010	WATER	16-Apr-01	cis-1,2-Dichloroethylene	141	ug/L	70	ug/L
		SS006-MW010	WATER	16-Apr-01	Trichloroethylene	226	ug/L	5	ug/L
		SS006-MW010	WATER	16-Apr-01	Vinyl Chloride	2 4 J	ug/L	2	ug/L
	SS06-MW11								
		SS006-MW011	WATER	17-Apr-01	cis-1,2-Dichloroethylene	82 3	ug/L	70	ug/L
		SS006-MW011	WATER	17-Apr-01	Trichloroethylene	188	ug/L	5	ug/L
	SS06-MW12								
		SS006-MW012	WATER	17-Apr-01	cis-1,2-Dichloroethylene	78 3	ug/L	70	ug/L
		SS006-MW012	WATER	17-Apr-01	Trichloroethylene	112	ug/L	5	ug/L
	SS06-MW13								
		SS006-MW013	WATER	18-Apr-01	Trichloroethylene	14 2	ug/L	5	ug/L
	SS06-MW14								
		SS006-MW014	WATER	18-Apr-01	Trichloroethylene	52.8	ug/L	5	ug/L
	SS06-MW15								
		SS006-MW015	WATER	19-Apr-01	Trichloroethylene	155	ug/L	5	ug/L
	SS06-MW18								
		SS006-MW018	WATER	17-Apr-01	Trichloroethylene	15 6	ug/L	5	ug/L
	SS06-MW20								
		SS006-MW020	WATER	19-Apr-01	cis-1,2-Dichloroethylene	72 8	ug/L	70	ug/L
		SS006-MW020	WATER	19-Apr-01	Trichloroethylene	460	ug/L	5	ug/L
SS-009									
	SS09-MW03								
		SS009-FDMW003	WATER	18-Apr-01	1,1-Dichloroethene	39 7	ug/L	7	ug/L
		SS009-FDMW003	WATER	18-Apr-01	cis-1,2-Dichloroethylene	165	ug/L	70	ug/L
		SS009-FDMW003	WATER	18-Apr-01	Tetrachloroethylene	17.6	ug/L	5	ug/L

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Site	Location	Field ID	Matrix	Sample Date	Analyte	Detected Concentration	Units	Water Screening Level
		SS009-FDMW003	WATER	18-Apr-01	Trichloroethylene	20 9	ug/L	5 ug/L
		SS009-FDMW003	WATER	18-Apr-01	Vinyl Chloride	3 9	ug/L	2 ug/L
		SS009-MW003	WATER	18-Apr-01	1,1-Dichloroethene	38	ug/L	7 ug/L
		SS009-MW003	WATER	18-Apr-01	cis-1,2-Dichloroethylene	163	ug/L	70 ug/L
		SS009-MW003	WATER	18-Apr-01	Tetrachloroethylene	16 9	ug/L	5 ug/L
		SS009-MW003	WATER	18-Apr-01	Trichloroethylene	20 1	ug/L	5 ug/L
		SS009-MW003	WATER	18-Apr-01	Vinyl Chloride	3 6	ug/L	2 ug/L
	SS09-MW09							
		SS009-MW009	WATER	18-Apr-01	1,1-Dichloroethene	7 6	ug/L	7 ug/L
		SS009-MW009	WATER	18-Apr-01	Vinyl Chloride	10 4	ug/L	2 ug/L
ST-005								
	ST05-MW003							
		ST005-FDMW003	WATER	25-Apr-01	Trichloroethylene	202	ug/L	5 ug/L
	ST05-MW03							
		ST005-MW003	WATER	25-Apr-01	Trichloroethylene	203	ug/L	5 ug/L
	ST05-MW10							
		ST005-MW010	WATER	25-Apr-01	Trichloroethylene	8 6	ug/L	5 ug/L
	ST05-MW12							
		ST005-MW012	WATER	26-Apr-01	Trichloroethylene	43 8	ug/L	5 ug/L
	ST05-MW13							
		ST005-MW013	WATER	25-Apr-01	Trichloroethylene	89 4	ug/L	5 ug/L
	ST05-MW14							
		ST005-MW014	WATER	25-Apr-01	Trichloroethylene	41 2	ug/L	5 ug/L
	ST05-MW18							
		ST005-MW018	WATER	26-Apr-01	Trichloroethylene	854	ug/L	5 ug/L

018 32

Site	Location	Field ID	Matrix	Sample Date	Analyte	Detected Concentration	Units	Water Screening Level
	ST05-MW20							
		ST005-MW020	WATER	25-Apr-01	Trichloroethylene	7 1	ug/L	5 ug/L
	ST05-MW21							
		ST005-MW021	WATER	25-Apr-01	Trichloroethylene	6 7	ug/L	5 ug/L
	ST05-MW22							
		ST005-MW022	WATER	26-Apr-01	Trichloroethylene	5 2	ug/L	5 ug/L

Qualifier Description
J = The analyte was positively identified, the quantitation is an estimate
F = The analyte was positively identified but the associated numerical value is below the reporting limit (RL)
B = The analyte was found in an associated blank, as well as in the sample
M = A matrix effect was present

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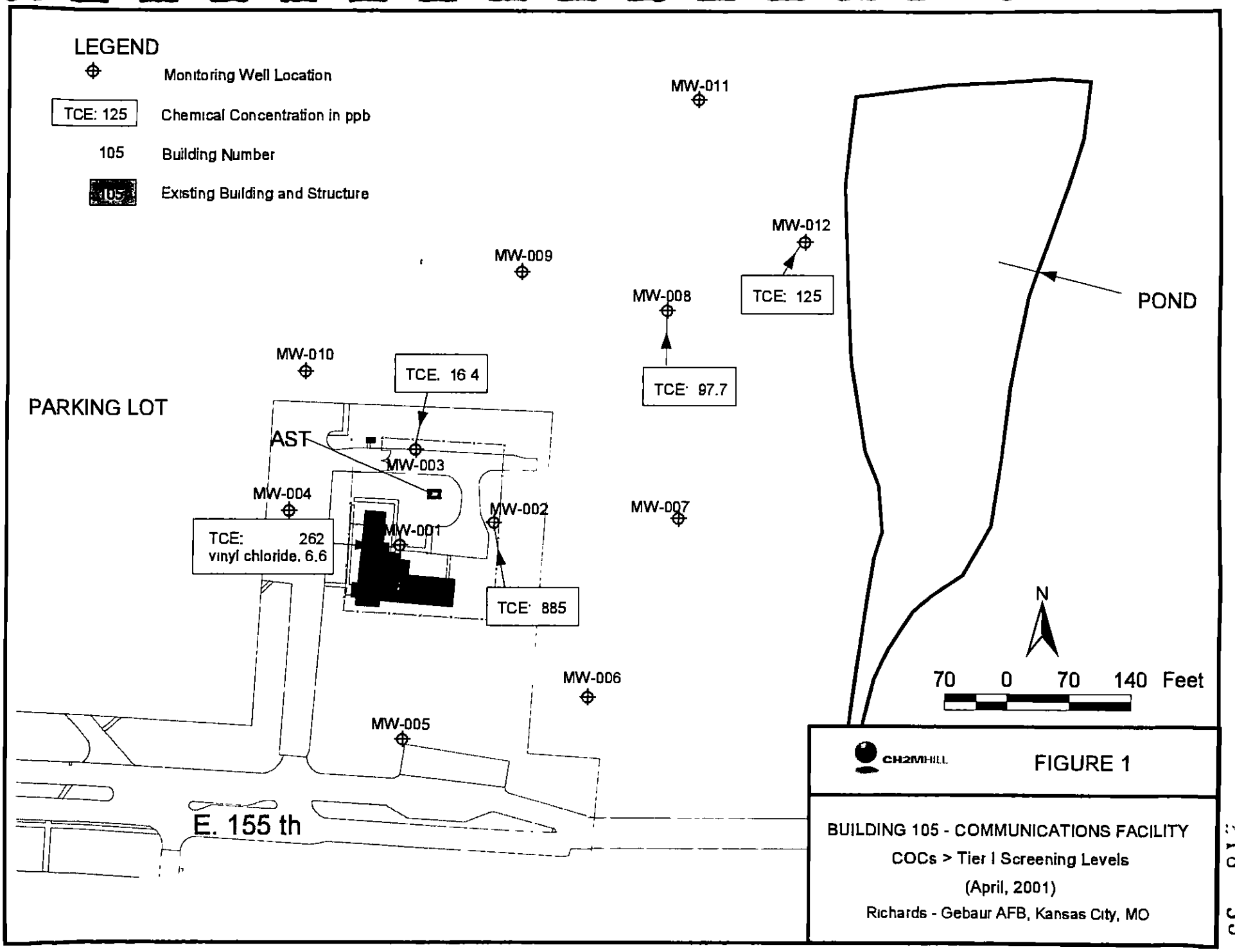
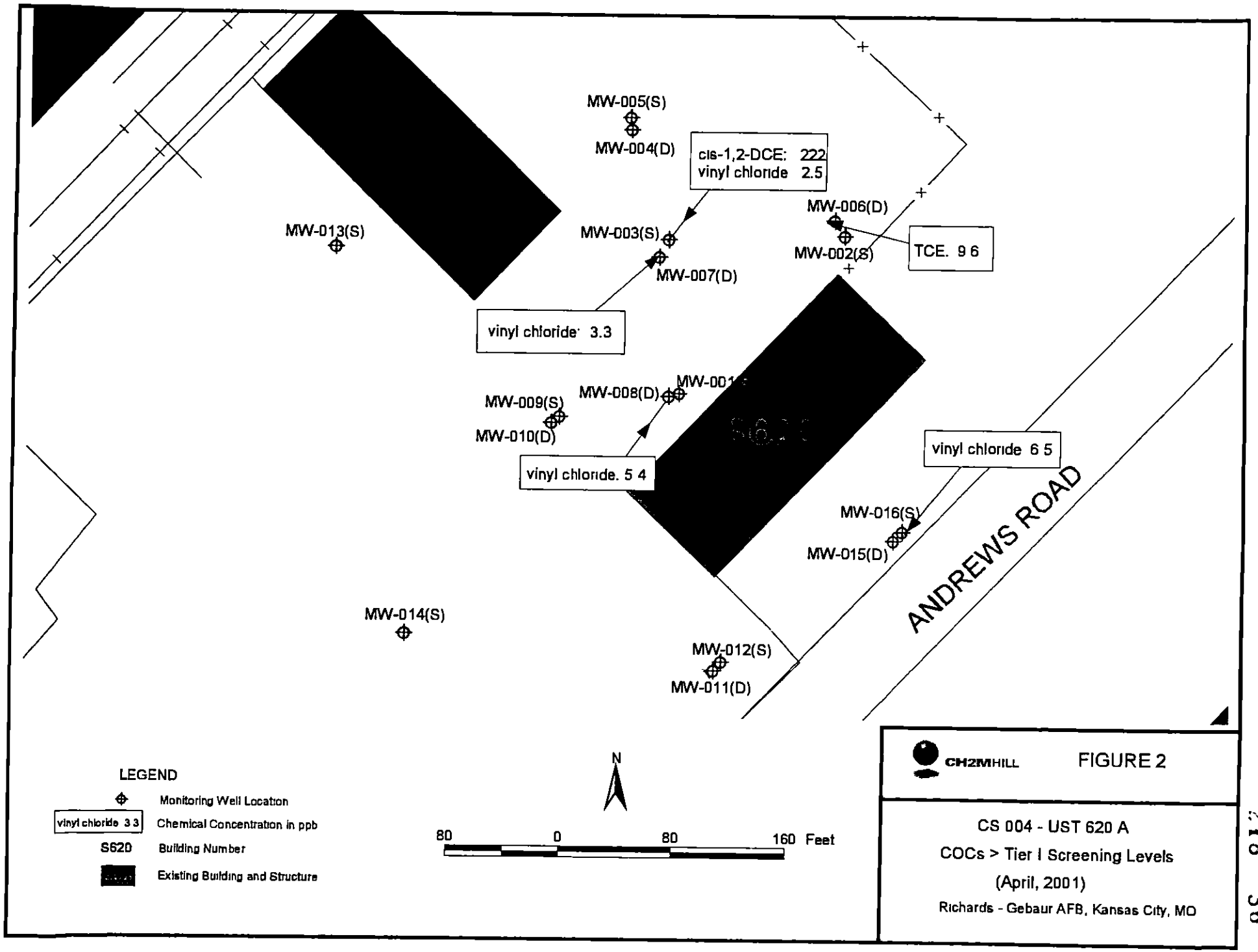
Table 4: Natural Attenuation Indicator P

Site	Well ID	ductivity hos/cm)	TOC (ppm)	Ethanol (ppm)	Chloroethanol (ppm)
Building 105	MW-001	1.22	1.7	0.1 U	0.1 U
	MW-002	94	1 7	0.1 U	0.1 U
	MW-005	.524	1.8	0.1 U	0.1 U
	MW-008	.314	1	0.1 U	0.1 U
	MW-011	307	6.2	0.1 U	0.1 U
	MW-012	.641	1.7	0.1 U	0.1 U
CS 004	MW-001	1.58	3 7	0.1 U	0.1 U
	MW-003	1.27	2.2	0.1 U	0.1 U
	MW-005	.533	0.93 F	0.1 U	0.1 U
	MW-012	1.58	8.9	0.1 U	0.1 U
SS 003	MW-002R (CS 002)	622	2	0.1 U	0.1 U
	MW-003	.545	6.5	0 1 U	0.1 U
	MW-004	512	0 88 F	0.1 U	0.1 U
	MW-006	0.97	2.3	0.1 U	0.1 U
SS 006	MW-001 (AOC 001)	374	2.3	0.1 U	0.1 U
	MW-005	.771	1.4	0.1 U	0.1 U
	MW-008	1.29	1.9	0.1 U	0.1 U
	MW-010	1 07	1.7	0.1 U	0.1 U
	MW-011	1.28	1.5	0.1 U	0.1 U
	MW-012	1.35	1.5	0.1 U	0.1 U
SS 009	MW-002	1 56	2.9	0.1 U	0.1 U
	MW-003	1.67	4.2	0.1 U	0.1 U
	MW-005	1.58	2.6	0.1 U	0.1 U
	MW-009	.678	3	0.1 U	0.1 U
ST 005	MW-003	.408	1	0.1 U	0 1 U
	MW-018	.388	2.2	0.1 U	0.1 U
	MW-020	586	3 9	0.1 U	0 1 U
	MW-022	456	2	0.1 U	0 1 U

Note: J =The analyte was positively id
F =The analyte was positively ic
U =The analyte was not detecte


LEGEND
Monitoring Well Location
TCE: 125
Chemical Concentration in ppb
105
Building Number
105
Existing Building and Structure
MW-011
MW-012
TCE: 125
POND
MW-009
MW-008
TCE: 97.7
MW-010
TCE. 16 4
PARKING LOT
AST
MW-003
MW-004
MW-002
MW-007
TCE: 262
vinyl chloride. 6.6
MW-001
TCE: 885
N
70 0 70 140 Feet
MW-006
MW-005
E. 155 th
CH2MHILL
FIGURE 1
BUILDING 105 - COMMUNICATIONS FACILITY
COCs > Tier I Screening Levels
(April, 2001)
Richards - Gebaur AFB, Kansas City, MO


MW-005(S)
MW-004(D)
cis-1,2-DCE: 222
vinyl chloride 2.5
MW-006(D)
MW-002(S)
TCE. 9 6
MW-013(S)
MW-003(S)
MW-007(D)
vinyl chloride· 3.3
MW-008(D)
MW-009(S)
MW-010(D)
vinyl chloride. 5 4
vinyl chloride 6 5
MW-016(S)
MW-015(D)
ANDREWS ROAD
MW-014(S)
MW-012(S)
MW-011(D)
N
80 0 80 160 Feet
LEGEND
Monitoring Well Location
vinyl chloride 3 3 Chemical Concentration in ppb
S620 Building Number
Existing Building and Structure
CH2MHILL
FIGURE 2
CS 004 - UST 620 A
COCs > Tier I Screening Levels
(April, 2001)
Richards - Gebaur AFB, Kansas City, MO

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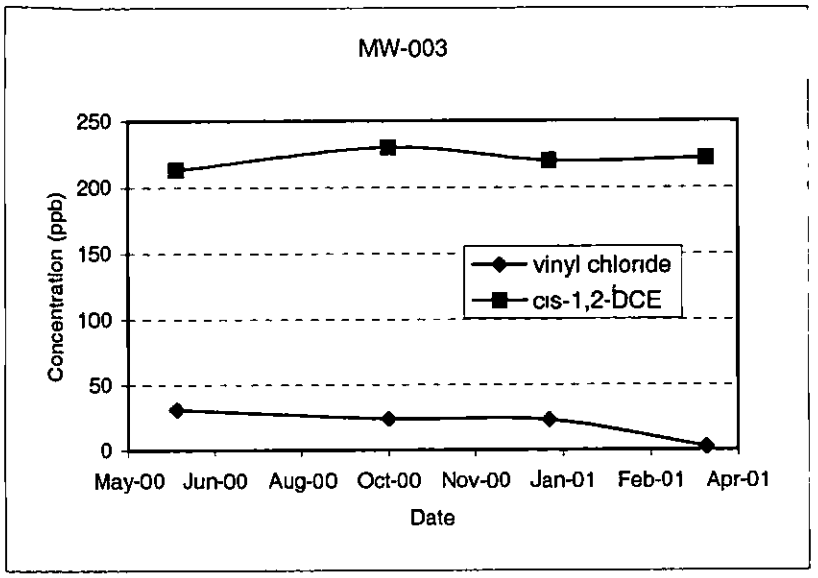
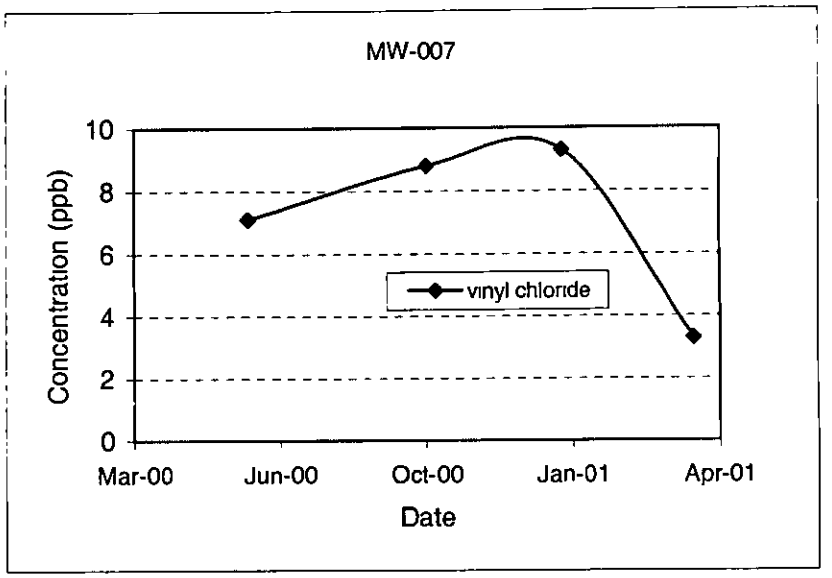
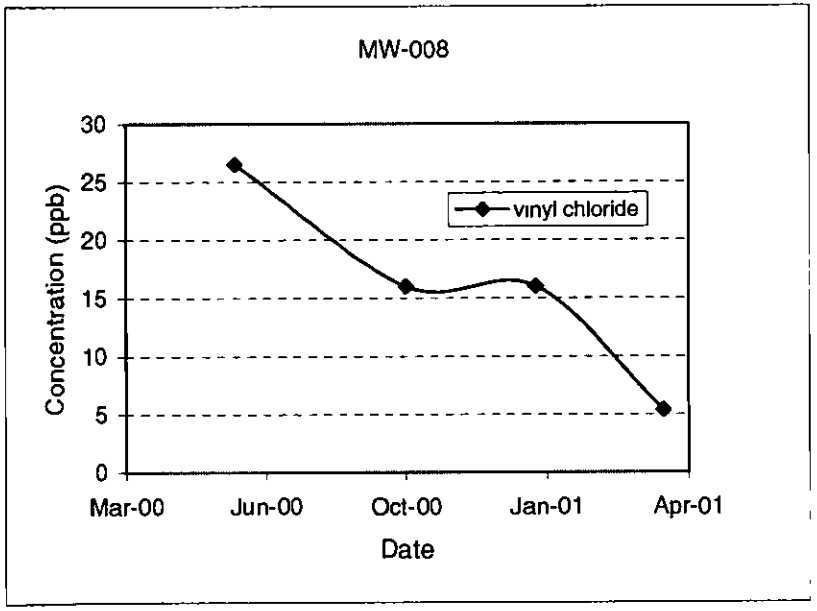






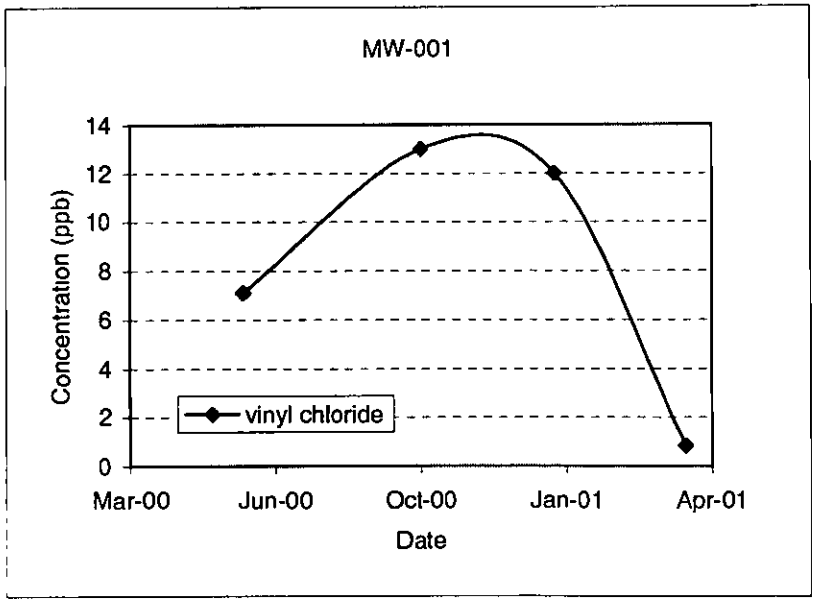
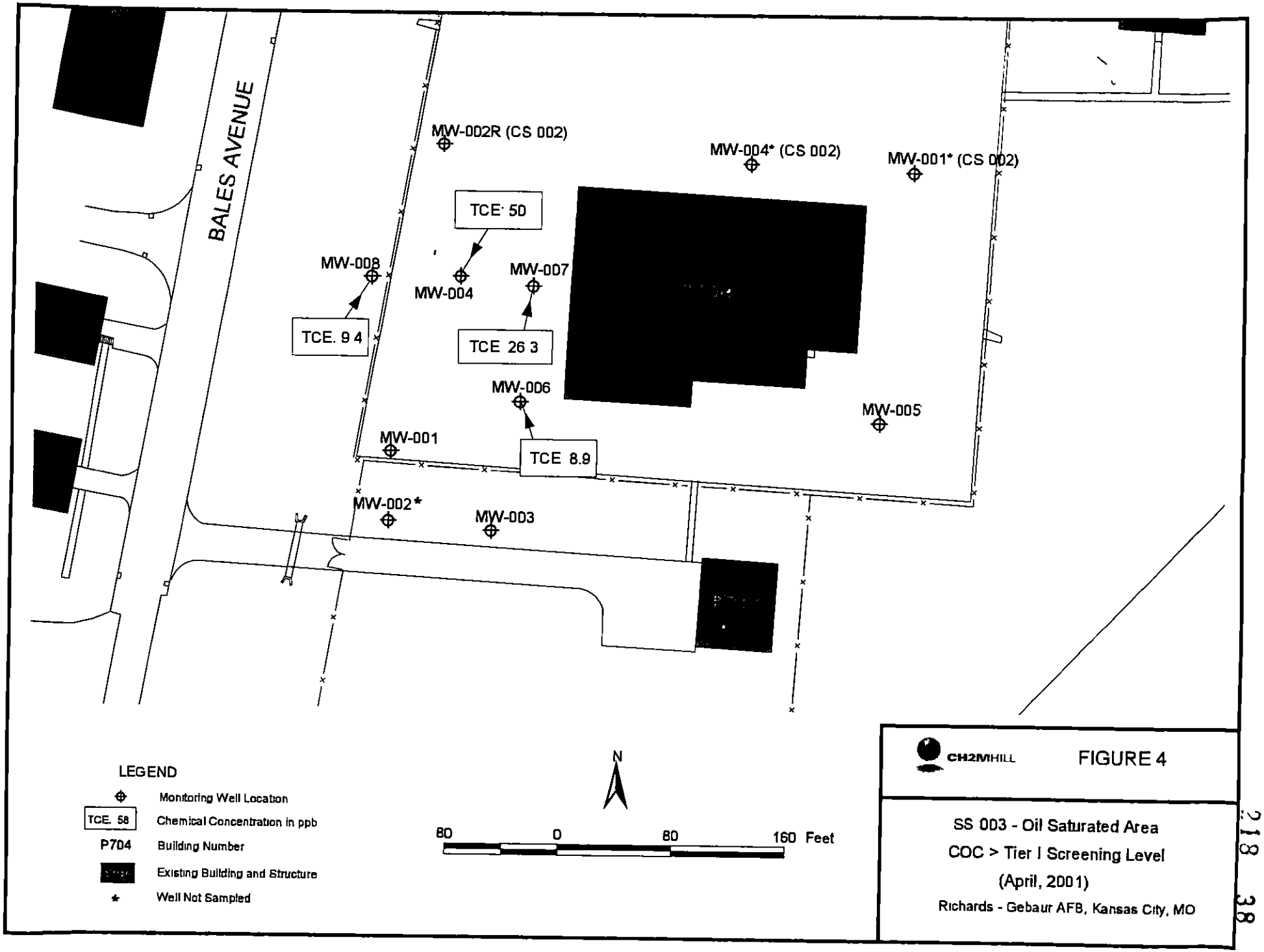


Figure 3: Temporal Trends of COCs in Groundwater at CS 004


BALES AVENUE
MW-002R (CS 002)
MW-004* (CS 002)
MW-001* (CS 002)
TCE 50
MW-008
MW-004
MW-007
TCE. 9 4
TCE 26 3
MW-006
MW-005
MW-001
TCE 8.9
MW-002*
MW-003
LEGEND
Monitoring Well Location
TCE. 58
Chemical Concentration in ppb
P704
Building Number
Existing Building and Structure
*
Well Not Sampled
N
80
0
80
160 Feet
CH2MHILL
FIGURE 4
SS 003 - Oil Saturated Area
COC > Tier I Screening Level
(April, 2001)
Richards - Gebaur AFB, Kansas City, MO

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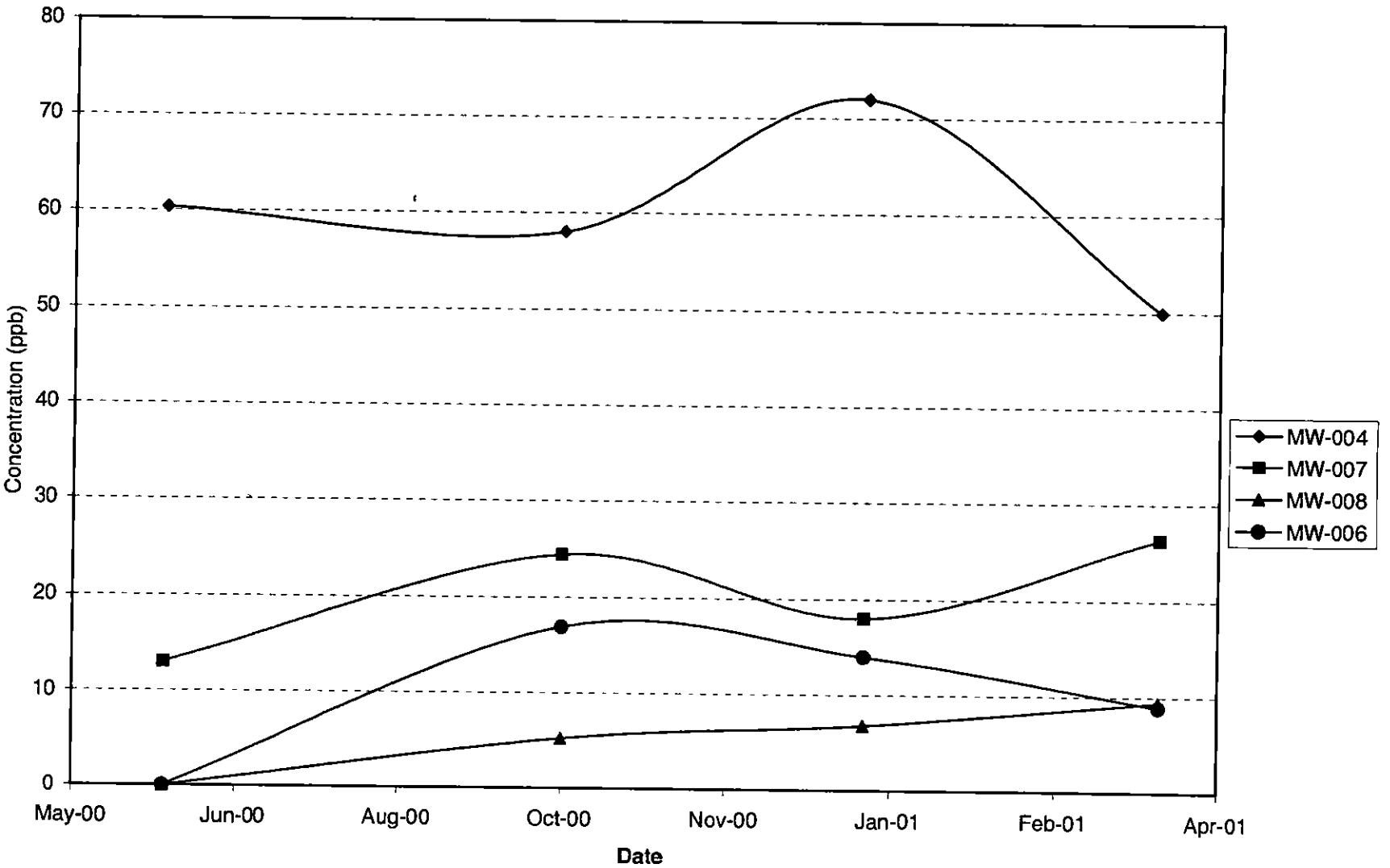
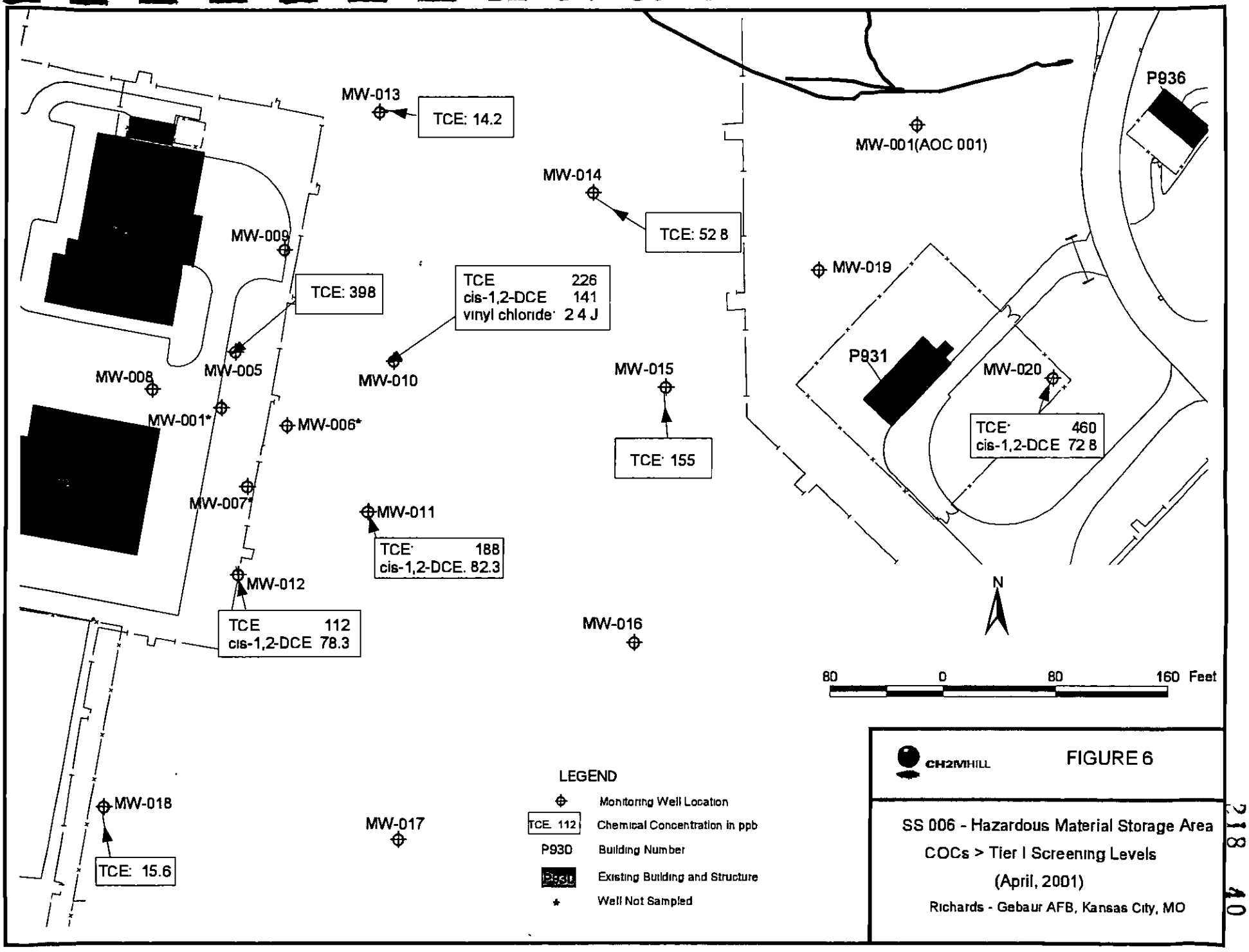


Figure 5. Temporal Trends of TCE in Groundwater at SS 003


MW-013
TCE: 14.2
MW-014
TCE: 52 8
MW-001(AOC 001)
P936
MW-009
TCE: 398
TCE 226
cis-1,2-DCE 141
vinyl chloride 2 4 J
MW-019
P931
MW-020
TCE 460
cis-1,2-DCE 72 8
MW-008
MW-005
MW-010
MW-015
TCE 155
MW-001*
MW-006*
MW-007*
MW-011
TCE 188
cis-1,2-DCE. 82.3
MW-012
TCE 112
cis-1,2-DCE 78.3
MW-016
N
80 0 80 160 Feet
MW-018
TCE: 15.6
MW-017
LEGEND
Monitoring Well Location
TCE 112 Chemical Concentration in ppb
P930 Building Number
Existing Building and Structure
* Well Not Sampled
CH2MHILL
FIGURE 6
SS 006 - Hazardous Material Storage Area
COCs > Tier I Screening Levels
(April, 2001)
Richards - Gebaur AFB, Kansas City, MO

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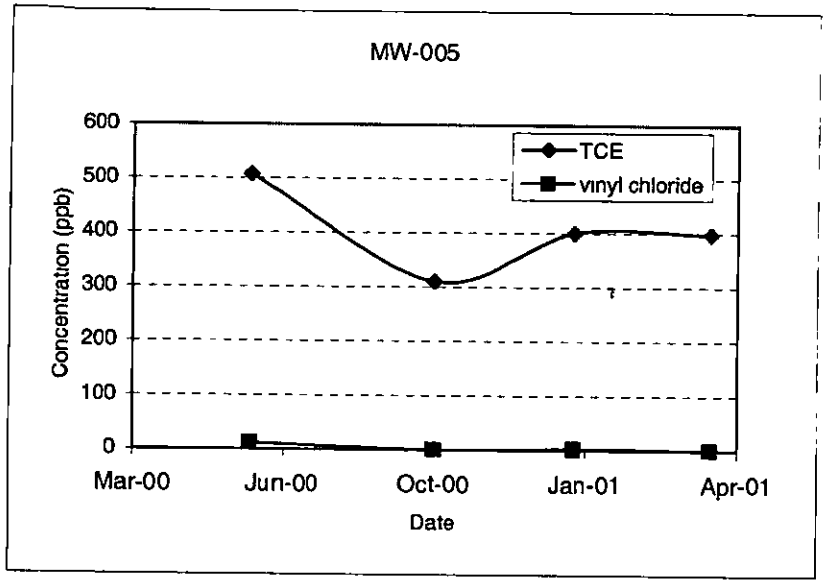
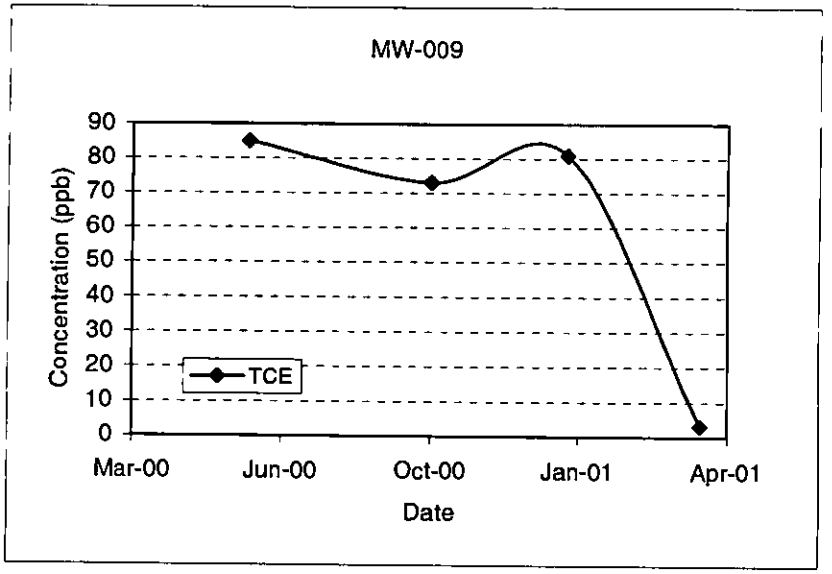
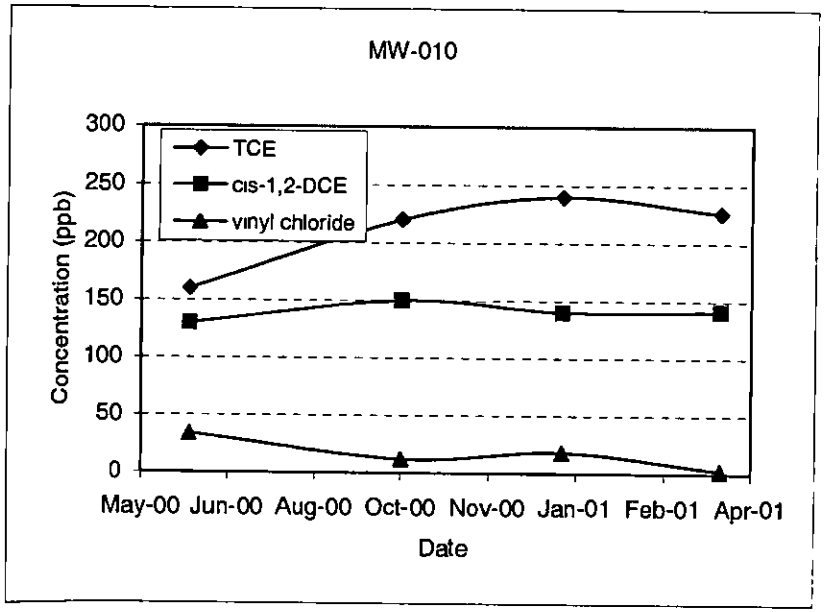






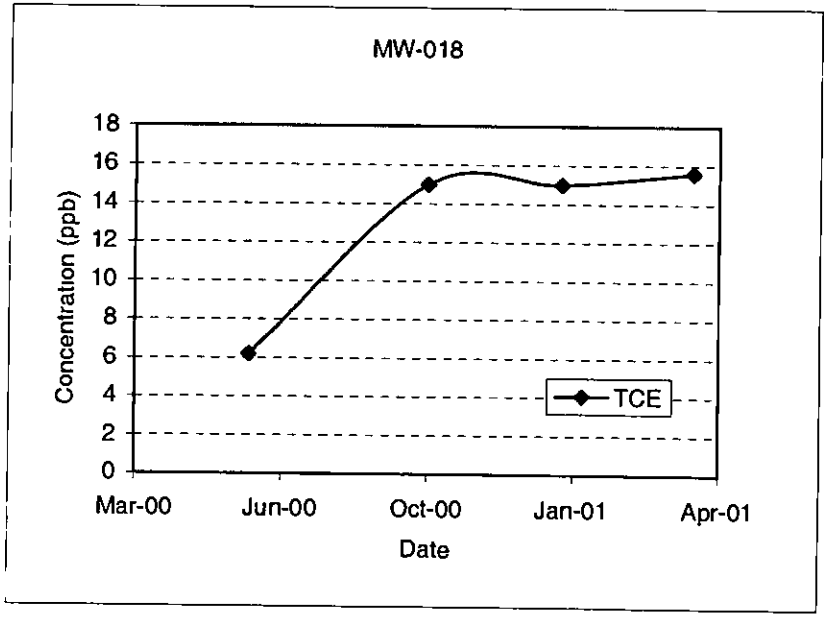
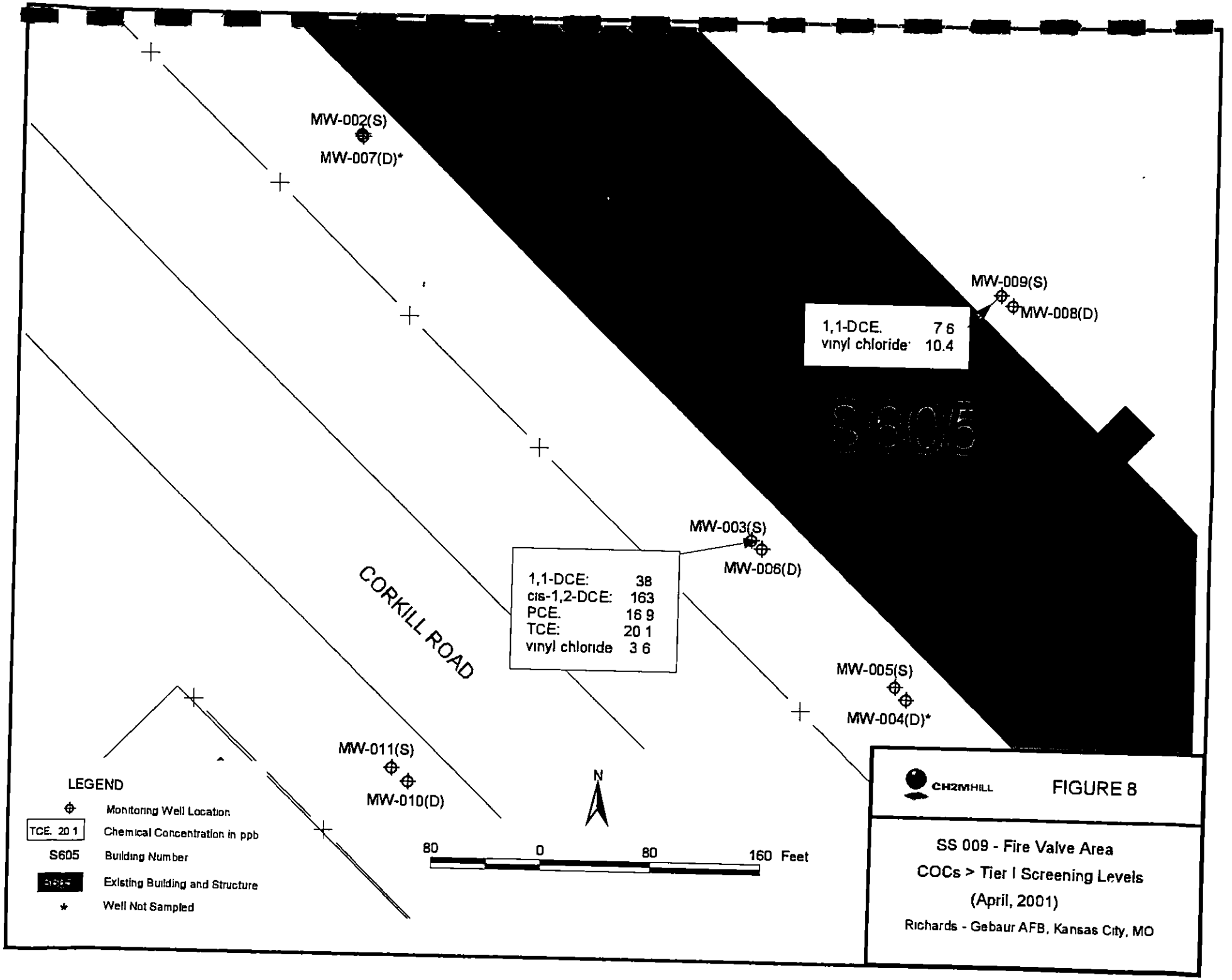


Figure 7: Temporal Trends of COCs in Groundwater at SS 006


MW-002(S)
MW-007(D)*
MW-009(S)
MW-008(D)
1,1-DCE. 7 6
vinyl chloride 10.4
S605
MW-003(S)
MW-006(D)
1,1-DCE: 38
cis-1,2-DCE: 163
PCE. 16 9
TCE: 20 1
vinyl chloride 3 6
CORKILL ROAD
MW-005(S)
MW-004(D)*
MW-011(S)
MW-010(D)
N
80 0 80 160 Feet
LEGEND
Monitoring Well Location
TCE. 20 1 Chemical Concentration in ppb
S605 Building Number
Existing Building and Structure
* Well Not Sampled
CH2MHILL
FIGURE 8
SS 009 - Fire Valve Area
COCs > Tier I Screening Levels
(April, 2001)
Richards - Gebaur AFB, Kansas City, MO

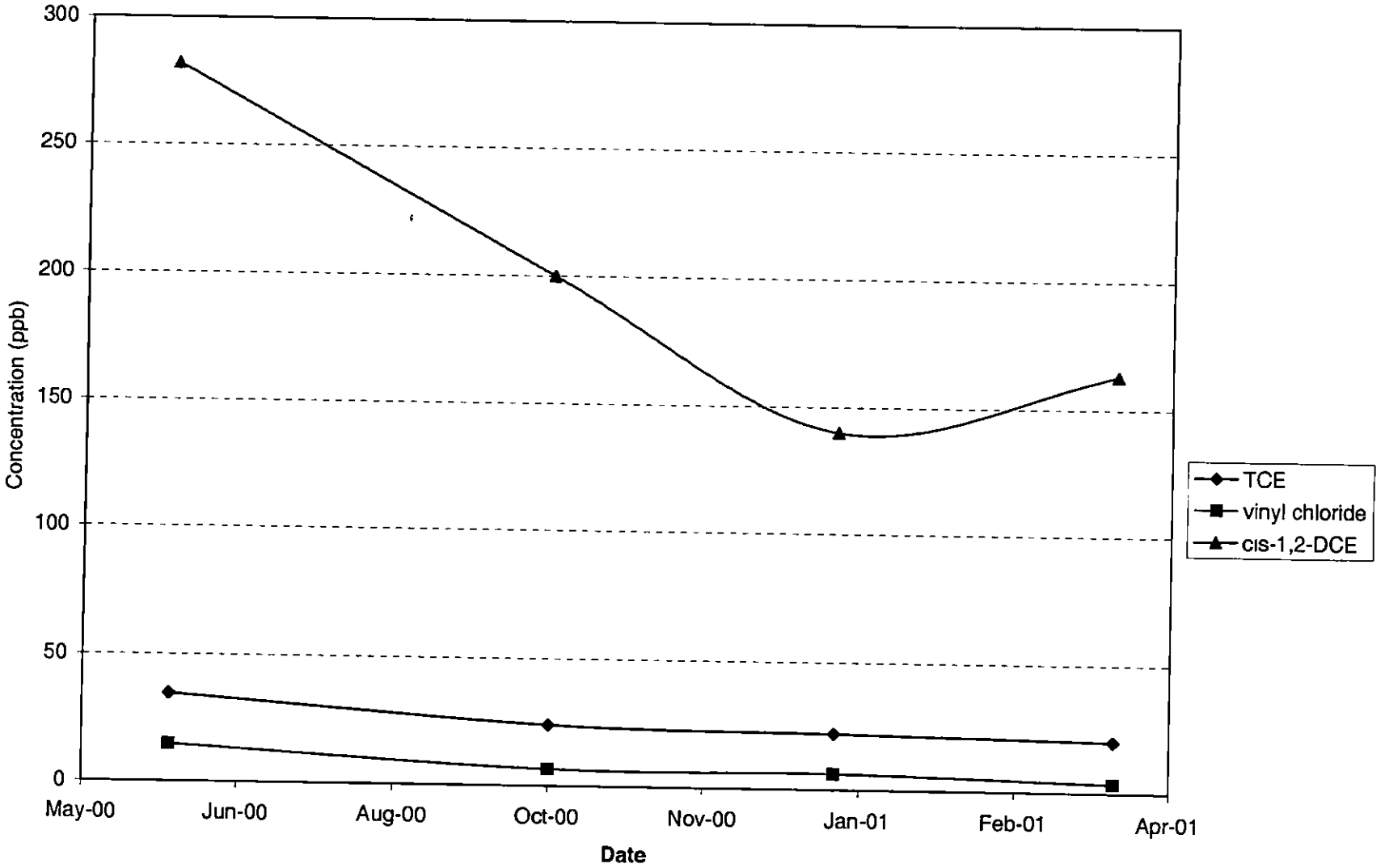
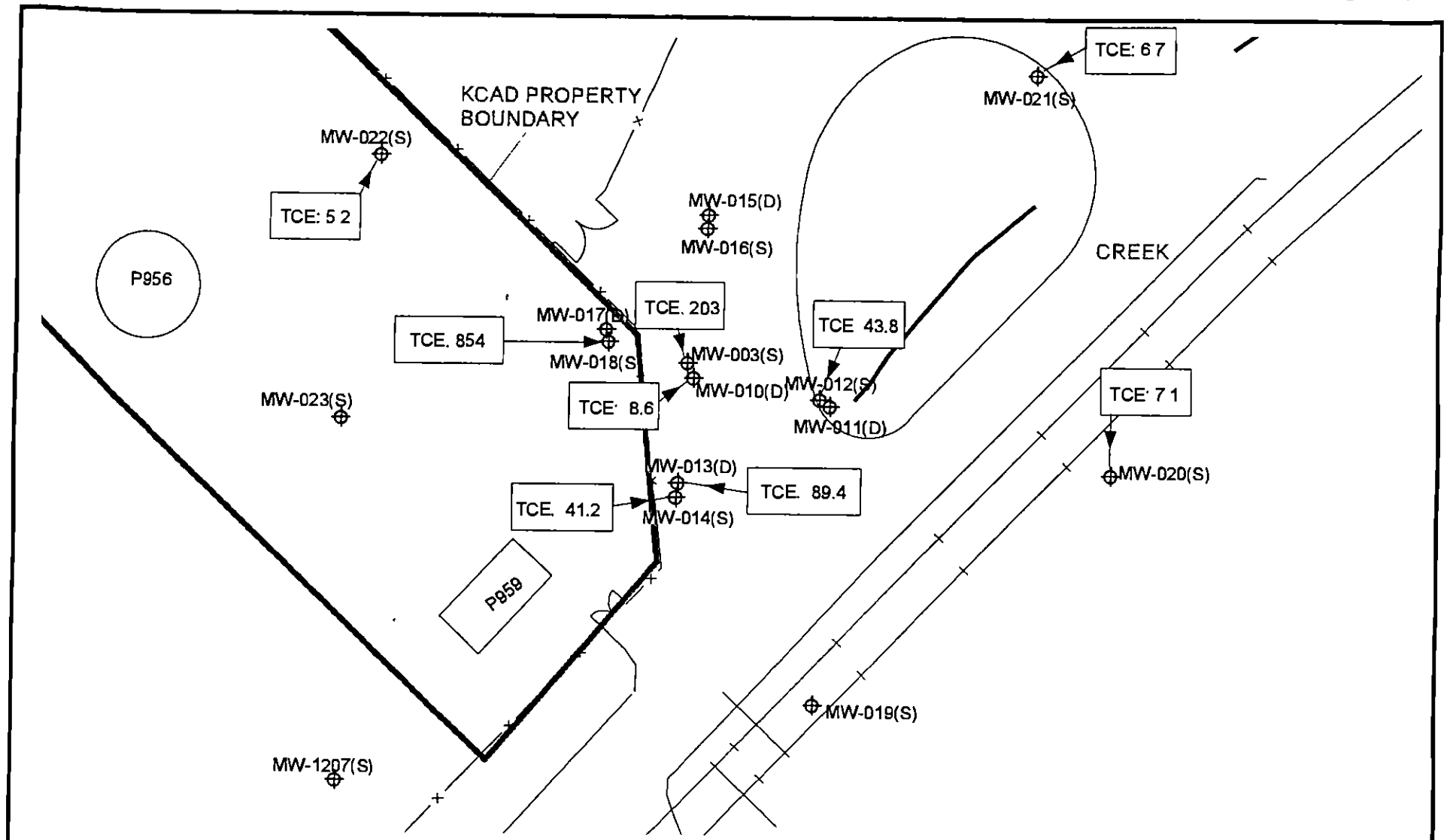


Figure 9: Temporal Trends of COCs in Groundwater at SS 009, MW-003



LEGEND

- Monitoring Well Location
- TCE. 5 2 — Chemical Concentration in ppb
- P959 — Building Number
- P959 — Demolished Building or Structure

CH2MHILL

FIGURE 10

ST 005 - POL Storage Yard
COC > Tier I Screening Level
(April, 2001)
Richards - Gebaur AFB, Kansas City, MO

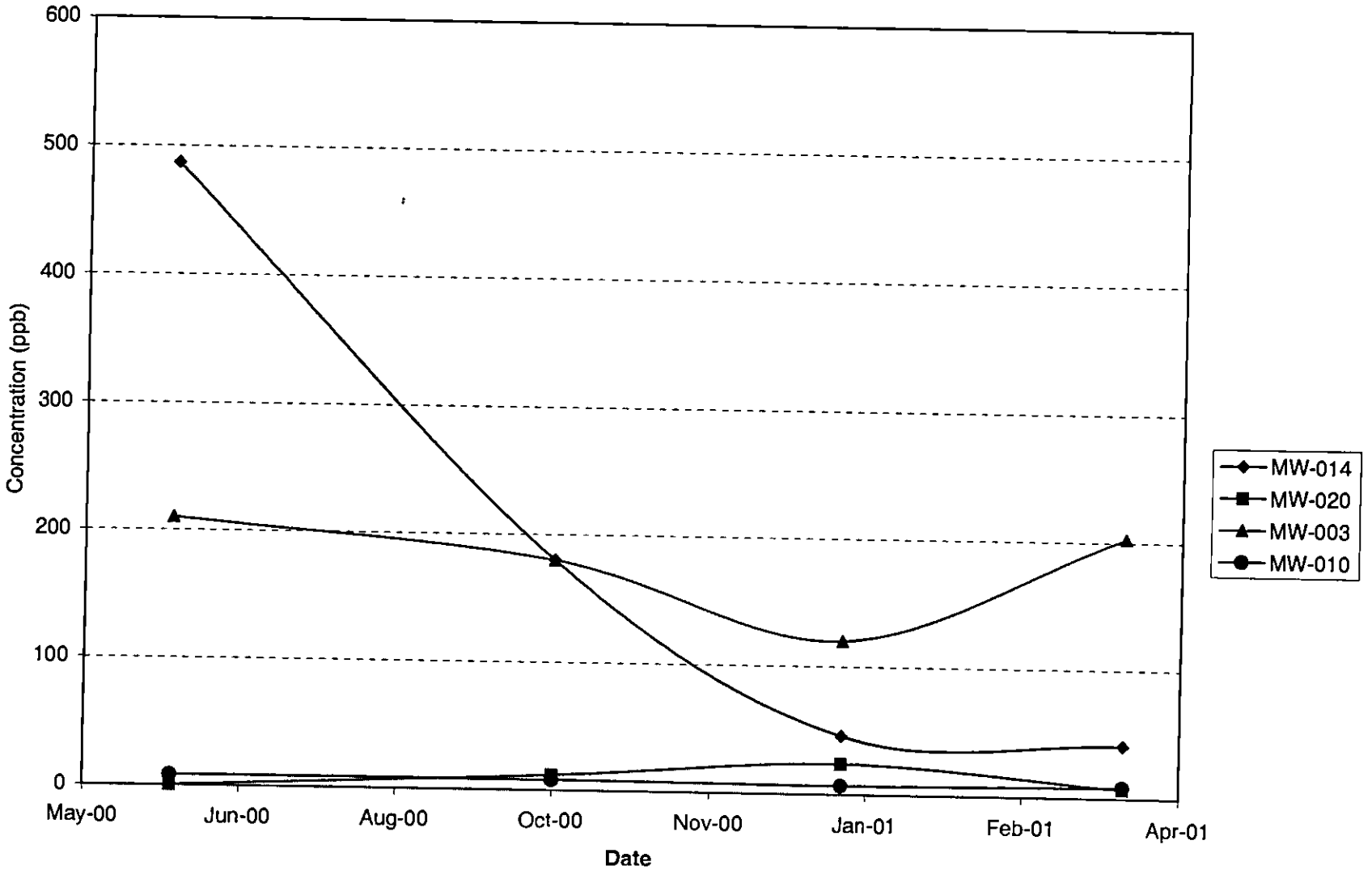


Figure 11: Temporal Trends of TCE in Groundwater at ST 005