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# QUARTERLY GROUNDWATER MONITORING AND GROUNDWATER REMEDIATION PROGRESS REPORT IPM COMPANY SITE ILD085352474/RCRA CLOSURE

**KEARNEY-NATIONAL, INC.**

**IPM COMPANY SITE**

**DES PLAINES, ILLINOIS**

**DAI Project No. 6330**

**Prepared for: Illinois Environmental Protection Agency**

**Prepared by: DePaul & Associates, Inc.**

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# 1.0 INTRODUCTION

## 1.1 BACKGROUND

International Products and Manufacturing Company (IPM) maintained an underground spill containment tank and chemical storage room at a facility in Des Plaines, Illinois. In September 1988, IPM engaged the services of ASI Environmental Technologies (ASI) to remove the underground spill containment tank. During the tank excavation, volatile organic compound (VOC) contamination, principally trichloroethylene (TCE), was identified in the surrounding soils and groundwater. IPM further engaged ASI to conduct a subsurface remedial investigation, prepare a closure plan, and implement corrective actions in accordance with Resource Conservation and Recovery Act (RCRA) regulations as required by the Illinois Environmental Protection Agency (IEPA). The results of the remedial investigation and the design of the soil and groundwater remediation system were presented to IEPA by ASI. As part of the containment tank closure plan, ASI installed a groundwater remediation system at the site. A site plan of the IPM facility is provided in Figure 1. Site-specific groundwater cleanup objective levels were set by IEPA in the closure plan approval letter dated November 30, 1992, and are presented in Table 1.

**TABLE 1. GROUNDWATER CLEANUP OBJECTIVE LEVELS ($\mu$g/L)**

| CONTAMINANT | CLEANUP OBJECTIVE LEVEL | CONTAMINANT | CLEANUP OBJECTIVE LEVEL |
|---|---|---|---|
| Trichloroethylene | 25.0 | 1,1,1,2-Tetrachloroethane | 210.0 |
| Tetrachloroethylene | 25.0 | 1,1,2-Trichloroethane | 25.0 |
| trans-1,2-Dichloroethylene | 500.0 | 1,1,1-Trichloroethane | 1,000.0 |
| cis-1,2-Dichloroethylene | 200.0 | Xylenes (total) | 10,000.0 |
| Vinyl Chloride | 10.0 | Ethylbenzene | 1,000.0 |
| Carbon Tetrachloride | 25.0 | Toluene | 5,000.0 |

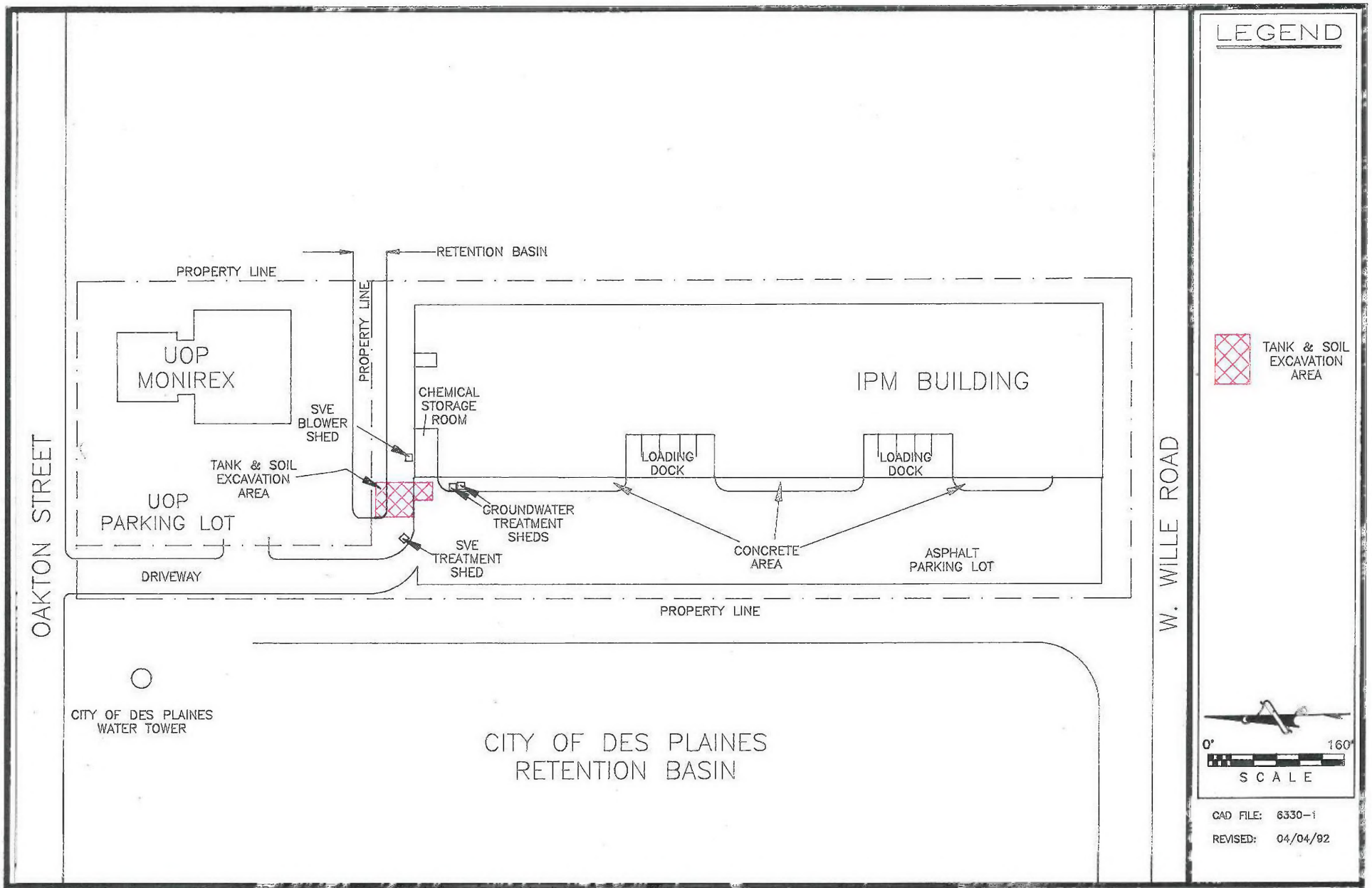


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FIGURE 1
SITE PLAN

IPM has ceased operations at the Des Plaines site and vacated the premises. Kearney-National Inc., (Kearney), the parent company of IPM and current property owner, has assumed responsibility for the remediation and has engaged DePaul & Associates, Inc. (DAI) to supervise the corrective actions at the site, and to complete the site closure and post-closure activities.

### 1.2 QUARTERLY REPORTING REQUIREMENTS AND OBJECTIVES

In the November 30, 1992, closure plan approval letter, the IEPA required that quarterly progress reports be submitted. "Each quarterly report shall contain an assessment of the effectiveness of the corrective action program to reduce groundwater contaminant concentration and prevent further migration of the contaminant plume(s). At a minimum, these reports should include an assessment of the extent of groundwater contamination and the rate of plume migration (spreading or shrinking)."

This quarterly report is being submitted in compliance with IEPA's requirement for quarterly reports on the progress of the groundwater corrective action. The objectives of this quarterly progress report are as follows:

- Summarize the most recent groundwater monitoring results, and compare them to the previous quarter results,
- Summarize the operation of the groundwater extraction system, and
- Provide a current assessment of the effectiveness of the groundwater corrective actions.

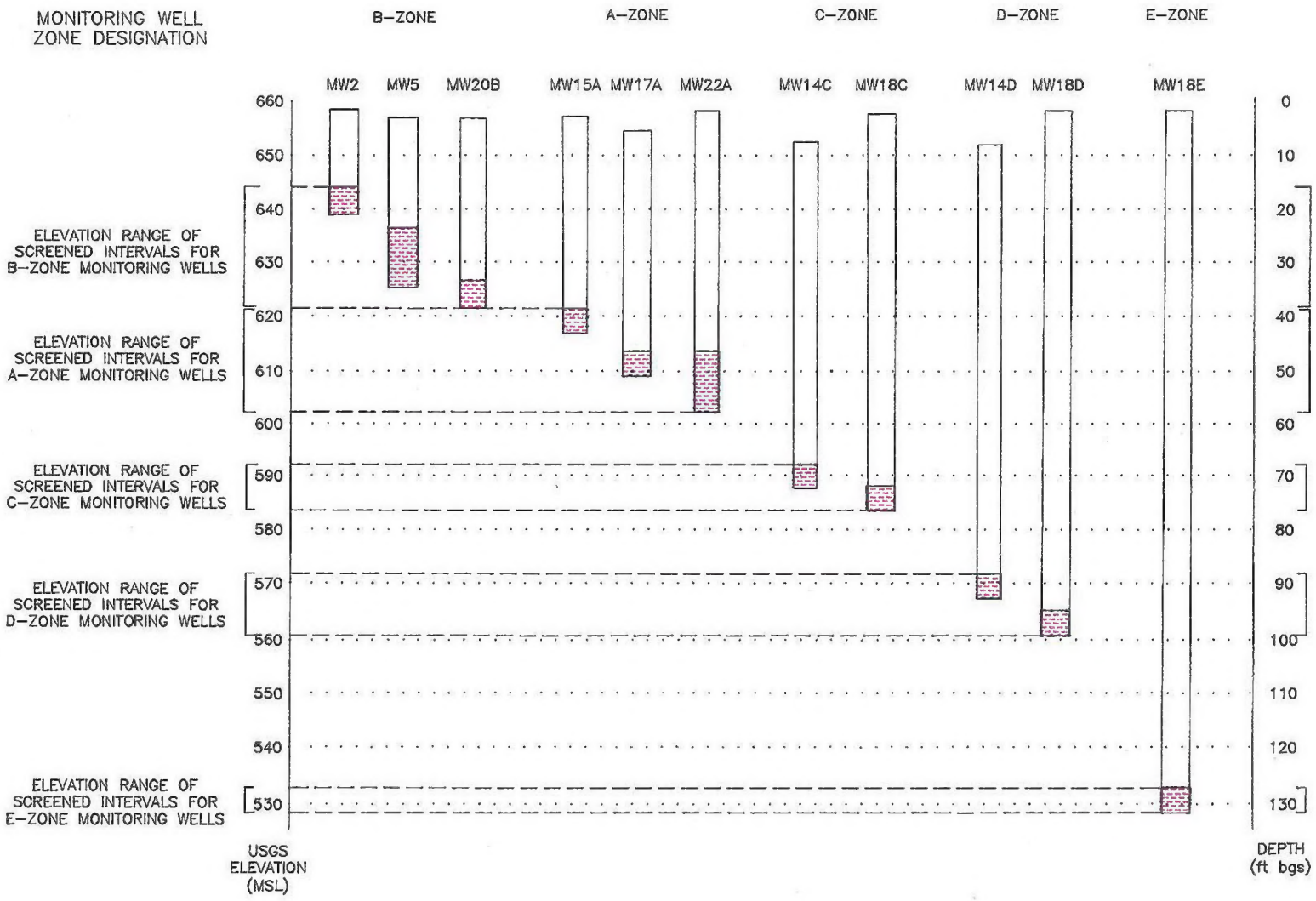
## 2.0 GROUNDWATER MONITORING AND REMEDIATION SYSTEMS

### 2.1 GROUNDWATER MONITORING SYSTEM

**2.1.1 Groundwater Monitoring Wells**: To determine the extent of groundwater contamination, ASI installed forty-two (42) groundwater monitoring wells in the area surrounding the former spill containment tank. ASI interpreted the subsurface stratigraphy to consist of three distinct hydrogeological units. These units were described as the Upper Formation, the Lower Formation,

and the Fractured Limestone Formation (bedrock). Monitoring wells were screened at variable depths to determine the extent of contamination in each unit. Based on the depths of the monitoring well screened intervals, four monitoring well zones were designated by ASI as the B-Zone (Upper Formation), the A-Zone and C-Zone (Lower Formation), and the D-Zone (Fractured Limestone Formation). In the closure plan approval letter dated June 26, 1991 (revised July 10, 1991), the IEPA requested that additional deep monitoring wells be installed to determine the lateral and vertical extent of groundwater contamination in the fractured limestone. In response to this request, three additional D-Zone monitoring wells were installed under the supervision of DAI. Monitoring well MW-18D was completed on January 28, 1992, and monitoring wells MW-28D and MW-29D were completed on August 21, 1992. Visual classification of soil samples collected from MW-18D, MW-28D, and MW-29D by DAI indicated that the soils in the D-Zone were not fractured limestone, but could be better classified as silty-clays with limestone fragments. The presence and angularity of the limestone fragments in the D-Zone soils suggested that the D-Zone was underlain by a limestone bedrock unit. This was later confirmed by subsequent installation of bedrock monitoring well MW-18E. Therefore, DAI will refer to the D-Zone as the bedrock/overburden interface zone.

Table 2 summarizes the monitoring well designations and the typical screened interval for each monitoring well zone. A summary of well construction information for all monitoring wells is provided in Appendix A. Figure 2 provides a cross-sectional view of representative monitoring wells from each of the five monitoring well designations. The location of all monitoring wells is provided in Figure 3.




LEGEND

SCREENED INTERVAL

CAD FILE: 6330SECT

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FIGURE 2
CROSS SECTIONAL VIEW OF SELECTED MONITORING WELLS

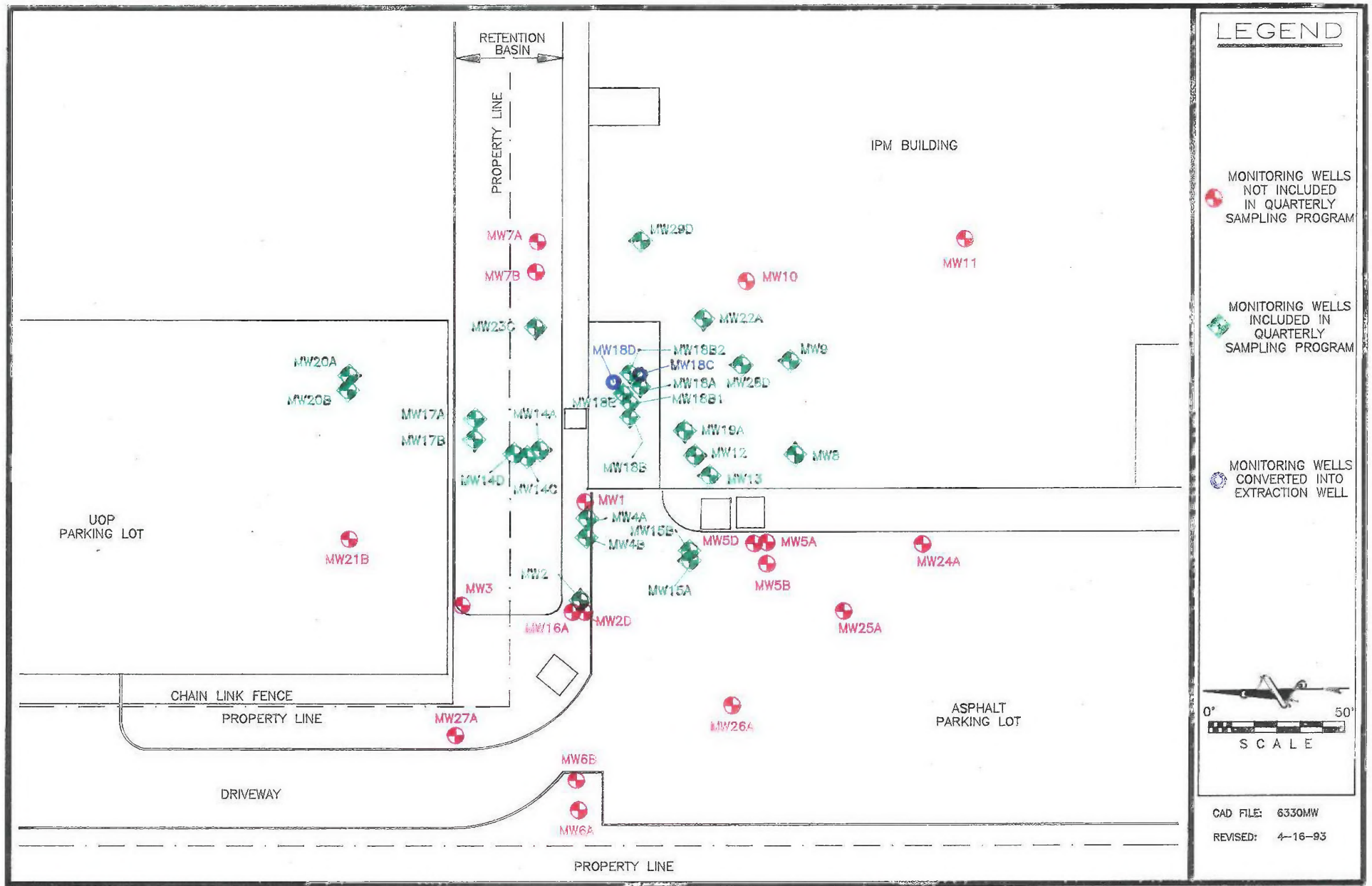


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FIGURE 3
MONITORING WELL LOCATIONS

TABLE 2. GROUNDWATER MONITORING WELLS

| Monitoring Well Designation | Typical Screened Interval (ft bgs) |
|---|---|
| B-Zone | 15-25 |
| A-Zone | 45-50 |
| C-Zone | 60-70 |
| D-Zone | 90-95 |
| E-Zone | 127-132 |

**2.1.2 Groundwater Sampling:** The approved groundwater monitoring program specifies quarterly groundwater sampling and analysis from selected monitoring wells, and annual sampling and analysis from each of the monitoring wells. In the closure plan approval letter dated November 30, 1992, the IEPA required that twenty-six (26) of the monitoring wells, along with any newly installed monitoring wells, be sampled on a quarterly basis and analyzed for groundwater contaminants using EPA SW-846 Methods 8010. The monitoring wells included in the quarterly groundwater sampling program are listed in Table 3.

TABLE 3. QUARTERLY GROUNDWATER SAMPLING PROGRAM

| WATER-BEARING ZONE | | | | |
|---|---|---|---|---|
| Upper | | Lower | | D,E-Zones |
| MW-2<br>MW-4B<br>MW-8<br>MW-9<br>MW-12<br>MW-13 | MW-15B<br>MW-17B<br>MW-18B<br>MW-18B1<br>MW-18B2<br>MW-20B | MW-4A<br>MW-14A<br>MW-15A<br>MW-17A<br>MW-18A<br>MW-19A | MW-20A<br>MW-22A<br>MW-14C<br>MW-18C<br>MW-23C | MW-14D<br>MW-28D<br>MW-29D<br>MW-18E |

In compliance with the quarterly monitoring requirements, groundwater samples from the monitoring wells indicated in Table 3 were collected by DAI on October 20 and 21, 1993. The monitoring wells were purged prior to sampling. The B-Zone monitoring wells were purged

using disposable PVC bailers while all other monitoring wells were purged using an electric submersible purge pump. The purge pump was decontaminated prior to introduction into each well by scrubbing and rinsing using an Alconox and water solution, followed by a triple rinse with tap water. Groundwater samples were collected from all of the monitoring wells using dedicated disposal PVC bailers. Samples were collected in duplicate from each well in 40-ml VOC vials, and immediately stored on ice for subsequent transport to Great Lakes Analytical Laboratory of Buffalo Grove, Illinois, following standard chain-of-custody procedures. Submitted groundwater samples were analyzed for Halogenated Volatile Organic Compounds using EPA SW-846 Method 8010. A second set of duplicate samples were also collected from selected monitoring wells and submitted for analysis. The IEPA Chemical Analysis Forms summarizing the results of the most recent groundwater sample analyses are provided in Appendix B and copies of the laboratory reports are included in Appendix C. Tables summarizing the results of all groundwater sampling and analysis by SW-846 Method 8010, including the results of the October 1993 sampling event, are provided in Appendix D.

Static water level measurements were taken from each of the monitoring wells (prior to well purging) on October 19, 1993, with the exceptions of MW-18C, MW-18D and MW-18E, which are being used as groundwater extraction wells. Static water level measurements were made using an electronic water level indicator. The static water level elevations were calculated from the depth to static water measurements and the surveyed well casing elevations. A table summarizing the static water level measurements and calculated elevations is provided in Appendix E.

## 2.2 GROUNDWATER REMEDIATION SYSTEM

**2.2.1 Groundwater Recovery Wells**: To remediate the contaminated groundwater, ASI designed a multiple well groundwater recovery and treatment system. The system consisted of twenty-one recovery wells and was designed to recover contaminated groundwater to a depth of approximately 75-ft bgs. None of the recovery wells were screened in the D-Zone. Analysis of the groundwater sample collected from MW-18D on February 20, 1992, indicated contamination above the cleanup objective levels in the D-Zone groundwater at this location. Therefore, on

March 19, 1992, DAI proposed to IEPA that monitoring well MW-18D be converted to a recovery well. On March 23, 1992, Eric Minder and Geordie Smith of the IEPA gave verbal approval for groundwater extraction from MW-18D. Extraction from MW-18D began on April 22, 1992. In May 1993, monitoring well MW-18C was converted into a groundwater extraction well by installing within the well a 2-inch diameter submersible extraction pump. Groundwater is also being periodically extracted from monitoring well MW-18E to develop a program of intermittent extraction of E-Zone groundwater. The groundwater from MW-18E is extracted using a 2-inch diameter electric submersible sampling pump. All recovered groundwater is treated through the existing groundwater treatment system prior to discharge. The location of the groundwater recovery wells are given in Figure 4. A table summarizing the groundwater recovery well construction details is provided in Appendix F.

**2.2.2 Groundwater Recovery and Treatment System Design:** Groundwater is extracted from the recovery wells using either electrical submersible pumps or air pneumatic driven bladder pumps. The groundwater pumps are operated intermittently, because the groundwater recovery yields from the recovery wells are generally not adequate to allow continuous operation of the extraction pumps. The electric submersible pumps are controlled using individual load sensors coupled with timers. The load sensor interrupts power to the pump when the extraction well is purged. The pumps are then re-started by a timer located within the pump controller. The air pneumatic pumps are controlled by a timer which regulates the period between fill and purge cycles. Run-time meters connected to the electrical pumps record the cumulative operating hours of each electrical submersible pump.

Extracted groundwater from the twenty-three recovery wells is combined through a manifold to an equalization tank and pumped through granular activated carbon adsorption units for treatment. The activated carbon adsorption system consists of two activated carbon canisters operated in series. The treated groundwater is discharged to the City of Des Plaines storm water retention basin located immediately east of the IPM Company site. A National Pollutant Discharge Elimination System (NPDES) permit for the discharge of the treated groundwater was granted by IEPA in August 1990. The conditions of the NPDES permit require continuous discharge

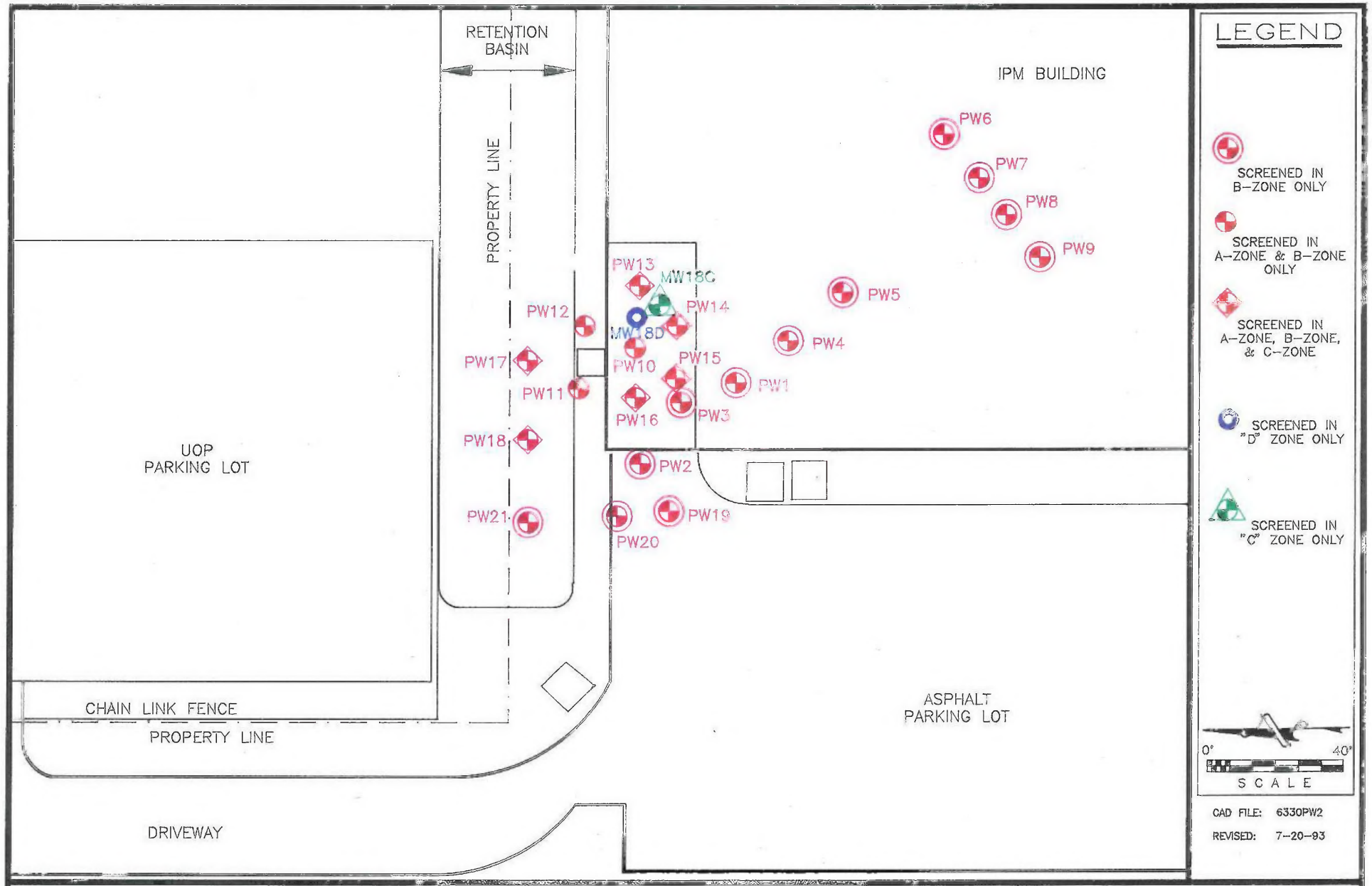


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FIGURE 4
GROUNDWATER RECOVERY WELLS

flow monitoring, weekly monitoring of discharge pH, and monthly monitoring of halogenated and aromatic volatile organic compounds using EPA SW-846 Methods 8010 and 8020.

**2.2.3 Groundwater Recovery and Treatment System Operation:** Operation of the groundwater remediation system was initiated in January 1991 and additional recovery wells were activated in February 1991, September 1991, April 1992, and May 1993. The groundwater recovery system flowrate has ranged from approximately 300-gpd to 5,000-gpd. The groundwater recovery system is currently (January 1994) extracting approximately 2,500-gpd. Approximately 1,850,000-gallons of groundwater have been extracted and treated as of January 18, 1994. Figure 5 summarizes the cumulative extracted groundwater volume since start-up in January 1991.

To monitor the rate of activated carbon usage and treatment system efficiency, groundwater samples are collected at least once a month from the following sampling points:

- Influent to the first activated carbon unit (untreated groundwater)
- Between the two activated carbon units
- Effluent of the second activated carbon unit (treated groundwater)

Because the groundwater samples are collected after the equalization tank, these samples are composites of the groundwater recovered from the recovery wells. The TCE concentrations in the untreated groundwater samples have ranged from 75-$\mu$g/l (September 3, 1991) to 150,000-$\mu$g/l (August 5, 1992). From December 1990 through September 1991, the total chlorinated VOC concentrations in the recovered groundwater were generally observed to be below 1,000-$\mu$g/l. Between January 1993 and January 1994, the average TCE concentration observed at the influent to the groundwater treatment system has been 8,585-$\mu$g/l. A summary of the analytical results of the monthly groundwater treatment system sampling activities are presented in Appendix G. The treatment system influent flowrate and concentration data were used to estimate the contaminant mass recovered by the groundwater extraction system. The total contaminant mass

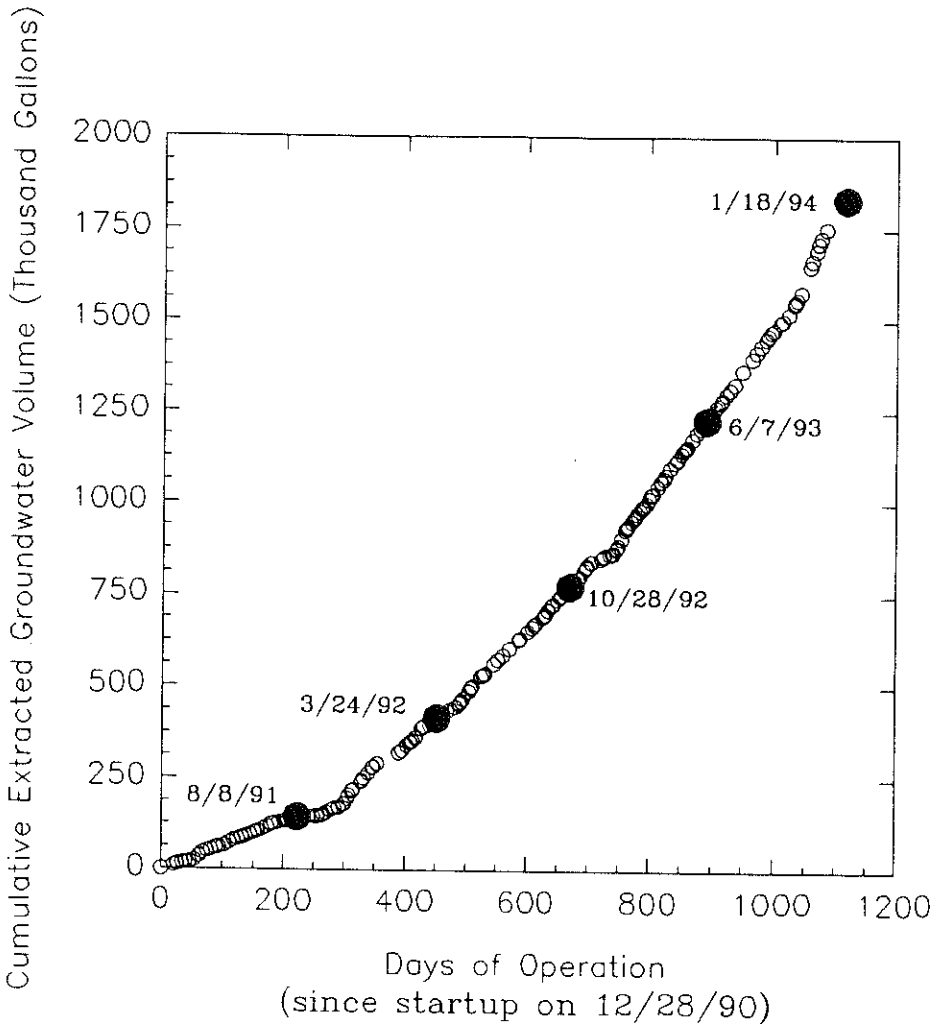


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FIGURE 5
CUMULATIVE EXTRACTED
GROUNDWATER VOLUME

recovered by the groundwater extraction system through January 7, 1994, is approximately 196.45-lbs. The contaminant mass recovery data are summarized in Figure 6.

## 3.0 ASSESSMENT OF GROUNDWATER REMEDIATION SYSTEM

### 3.1 OVERVIEW

To assess the effectiveness of the groundwater remediation system, the following information was evaluated:

- Groundwater contaminant concentrations observed in July 1993 and October 1993 were compared to determine the effect of groundwater recovery,
- Potentiometric surface data observed in July 1993 and October 1993 were reviewed to assess the effectiveness of groundwater recovery in plume containment, and;
- Groundwater contaminant concentrations observed between July 1992 and October 1993 were reviewed to determine the effect of groundwater recovery and to identify any trends in the monitoring well contaminant concentrations.

### 3.2 EVALUATION CRITERIA

The only groundwater contaminants observed at concentrations above the cleanup objective levels identified by IEPA have been chlorinated VOCs. Summary tables of the results of all groundwater analysis for chlorinated VOCs are provided in Appendix D. Although the principal groundwater contaminant is TCE, other chlorinated VOCs, such as tetrachloroethylene (PCE), dichloroethylene (DCE), and vinyl chloride (VC) have been observed. The DCE and VC in the groundwater are likely due to biotransformation of TCE in the subsurface (Vogel and McCarty, 1985). The source of the PCE in the groundwater is unknown, but PCE may have been present as an impurity in the TCE which was used at the site as a solvent. Because PCE and TCE can be biotransformed to other chlorinated hydrocarbons, such as DCE and VC, it is appropriate to quantify the groundwater contamination in terms of total chlorinated volatile organic compound (TCVOC) concentrations (generally taken as the sum of the observed PCE, TCE, DCE, and VC

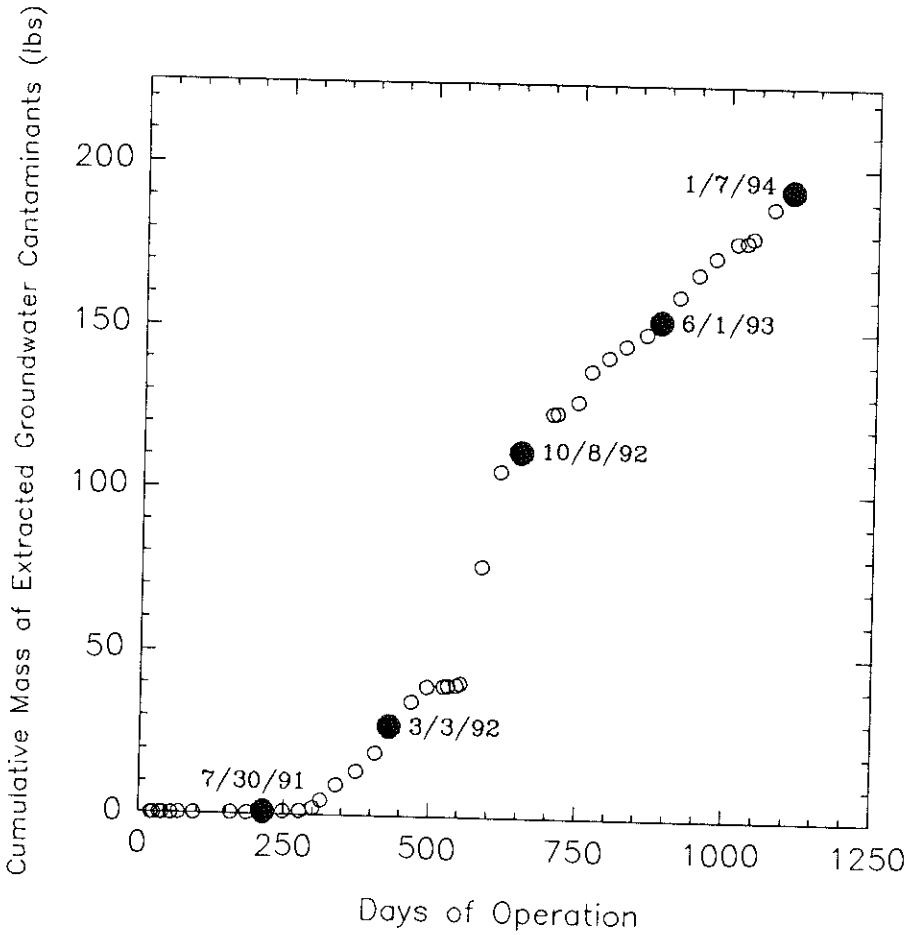


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FIGURE 6
CUMULATIVE MASS OF EXTRACTED
GROUNDWATER CONTAMINANTS

concentrations). The groundwater sampling and analysis results were depicted using TCVOC isoconcentration contours whenever feasible. To evaluate the effect of groundwater recovery on the extent of groundwater contamination, TCVOC isoconcentration contours developed using the October 1993 groundwater monitoring data were compared to TCVOC isoconcentration contours developed using the July 1993 data.

The potentiometric surface data from October 1993 and July 1993 were evaluated to determine the groundwater flow direction, and then compared to determine if any significant changes in the groundwater flow direction or groundwater flow velocities had occurred. Both sets of potentiometric surface maps are representative of the hydrogeological conditions during the operation of the groundwater recovery system (i.e. pumping).

**3.2.1 B-Zone Monitoring Wells:** The TCVOC isoconcentration contours based on the B-Zone (screened from approximately 15-ft to 25-ft bgs) groundwater monitoring well data from the October 1993 and July 1993 sampling events are presented in Figure 7 and Figure 8, respectively.

Comparison of the October 1993 and July 1993 data indicates decreasing contaminant concentrations at nearly all B-Zone monitoring wells, resulting in a shrinkage of the B-Zone contaminant plume. Most striking was the decrease in contaminant concentrations at monitoring well MW-4B, where the TCVOC concentrations decreased from 9,445-$\mu$g/L in July 1993 to 700-$\mu$g/L in October 1993. The only B-Zone monitoring wells to exhibit an increase in TCVOC concentration between July 1993 and October 1993 were MW-18B and MW-18B1, which are near the center of the B-Zone plume.

All historical groundwater monitoring data for the B-Zone monitoring wells are tabulated in Appendix D, and Figures 9 and 10 provide bar graphs of the TCVOC concentrations from July 1992 to October 1993 at the B-Zone monitoring wells that have exhibited the highest contaminant concentrations. The quarter to quarter variability in contaminant concentrations makes it difficult to identify trends at many of the monitoring wells. However, review of

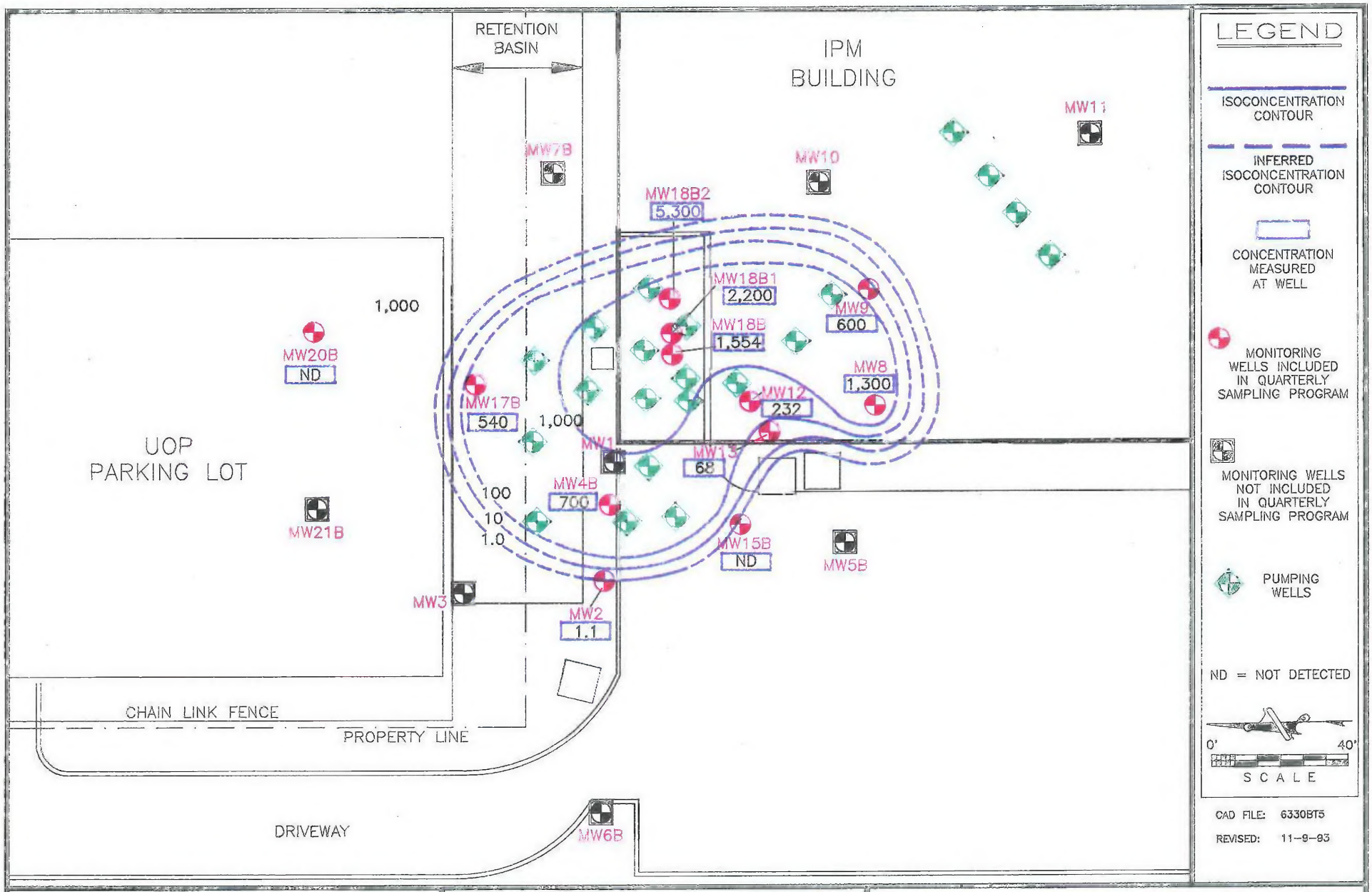


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FIGURE 7
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"B" WELLS – OCTOBER 1993

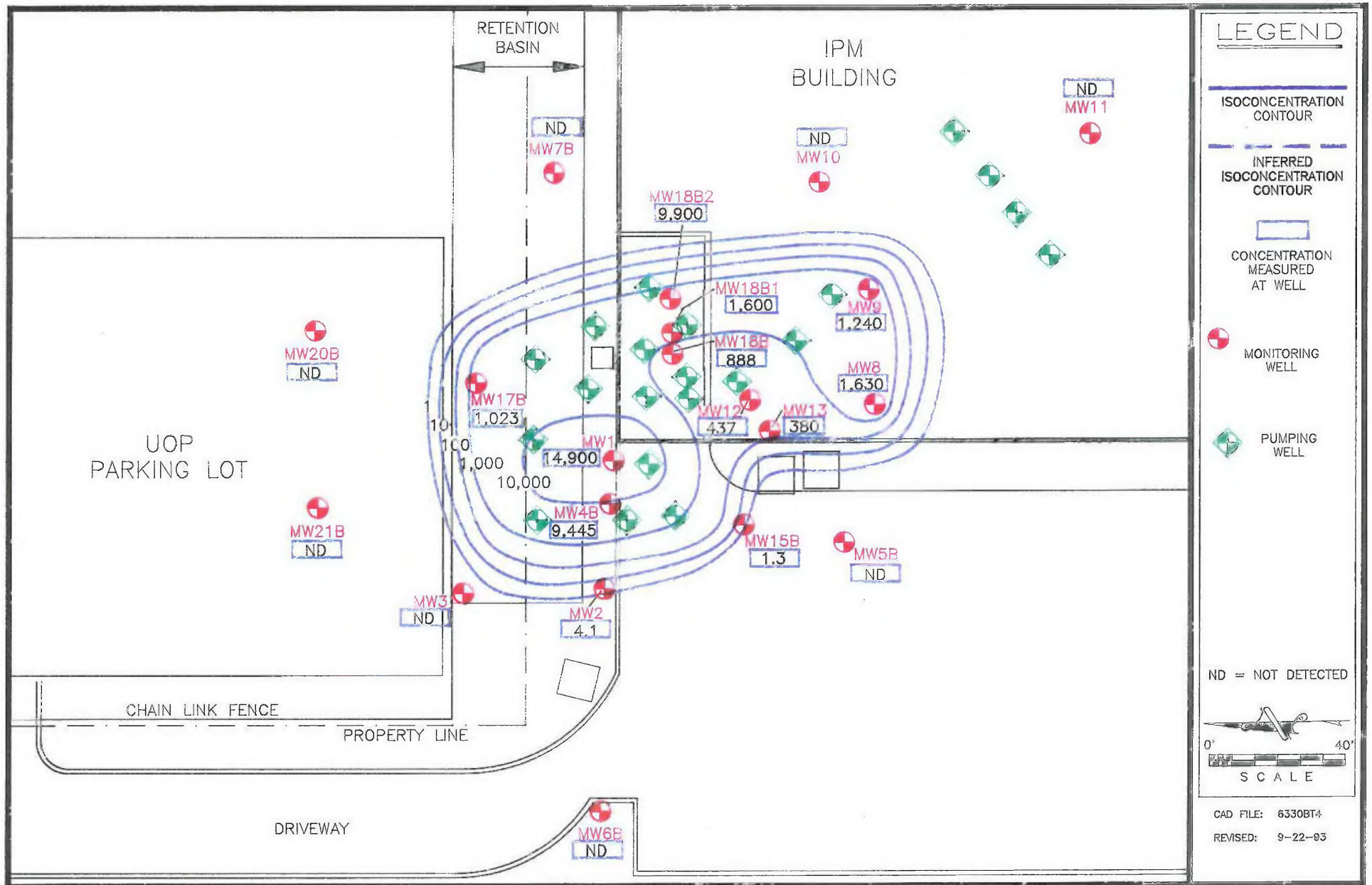


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FIGURE 8
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"B" WELLS – JULY 1993

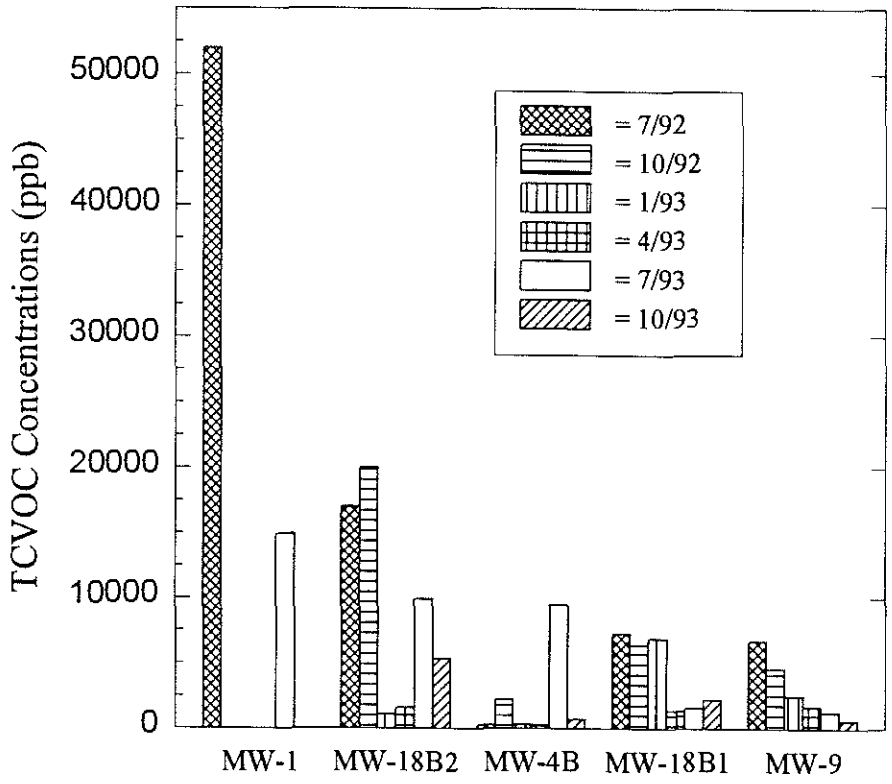


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FIGURE 9
TCVOC CONCENTRATIONS
"B" ZONE WELLS

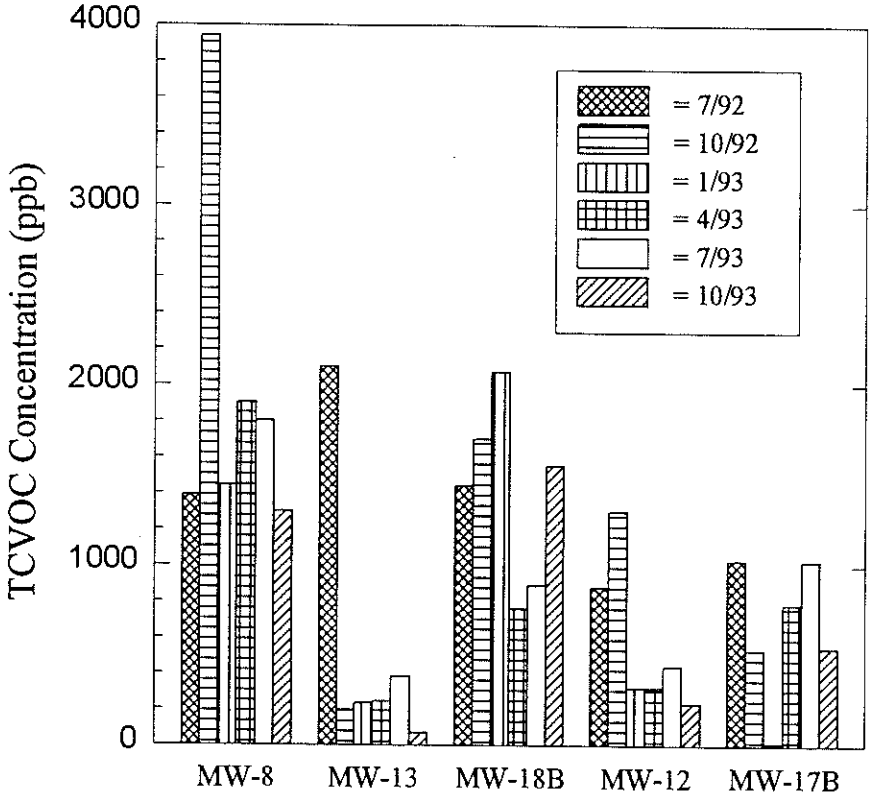


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FIGURE 10
TCVOC CONCENTRATIONS
"B" ZONE WELLS

Figures 9 and 10 indicates a trend of decreasing contaminant concentrations at monitoring well MW-9.

The October 1993 and July 1993 potentiometric surface maps for the B-Zone monitoring wells are shown in Figure 11 and Figure 12, respectively. Both figures indicate a predominant B-Zone groundwater flow direction of southeast. The potentiometric surface data indicates the groundwater extraction system is effectively controlling the lateral groundwater flow within the B-Zone contaminant plume.

The groundwater recovery system approved by IEPA in the September 27, 1991, closure plan approval letter, included twenty-three (23) groundwater recovery wells. Only twenty-one of these originally proposed recovery wells were installed because permission to install the final two recovery wells at the proposed off-site locations was never secured. The two additional recovery wells (PW-22 and PW-23) were to be screened in the B-Zone only, and located just northeast and northwest of MW-17B. In the November 30, 1992, closure plan approval letter, the IEPA required that Kearney submit to the IEPA in the form of a closure plan modification, an "evaluation of the approved recovery system versus a recovery system excluding PW-22 and PW-23 and their respective abilities to capture and contain contaminants". This evaluation was submitted to the IEPA in the March 31, 1993, Closure Plan Modification. On June 17, 1993, the IEPA approved the closure plan modification (and the request to delete PW-22 and PW-23 from the approved groundwater recovery system) with the condition that statistical evaluation of contaminant concentrations at MW-17B be performed to verify that the northern extent of the B-Zone contaminant plume was being adequately captured by the existing groundwater remediation system.

The IEPA closure plan approval letter specified the Shewhart-Cusum control chart method (USEPA, 1989; Section 7) for monitoring the change in contaminant concentrations at MW-17B. This statistical method was applied to the historical groundwater monitoring data available (including the October 1993 data) for MW-17B. The result of this analysis showed no statistically significant evidence that contaminant concentrations at MW-17B are increasing with

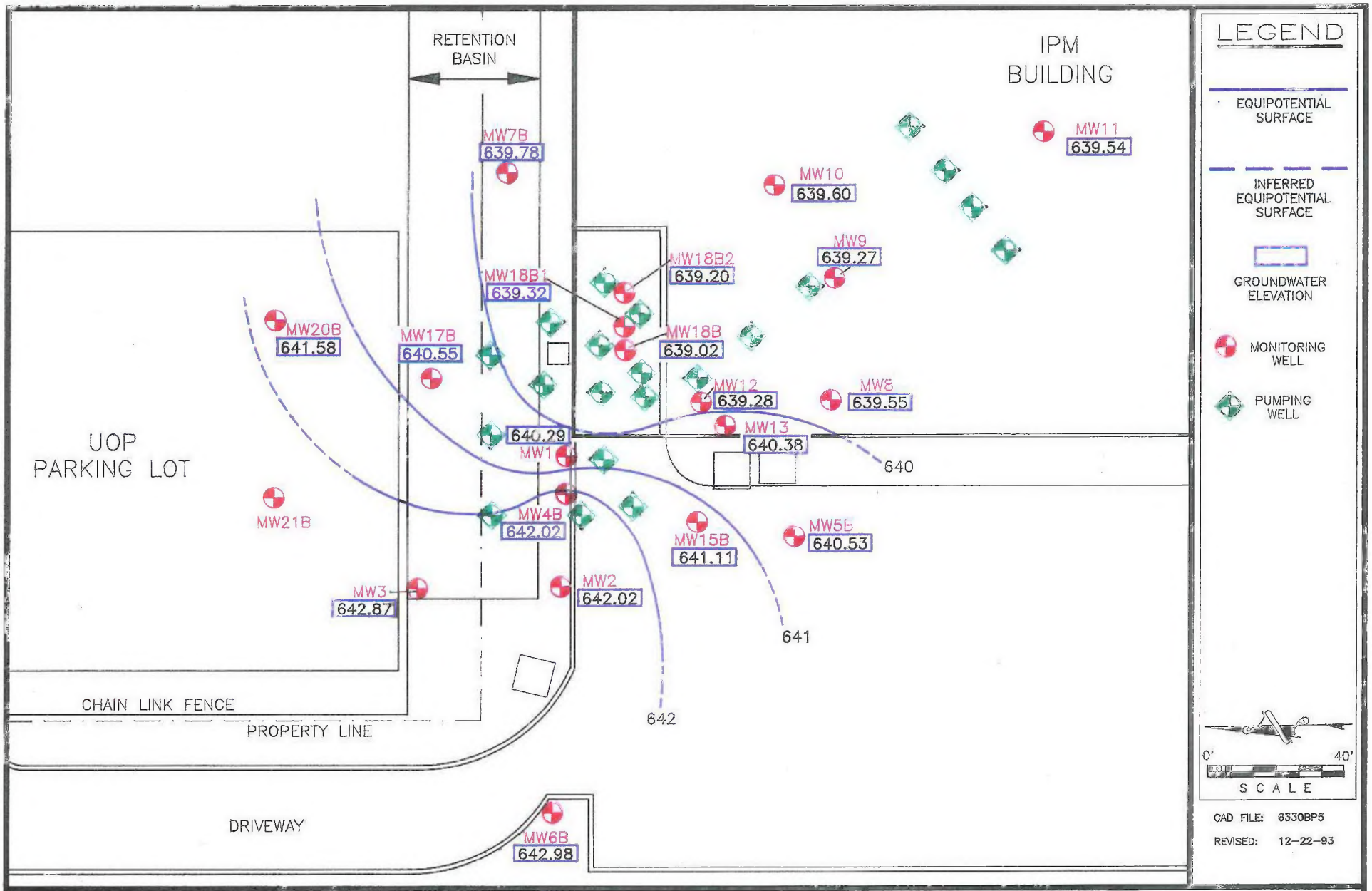


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FIGURE 11
POTENTIOMETRIC SURFACE
"B" WELLS – OCTOBER 1993

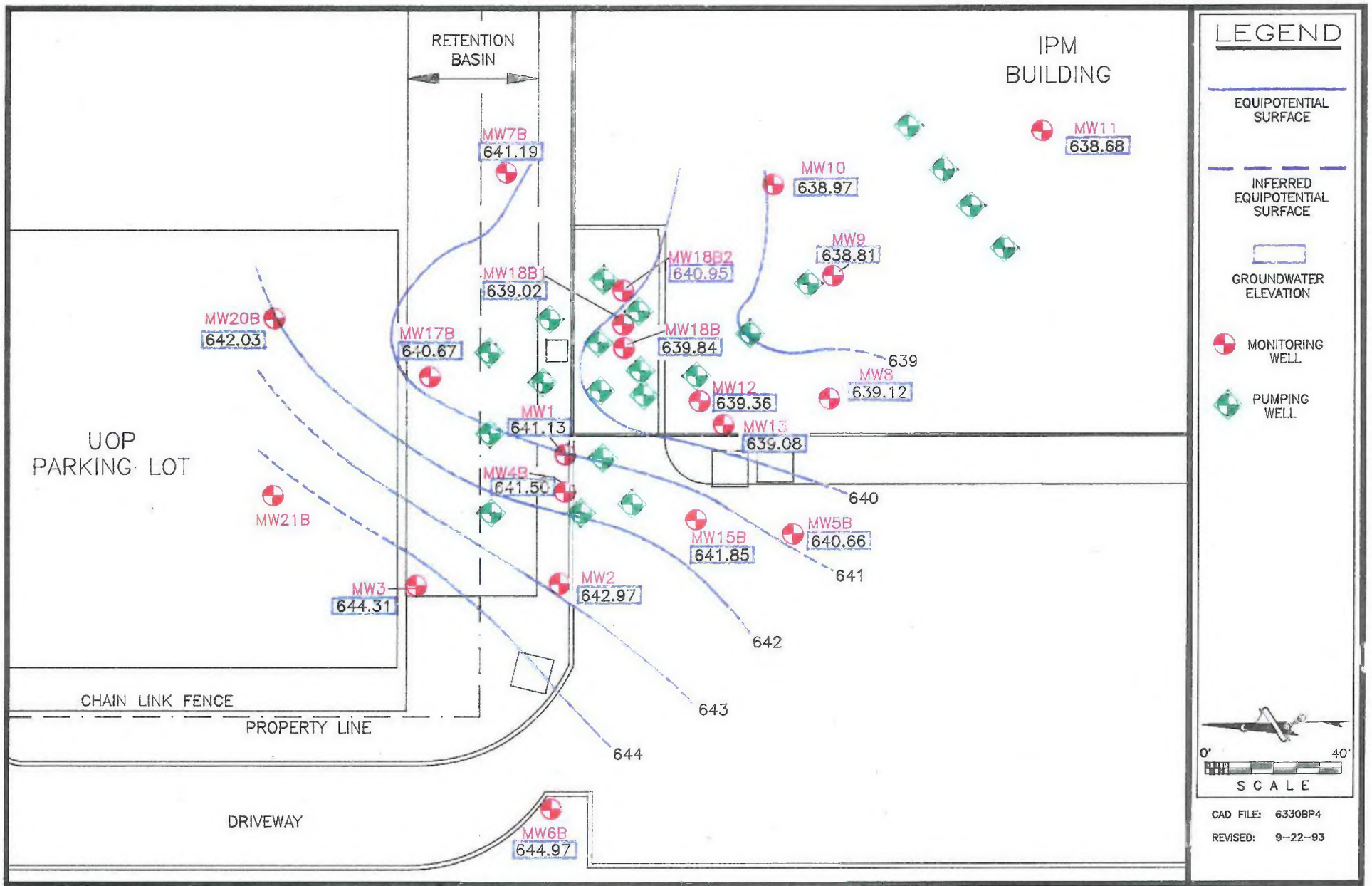


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FIGURE 12
POTENTIOMETRIC SURFACE
"B" WELLS – JULY 1993

time. The details of the application of the Shewhart-Cusum control chart method to the contaminant concentrations at MW-17B are provided in Appendix H.

**3.2.2 A-Zone Monitoring Wells:** The October 1993 and July 1993 TCVOC isoconcentration contours for the A-Zone (screened from 45-ft to 50-ft bgs) groundwater monitoring well data are presented in Figure 13 and Figure 14, respectively.

Comparison of the October 1993 and July 1993 A-Zone isoconcentration contours indicates shrinkage of the northern, eastern and southern edges of the A-Zone contaminant plume due to decreasing contaminant concentrations in monitoring wells MW17A, MW-22A, MW-18A, MW-19A and MW-15A. The significant reduction in contaminant concentrations at monitoring wells MW-14A and MW-19A resulted in a great reduction in the size of the 10,000-$\mu$g/L TCVOC contour at the center of the A-Zone contaminant plume. The only A-Zone monitoring well to exhibit an increase in contaminant concentrations between July 1993 and October 1993 was monitoring well MW-4A, where the TCVOC concentration increased from non-detectable concentrations to 0.52-$\mu$g/L.

Historical groundwater monitoring data for the A-Zone monitoring wells are tabulated in Appendix D. Bar graphs of the TCVOC concentrations between July 1992 and October 1993, at the A-Zone monitoring wells exhibiting the highest contaminant concentrations, are provided in Figures 15 and 16. The high degree of variability in the A-Zone monitoring well TCVOC concentrations over time makes it difficult to identify any trends in the data.

The October 1993 and July 1993 potentiometric surface maps for the A-Zone monitoring wells are provided in Figure 17 and Figure 18, respectively. Comparison of the figures indicate that the general shape of the potentiometric surface plots in October 1993 and July 1993 were similar, and that the potentiometric surface minima remained at MW-18A. Both A-Zone potentiometric surface plots indicate the groundwater extraction system is effectively controlling the lateral groundwater flow within the A-Zone contaminant plume, with minima in the potentiometric surface observed near the center of the A-Zone contaminant plume.

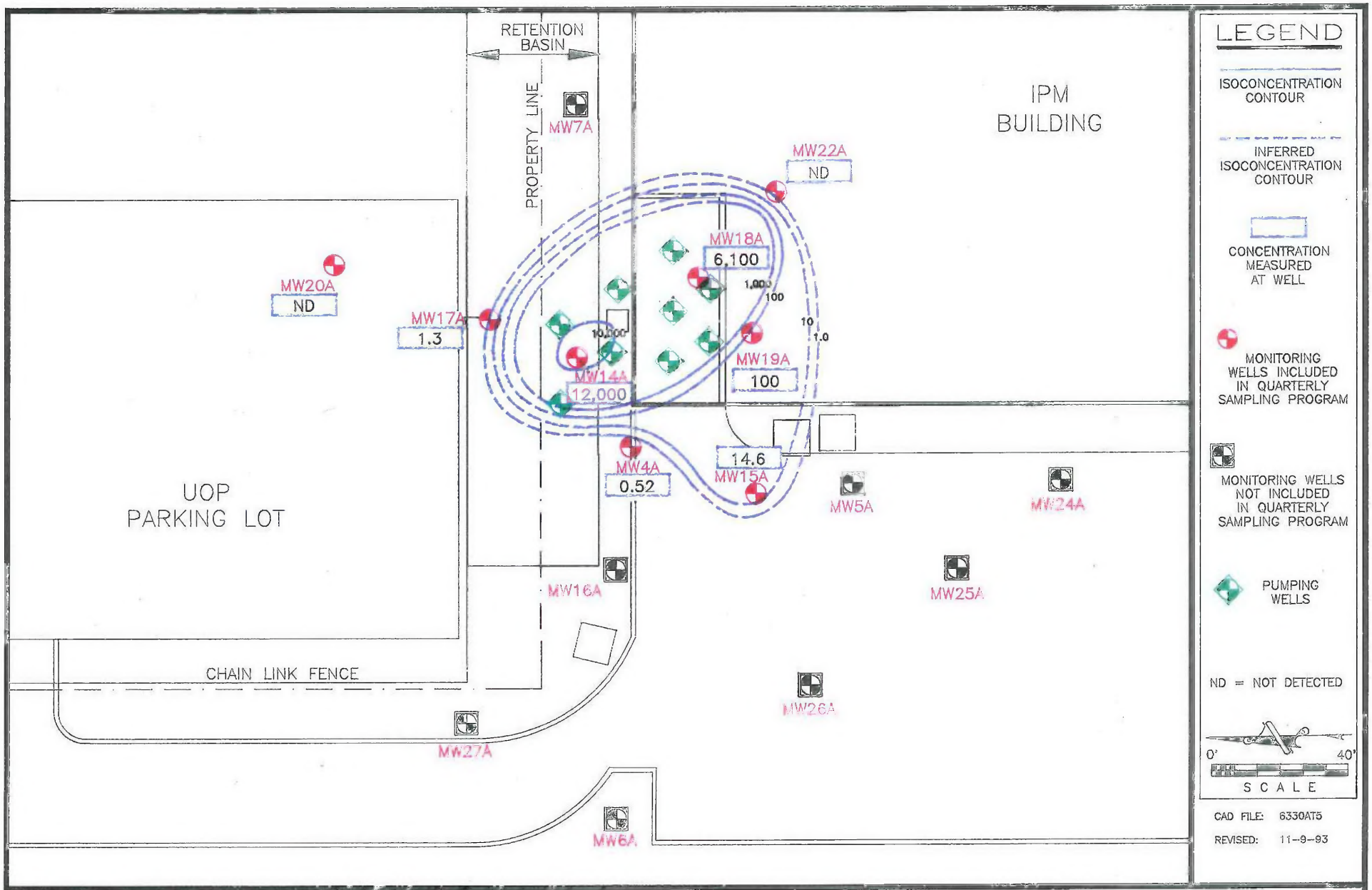


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FIGURE 13
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER (μg/L)
"A" WELLS – OCTOBER 1993

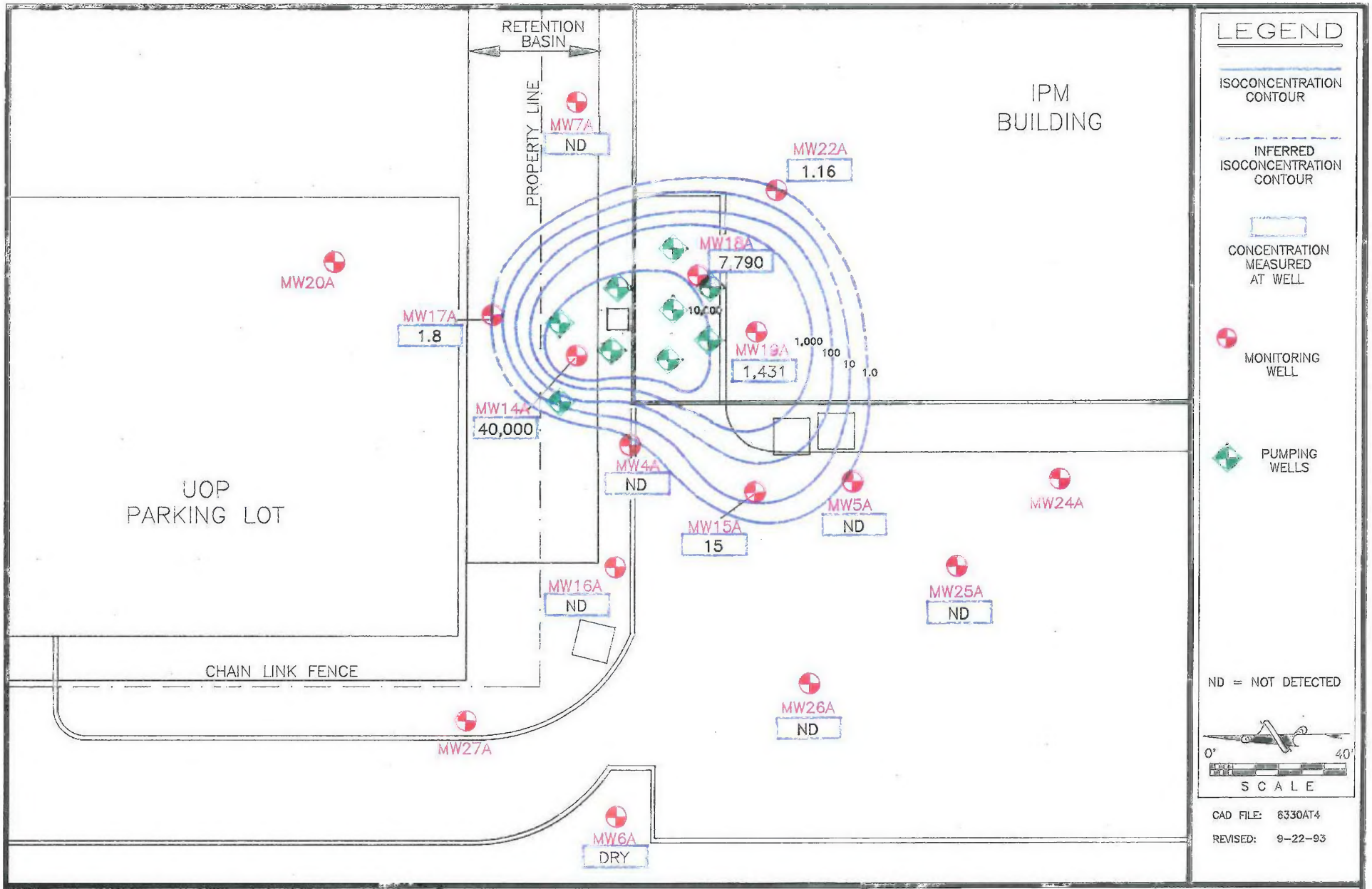


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FIGURE 14
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"A" WELLS – JULY 1993

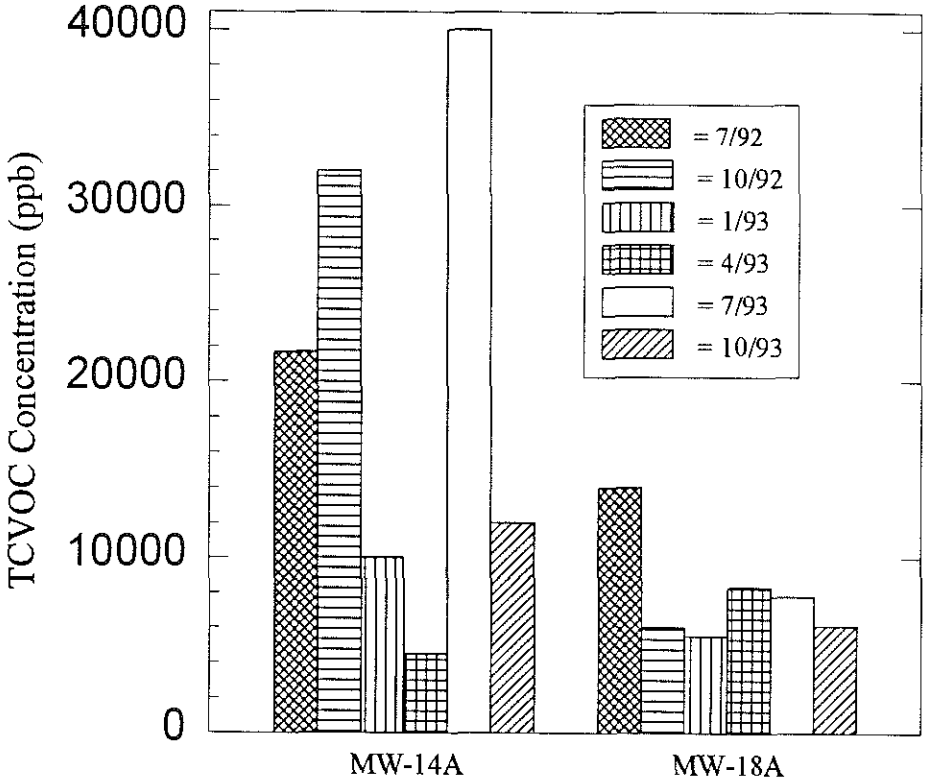


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FIGURE 15
TCVOC CONCENTRATIONS
"A" ZONE WELLS

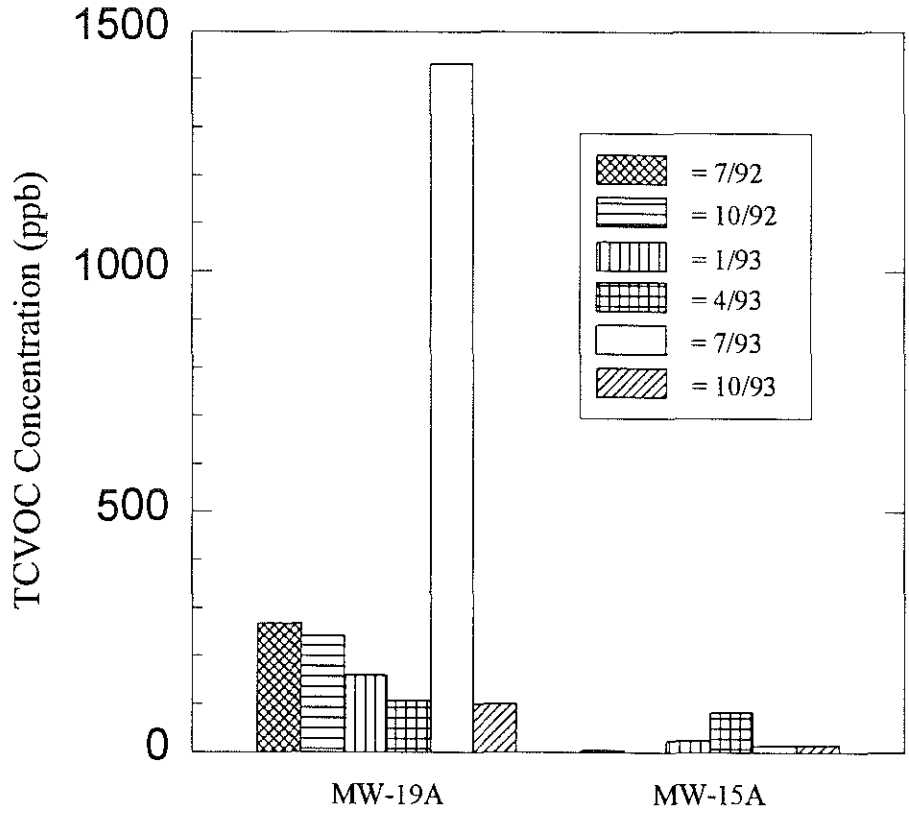


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FIGURE 16
TCVOC CONCENTRATIONS
"A" ZONE WELLS

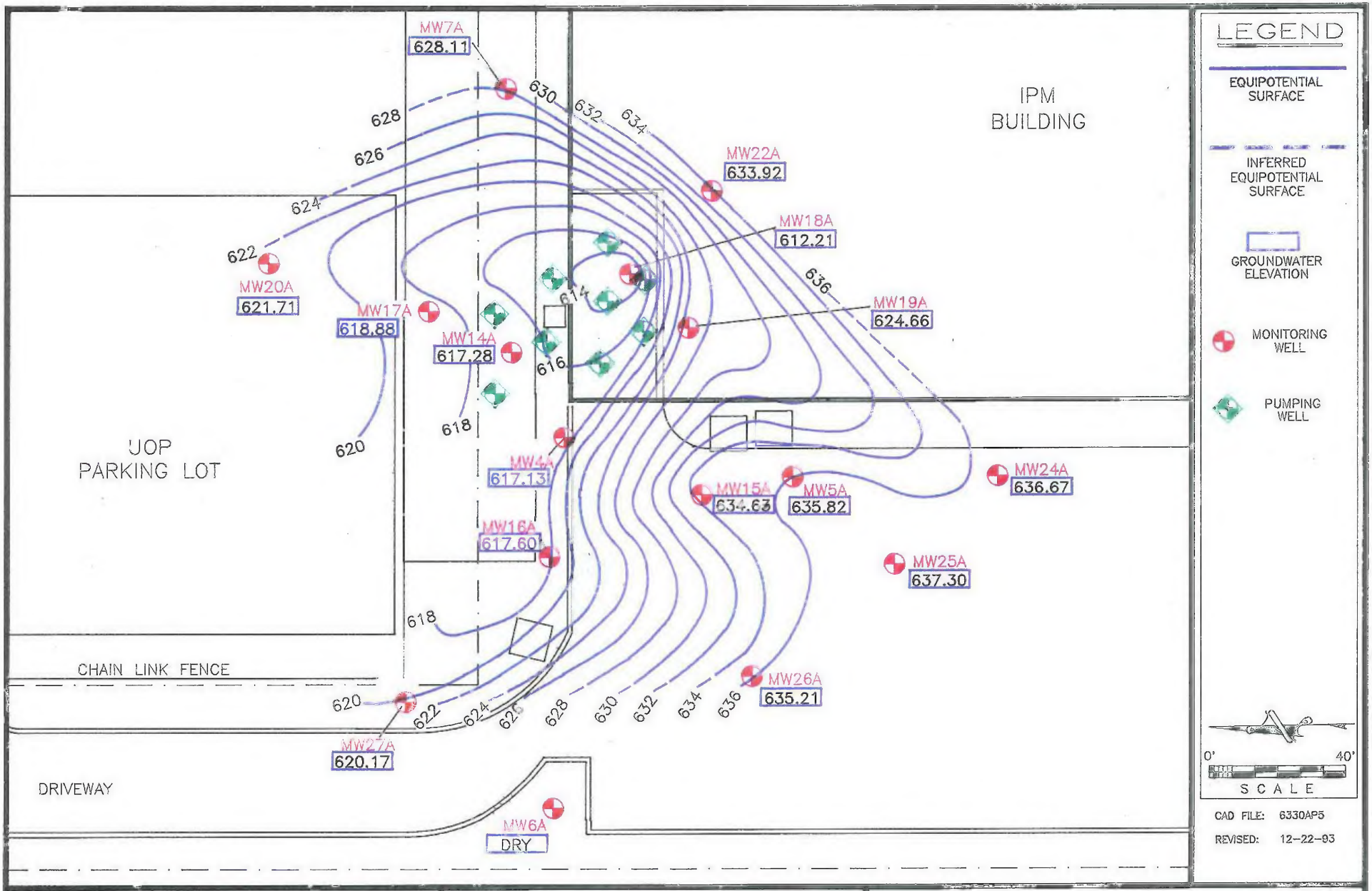


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FIGURE 17
POTENTIOMETRIC SURFACE
"A" WELLS – OCTOBER 1993

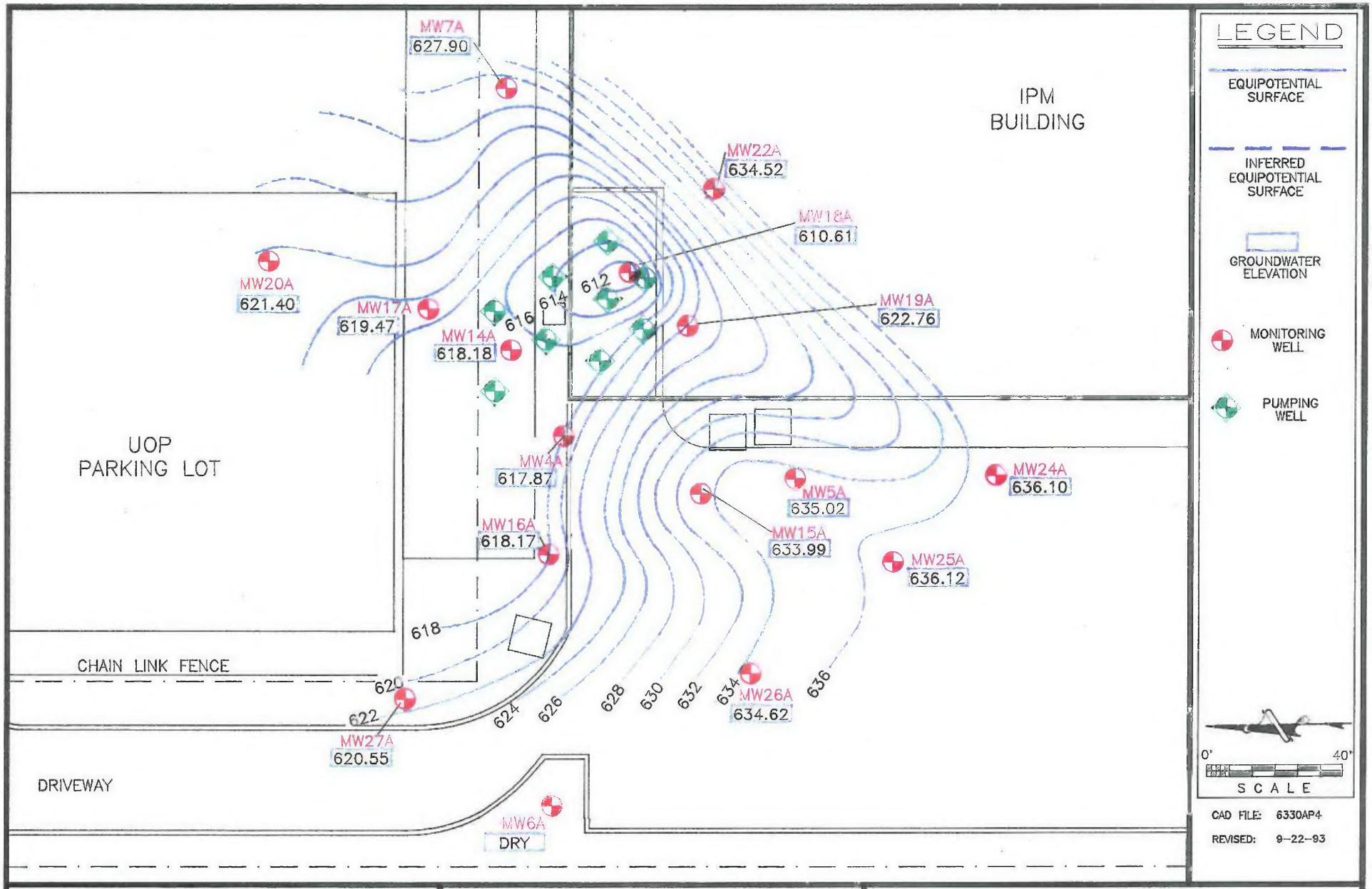


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FIGURE 18
POTENTIOMETRIC SURFACE
"A" WELLS – JULY 1993

**3.2.3 C-Zone Monitoring Wells:** Figure 19 and Figure 20 present the TCVOC concentrations observed in C-Zone monitoring wells (screened from 60-ft to 70-ft bgs) in October 1993 and July 1993, respectively. Increasing contaminant concentrations at all three C-Zone monitoring wells indicate an expansion of the C-Zone contaminant plume between July 1993 and October 1993. However, this apparent expansion should be viewed within the context of the typical quarter to quarter variability in observed contaminant concentrations.

All historical groundwater monitoring data for the C-Zone wells are tabulated in Appendix D, and Figure 21 provides bar graphs of the TCVOC concentrations at C-Zone monitoring wells exhibiting the highest contaminant concentrations, between July 1992 to October 1993. Inspection of Figure 21 indicates no obvious trends in the C-Zone monitoring well contaminant concentrations with time.

The potentiometric surface maps for the C-Zone monitoring wells in October 1993 and July 1993 are depicted in Figures 22 and 23, respectively. Note that these potentiometric surface plots are based upon an assumed static water elevation of 590.53 at MW-18C. This static water level elevation assumes a static water level 1-ft above the top of the screened interval, which is consistent with the location of the extraction pump at a depth of 74-ft bgs (the extraction pump is controlled to pump at a rate which meets or exceeds the recovery yield of the well). Both potentiometric surface plots indicate a groundwater flow direction of south, controlled by the extraction of groundwater at MW-18C.

**3.2.4 D-Zone Monitoring Wells:** The October 1993 and July 1993 TCVOC isoconcentration contours for the D-Zone monitoring wells are presented in Figure 24 and Figure 25, respectively. Decreasing contaminant concentrations at five of the six D-Zone monitoring wells (with the remaining monitoring well exhibiting no change) resulted in a shrinkage of the D-Zone contaminant plume between July 1993 and October 1993. The center of the D-Zone contaminant plume remains MW-18D, where TCVOC concentrations decreased from 792-$\mu$g/L in July 1993 to 140-$\mu$g/L in October 1993.

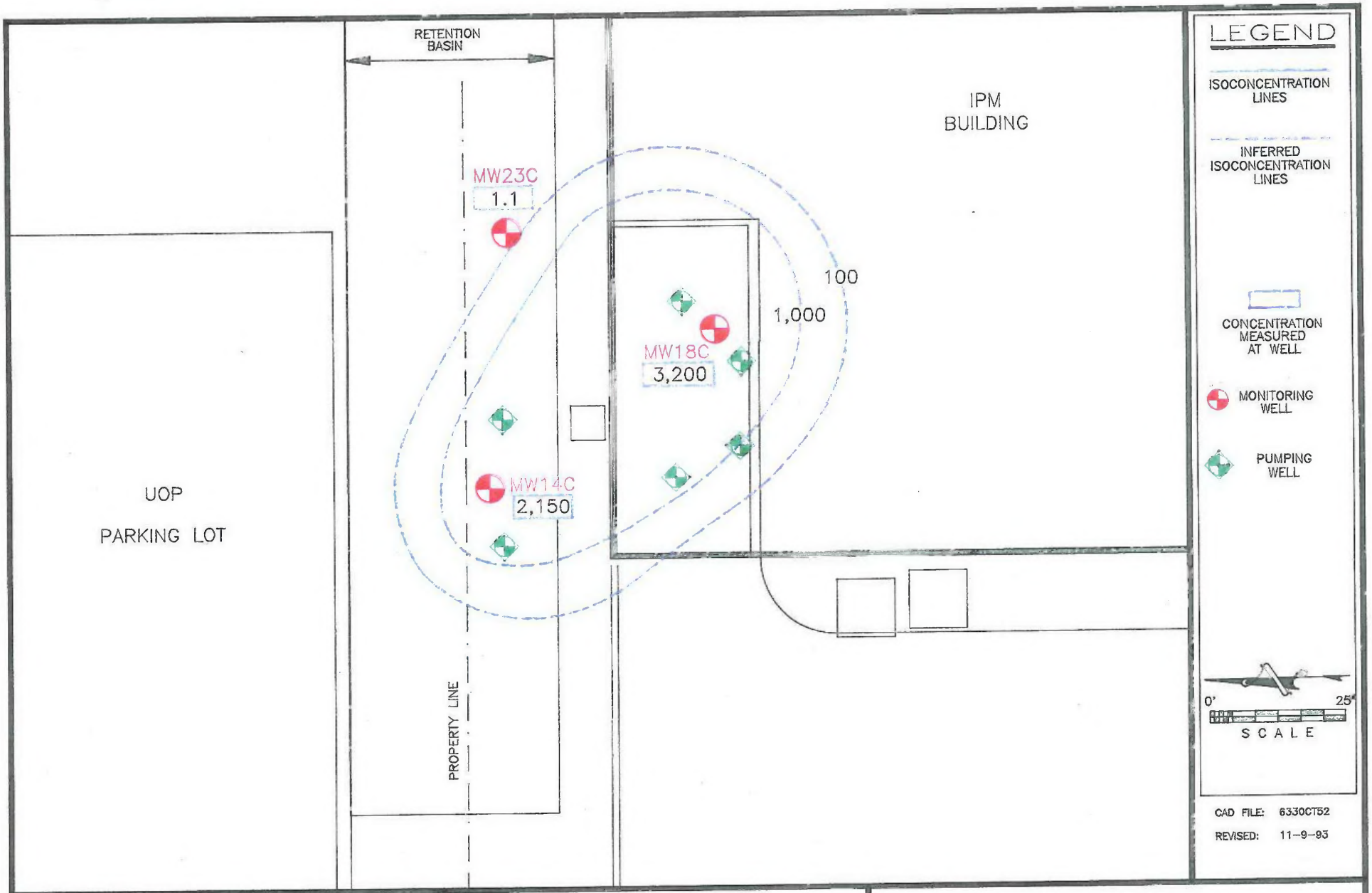


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FIGURE 19
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"C" WELLS - OCTOBER 1993

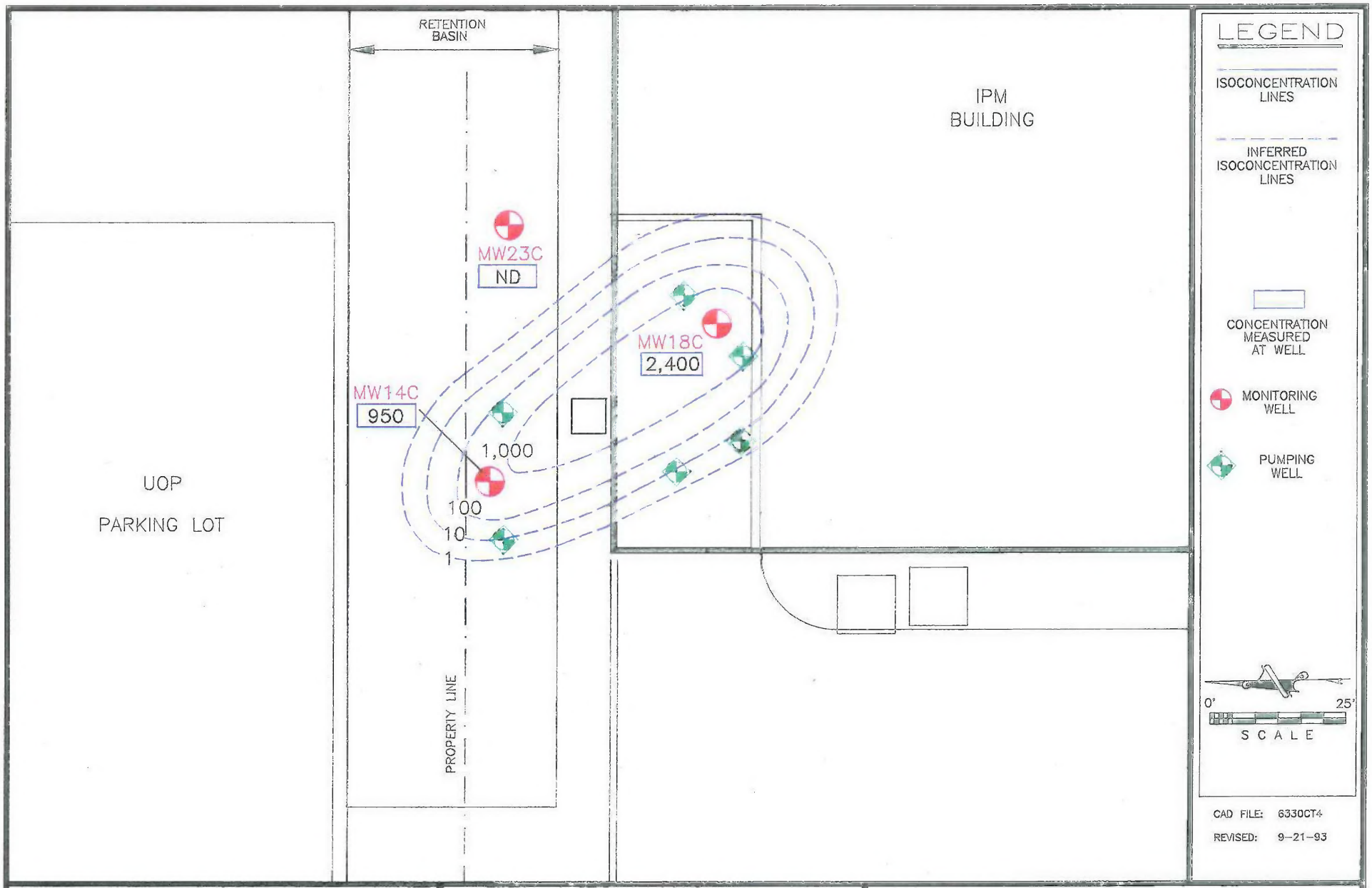


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FIGURE 20
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"C" WELLS – JULY 1993

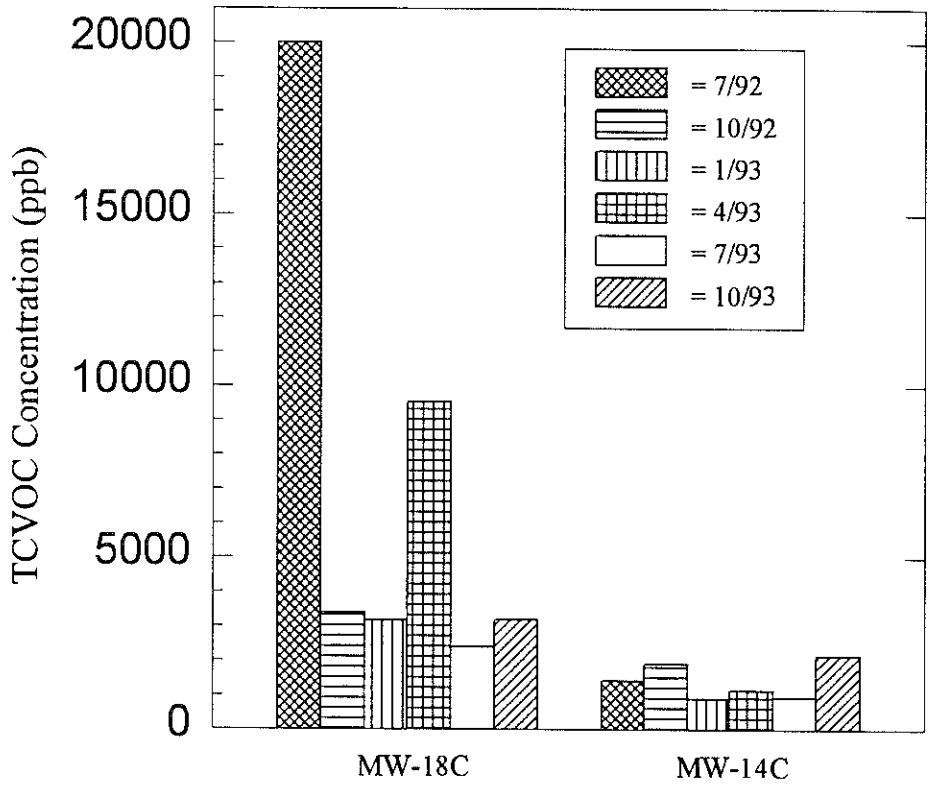


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FIGURE 21
TCVOC CONCENTRATIONS
"C" ZONE WELLS

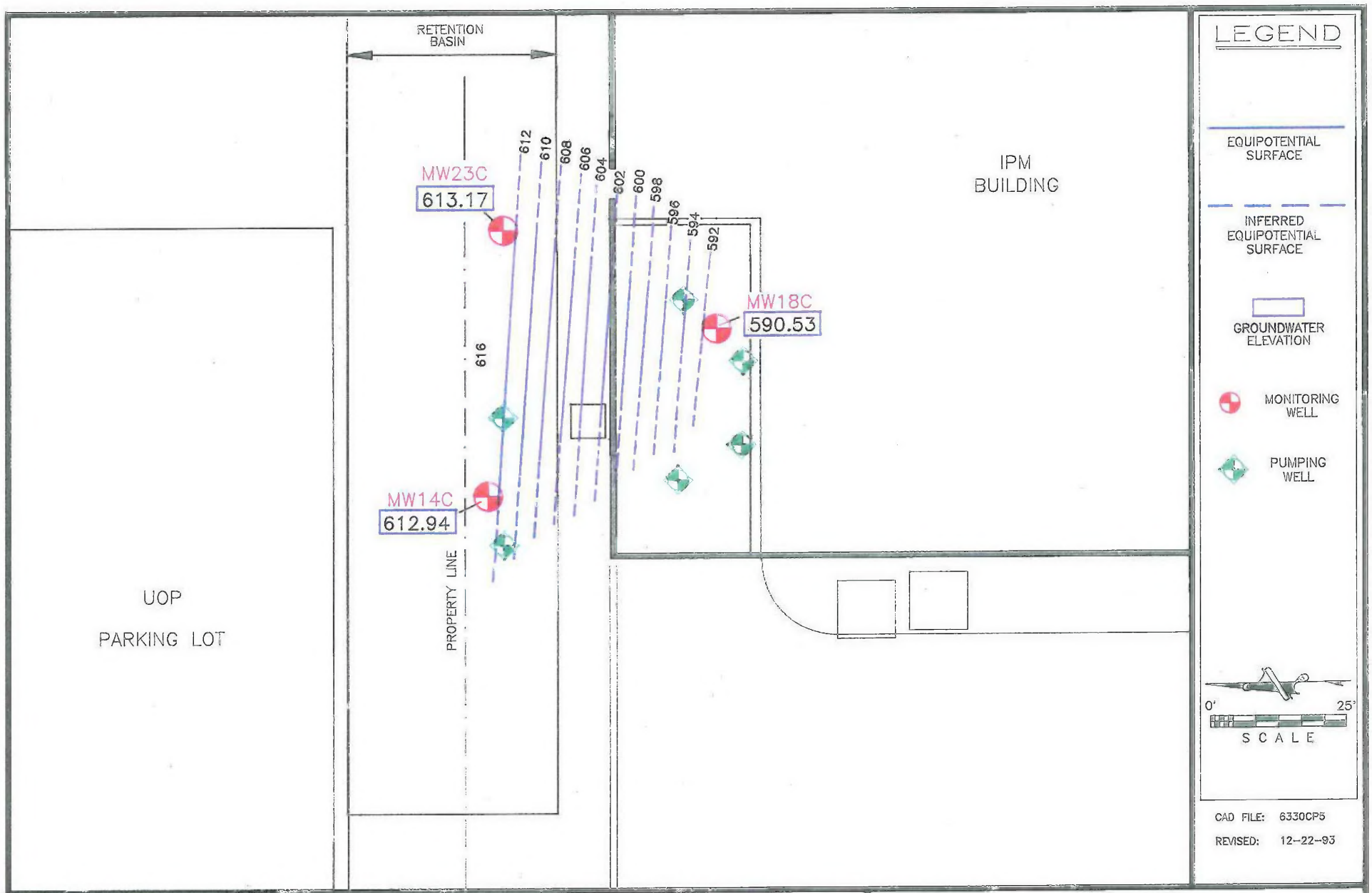


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FIGURE 22
POTENTIOMETRIC SURFACE
"C" WELLS - OCTOBER 1993

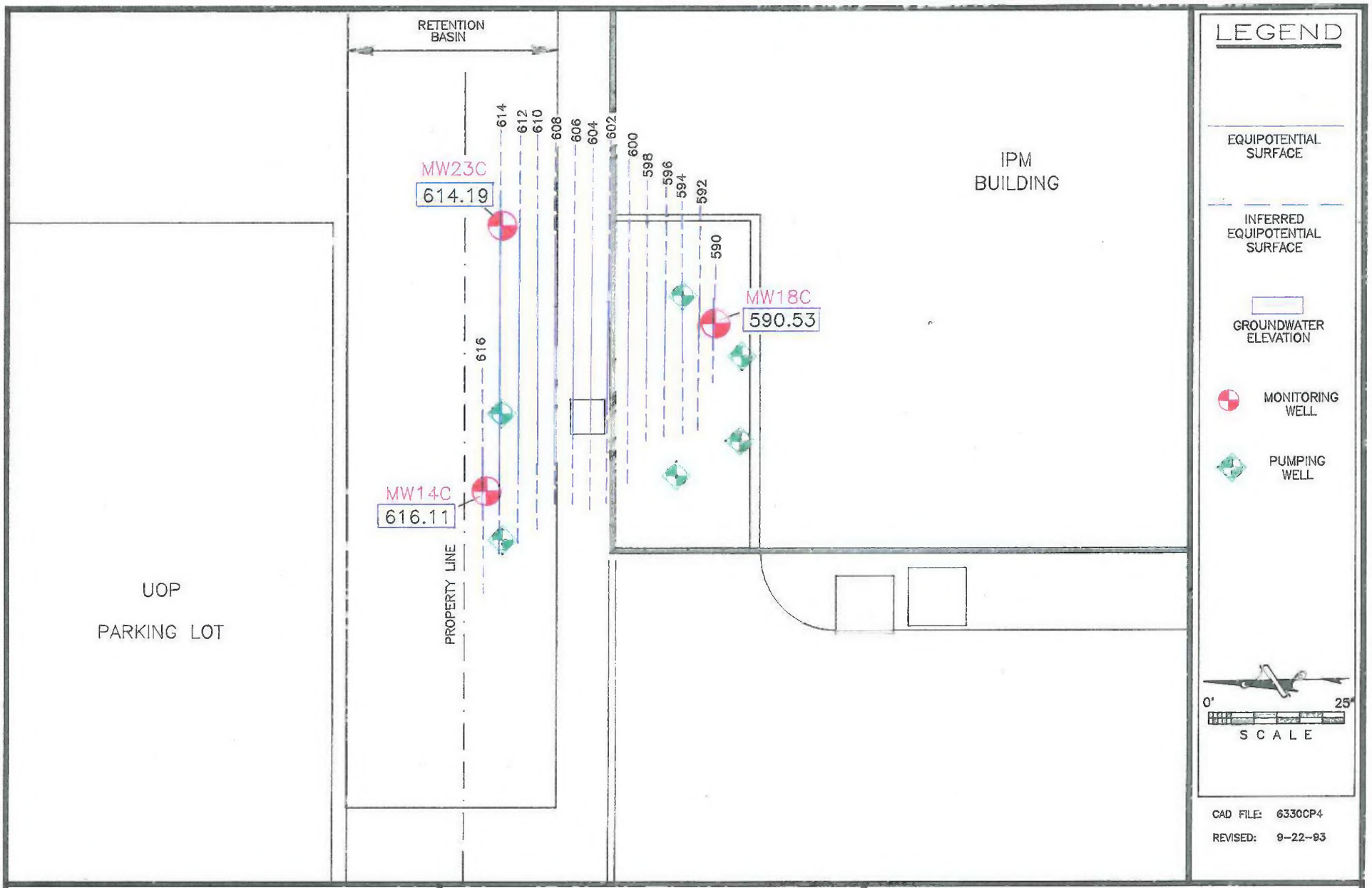


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FIGURE 23
POTENTIOMETRIC SURFACE
"C" WELLS – JULY 1993

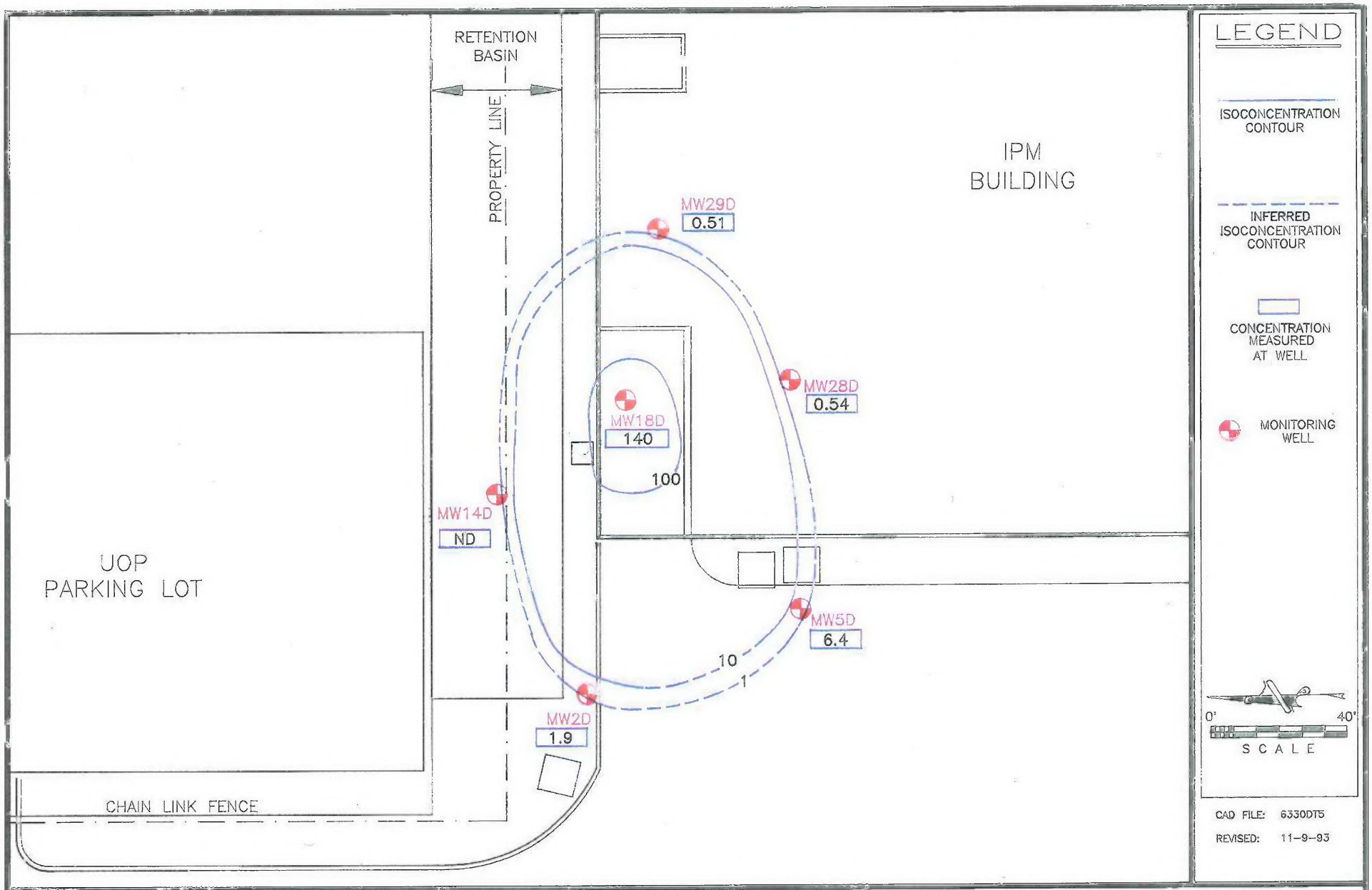


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FIGURE 24
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"D" WELLS – OCTOBER 1993

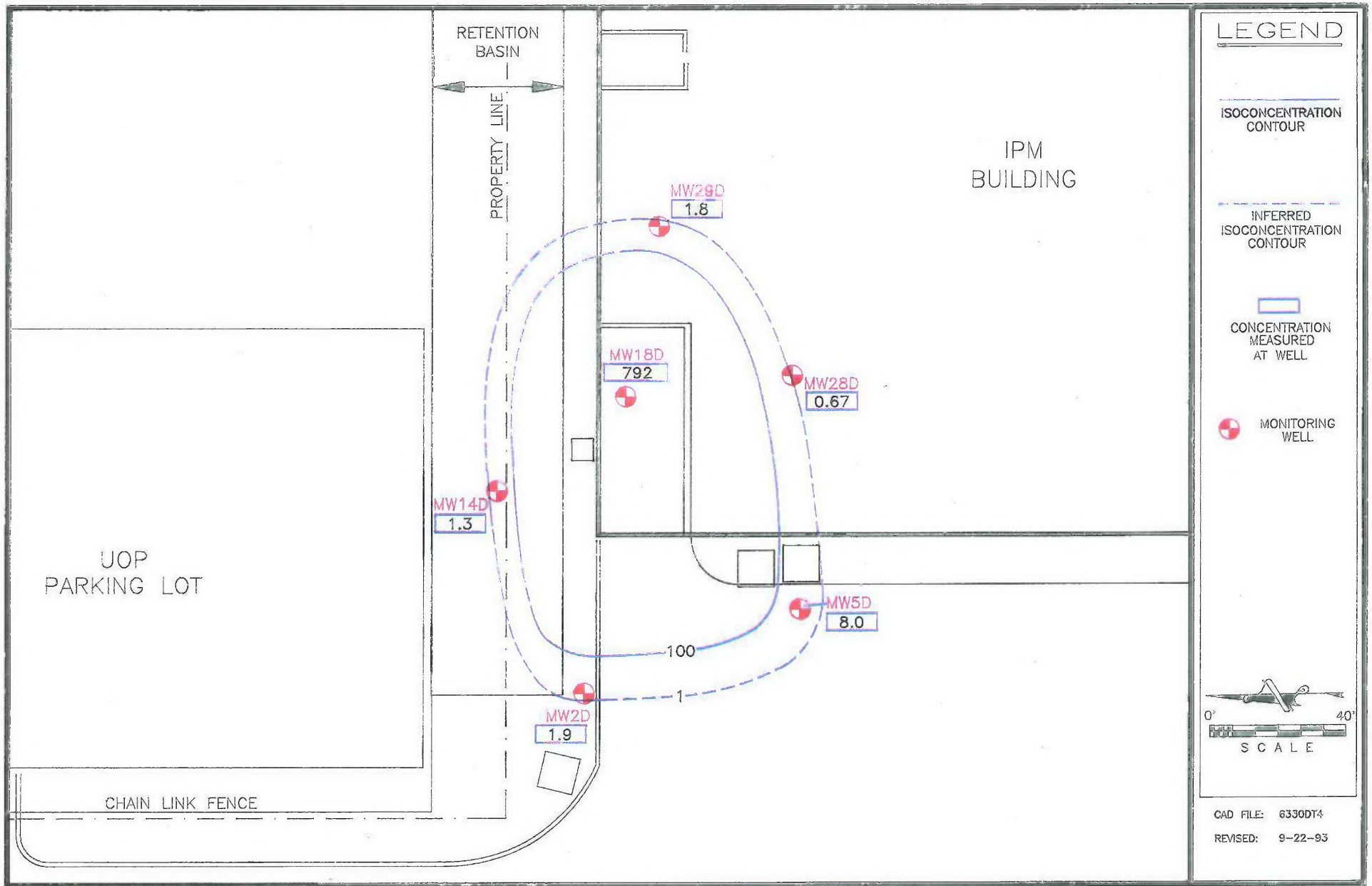


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FIGURE 25
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"D" WELLS – JULY 1993

Historical groundwater monitoring data for the D-Zone wells are tabulated in Appendix D, and Figure 26 provides bar graphs of the TCVOC concentrations at the D-Zone monitoring wells exhibiting the highest contaminant concentrations from July 1992 to October 1993. A review of Figure 26 indicates no clear trend in the D-Zone contaminant concentrations over time.

The October 1993 and July 1993 potentiometric surface maps for the monitoring wells screened in the D-Zone are provided in Figure 27 and Figure 28, respectively. Note that these potentiometric surface plots are based upon an assumed static water elevation of 567.09 at MW-18D. This static water level elevation assumes a static water level 1-ft above the top of the screened interval, which is consistent with the location of the extraction pump at a depth of 95-ft bgs (the extraction pump is controlled to pump at a rate which meets or exceed the recovery yield of the well). Both potentiometric surface maps indicate that the D-Zone groundwater flow is dominated by groundwater extraction at MW-18D, which has induced a minima in the potentiometric surface at MW-18D (the center of the D-Zone contaminant plume).

**3.2.5 E-Zone Monitoring Well:** The location of the only E-Zone groundwater monitoring well, MW-18E, was provided in Figure 3. Comparison of the contaminant concentrations at monitoring well MW-18E in October 1993 and July 1993 (Appendix D) indicates an increase in contaminant concentrations over this time period. Furthermore, review of all available monitoring data for MW-18E indicates a trend of increasing contaminant concentrations from March 1993 to October 1993. It is possible that the trend of increasing contaminant concentrations at MW-18E is the result of leakance of contaminated groundwater from the D-Zone to the E-Zone. As a precaution against this possibility, pilot groundwater extraction at MW-18E was begun in October 1993 to design a periodic extraction system to address this potential migration. Groundwater samples from MW-18E were collected and subsequently analyzed for chlorinated VOCs periodically in November 1993, December 1993, and January 1994. During periods of groundwater extraction from MW-18E, the groundwater recovery flowrate was typically 2-gpm. The results of the groundwater monitoring of MW-18E are summarized in Appendix D, and Figure 29. The results indicate decreasing contaminant concentrations after the institution of periodic groundwater extraction at MW-18E. Note also that groundwater recovery from MW-18E

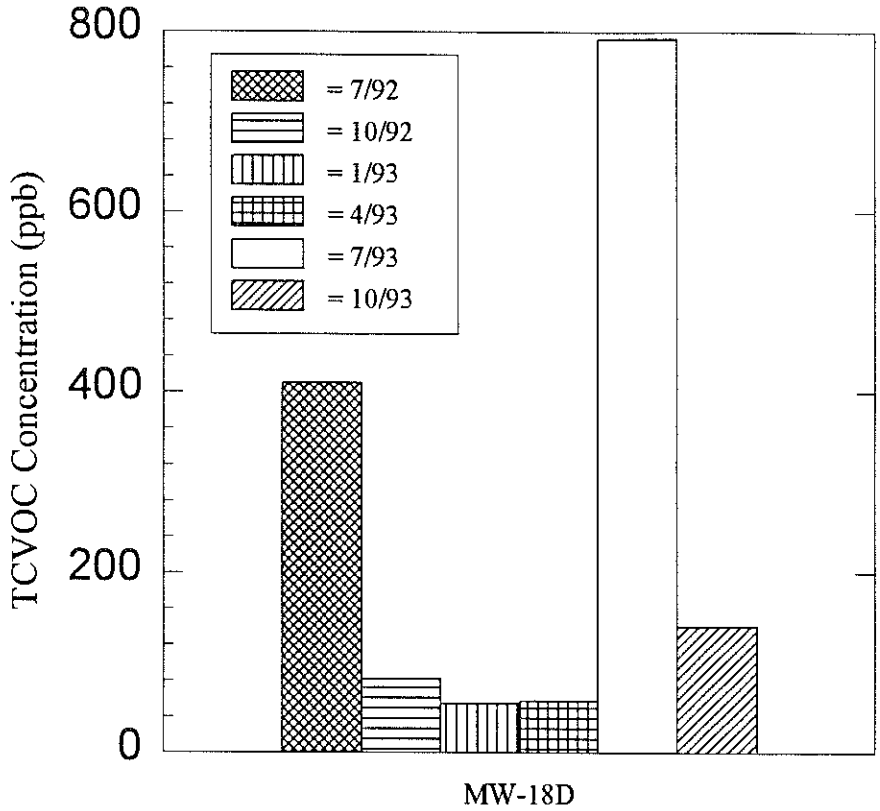


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FIGURE 26
TCVOC CONCENTRATIONS
"D" ZONE WELLS

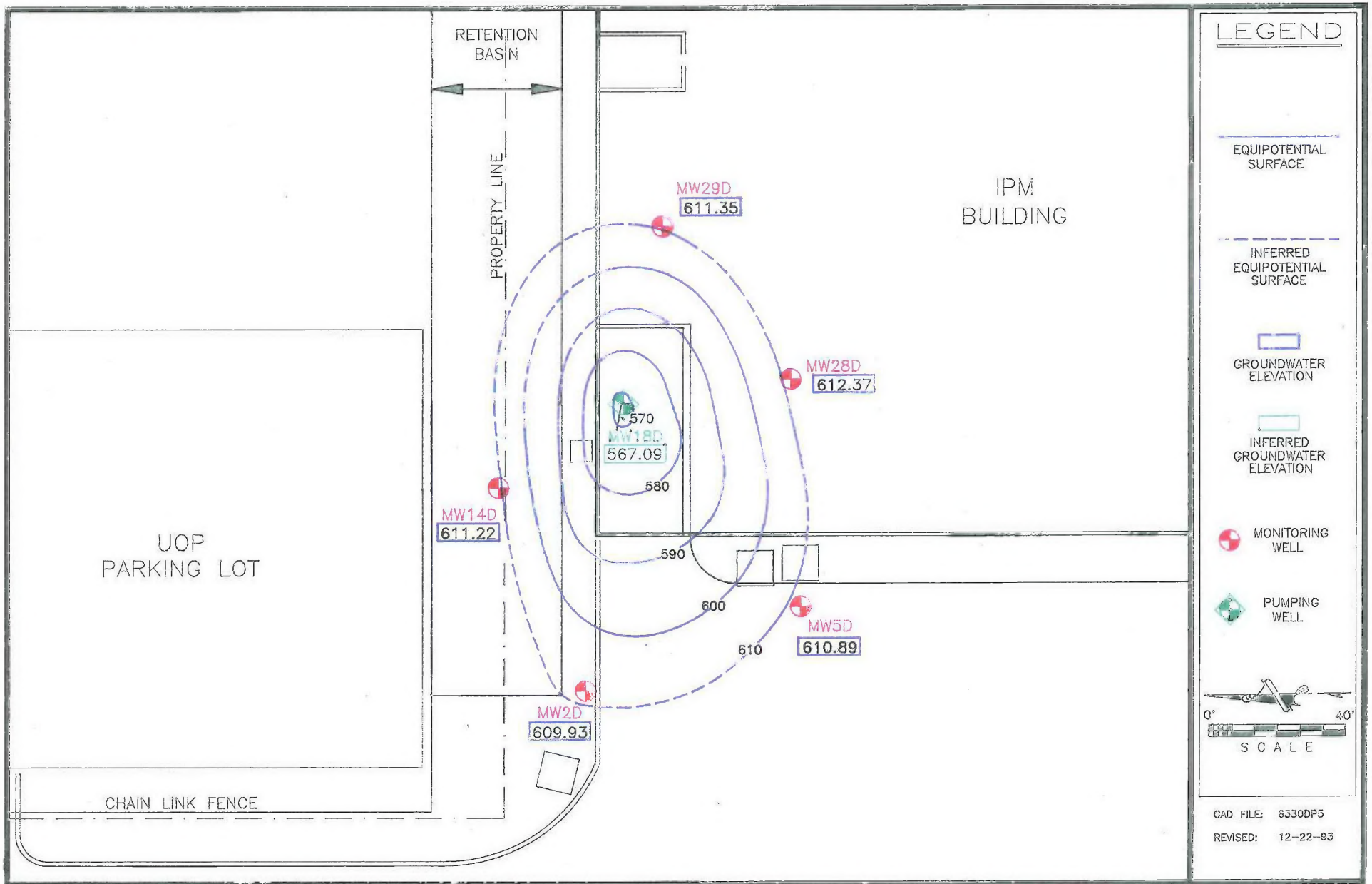


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FIGURE 27
POTENTIOMETRIC SURFACE
"D" WELLS – OCTOBER 1993

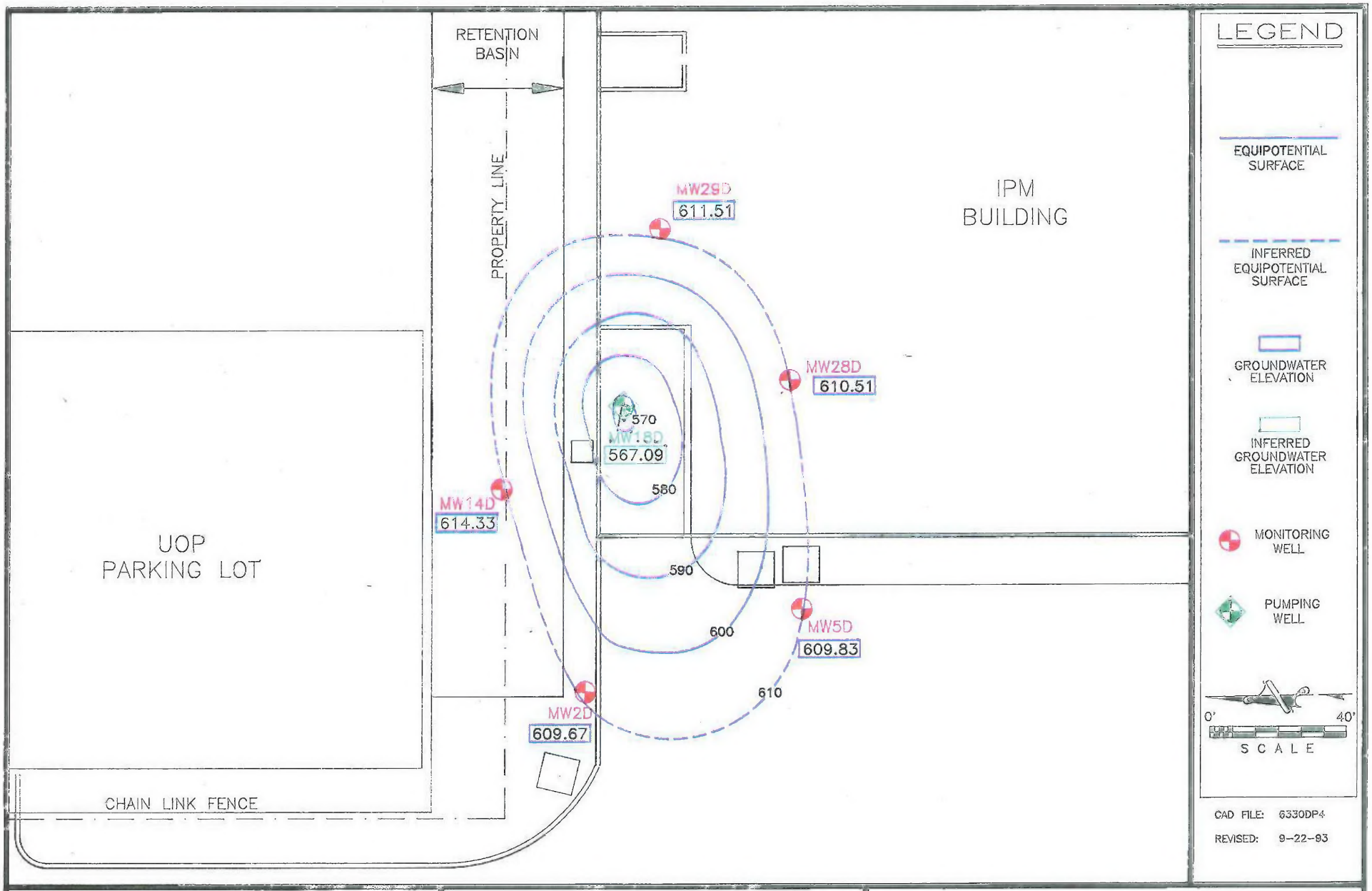


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FIGURE 28
POTENTIOMETRIC SURFACE
"D" WELLS – JULY 1993

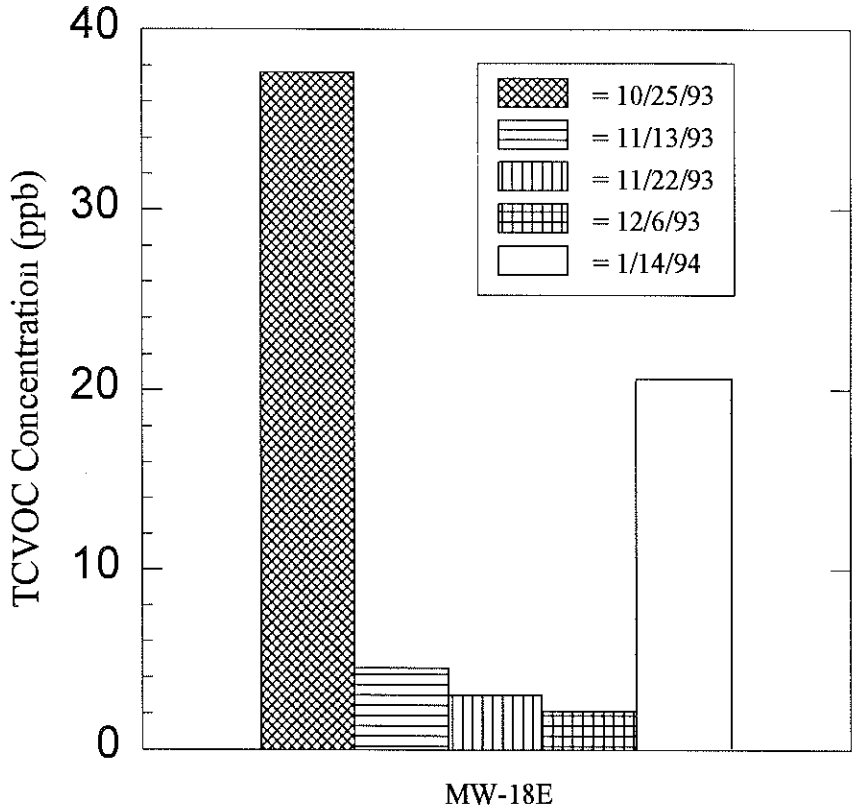


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FIGURE 29
TCVOC CONCENTRATIONS
"E" ZONE WELLS

was interrupted for approximately one week prior to the sampling of January 14, 1994, and that a seemingly corresponding increase in contaminant concentrations occurred between the sampling of December 6, 1993 and January 14, 1994. Kearney is currently evaluating the recent pilot extraction data from MW-18E and is considering proposing ongoing periodic groundwater recovery from MW-18E to address the potential for migration of contamination from the D-Zone to the E-Zone groundwater.

Static water level measurements from July 1993 (Appendix E) indicate that the static water elevation in MW-18E (605.01-ft above M.S.L.) was somewhat lower than the static water levels measured in the D-Zone monitoring wells (609.67-ft to 614.33-ft). This indicates a downward vertical hydraulic gradient between the D-Zone and E-Zone groundwater. However, because the static water level elevation in monitoring well MW-18D is believed to be much lower than the surrounding D-Zone wells (approximately 567-ft), no downward vertical gradient between the D-Zone and E-Zone groundwater near MW-18D and MW-18E is believed to exist.

### 3.3 CONTAMINANT MASS RECOVERY

The groundwater recovery flowrate and NPDES sampling data indicate that the calculated contaminant mass recovery rate has remained relatively constant over the last quarter of operation, with an estimated contaminant mass removal from the groundwater of 15.94-lbs of CVOC's between October 1993 and January 1994 (Figure 6).

### 3.4 SUMMARY OF GROUNDWATER REMEDIATION PROGRESS

Review of the groundwater concentration and potentiometric surface data indicates the following:

- Review of the B-Zone monitoring well contaminant concentration data indicates a shrinkage of the B-Zone contaminant plume between July 1993 and October 1993, with all but two of the B-Zone monitoring wells exhibiting decreasing contaminant concentrations. However, plots of the B-Zone monitoring well contaminant concentrations between July 1992 and October 1993 indicate that because of significant quarter to quarter variability, a trend of decreasing

contaminant concentrations with time is only discernible at monitoring well MW-9.

- The B-Zone potentiometric surface data indicates that groundwater extraction is adequately controlling and capturing the contaminants in the B-Zone groundwater.

- Statistical analysis of historical groundwater monitoring data at MW-17B indicates no statistically significant evidence of increasing contaminant concentrations with time. Therefore, the existing groundwater extraction system appears to be adequately addressing the northern extent of the B-Zone groundwater contamination.

- Review of the A-Zone monitoring well data indicates a shrinkage of the A-Zone contaminant plume, with all but one of the A-Zone monitoring wells exhibiting decreasing contaminant concentrations between July 1993 and October 1993. However, plots of the A-Zone monitoring well contaminant concentrations between July 1992 and October 1993 indicate that because of significant quarter to quarter variability, no trends in the A-Zone monitoring well contaminant concentrations with time are discernible.

- The A-Zone potentiometric surface data indicates that groundwater extraction is effectively capturing contaminants in the A-Zone groundwater.

- Review of the C-Zone groundwater monitoring well data indicates increasing contaminant concentrations at all three C-Zone monitoring wells between July 1993 and October 1993. However, plots of the C-Zone monitoring well contaminant concentrations between July 1992 and October 1993 indicate that because of significant quarter to quarter variability, no trends in the C-Zone monitoring well contaminant concentrations with time are discernible.

- Review of the D-Zone monitoring well data indicates a shrinkage of the D-Zone contaminant plume between July 1993 and October 1993, with all but one of the D-Zone monitoring wells exhibiting decreasing contaminant concentrations over the quarter. However, because of quarter to quarter variability in the monitoring well contaminant concentrations, no trends in the D-Zone monitoring well contaminant concentrations between July 1992 and October 1993 are discernible.

- A trend of increasing contaminant concentrations was observed at MW-18E between March 1993 and October 1993. As a precaution against potential migration of contaminants from the D-Zone to the E-Zone groundwater, periodic groundwater recovery from MW-18E was initiated in October 1993. Preliminary testing indicates that groundwater recovery from MW-18E will effectively reduce contaminant concentrations in the E-Zone groundwater. Kearney is considering the institution of continuous groundwater recovery from MW-18E.

## REFERENCES


USEPA, Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities: Interim Final Guidance, Office of Solid Waste, Washington, D.C., EPA/530-SW-89-026, April (1989).

Vogel, T.M., and P.L. McCarty, "Biotransformation of Tetrachloroethylene to Trichloroethylene, Dichloroethylene, Vinyl Chloride, and Carbon Dioxide under Methanogenic Conditions:, Applied and Environmental Microbiology, Vol. 49, No. 5, pp. 1080-1083 (1985)

Vogel, T.M., C.S. Criddle, and P.M. McCarty, "Transformation of Halogenated Aliphatic Compounds", Environmental Science and Technology, Vol. 21, No. 8, pp. 722-736 (1987)

Wilson, B.H., G.B. Smith, and J.F. Rees, "Biotransformations of Selected Alkylbenzenes and Halogenated Aliphatic Hydrocarbons in Methanogenic Aquifer Material: A Microcosm Study", Environmental Science and Technology, Vol. 20, No. 10, pp. 997-1002 (1986)

# APPENDIX A

# GROUNDWATER MONITORING WELL INFORMATION

**B-ZONE MONITORING WELLS**
**Upper Water-Bearing Unit**

| Monitoring Well | Date Installed | Monitoring Well Designation | Well Depth (ft bgs) | Screened Interval (ft bgs) | Well Casing Elevation[1] (ft) |
|---|---|---|---|---|---|
| **MW-1** | 09/28/88 | B | 19 | 15-19 | 661.15 |
| **MW-2** | 09/28/88 | B | 19 | 15-19 | 661.32 |
| **MW-3** | 09/28/88 | B | 19 | 15-19 | 660.53 |
| **MW-4B** | 02/09/89 | B | 30 | 20-30 | 660.68 |
| **MW-5B** | 02/09/89 | B | 30 | 20-30 | 657.11 |
| **MW-6B** | 02/09/89 | B | 25 | 15-25 | 660.82 |
| **MW-7B** | 02/09/89 | B | 28 | 18-28 | 657.99 |
| **MW-8** | 04/10/89 | B | 25 | 14-24 | 658.41 |
| **MW-9** | 04/10/89 | B | 25 | 14-24 | 658.31 |
| **MW-10** | 04/10/89 | B | 25 | 14-24 | 658.26 |
| **MW-11** | 04/10/89 | B | 25 | 14-24 | 658.16 |
| **MW-12** | 08/01/89 | B | 25 | 12.2-22.2 | 658.40 |
| **MW-13** | 08/01/89 | B | 25 | 12.7-22.7 | 658.42 |
| **MW-15B** | 06/29/90 | B | 22.7 | 12.7-22.7 | 656.89 |
| **MW-17B** | 07/02/90 | B | 23.35 | 13.35-23.35 | 657.54 |
| **MW-18B** | 07/05/90 | B | 32 | 7-32 | 657.33 |
| **MW-18B1** | 07/03/90 | B | 28.8 | 3.8-28.8 | 657.10 |
| **MW-18B2** | 07/02/90 | B | 29.0 | 4.0-29.0 | 657.51 |
| **MW-20B** | 11/21/90 | B | 37.0 | 30.5-35.5 | 657.32 |
| **MW-21B** | 11/19/90 | B | 37.0 | 30.5-35.5 | 657.94 |

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

**A-ZONE MONITORING WELLS**
**Upper Elevation of Lower Water-Bearing Zone**

| Monitoring Well | Date Installed | Designation | Well Depth (ft bgs) | Screened Interval (ft bgs) | Well Casing Elevation[1] (ft) |
|---|---|---|---|---|---|
| MW-4A | 01/16/89 | A | 54.0 | 44.0-54.0 | 660.55 |
| MW-5A | 01/16/89 | A | 55.0 | 45.0-55.0 | 657.40 |
| MW-6A | 01/18/89 | A | 55.0 | 45.0-55.0 | 660.71 |
| MW-7A | 01/24/89 | A | 54.0 | 44.0-54.0 | 658.01 |
| MW-14A | 06/30/90 | A | 47.3 | 42.3-47.3 | 657.18 |
| MW-15A | 06/27/90 | A | 40 | 35-40 | 656.87 |
| MW-16A | 06/26/90 | A | 49.5 | 44.5-49.5 | 660.90 |
| MW-17A | 11/28/90 | A | 45 | 40-45 | 658.10 |
| MW-18A | 11/30/90 | A | 53 | 47-52 | 657.65 |
| MW-19A | 07/05/90 | A | 49.9 | 44.9-49.9 | 658.20 |
| MW-20A | 12/20/90 | A | 54.5 | 44.5-49.5 | 657.41 |
| MW-22A | 11/02/90 | A | 56 | 45-55 | 657.78 |
| MW-24A | 02/27/91 | A | 51 | 45-50 | 657.41 |
| MW-25A | 02/27/91 | A | 49 | 43-48 | 656.54 |
| MW-26A | 02/27/91 | A | 53 | 47-52 | 656.67 |
| MW-27A | 02/26/91 | A | 51.5 | 45-50 | 661.09 |

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

## C-ZONE MONITORING WELLS
### Lower Elevation of Lower Water-Bearing Zone

| Monitoring Well | Date Installed | Designation | Well Depth (ft bgs) | Screened Interval (ft bgs) | Well Casing Elevation[1] (ft) |
|---|---|---|---|---|---|
| MW-14C | 11/27/90 | C | 65.75 | 59-64 | 654.73 |
| MW-18C | 11/29/90 | C | 74 | 68-73 | 657.53 |
| MW-23C | 12/14/90 | C | 71 | 62-67 | 657.25 |

## D-ZONE MONITORING WELLS
### Bedrock/Overburden Interface Zone

| Monitoring Well | Date Installed | Designation | Well Depth (ft bgs) | Screened Interval (ft bgs) | Well Casing Elevation[1] (ft) |
|---|---|---|---|---|---|
| MW-2D | 03/10/91 | D | 97 | 91-96 | 660.53 |
| MW-5D | 03/21/91 | D | 94 | 89-94 | 657.53 |
| MW-14D | 03/10/91 | D | 83.5 | 78.3-83.3 | 653.58 |
| MW-18D | 01/28/92 | D | 96 | 91-96 | 657.09 |
| MW-28D | 08/21/92 | D | 96 | 91-96 | 657.67 |
| MW-29D | 08/21/92 | D | 96 | 91-96 | 657.83 |

## E-ZONE MONITORING WELLS
### Bedrock

| Monitoring Well | Date Installed | Designation | Well Depth (ft bgs) | Screened Interval (ft bgs) | Well Casing Elevation[1] (ft) |
|---|---|---|---|---|---|
| MW-18E | 02/11/93 | E | 132 | 127-132 | 657.39 |

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

# APPENDIX B

# CHEMICAL ANALYSIS FORMS

# OCTOBER 1993 GROUNDWATER SAMPLING EVENT

## CHANGES TO MONITORING WELL DESIGNATIONS

In a letter dated March 12, 1993, IEPA requested that the monitoring well designations be changed on the chemical analysis forms. The following table summarizes these changes.

| Kearney-National Designation | Agency Designation | Kearney-National Designation | Agency Designation |
|---|---|---|---|
| MW-1 | G01S | MW-7A | G07U |
| MW-2 | G02S | MW-14A | G14U |
| MW-3 | GO3S | MW-15A | G15U |
| MW-4B | GO4S | MW-16A | G16U |
| MW-5B | GO5S | MW-17A | G17U |
| MW-6B | GO6S | MW-18A | G18U |
| MW-7B | GO7S | MW-19A | G19U |
| MW-8 | GO8S | MW-20A | G20U |
| MW-9 | GO9S | MW-22A | G22U |
| MW-10 | G10S | MW-24A | G24U |
| MW-11 | G11S | MW-25A | G25U |
| MW-12 | G12S | MW-26A | G26U |
| MW-13 | G13S | MW-27A | G27U |
| MW-15B | G15S | MW-14C | G14L |
| MW-18B | G18S | MW-18C | G18L |
| MW-18B1 | G16S | MW-23C | G23L |
| MW-18B2 | G14S | MW-2D | G02D |
| MW-20B | G20S | MW-5D | GO5D |
| MW-21B | G21S | MW-14D | G14D |
| MW-4A | G04U | MW-18D | G18D |
| MW-5A | GO5U | MW-28D | G28D |
| MW-6A | G06U | MW-29D | G29D |

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)

TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G02S (19–22) (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 10/20/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (59) (see Instructions)

MONITOR POINT SAMPLED BY B (60) (see Instructions) ____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 642.02 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 639.60 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 19.30 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G02S

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 1.1 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.50 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/5/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (8–18)

MONITOR POINT NUMBER G04S (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/20/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE _____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)  OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61)  ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS _____ (103–142)

LAB COMMENTS _____ (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (uq/L) (38–47) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 642.02 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 628.00 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 18.66 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

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CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER G04S

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 30 32101 34 | 35 | 36 | < 37 | 38 5.0 47 |
| 2 | BROMOFORM | 32104 | | | < | 10 |
| 3 | BROMOMETHANE | 34413 | | | < | 10 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 5.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 5.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 10 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 5.0 |
| 8 | CHLOROFORM | 32106 | | | < | 5.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 10 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 5.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 5.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 5.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 5.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 5.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 5.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 5.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 640 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 5.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 5.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 5.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 50 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 5.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 5.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 5.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 5.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 46 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 10 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 10 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

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CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G04S DUP

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (22; 23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | | < | 5.0 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 10 |
| 3 | BROMOMETHANE | 34413 | | | < | 10 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 5.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 5.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 10 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 5.0 |
| 8 | CHLOROFORM | 32106 | | | < | 5.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 10 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 5.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 5.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 5.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 5.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 5.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 5.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 5.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 660 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 5.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 5.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 5.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 50 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 5.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 5.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 5.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 5.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 54 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 10 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 10 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 5 / 9 4 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–19)

MONITOR POINT NUMBER G 0 8 S (19–22) (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (55 H M 58) (24 Hr. Clock)

UNABLE TO COLLECT SAMPLE ____ (59) (see Instructions)

MONITOR POINT SAMPLED BY B (60) (see Instructions)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 639.55 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 634.50 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 18.86 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G08S

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 100 |
| 3 | BROMOMETHANE | 34413 | | | < | 100 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 50 |
| 6 | CHLOROETHANE | 34311 | | | < | 100 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 50 |
| 8 | CHLOROFORM | 32106 | | | < | 50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 100 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 1,300 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 500 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 50 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 100 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 100 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/5/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G09S (19–22) (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 10/20/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (59) (see Instructions)

MONITOR POINT SAMPLED BY B (60) (see Instructions)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 639.27 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 634.50 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 19.04 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G09S (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 30 32101 34 | 35 | 36 | 37 < | 38 50 47 |
| 2 | BROMOFORM | 32104 | | | < | 100 |
| 3 | BROMOMETHANE | 34413 | | | < | 100 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 50 |
| 6 | CHLOROETHANE | 34311 | | | < | 100 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 50 |
| 8 | CHLOROFORM | 32106 | | | < | 50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 100 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 460 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 500 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 140 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 100 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 100 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



Printed on Recycled Paper

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G12S (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/20/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) _____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102) CLEAR

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (uq/L) (38–47) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 639.28 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 636.30 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 19.12 |
| | | | | | | |
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| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G12S (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB _____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 10 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 20 |
| 3 | BROMOMETHANE | 34413 | | | < | 20 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 10 |
| 5 | CHLOROBENZENE | 34301 | | | < | 10 |
| 6 | CHLOROETHANE | 34311 | | | < | 20 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 10 |
| 8 | CHLOROFORM | 32106 | | | < | 10 |
| 9 | CHLOROMETHANE | 34418 | | | < | 20 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 10 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 10 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 10 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 10 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 10 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 10 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 10 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 12 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 10 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 10 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 10 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 100 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 10 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 10 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 10 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 10 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 220 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 20 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 20 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G13S (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/20/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (58)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 7993 | | | | 640.38 |
| | Well Depth Elevation (ft. MSL) | 7020 | | | | 635.80 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 18.04 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G13S

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | | < (37) | 10 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 20 |
| 3 | BROMOMETHANE | 34413 | | | < | 20 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 10 |
| 5 | CHLOROBENZENE | 34301 | | | < | 10 |
| 6 | CHLOROETHANE | 34311 | | | < | 20 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 10 |
| 8 | CHLOROFORM | 32106 | | | < | 10 |
| 9 | CHLOROMETHANE | 34418 | | | < | 20 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 10 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 10 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 10 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 10 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 10 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 10 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 10 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 10 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 10 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 10 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 10 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 100 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 10 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 10 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 10 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 10 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 68 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 20 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 20 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (8–18)

MONITOR POINT NUMBER G15S (19–22) (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 10/20/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (59) (see Instructions)

MONITOR POINT SAMPLED BY B (60) (see Instructions)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 641.11 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 634.80 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 15.78 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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11 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G15S

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | | < | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.50 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER (see Instructions) G 1 7 S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/20/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE (63–102): CLEAR

COLLECTOR COMMENTS (103–142):

LAB COMMENTS (150–199):

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (uq/L) (38–47) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 640.55 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 632.30 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 16.99 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G17S

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 10 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 530 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)  TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G17S DUP

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | | < | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 10 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 530 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 4 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G 1 8 S (19–22) (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (64)

TIME COLLECTED __ __:__ __ (55 H M 58) (24 Hr. Clock)

UNABLE TO COLLECT SAMPLE ____ (59) (see Instructions)

MONITOR POINT SAMPLED BY B (60) (see Instructions)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| Elevation of GW Surface (ft. MSL) | 7993 | | | | 639.02 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 626.00 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 18.31 |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18S

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 30 32101 34 | 35 | 36 | 37 < | 38 5.0 47 |
| 2 | BROMOFORM | 32104 | | | < | 10 |
| 3 | BROMOMETHANE | 34413 | | | < | 10 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 5.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 5.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 10 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 5.0 |
| 8 | CHLOROFORM | 32106 | | | < | 5.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 10 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 5.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 5.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 5.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 5.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 5.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 5.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 5.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 54 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 5.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 5.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 5.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 50 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 5.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 5.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 5.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 5.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 1,500 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 10 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 10 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G16S (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/20/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)  OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61)  ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 639.32 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 629.20 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 17.78 |
| | | | | | | |
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IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G16S (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | | < (37) | 130 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 250 |
| 3 | BROMOMETHANE | 34413 | | | < | 250 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 130 |
| 5 | CHLOROBENZENE | 34301 | | | < | 130 |
| 6 | CHLOROETHANE | 34311 | | | < | 250 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 130 |
| 8 | CHLOROFORM | 32106 | | | < | 130 |
| 9 | CHLOROMETHANE | 34418 | | | < | 250 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 130 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 130 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 130 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 130 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 130 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 130 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 130 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 130 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 130 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 130 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 130 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 1,300 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 130 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 130 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 130 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 130 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 2,200 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 250 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 250 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G14S (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/20/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | | | | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 7993 | | | | 639.20 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 629.00 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 18.31 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G14S

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | | < (37) | 200 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 400 |
| 3 | BROMOMETHANE | 34413 | | | < | 400 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 200 |
| 5 | CHLOROBENZENE | 34301 | | | < | 200 |
| 6 | CHLOROETHANE | 34311 | | | < | 400 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 200 |
| 8 | CHLOROFORM | 32106 | | | < | 200 |
| 9 | CHLOROMETHANE | 34418 | | | < | 400 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 200 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 200 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 200 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 200 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 200 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 200 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 200 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 200 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 200 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 200 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 200 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 2,000 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 200 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 200 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 200 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 200 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 5,300 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 400 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 400 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)

TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 4 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G 2 0 S (19–22) (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (64)

TIME COLLECTED __:__ (55 H M 58) (24 Hr. Clock)

UNABLE TO COLLECT SAMPLE _____ (59) (see Instructions)

MONITOR POINT SAMPLED BY B (60) (see Instructions) _____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 641.58 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 622.20 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 15.74 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorised to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 38 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G20S

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB _____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | | < | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 7.5 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.92 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.50 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



Printed on Recycled Paper

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G04U (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 617.13 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 604.20 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 43.42 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 36 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G04U

CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB _____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.52 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G14U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | | | | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 617.28 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 607.70 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 39.90 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G14U (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 30 32101 34 | 35 | 36 | 37 < | 38 1,000 47 |
| 2 | BROMOFORM | 32104 | | | < | 2,000 |
| 3 | BROMOMETHANE | 34413 | | | < | 2,000 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 1,000 |
| 5 | CHLOROBENZENE | 34301 | | | < | 1,000 |
| 6 | CHLOROETHANE | 34311 | | | < | 2,000 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 1,000 |
| 8 | CHLOROFORM | 32106 | | | < | 1,000 |
| 9 | CHLOROMETHANE | 34418 | | | < | 2,000 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 1,000 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 1,000 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 1,000 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 1,000 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 1,000 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 1,000 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 1,000 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 1,000 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 1,000 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 1,000 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 1,000 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10,000 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 1,000 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 1,000 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 1,000 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 1,000 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 12,000 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 2,000 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 2,000 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G14U DUP

CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 1,000 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 2,000 |
| 3 | BROMOMETHANE | 34413 | | | < | 2,000 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 1,000 |
| 5 | CHLOROBENZENE | 34301 | | | < | 1,000 |
| 6 | CHLOROETHANE | 34311 | | | < | 2,000 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 1,000 |
| 8 | CHLOROFORM | 32106 | | | < | 1,000 |
| 9 | CHLOROMETHANE | 34418 | | | < | 2,000 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 1,000 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 1,000 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 1,000 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 1,000 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 1,000 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 1,000 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 1,000 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 1,000 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 1,000 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 1,000 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 1,000 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10,000 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 1,000 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 1,000 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 1,000 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 1,000 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 8,800 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 2,000 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 2,000 |

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*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G15U (19–22) (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE _____ (59) (see Instructions)

MONITOR POINT SAMPLED BY B (60) (see Instructions) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 634.63 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 617.50 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 22.24 |
| | | | | | | |
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| | | | | | | |

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IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER G15U (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 30 32101 34 | 35 | 36 | 37 < | 38 0.50 47 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 1.6 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 13 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER G17U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (58)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 618.88 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 610.20 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 39.22 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G17U

CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | **1.3** |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

Printed on Recycled Paper

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G18U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63) CLEAR

COLLECTOR COMMENTS (103–102)

LAB COMMENTS (150–142)

(199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (9)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 7993 | | | | 612.21 |
| | Well Depth Elevation (ft. MSL) | 7020 | | | | 606.00 |
| | Depth to Water from Meas. Pt. (ft) | 7209 | | | | 45.44 |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18U (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 / 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 250 |
| 2 | BROMOFORM | 32104 | | | < | 500 |
| 3 | BROMOMETHANE | 34413 | | | < | 500 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 250 |
| 5 | CHLOROBENZENE | 34301 | | | < | 250 |
| 6 | CHLOROETHANE | 34311 | | | < | 500 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 250 |
| 8 | CHLOROFORM | 32106 | | | < | 250 |
| 9 | CHLOROMETHANE | 34418 | | | < | 500 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 250 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 250 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 250 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 250 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 250 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 250 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 250 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 250 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 250 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 250 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 250 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 2,500 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 250 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 250 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 250 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 250 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 6,100 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 500 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 500 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G19U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 624.66 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 608.70 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 33.54 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G19U (19–22)

CO. Cook

Kearney-National, Inc.
FACILITY NAME

DATE COLLECTED 1 0 / 2 1 / 1 9 9 3 (23 M D Y 28)

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 5.0 |
| 2 | BROMOFORM | 32104 | | | < | 10 |
| 3 | BROMOMETHANE | 34413 | | | < | 10 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 5.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 5.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 10 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 5.0 |
| 8 | CHLOROFORM | 32106 | | | < | 5.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 10 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 5.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 5.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 5.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 5.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 5.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 5.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 5.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 5.0 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 5.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 5.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 5.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 50 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 5.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 5.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 5.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 5.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 100 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 10 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 10 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G20U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 621.71 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 607.70 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 35.70 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G20U

CO. Cook

DATE COLLECTED 1 0 / 2 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 13 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G22U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)  OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61)  ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 633.92 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 603.50 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 23.86 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G22U

CO. Cook

DATE COLLECTED 1 0 2 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.50 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



Printed on Recycled Paper

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G14L (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 612.94 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 588.90 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 41.79 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G14L

CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 100 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 200 |
| 3 | BROMOMETHANE | 34413 | | | < | 200 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 100 |
| 5 | CHLOROBENZENE | 34301 | | | < | 100 |
| 6 | CHLOROETHANE | 34311 | | | < | 200 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 100 |
| 8 | CHLOROFORM | 32106 | | | < | 100 |
| 9 | CHLOROMETHANE | 34418 | | | < | 200 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 100 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 100 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 100 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 100 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 100 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 100 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 100 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 250 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 100 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 100 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 100 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 1,000 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 100 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 100 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 100 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 100 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 1,900 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 200 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 200 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G18L (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (64)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 590.53 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 584.90 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 67.00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18L

CO. Cook

DATE COLLECTED 1 1 / 2 2 / 1993 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 20 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 40 |
| 3 | BROMOMETHANE | 34413 | | | < | 40 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 20 |
| 5 | CHLOROBENZENE | 34301 | | | < | 20 |
| 6 | CHLOROETHANE | 34311 | | | < | 40 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 20 |
| 8 | CHLOROFORM | 32106 | | | < | 20 |
| 9 | CHLOROMETHANE | 34418 | | | < | 40 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 20 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 20 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 20 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 20 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 20 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 20 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 20 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 20 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 20 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 20 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 20 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 400 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 20 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 20 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 20 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 20 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 3,200 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 40 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 40 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



Printed on Recycled Paper

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 4 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER G 2 3 L (19–22) (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 3 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __ __:__ __ (55 H M 58) (24 Hr. Clock)

UNABLE TO COLLECT SAMPLE _____ (59) (see Instructions)

MONITOR POINT SAMPLED BY B (60) (see Instructions)

OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 613.17 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 587.70 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 44.08 |
| | | | | | | |
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| | | | | | | |
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| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G23L (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 1.1 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



Printed on Recycled Paper

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G05D (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 610.89 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 563.60 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 46.64 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G05D

CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 6.4 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1-90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G14D (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/20/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 7993 | | | | 611.22 |
| Well Depth Elevation (ft. MSL) | 7020 | | | | 568.70 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 42.36 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G14D (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 0 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.50 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G18D (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)  OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61)  ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 567.09 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 562.00 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 90.00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Date in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18D (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 / 1993 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 5.0 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 10 |
| 3 | BROMOMETHANE | 34413 | | | < | 10 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 5.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 5.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 10 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 5.0 |
| 8 | CHLOROFORM | 32106 | | | < | 5.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 10 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 5.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 5.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 5.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 5.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 5.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 5.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 5.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 5.0 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 5.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 5.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 5.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 50 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 5.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 5.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 5.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 5.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | **140** |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 10 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 10 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18D DUP (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | | < (37) | 5.0 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 10 |
| 3 | BROMOMETHANE | 34413 | | | < | 10 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 5.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 5.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 10 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 5.0 |
| 8 | CHLOROFORM | 32106 | | | < | 5.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 10 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 5.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 5.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 5.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 5.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 5.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 5.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 5.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 5.0 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 5.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 5.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 5.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 50 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 5.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 5.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 5.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 5.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 95 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 10 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 10 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 4 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G 2 8 D (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 3 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 612.37 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 562.50 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 45.30 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G28D (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 / 1993 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 0.50 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.54 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G29D (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| | Elevation of GW Surface (ft. MSL) | 7993 | | | | 611.35 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 562.50 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 46.48 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G29D

CO. Cook

DATE COLLECTED 1 0 2 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 0.50 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 5.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | **0.51** |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 01/15/94 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G18E (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/25/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 7193 | | | | 605.01 |
| Well Depth Elevation (ft. MSL) | 7220 | | | | XXX.XX |
| Depth to Water from Meas. Pt. (ft) | 7209 | | | | 52.38 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18E (19–22)

CO. Cook

DATE COLLECTED 1 0 2 5 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | **18** |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 1.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | **0.64** |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | **19** |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

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IL 532 1213
LPC 160 1/90 (CONT)

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IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18E DUP (19–22)

CO. Cook

Kearney-National, Inc.
FACILITY NAME

DATE COLLECTED 1 0 / 2 5 / 9 3 (23 M D Y 28)

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 18 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 1.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.60 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 21 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

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IL 532 1213

LPC 160 1-90 (CONT)

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# APPENDIX C

# ANALYTICAL LABORATORY REPORTS

GREAT LAKES ANALYTICAL 1380 Busch Parkway • Buffalo Grove, Illinois 60089 (708) 808-7766 FAX (708) 808-7772

| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW2 | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0959 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| **cis-1,2-Dichloroethene** | **0.50** | **1.1** |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | N.D. |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

C. Lambesis/fb

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL 1380 Busch Parkway • Buffalo Grove, Illinois 60089 (708) 808-7766 FAX (708) 808-7772

| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW4B | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0960 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 5.0 | N.D. |
| Bromoform | 10 | N.D. |
| Bromomethane | 10 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. |
| Chlorobenzene | 5.0 | N.D. |
| Chloroethane | 10 | N.D. |
| 2-Chloroethylvinyl ether | 5.0 | N.D. |
| Chloroform | 5.0 | N.D. |
| Chloromethane | 10 | N.D. |
| Dibromochloromethane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 5.0 | N.D. |
| 1,1-Dichloroethane | 5.0 | N.D. |
| 1,2-Dichloroethane | 5.0 | N.D. |
| 1,1-Dichloroethene | 5.0 | N.D. |
| **cis-1,2-Dichloroethene** | **5.0** | **640** |
| trans-1,2-Dichloroethene | 5.0 | N.D. |
| 1,2-Dichloropropane | 5.0 | N.D. |
| cis-1,3-Dichloropropene | 5.0 | N.D. |
| trans-1,3-Dichloropropene | 5.0 | N.D. |
| Methylene chloride | 50 | N.D. |
| 1,1,2,2-Tetrachloroethane | 5.0 | N.D. |
| Tetrachloroethene | 5.0 | N.D. |
| 1,1,1-Trichloroethane | 5.0 | N.D. |
| 1,1,2-Trichloroethane | 5.0 | N.D. |
| **Trichloroethene** | **5.0** | **46** |
| Trichlorofluoromethane | 10 | N.D. |
| Vinyl chloride | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

C. Lambesis /fy

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL 1380 Busch Parkway • Buffalo Grove, Illinois 60089 (708) 808-7766 FAX (708) 808-7772

| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW4B-DUP | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0962 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 5.0 | N.D. |
| Bromoform | 10 | N.D. |
| Bromomethane | 10 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. |
| Chlorobenzene | 5.0 | N.D. |
| Chloroethane | 10 | N.D. |
| 2-Chloroethylvinyl ether | 5.0 | N.D. |
| Chloroform | 5.0 | N.D. |
| Chloromethane | 10 | N.D. |
| Dibromochloromethane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 5.0 | N.D. |
| 1,1-Dichloroethane | 5.0 | N.D. |
| 1,2-Dichloroethane | 5.0 | N.D. |
| 1,1-Dichloroethene | 5.0 | N.D. |
| **cis-1,2-Dichloroethene** | **5.0** | **660** |
| trans-1,2-Dichloroethene | 5.0 | N.D. |
| 1,2-Dichloropropane | 5.0 | N.D. |
| cis-1,3-Dichloropropene | 5.0 | N.D. |
| trans-1,3-Dichloropropene | 5.0 | N.D. |
| Methylene chloride | 50 | N.D. |
| 1,1,2,2-Tetrachloroethane | 5.0 | N.D. |
| Tetrachloroethene | 5.0 | N.D. |
| 1,1,1-Trichloroethane | 5.0 | N.D. |
| 1,1,2-Trichloroethane | 5.0 | N.D. |
| **Trichloroethene** | **5.0** | **54** |
| Trichlorofluoromethane | 10 | N.D. |
| Vinyl chloride | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL**

C. Lambesis for

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL 1380 Busch Parkway • Buffalo Grove, Illinois 60089 (708) 808-7766 FAX (708) 808-7772

| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW8 | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0961 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 50 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| Carbon tetrachloride | 50 | N.D. |
| Chlorobenzene | 50 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethylvinyl ether | 50 | N.D. |
| Chloroform | 50 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 50 | N.D. |
| 1,2-Dichlorobenzene | 50 | N.D. |
| 1,3-Dichlorobenzene | 50 | N.D. |
| 1,4-Dichlorobenzene | 50 | N.D. |
| 1,1-Dichloroethane | 50 | N.D. |
| 1,2-Dichloroethane | 50 | N.D. |
| 1,1-Dichloroethene | 50 | N.D. |
| **cis-1,2-Dichloroethene** | **50** | **1,300** |
| trans-1,2-Dichloroethene | 50 | N.D. |
| 1,2-Dichloropropane | 50 | N.D. |
| cis-1,3-Dichloropropene | 50 | N.D. |
| trans-1,3-Dichloropropene | 50 | N.D. |
| Methylene chloride | 500 | N.D. |
| 1,1,2,2-Tetrachloroethane | 50 | N.D. |
| Tetrachloroethene | 50 | N.D. |
| 1,1,1-Trichloroethane | 50 | N.D. |
| 1,1,2-Trichloroethane | 50 | N.D. |
| Trichloroethene | 50 | N.D. |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl chloride | 100 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL**

C. Lambesis /fg

Kevin W. Keeley
Laboratory Director

3100959.DEP <3>

GREAT LAKES ANALYTICAL 1380 Busch Parkway • Buffalo Grove, Illinois 60089 (708) 808-7766 FAX (708) 808-7772

| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW9 | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0963 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 50 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| Carbon tetrachloride | 50 | N.D. |
| Chlorobenzene | 50 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethylvinyl ether | 50 | N.D. |
| Chloroform | 50 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 50 | N.D. |
| 1,2-Dichlorobenzene | 50 | N.D. |
| 1,3-Dichlorobenzene | 50 | N.D. |
| 1,4-Dichlorobenzene | 50 | N.D. |
| 1,1-Dichloroethane | 50 | N.D. |
| 1,2-Dichloroethane | 50 | N.D. |
| 1,1-Dichloroethene | 50 | N.D. |
| **cis-1,2-Dichloroethene** | **50** | **460** |
| trans-1,2-Dichloroethene | 50 | N.D. |
| 1,2-Dichloropropane | 50 | N.D. |
| cis-1,3-Dichloropropene | 50 | N.D. |
| trans-1,3-Dichloropropene | 50 | N.D. |
| Methylene chloride | 500 | N.D. |
| 1,1,2,2-Tetrachloroethane | 50 | N.D. |
| Tetrachloroethene | 50 | N.D. |
| 1,1,1-Trichloroethane | 50 | N.D. |
| 1,1,2-Trichloroethane | 50 | N.D. |
| **Trichloroethene** | **50** | **140** |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl chloride | 100 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

C. Lambesis for

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL 1380 Busch Parkway • Buffalo Grove, Illinois 60089 (708) 808-7766 FAX (708) 808-7772

| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW12 | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0964 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 10 | N.D. |
| Bromoform | 20 | N.D. |
| Bromomethane | 20 | N.D. |
| Carbon tetrachloride | 10 | N.D. |
| Chlorobenzene | 10 | N.D. |
| Chloroethane | 20 | N.D. |
| 2-Chloroethylvinyl ether | 10 | N.D. |
| Chloroform | 10 | N.D. |
| Chloromethane | 20 | N.D. |
| Dibromochloromethane | 10 | N.D. |
| 1,2-Dichlorobenzene | 10 | N.D. |
| 1,3-Dichlorobenzene | 10 | N.D. |
| 1,4-Dichlorobenzene | 10 | N.D. |
| 1,1-Dichloroethane | 10 | N.D. |
| 1,2-Dichloroethane | 10 | N.D. |
| 1,1-Dichloroethene | 10 | N.D. |
| **cis-1,2-Dichloroethene** | **10** | **12** |
| trans-1,2-Dichloroethene | 10 | N.D. |
| 1,2-Dichloropropane | 10 | N.D. |
| cis-1,3-Dichloropropene | 10 | N.D. |
| trans-1,3-Dichloropropene | 10 | N.D. |
| Methylene chloride | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 10 | N.D. |
| Tetrachloroethene | 10 | N.D. |
| 1,1,1-Trichloroethane | 10 | N.D. |
| 1,1,2-Trichloroethane | 10 | N.D. |
| **Trichloroethene** | **10** | **220** |
| Trichlorofluoromethane | 20 | N.D. |
| Vinyl chloride | 20 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

C. Lambesis /fg

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Laboratory Director

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW13 | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0965 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 10 | N.D. |
| Bromoform | 20 | N.D. |
| Bromomethane | 20 | N.D. |
| Carbon tetrachloride | 10 | N.D. |
| Chlorobenzene | 10 | N.D. |
| Chloroethane | 20 | N.D. |
| 2-Chloroethylvinyl ether | 10 | N.D. |
| Chloroform | 10 | N.D. |
| Chloromethane | 20 | N.D. |
| Dibromochloromethane | 10 | N.D. |
| 1,2-Dichlorobenzene | 10 | N.D. |
| 1,3-Dichlorobenzene | 10 | N.D. |
| 1,4-Dichlorobenzene | 10 | N.D. |
| 1,1-Dichloroethane | 10 | N.D. |
| 1,2-Dichloroethane | 10 | N.D. |
| 1,1-Dichloroethene | 10 | N.D. |
| cis-1,2-Dichloroethene | 10 | N.D. |
| trans-1,2-Dichloroethene | 10 | N.D. |
| 1,2-Dichloropropane | 10 | N.D. |
| cis-1,3-Dichloropropene | 10 | N.D. |
| trans-1,3-Dichloropropene | 10 | N.D. |
| Methylene chloride | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 10 | N.D. |
| Tetrachloroethene | 10 | N.D. |
| 1,1,1-Trichloroethane | 10 | N.D. |
| 1,1,2-Trichloroethane | 10 | N.D. |
| **Trichloroethene** | **10** | **68** |
| Trichlorofluoromethane | 20 | N.D. |
| Vinyl chloride | 20 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW15B | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0966 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | N.D. |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW17B | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0967 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| **cis-1,2-Dichloroethene** | **0.50** | **10** |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **530** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW17B-DUP | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0968 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| **cis-1,2-Dichloroethene** | **0.50** | **10** |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **530** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW18B | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0969 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 5.0 | N.D. |
| Bromoform | 10 | N.D. |
| Bromomethane | 10 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. |
| Chlorobenzene | 5.0 | N.D. |
| Chloroethane | 10 | N.D. |
| 2-Chloroethylvinyl ether | 5.0 | N.D. |
| Chloroform | 5.0 | N.D. |
| Chloromethane | 10 | N.D. |
| Dibromochloromethane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 5.0 | N.D. |
| 1,1-Dichloroethane | 5.0 | N.D. |
| 1,2-Dichloroethane | 5.0 | N.D. |
| 1,1-Dichloroethene | 5.0 | N.D. |
| **cis-1,2-Dichloroethene** | **5.0** | **54** |
| trans-1,2-Dichloroethene | 5.0 | N.D. |
| 1,2-Dichloropropane | 5.0 | N.D. |
| cis-1,3-Dichloropropene | 5.0 | N.D. |
| trans-1,3-Dichloropropene | 5.0 | N.D. |
| Methylene chloride | 50 | N.D. |
| 1,1,2,2-Tetrachloroethane | 5.0 | N.D. |
| Tetrachloroethene | 5.0 | N.D. |
| 1,1,1-Trichloroethane | 5.0 | N.D. |
| 1,1,2-Trichloroethane | 5.0 | N.D. |
| **Trichloroethene** | **5.0** | **1,500** |
| Trichlorofluoromethane | 10 | N.D. |
| Vinyl chloride | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL**

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW18B1 | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0970 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 130 | N.D. |
| Bromoform | 250 | N.D. |
| Bromomethane | 250 | N.D. |
| Carbon tetrachloride | 130 | N.D. |
| Chlorobenzene | 130 | N.D. |
| Chloroethane | 250 | N.D. |
| 2-Chloroethylvinyl ether | 130 | N.D. |
| Chloroform | 130 | N.D. |
| Chloromethane | 250 | N.D. |
| Dibromochloromethane | 130 | N.D. |
| 1,2-Dichlorobenzene | 130 | N.D. |
| 1,3-Dichlorobenzene | 130 | N.D. |
| 1,4-Dichlorobenzene | 130 | N.D. |
| 1,1-Dichloroethane | 130 | N.D. |
| 1,2-Dichloroethane | 130 | N.D. |
| 1,1-Dichloroethene | 130 | N.D. |
| cis-1,2-Dichloroethene | 130 | N.D. |
| trans-1,2-Dichloroethene | 130 | N.D. |
| 1,2-Dichloropropane | 130 | N.D. |
| cis-1,3-Dichloropropene | 130 | N.D. |
| trans-1,3-Dichloropropene | 130 | N.D. |
| Methylene chloride | 1,300 | N.D. |
| 1,1,2,2-Tetrachloroethane | 130 | N.D. |
| Tetrachloroethene | 130 | N.D. |
| 1,1,1-Trichloroethane | 130 | N.D. |
| 1,1,2-Trichloroethane | 130 | N.D. |
| **Trichloroethene** | **130** | **2,200** |
| Trichlorofluoromethane | 250 | N.D. |
| Vinyl chloride | 250 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL**

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW1BB2 | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/B010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0971 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 200 | N.D. |
| Bromoform | 400 | N.D. |
| Bromomethane | 400 | N.D. |
| Carbon tetrachloride | 200 | N.D. |
| Chlorobenzene | 200 | N.D. |
| Chloroethane | 400 | N.D. |
| 2-Chloroethylvinyl ether | 200 | N.D. |
| Chloroform | 200 | N.D. |
| Chloromethane | 400 | N.D. |
| Dibromochloromethane | 200 | N.D. |
| 1,2-Dichlorobenzene | 200 | N.D. |
| 1,3-Dichlorobenzene | 200 | N.D. |
| 1,4-Dichlorobenzene | 200 | N.D. |
| 1,1-Dichloroethane | 200 | N.D. |
| 1,2-Dichloroethane | 200 | N.D. |
| 1,1-Dichloroethene | 200 | N.D. |
| cis-1,2-Dichloroethene | 200 | N.D. |
| trans-1,2-Dichloroethene | 200 | N.D. |
| 1,2-Dichloropropane | 200 | N.D. |
| cis-1,3-Dichloropropene | 200 | N.D. |
| trans-1,3-Dichloropropene | 200 | N.D. |
| Methylene chloride | 2,000 | N.D. |
| 1,1,2,2-Tetrachloroethane | 200 | N.D. |
| Tetrachloroethene | 200 | N.D. |
| 1,1,1-Trichloroethane | 200 | N.D. |
| 1,1,2-Trichloroethane | 200 | N.D. |
| **Trichloroethene** | **200** | **5,300** |
| Trichlorofluoromethane | 400 | N.D. |
| Vinyl chloride | 400 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL**

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW20B | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0972 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| **Chloroethane** | **1.0** | **7.5** |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| **1,2-Dichloroethane** | **0.50** | **0.92** |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | N.D. |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW4A | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0973 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **0.52** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW14A | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0974 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 1,000 | N.D. |
| Bromoform | 2,000 | N.D. |
| Bromomethane | 2,000 | N.D. |
| Carbon tetrachloride | 1,000 | N.D. |
| Chlorobenzene | 1,000 | N.D. |
| Chloroethane | 2,000 | N.D. |
| 2-Chloroethylvinyl ether | 1,000 | N.D. |
| Chloroform | 1,000 | N.D. |
| Chloromethane | 2,000 | N.D. |
| Dibromochloromethane | 1,000 | N.D. |
| 1,2-Dichlorobenzene | 1,000 | N.D. |
| 1,3-Dichlorobenzene | 1,000 | N.D. |
| 1,4-Dichlorobenzene | 1,000 | N.D. |
| 1,1-Dichloroethane | 1,000 | N.D. |
| 1,2-Dichloroethane | 1,000 | N.D. |
| 1,1-Dichloroethene | 1,000 | N.D. |
| cis-1,2-Dichloroethene | 1,000 | N.D. |
| trans-1,2-Dichloroethene | 1,000 | N.D. |
| 1,2-Dichloropropane | 1,000 | N.D. |
| cis-1,3-Dichloropropene | 1,000 | N.D. |
| trans-1,3-Dichloropropene | 1,000 | N.D. |
| Methylene chloride | 10,000 | N.D. |
| 1,1,2,2-Tetrachloroethane | 1,000 | N.D. |
| Tetrachloroethene | 1,000 | N.D. |
| 1,1,1-Trichloroethane | 1,000 | N.D. |
| 1,1,2-Trichloroethane | 1,000 | N.D. |
| **Trichloroethene** | **1,000** | **12,000** |
| Trichlorofluoromethane | 2,000 | N.D. |
| Vinyl chloride | 2,000 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

C. Lambesis

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Laboratory Director

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW14A DUP | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0975 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 1,000 | N.D. |
| Bromoform | 2,000 | N.D. |
| Bromomethane | 2,000 | N.D. |
| Carbon tetrachloride | 1,000 | N.D. |
| Chlorobenzene | 1,000 | N.D. |
| Chloroethane | 2,000 | N.D. |
| 2-Chloroethylvinyl ether | 1,000 | N.D. |
| Chloroform | 1,000 | N.D. |
| Chloromethane | 2,000 | N.D. |
| Dibromochloromethane | 1,000 | N.D. |
| 1,2-Dichlorobenzene | 1,000 | N.D. |
| 1,3-Dichlorobenzene | 1,000 | N.D. |
| 1,4-Dichlorobenzene | 1,000 | N.D. |
| 1,1-Dichloroethane | 1,000 | N.D. |
| 1,2-Dichloroethane | 1,000 | N.D. |
| 1,1-Dichloroethene | 1,000 | N.D. |
| cis-1,2-Dichloroethene | 1,000 | N.D. |
| trans-1,2-Dichloroethene | 1,000 | N.D. |
| 1,2-Dichloropropane | 1,000 | N.D. |
| cis-1,3-Dichloropropene | 1,000 | N.D. |
| trans-1,3-Dichloropropene | 1,000 | N.D. |
| Methylene chloride | 10,000 | N.D. |
| 1,1,2,2-Tetrachloroethane | 1,000 | N.D. |
| Tetrachloroethene | 1,000 | N.D. |
| 1,1,1-Trichloroethane | 1,000 | N.D. |
| 1,1,2-Trichloroethane | 1,000 | N.D. |
| **Trichloroethene** | **1,000** | **8,800** |
| Trichlorofluoromethane | 2,000 | N.D. |
| Vinyl chloride | 2,000 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW15A | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0976 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| **cis-1,2-Dichloroethene** | **0.50** | **1.6** |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **13** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW17A | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/B010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0978 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **1.3** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW18A | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0977 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 250 | N.D. |
| Bromoform | 500 | N.D. |
| Bromomethane | 500 | N.D. |
| Carbon tetrachloride | 250 | N.D. |
| Chlorobenzene | 250 | N.D. |
| Chloroethane | 500 | N.D. |
| 2-Chloroethylvinyl ether | 250 | N.D. |
| Chloroform | 250 | N.D. |
| Chloromethane | 500 | N.D. |
| Dibromochloromethane | 250 | N.D. |
| 1,2-Dichlorobenzene | 250 | N.D. |
| 1,3-Dichlorobenzene | 250 | N.D. |
| 1,4-Dichlorobenzene | 250 | N.D. |
| 1,1-Dichloroethane | 250 | N.D. |
| 1,2-Dichloroethane | 250 | N.D. |
| 1,1-Dichloroethene | 250 | N.D. |
| cis-1,2-Dichloroethene | 250 | N.D. |
| trans-1,2-Dichloroethene | 250 | N.D. |
| 1,2-Dichloropropane | 250 | N.D. |
| cis-1,3-Dichloropropene | 250 | N.D. |
| trans-1,3-Dichloropropene | 250 | N.D. |
| Methylene chloride | 2,500 | N.D. |
| 1,1,2,2-Tetrachloroethane | 250 | N.D. |
| Tetrachloroethene | 250 | N.D. |
| 1,1,1-Trichloroethane | 250 | N.D. |
| 1,1,2-Trichloroethane | 250 | N.D. |
| **Trichloroethene** | **250** | **6,100** |
| Trichlorofluoromethane | 500 | N.D. |
| Vinyl chloride | 500 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW19A | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0980 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 5.0 | N.D. |
| Bromoform | 10 | N.D. |
| Bromomethane | 10 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. |
| Chlorobenzene | 5.0 | N.D. |
| Chloroethane | 10 | N.D. |
| 2-Chloroethylvinyl ether | 5.0 | N.D. |
| Chloroform | 5.0 | N.D. |
| Chloromethane | 10 | N.D. |
| Dibromochloromethane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 5.0 | N.D. |
| 1,1-Dichloroethane | 5.0 | N.D. |
| 1,2-Dichloroethane | 5.0 | N.D. |
| 1,1-Dichloroethene | 5.0 | N.D. |
| cis-1,2-Dichloroethene | 5.0 | N.D. |
| trans-1,2-Dichloroethene | 5.0 | N.D. |
| 1,2-Dichloropropane | 5.0 | N.D. |
| cis-1,3-Dichloropropene | 5.0 | N.D. |
| trans-1,3-Dichloropropene | 5.0 | N.D. |
| Methylene chloride | 50 | N.D. |
| 1,1,2,2-Tetrachloroethane | 5.0 | N.D. |
| Tetrachloroethene | 5.0 | N.D. |
| 1,1,1-Trichloroethane | 5.0 | N.D. |
| 1,1,2-Trichloroethane | 5.0 | N.D. |
| **Trichloroethene** | **5.0** | **100** |
| Trichlorofluoromethane | 10 | N.D. |
| Vinyl chloride | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW20A | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0979 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **13** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW22A | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0981 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | N.D. |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

C. Lamberson for

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW14C | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Nurnber: | 310-0982 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 100 | N.D. |
| Bromoform | 200 | N.D. |
| Bromomethane | 200 | N.D. |
| Carbon tetrachloride | 100 | N.D. |
| Chlorobenzene | 100 | N.D. |
| Chloroethane | 200 | N.D. |
| 2-Chloroethylvinyl ether | 100 | N.D. |
| Chloroform | 100 | N.D. |
| Chloromethane | 200 | N.D. |
| Dibromochloromethane | 100 | N.D. |
| 1,2-Dichlorobenzene | 100 | N.D. |
| 1,3-Dichlorobenzene | 100 | N.D. |
| 1,4-Dichlorobenzene | 100 | N.D. |
| 1,1-Dichloroethane | 100 | N.D. |
| 1,2-Dichloroethane | 100 | N.D. |
| 1,1-Dichloroethene | 100 | N.D. |
| **cis-1,2-Dichloroethene** | **100** | **250** |
| trans-1,2-Dichloroethene | 100 | N.D. |
| 1,2-Dichloropropane | 100 | N.D. |
| cis-1,3-Dichloropropene | 100 | N.D. |
| trans-1,3-Dichloropropene | 100 | N.D. |
| Methylene chloride | 1,000 | N.D. |
| 1,1,2,2-Tetrachloroethane | 100 | N.D. |
| Tetrachloroethene | 100 | N.D. |
| 1,1,1-Trichloroethane | 100 | N.D. |
| 1,1,2-Trichloroethane | 100 | N.D. |
| **Trichloroethene** | **100** | **1,900** |
| Trichlorofluoromethane | 200 | N.D. |
| Vinyl chloride | 200 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL**

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Nov 22, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW18C | Received: | Nov 22, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Nov 24, 1993 |
| Attention: Rick Vamos | Lab Number: | 311-0997 | Reported: | Dec 2, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 20 | N.D. |
| Bromoform | 40 | N.D. |
| Bromomethane | 40 | N.D. |
| Carbon tetrachloride | 20 | N.D. |
| Chlorobenzene | 20 | N.D. |
| Chloroethane | 40 | N.D. |
| 2-Chloroethylvinyl ether | 20 | N.D. |
| Chloroform | 20 | N.D. |
| Chloromethane | 40 | N.D. |
| Dibromochloromethane | 20 | N.D. |
| 1,2-Dichlorobenzene | 20 | N.D. |
| 1,3-Dichlorobenzene | 20 | N.D. |
| 1,4-Dichlorobenzene | 20 | N.D. |
| 1,1-Dichloroethane | 20 | N.D. |
| 1,2-Dichloroethane | 20 | N.D. |
| 1,1-Dichloroethene | 20 | N.D. |
| cis-1,2-Dichloroethene | 20 | N.D. |
| trans-1,2-Dichloroethene | 20 | N.D. |
| 1,2-Dichloropropane | 20 | N.D. |
| cis-1,3-Dichloropropene | 20 | N.D. |
| trans-1,3-Dichloropropene | 20 | N.D. |
| Methylene chloride | 400 | N.D. |
| 1,1,2,2-Tetrachloroethane | 20 | N.D. |
| Tetrachloroethene | 20 | N.D. |
| 1,1,1-Trichloroethane | 20 | N.D. |
| 1,1,2-Trichloroethane | 20 | N.D. |
| Trichloroethene | 20 | 3,200 |
| Trichlorofluoromethane | 40 | N.D. |
| Vinyl chloride | 40 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keefe
Laboratory Director

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW23C | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/B010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-09B4 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **1.1** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW5D | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0990 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **6.4** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

C. Lambeis for

Kevin W. Keeley
Laboratory Director

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 20, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW14D | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0991 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | N.D. |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW18D | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0985 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 5.0 | N.D. |
| Bromoform | 10 | N.D. |
| Bromomethane | 10 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. |
| Chlorobenzene | 5.0 | N.D. |
| Chloroethane | 10 | N.D. |
| 2-Chloroethylvinyl ether | 5.0 | N.D. |
| Chloroform | 5.0 | N.D. |
| Chloromethane | 10 | N.D. |
| Dibromochloromethane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 5.0 | N.D. |
| 1,1-Dichloroethane | 5.0 | N.D. |
| 1,2-Dichloroethane | 5.0 | N.D. |
| 1,1-Dichloroethene | 5.0 | N.D. |
| cis-1,2-Dichloroethene | 5.0 | N.D. |
| trans-1,2-Dichloroethene | 5.0 | N.D. |
| 1,2-Dichloropropane | 5.0 | N.D. |
| cis-1,3-Dichloropropene | 5.0 | N.D. |
| trans-1,3-Dichloropropene | 5.0 | N.D. |
| Methylene chloride | 50 | N.D. |
| 1,1,2,2-Tetrachloroethane | 5.0 | N.D. |
| Tetrachloroethene | 5.0 | N.D. |
| 1,1,1-Trichloroethane | 5.0 | N.D. |
| 1,1,2-Trichloroethane | 5.0 | N.D. |
| **Trichloroethene** | **5.0** | **140** |
| Trichlorofluoromethane | 10 | N.D. |
| Vinyl chloride | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

C. Lambesis for

Kevin W. Keeley
Laboratory Director

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW18D DUP | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0986 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 5.0 | N.D. |
| Bromoform | 10 | N.D. |
| Bromomethane | 10 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. |
| Chlorobenzene | 5.0 | N.D. |
| Chloroethane | 10 | N.D. |
| 2-Chloroethylvinyl ether | 5.0 | N.D. |
| Chloroform | 5.0 | N.D. |
| Chloromethane | 10 | N.D. |
| Dibromochloromethane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 5.0 | N.D. |
| 1,1-Dichloroethane | 5.0 | N.D. |
| 1,2-Dichloroethane | 5.0 | N.D. |
| 1,1-Dichloroethene | 5.0 | N.D. |
| cis-1,2-Dichloroethene | 5.0 | N.D. |
| trans-1,2-Dichloroethene | 5.0 | N.D. |
| 1,2-Dichloropropane | 5.0 | N.D. |
| cis-1,3-Dichloropropene | 5.0 | N.D. |
| trans-1,3-Dichloropropene | 5.0 | N.D. |
| Methylene chloride | 50 | N.D. |
| 1,1,2,2-Tetrachloroethane | 5.0 | N.D. |
| Tetrachloroethene | 5.0 | N.D. |
| 1,1,1-Trichloroethane | 5.0 | N.D. |
| 1,1,2-Trichloroethane | 5.0 | N.D. |
| **Trichloroethene** | **5.0** | **95** |
| Trichlorofluoromethane | 10 | N.D. |
| Vinyl chloride | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

C. Lambesis for

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Laboratory Director

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW2BD | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/B010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-09BB | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **0.54** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

**GREAT LAKES ANALYTICAL**

C. Lambesis for

Kevin W. Keeley
Laboratory Director

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: MW29D | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0987 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **0.51** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

C. Lamlesis for

Kevin W. Keeley
Laboratory Director

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Oct 21, 1993 |
| 5 Revere Dr., Suite 310 | Sample Descript: | Water: Bailer Blank | Received: | Oct 21, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | 10/25 - 10/29 |
| Attention: Rick Vamos | Lab Number: | 310-0989 | Reported: | Oct 29, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **1.0** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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DePaul and Associates
5 Revere Dr., Suite 310
Northbrook, IL 60622
Attention: Rick Vamos

Client Project ID: 6330, IPM

QC Sample Group: 3100959-991

Reported: Oct 29, 1993

# QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloro-ethene | Trans 1,2-Dichloro-ethene | Chloroform | 1,1,1-Trichloro-ethane | Trichloro-ethene | Chloro-benzene |
|---|---|---|---|---|---|---|
| Method: | 8021 | 8021 | 8021 | 8021 | 8021 | 8021 |
| Analyst: | D. Parikh | D. Parikh | D. Parikh | D. Parikh | D. Parikh | D. Parikh |
| Reporting Units: | ng | ng | ng | ng | ng | ng |
| Date Analyzed: | Oct 28, 1993 | Oct 28, 1993 | Oct 28, 1993 | Oct 28, 1993 | Oct 28, 1993 | Oct 28, 1993 |
| QC Sample #: | BLK102893 | BLK102893 | BLK102893 | BLK102893 | BLK102893 | BLK102893 |
| **Sample Conc.:** | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| **Spike Conc. Added:** | 50 | 50 | 50 | 50 | 50 | 50 |
| **Conc. Matrix Spike:** | 44 | 57 | 61 | 58 | 58 | 54 |
| **Matrix Spike % Recovery:** | 88 | 114 | 122 | 116 | 116 | 108 |
| **Conc. Matrix Spike Dup.:** | 43 | 56 | 58 | 56 | 56 | 52 |
| **Matrix Spike Duplicate % Recovery:** | 86 | 112 | 116 | 112 | 112 | 104 |
| **Relative % Difference:** | 2.3 | 1.8 | 5.0 | 3.5 | 3.5 | 3.8 |

Laboratory blank contained the following analytes: None Detected

**GREAT LAKES ANALYTICAL**

Kevin W. Keeley
Laboratory Director

| | | |
|---|---|---|
| % Recovery: | Conc. of M.S. - Conc. of Sample / Spike Conc. Added | x 100 |
| Relative % Difference: | Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2 | x 100 |

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DePaul and Associates
5 Revere Dr., Suite 310
Northbrook, IL 60622
Attention: Rick Vamos

Client Project ID: 6330, IPM

QC Sample Group: 3100959-991

Reported: Oct 29, 1993

# QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloro-ethene | Trans 1,2-Dichloro-ethene | Chloroform | 1,1,1-Trichloro-ethane | Trichloro-ethene | Chloro-benzene |
|---|---|---|---|---|---|---|
| Method: | 8010 | 8010 | 8010 | 8010 | 8010 | 8010 |
| Analyst: | D. Parikh | D. Parikh | D. Parikh | D. Parikh | D. Parikh | D. Parikh |
| Reporting Units: | ng | ng | ng | ng | ng | ng |
| Date Analyzed: | Oct 27, 1993 | Oct 27, 1993 | Oct 27, 1993 | Oct 27, 1993 | Oct 27, 1993 | Oct 27, 1993 |
| QC Sample #: | BLK102793 | BLK102793 | BLK102793 | BLK102793 | BLK102793 | BLK102793 |
| **Sample Conc.:** | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| **Spike Conc. Added:** | 50 | 50 | 50 | 50 | 50 | 50 |
| **Conc. Matrix Spike:** | 41 | 57 | 64 | 60 | 60 | 71 |
| **Matrix Spike % Recovery:** | 82 | 114 | 128 | 120 | 120 | 142 |
| **Conc. Matrix Spike Dup.:** | 40 | 55 | 60 | 57 | 58 | 67 |
| **Matrix Spike Duplicate % Recovery:** | 80 | 110 | 120 | 114 | 116 | 134 |
| **Relative % Difference:** | 2.5 | 3.6 | 6.5 | 5.1 | 3.4 | 5.8 |

Laboratory blank contained the following analytes: None Detected

**GREAT LAKES ANALYTICAL**

Kevin W. Keeley
Laboratory Director

| | | |
|---|---|---|
| % Recovery: | Conc. of M.S. - Conc. of Sample / Spike Conc. Added | x 100 |
| Relative % Difference: | Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2 | x 100 |

GREAT LAKES ANALYTICAL 1380 Busch Parkway • Buffalo Grove, Illinois 60089 (708) 808-7766 FAX (708) 808-7772

DePaul and Associates
5 Revere Dr., Suite 310
Northbrook, IL 60622
Attention: Rick Vamos

Client Project ID: 6330, IPM

QC Sample Group: 3100959-991

Reported: Oct 29, 1993

# QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloro-ethene | Trans 1,2-Dichloro-ethene | Chloroform | 1,1,1-Trichloro-ethane | Trichloro-ethene | Chloro-benzene |
|---|---|---|---|---|---|---|
| Method: | 8010 | 8010 | 8010 | 8010 | 8010 | 8010 |
| Analyst: | D. Parikh | D. Parikh | D. Parikh | D. Parikh | D. Parikh | D. Parikh |
| Reporting Units: | ng | ng | ng | ng | ng | ng |
| Date Analyzed: | Oct 26, 1993 | Oct 26, 1993 | Oct 26, 1993 | Oct 26, 1993 | Oct 26, 1993 | Oct 26, 1993 |
| QC Sample #: | BLK102693 | BLK102693 | BLK102693 | BLK102693 | BLK102693 | BLK102693 |
| **Sample Conc.:** | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| **Spike Conc. Added:** | 50 | 50 | 50 | 50 | 50 | 50 |
| **Conc. Matrix Spike:** | 46 | 60 | 62 | 58 | 59 | 55 |
| **Matrix Spike % Recovery:** | 92 | 120 | 124 | 116 | 118 | 110 |
| **Conc. Matrix Spike Dup.:** | 43 | 63 | 66 | 58 | 64 | 59 |
| **Matrix Spike Duplicate % Recovery:** | 86 | 126 | 132 | 116 | 128 | 118 |
| **Relative % Difference:** | 6.7 | 4.9 | 6.3 | 0 | 8.0 | 7.0 |

Laboratory blank contained the following analytes: None Detected

**GREAT LAKES ANALYTICAL**

C. Lambesis for
Kevin W. Keeley
Laboratory Director

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{(\text{Conc. of M.S. + Conc. of M.S.D.}) / 2} \times 100$

**DEPAUL**
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

# CHAIN-OF-CUSTODY RECORD

| CLIENT NAME AND ADDRESS: | PROJECT #: G530 | SUBMITTED TO: GREAT LAKES |
|---|---|---|
| IPM | PURCHASE ORDER #: | SAMPLED BY: P. LUNA / B. NAYLOR |

| SAMPLE NUMBER | | SAMPLE DATE | SAMPLE TYPE (water/soil/air) | NUMBER OF CONTAINERS | ANALYSIS REQUESTED | COMMENTS |
|---|---|---|---|---|---|---|
| 1) MW 2 | 3100959 | 10/20/93 | WATER | 2 VOA | 8010 | STORED |
| 2) MW 4B | 3100960 | | | | | IN ICE |
| 3) MW 8 | 3100961 | | | | | |
| 4) MW 4B - DUP | 3100962 | | | | | |
| 5) MW 9 | 3100963 | | | | | |
| 6) MW 12 | 3100964 | | | | | |
| 7) MW 13 | 3100965 | | | | | |
| 8) MW 15B | 3100966 | | | | | |
| 9) MW 17B | 3100967 | | | | | |
| 10) MW 17B - DUP | 3100968 | | | | | |
| 11) MW 18B | 3100969 | | | | | |
| 12) MW 18B1 | 3100970 | | | | | |

§ § - Please Note: Method Quantification Limits (MQLs) as specified in EPA SW-846 (3rd Edition) are required - § §

| SIGNATURE and FIRM | INCLUSIVE DATES | COMMENTS |
|---|---|---|
| [signature] DAT | 10/20 - 10/21/93 | ICED |
| Kevin Knell GLA | 10/21/93 1800 | |
| | | 10-28 |

10-26

**DEPAUL**
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

# CHAIN-OF-CUSTODY RECORD

| CLIENT NAME AND ADDRESS: | PROJECT #: 6330 | SUBMITTED TO: GREAT LAKES |
|---|---|---|
| IPM | PURCHASE ORDER #: | SAMPLED BY: P. LUNA / B. NAYLOR |

| SAMPLE NUMBER | SAMPLE DATE | SAMPLE TYPE (water/soil/air) | NUMBER OF CONTAINERS | ANALYSIS REQUESTED | COMMENTS |
|---|---|---|---|---|---|
| 1) MW18BZ 3100971 | 10/20/93 | WATER | 2 VOA | 8010 | STORED |
| 2) MW20B 3100972 | ↓ | ↓ | ↓ | ↓ | ON ICE |
| 3) MW4A 3100973 | 10/21/93 | ↓ | ↓ | ↓ | ↓ |
| 4) MW14A 3100974 | ↓ | ↓ | ↓ | ↓ | ↓ |
| 5) MW14A DUP 3100975 | ↓ | ↓ | ↓ | ↓ | ↓ |
| 6) MW15A 3100976 | ↓ | ↓ | ↓ | ↓ | ↓ |
| 7) MW18A 3100977 | ↓ | ↓ | ↓ | ↓ | ↓ |
| 8) MW17A 3100978 | ↓ | ↓ | ↓ | ↓ | ↓ |
| 9) MW20A 3100979 | ↓ | ↓ | ↓ | ↓ | ↓ |
| 10) MW19A 3100980 | ↓ | ↓ | ↓ | ↓ | ↓ |
| 11) MW22A 3100981 | ↓ | ↓ | ↓ | ↓ | ↓ |
| 12) MW14C 3100982 | ↓ | ↓ | ↓ | ↓ | ↓ |

§ § - Please Note: Method Quantification Limits (MQLs) as specified in EPA SW-846 (3rd Edition) are required - § §

| SIGNATURE and FIRM | INCLUSIVE DATES | COMMENTS |
|---|---|---|
| [signature] DAI | 10/20 - 10/21/93 | |
| Kevin Krull GLA | 10/21/93 1800 | |
| | | |

**DEPAUL**
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

# CHAIN-OF-CUSTODY RECORD

| CLIENT NAME AND ADDRESS: | PROJECT #: 6330 | SUBMITTED TO: GREAT LAKES |
|---|---|---|
| IPM | PURCHASE ORDER #: | SAMPLED BY: P. LUNA / B. NAYLOR |

| SAMPLE NUMBER | SAMPLE DATE | SAMPLE TYPE (water/soil/air) | NUMBER OF CONTAINERS | ANALYSIS REQUESTED | COMMENTS |
|---|---|---|---|---|---|
| 1) MW18C 3100983 | 10/21/93 | WATER | 2 VOA | 8010 | STORED |
| 2) MW23C 3100984 | | | | | ON ICE |
| 3) MW18D 3100985 | | | | | |
| 4) MW18D DUP 3100986 | | | | | |
| 5) MW29D 3100987 | | | | | |
| 6) MW28D 3100988 | | | | | |
| 7) BAILER BLANK 3100989 | | | | | |
| 8) MW5D 3100990 | | | | | |
| 9) MW14D 3100991 | 10/20/93 | | | | |
| 10) | | | | | |
| 11) | | | | | |
| 12) | | | | | |

§ § - Please Note: Method Quantification Limits (MQLs) as specified in EPA SW-846 (3rd Edition) are required - § §

| SIGNATURE and FIRM | INCLUSIVE DATES | COMMENTS |
|---|---|---|
| [signature] DAI | 10/20 - 10/21/93 | ICED |
| Kevin Knoll GLA | 10/21/93 1800 | |
| | | |

# APPENDIX D

# SUMMARY OF ANALYTICAL RESULTS

# GROUNDWATER MONITORING PROGRAM

## B-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-1 | 07/28/93 | <1,.000 | 13,000 | 1,900 | <2,000 | <1,000 | <1,000 |
| | 07/30/92 | <500 | 52,000 | <500 | <1,000 | <500 | <500 |
| | 07/25/91 | 69 | <100 | 3,300 | <100 | 31 | <100 |
| | 01/24/91 | 84 | 8,700 | <250 | <250 | <250 | <250 |
| | 07/13/90 | 222 | 21,400 | 6,151 | 115 | <5 | 5.90 |
| | 02/16/90 | 100 | 10,000 | 6,100 | <100 | <100 | <100 |
| | 05/08/89 | 2,150 | 440,000 | <1,000 | <1,000 | <1,000 | <1,000 |
| | 03/09/89 | 3,500 | 103,000 | <100 | <100 | <100 | <100 |
| | 09/29/88 | <10,000 | 680,000 | <10,000 | <10,000 | <10,000 | <10,000 |
| MW-2 | 10/20/93 | <0.50 | <0.50 | 1.1 | <1.0 | <0.50 | <0.50 |
| | 07/28/93 | <0.50 | 1.4 | 1.6 | 1.1 | <0.50 | <0.50 |
| | 04/14/93 | <0.50 | 0.89 | 1.8 | <1.0 | <0.50 | <0.50 |
| | 01/22/93 | <2.0 | 39 | 2.1 | <4.0 | <2.0 | <2.0 |
| | 10/21/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | 1.4 | 21.55 | <1.0 | <0.50 | <0.50 |
| | 04/15/92 | 0.3 | 1.7 | <1.0 | <1.8 | <0.3 | <0.2 |
| | 01/13/92 | <0.3 | 2.8 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | 6.76 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 09/29/88 | <1 | 2 | <1 | <1 | <1 | <1 |
| MW-3 | 07/28/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | 1.94 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 09/29/88 | <1 | 3 | 1 | <1 | <1 | <1 |

## B-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
## (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-4B | 10/20/93 | <5.0 | 46 | 640 | <10 | <5.0 | <5.0 |
| | 10/20/93[1] | <5.0 | 54 | 660 | <10 | <5.0 | <5.0 |
| | 07/28/93 | 100 | 7,400 | 1,923 | <10 | 22 | <5.0 |
| | 04/14/93 | <5.0 | 41 | 200 | <10 | <5.0 | <5.0 |
| | 01/21/93 | <2.5 | 71 | 220 | <5.0 | <2.5 | <2.5 |
| | 10/21/92 | <2.5 | 88 | 2,004 | 130 | <2.5 | <2.5 |
| | 07/30/92 | <2.5 | 89 | 170 | <5.0 | <2.5 | <2.5 |
| | 04/15/92 | <0.3 | 63 | 180 | <1.8 | <0.3 | <0.2 |
| | 01/10/92 | <0.3 | 90 | 380 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <5 | 65 | 310 | <5 | <5 | <5 |
| | 07/25/91 | <5 | 140 | 470 | <5 | <5 | <5 |
| | 04/25/91 | <5 | 190 | 970 | <5 | 5 | <5 |
| | 01/24/91 | 2 | <5 | 10 | 100 | <5 | 240 |
| | 07/13/90 | 1.43 | 252 | 538 | 14.4 | <1 | <1 |
| | 05/08/89 | <1 | <1 | 32 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-5B | 07/28/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/23/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-6B | 07/28/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | 2 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-7B | 07/28/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |

[1]Duplicate

## B-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
## (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-8 | 10/20/93 | <50 | <50 | 1,300 | <100 | <50 | <50 |
| | 07/28/93 | <50 | 130 | 1,500 | <100 | <50 | <50 |
| | 04/14/93 | <50 | 600 | 1,300 | <100 | <50 | <50 |
| | 01/22/93 | <50 | 240 | 1,200 | <100 | <50 | <50 |
| | 10/21/92 | <50 | 3,700 | 240 | <100 | <50 | <50 |
| | 07/30/92 | <5.0 | 1,300 | 87 | <10 | <5.0 | <5.0 |
| | 04/15/92 | 0.45 | 1,700 | 59 | <1.8 | <0.3 | <0.2 |
| | 01/08/92 | <0.3 | 400 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 190 | 6 | <1 | <1 | <1 |
| | 01/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 02/16/90 | <1 | 8 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | 21 | <1 | <1 | <1 | <1 |
| | 04/14/89 | <1 | 4 | <1 | <1 | <1 | <1 |
| MW-9 | 10/20/93 | <50 | 140 | 460 | <100 | <50 | <50 |
| | 07/28/93 | <50 | 140 | 1,100 | <100 | <50 | <50 |
| | 04/14/93 | <50 | 420 | 1,300 | <100 | <50 | <50 |
| | 01/22/93 | <50 | 110 | 2,400 | <100 | <50 | <50 |
| | 10/21/92 | <50 | 2,900 | 1,700 | <100 | <50 | <50 |
| | 07/30/92 | <500 | 6,700 | <500 | <1,000 | <500 | <500 |
| | 04/16/92 | 2.4 | 6,600 | 110 | <1.8 | <0.3 | <0.20 |
| | 01/08/92 | <0.3 | 3,700 | 110 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <25 | 620 | <25 | <25 | <25 | <25 |
| | 07/25/91 | <25 | 620 | <25 | <25 | <25 | <25 |
| | 04/25/91 | <1 | 1,600 | 26 | <1 | <1 | <1 |
| | 01/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 02/16/90 | <1 | 1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | 4 | <1 | <1 | <1 | <1 |
| | 04/14/89 | <1 | 4 | <1 | <1 | <1 | <1 |
| MW-10 | 07/28/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 02/16/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/14/89 | <1 | 2 | <1 | <1 | <1 | <1 |
| MW-11 | 07/28/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 02/16/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/14/89 | <1 | <1 | <1 | <1 | <1 | <1 |

## B-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
## (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-12 | 10/20/93 | <10 | 220 | 12 | <20 | <10 | <10 |
| | 07/28/93 | <10 | 400 | 37 | <20 | <10 | <10 |
| | 04/14/93 | <10 | 300 | 15 | <20 | <10 | <10 |
| | 01/22/93 | <10 | 300 | 18 | <20 | <10 | <10 |
| | 10/21/92 | <2.5 | 1,300 | <2.5 | <5.0 | <2.5 | <2.5 |
| | 07/30/92 | <2.5 | 870 | 8.6 | <5.0 | <2.5 | <2.5 |
| | 04/15/92 | <0.30 | 160 | 11 | <4.0 | <0.3 | <0.20 |
| | 01/08/92 | <0.3 | 340 | 25 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <25 | 570 | <25 | <25 | <25 | <25 |
| | 07/25/91 | <25 | 1,500 | <25 | <25 | <25 | <25 |
| | 04/25/91 | 4 | 770 | 38 | <5 | 2 | <5 |
| | 01/25/91 | <5 | 330 | <5 | <5 | 2 | <5 |
| | 07/13/90 | 1.40 | 566 | 39.1 | <1 | 1.84 | <1 |
| | 02/16/90 | <1 | 1,400 | 30 | <1 | <1 | <1 |
| MW-13 | 10/20/93 | <10 | 68 | <10 | <20 | <10 | <10 |
| | 07/28/93 | <10 | 380 | <10 | <20 | <10 | <10 |
| | 04/14/93 | <10 | 240 | <10 | <20 | <10 | <10 |
| | 01/22/93 | <5.0 | 230 | <5.0 | <10 | <5.0 | <5.0 |
| | 10/21/92 | <5.0 | 190 | <5.0 | <10 | <5.0 | <5.0 |
| | 07/30/92 | <50 | 2,100 | <50 | <100 | <50 | <50 |
| | 04/17/92 | 0.52 | 200 | 8.4 | <1.8 | 1.0 | <0.20 |
| | 01/08/92 | <0.3 | 19,000 | 130 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 200 | 27 | <1 | <1 | <1 |
| | 01/25/91 | <1 | 74 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | 1.70 | 26.4 | 7.21 | <1 | <1 |
| | 02/16/90 | <1 | 180 | 2 | <1 | <1 | <1 |
| MW-15B | 10/20/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/93 | <0.50 | 1.3 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/13/93 | <0.50 | <0.50 | <0.50 | <1.0 | 1.0 | <0.50 |
| | 01/21/93 | <0.50 | 7.0 | 0.67 | <1.0 | <0.50 | <0.50 |
| | 10/21/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | <0.50 | 12 | <1.0 | <0.50 | <0.50 |
| | 04/15/92 | <0.30 | <1.2 | <1.0 | <1.8 | <0.30 | <0.20 |
| | 01/10/92 | <0.30 | <1.2 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/23/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/11/90 | <1 | 5.05 | <1 | <1 | <1 | <1 |

## B-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
## (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-17B | 10/20/93 | <0.50 | 530 | 10 | <1.0 | <0.50 | <0.50 |
| | 10/20/93[1] | <0.50 | 530 | 10 | <1.0 | <0.50 | <0.50 |
| | 07/28/93 | <25 | 990 | 33 | <50 | <25 | <25 |
| | 04/14/93 | <10 | 760 | 26 | <20 | <10 | <10 |
| | 01/21/93 | <0.50 | 8.5 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/28/92 | <50 | 530 | <50 | <100 | <50 | <50 |
| | 07/30/92 | <5.0 | 1000 | 29 | <10 | <5.0 | <5.0 |
| | 01/10/92 | <0.3 | 980 | 58 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <10 | 710 | 30 | <10 | <10 | <10 |
| | 07/25/91 | <10 | 1,800 | 33 | <10 | <10 | <10 |
| | 04/25/91 | <25 | 600 | <25 | <25 | <25 | <25 |
| | 01/24/91 | <25 | 900 | <25 | <25 | <25 | <25 |
| | 07/11/90 | 25.1 | 12,600 | 6.06 | <1 | <1 | <1 |
| MW-18B | 10/20/93 | <5.0 | 1,500 | 54 | <10 | <5.0 | <5.0 |
| | 07/28/93 | <50 | 830 | 58 | <100 | <50 | <50 |
| | 04/14/93 | <50 | 690 | 69 | <100 | <50 | <50 |
| | 01/22/93 | <50 | 2,000 | 71 | <100 | <50 | <50 |
| | 10/21/92 | <50 | 1,700 | <50 | <100 | <50 | <50 |
| | 07/30/92 | 6.9 | 1,400 | 33 | <10 | <5.0 | <5.0 |
| | 04/16/92 | 4.5 | 680 | 33 | <4.0 | <0.30 | <0.20 |
| | 01/09/92 | 15 | 1,300 | 88 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | 190 | 5,900 | <100 | <100 | <100 | <100 |
| | 07/25/91 | <100 | 2,000 | <100 | <100 | <100 | <100 |
| | 04/25/91 | <100 | 5,700 | <100 | <100 | <100 | <100 |
| | 01/25/91 | <100 | 5,000 | <100 | <100 | <100 | <100 |
| | 07/11/90 | 226 | 48,500 | <1 | <1 | <1 | <1 |
| MW-18B1 | 10/20/93 | <130 | 2,200 | <130 | <250 | <130 | <130 |
| | 07/28/93 | <50 | 1,600 | <50 | <100 | <50 | <50 |
| | 04/14/93 | <50 | 1,400 | <50 | <100 | <50 | <50 |
| | 01/22/93 | <250 | 6,900 | <250 | <500 | <250 | <250 |
| | 10/21/92 | <500 | 6,400 | <500 | <1,000 | <500 | <500 |
| | 07/30/92 | <500 | 7,300 | <500 | <1,000 | <500 | <500 |
| | 04/16/92 | 56 | 3,400 | 62 | <1.8 | <0.3 | <0.2 |
| | 01/09/92 | 53 | 5,500 | 100 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | 100 | 2,000 | 140 | <10 | <10 | <10 |

[1]Duplicate

## B-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
## (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-18B2 | 10/20/93 | <200 | **5,300** | <200 | <400 | <200 | <200 |
| | 07/28/93 | <250 | **9,900** | <250 | <500 | <250 | <250 |
| | 04/14/93 | <50 | **1,600** | <50 | <100 | <50 | <50 |
| | 01/22/93 | <50 | **1,100** | <50 | <100 | <50 | <50 |
| | 10/21/92 | <500 | **20,000** | <500 | <1,000 | <500 | <500 |
| | 07/30/92 | <0.50 | **17,000** | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/16/92 | **9.7** | **480** | <1 | <4.0 | <0.3 | <0.2 |
| | 01/10/92 | **51** | **2,600** | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | **50** | **1,600** | <10 | <10 | <10 | <10 |
| MW-20B | 10/20/93[1] | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/13/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/22/93 | <0.50 | **4.4** | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/13/92 | <0.3 | <1.2 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-21B | 07/28/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

[1]7.5-μg/L Chloroethane, 0.92-μg/L 1,2-Dichloroethane. Suspect laboratory contamination.

## A-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-4A | 10/21/93 | <0.50 | 0.52 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/13/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/21/93 | <0.50 | 1.3 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | 12 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/15/92 | <0.3 | <1.2 | <1 | <1.8 | 1.2 | <0.2 |
| | 01/10/92 | <0.3 | <1.2 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 9 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | 1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | 5.79 | 1.70 | <1 | <1 | <1 |
| | 04/09/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 03/06/90 | 4 | 260 | 2 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-5A | 07/28/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/23/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | 3.49 | <1 | <1 | <1 | <1 |
| | 04/09/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | 2 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-6A | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/09/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-7A | 07/28/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/09/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |

# A-ZONE MONITORING WELLS
# CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
# (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-14A | 10/21/93 | <1,000 | 12,000 | <1,000 | <2,000 | <1,000 | <1,000 |
| | 10/21/93[1] | <1,000 | 8,800 | <1,000 | <2,000 | <1,000 | <1,000 |
| | 07/29/93 | <1,000 | 40,000 | <1,000 | <2,000 | <1,000 | <1,000 |
| | 04/15/93 | <500 | 4,500 | <500 | <1,000 | <500 | <500 |
| | 01/21/93 | <500 | 10,000 | <500 | <1,000 | <500 | <500 |
| | 10/22/92 | <500 | 32,000 | <500 | <1,000 | <500 | <500 |
| | 07/30/92 | <500 | 20,000 | 1,100 | <1,000 | 560 | <500 |
| | 04/17/92 | 290 | 25,000 | 200 | <1.8 | <0.30 | <0.20 |
| | 01/13/92 | 1,900 | 160,000 | 120 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | 370 | 4,800 | 50 | <25 | <25 | <25 |
| | 07/25/91 | 160 | 15,000 | 64 | <25 | <25 | <25 |
| | 04/25/91 | <100 | 1,200 | <100 | <100 | <100 | <100 |
| | 01/24/91 | <25 | 7,400 | <25 | <25 | <25 | <25 |
| | 07/11/90 | 133 | 22,000 | <1 | <1 | <1 | <1 |
| MW-15A | 10/21/93 | <0.50 | 13 | 1.6 | <1.0 | <0.50 | <0.50 |
| | 07/29/93 | <0.50 | 13 | 2.0 | <1.0 | <0.50 | <0.50 |
| | 04/13/93 | <5.0 | 74 | 8.5 | <10 | <5.0 | <5.0 |
| | 01/21/93 | <0.50 | 14 | 9.0 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <0.50 | <1.0 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | 3.5 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/20/92 | <0.3 | <0.90 | <1 | <1.8 | <0.30 | <0.20 |
| | 01/10/92 | <0.3 | 22 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 1 | <1 | <1 | <1 | <1 |
| | 01/23/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/11/90 | <1 | 5.39 | <1 | <1 | <1 | <1 |
| MW-16A | 07/28/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | 18.4 | <1 | <1 | <1 | <1 |

[1]Duplicate.

# A-ZONE MONITORING WELLS
# CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
# (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-17A | 10/21/93 | <0.50 | 1.3 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/93 | <0.50 | 1.8 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/13/93 | <0.50 | 1.0 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/21/93 | <0.50 | 6.4 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/28/92 | <0.50 | 0.66 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/92 | <0.50 | 1.9 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/10/92 | <0.3 | <1.2 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | 1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | 1 | <1 | <1 | <1 | <1 |
| MW-18A | 10/21/93 | <250 | 6,100 | <250 | <500 | <250 | <250 |
| | 07/29/93 | <250 | 7,500 | 290 | <500 | <250 | <250 |
| | 04/15/93 | <500 | 7,700 | 640 | <1,000 | <500 | <500 |
| | 01/22/93 | <500 | 5,500 | <500 | <1,000 | <500 | <500 |
| | 10/22/92 | <500 | 6,000 | <500 | <1,000 | <500 | <500 |
| | 07/30/92 | <500 | 14,000 | <500 | <1,000 | <500 | <500 |
| | 04/16/92 | 68 | 6,200 | <1.0 | <1.8 | <0.30 | <0.2 |
| | 01/10/92 | 40 | 4,800 | 180 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | 200 | 26,000 | 2,000 | <200 | <200 | <200 |
| | 07/25/91 | <200 | 15,000 | 470 | <200 | <200 | <200 |
| | 04/25/91 | 50 | 12,000 | 1,300 | <100 | <100 | <100 |
| | 01/25/91 | <200 | 8,000 | <200 | <200 | <200 | <200 |
| MW-19A | 10/21/93 | <5.0 | 100 | <5.0 | <10 | <5.0 | <5.0 |
| | 07/29/93 | 21 | 1,400 | 10 | <10 | <5.0 | <5.0 |
| | 04/15/93 | <5.0 | 100 | 7.2 | <10 | <5.0 | <5.0 |
| | 01/22/93 | <5.0 | 130 | 29 | <10 | <5.0 | <5.0 |
| | 10/22/92 | <2.5 | 240 | <2.5 | <5.0 | <2.5 | <2.5 |
| | 07/30/92 | <2.5 | 260 | 7.5 | <5.0 | <2.5 | <2.5 |
| | 04/15/92 | <0.30 | 120 | 12 | <4.0 | 0.55 | <0.2 |
| | 01/08/92 | <0.3 | 340 | 14 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 180 | 4 | <1 | <1 | <1 |
| | 01/25/91 | <2 | 100 | <2 | <2 | <2 | <2 |
| | 07/11/90 | <1 | 292 | <1 | <1 | <1 | <1 |
| MW-20A | 10/21/93 | <0.50 | 13 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/93 | <0.50 | 0.60 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/13/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/22/93 | <5.0 | 38 | <5.0 | <10 | <5.0 | <5.0 |
| | 10/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/13/92 | <0.3 | <1.2 | <1.0 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 5 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | 7 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |

## A-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
## (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-22A | 10/21/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/93 | <0.50 | 0.63 | 0.53 | <1.0 | <0.50 | <0.50 |
| | 04/13/93 | <0.50 | <0.50 | 0.59 | <1.0 | <0.50 | <0.50 |
| | 01/22/93 | <0.50 | 0.72 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <5.0 | 15 | <5.0 | <10 | <5.0 | <5.0 |
| | 07/28/92 | <0.50 | 8.2 | 4.3 | <1.0 | <0.50 | <0.50 |
| | 04/15/92 | <0.30 | <1.2 | <1.0 | <1.8 | <0.3 | <0.2 |
| | 01/08/92 | <0.3 | <1.2 | <1.0 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | 6 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | 2 | <1 | <1 | <1 | <1 |
| | 01/25/91 | <1 | 2 | <1 | <1 | <1 | <1 |
| MW-24A | 07/29/93 | <0.50 | 2.0 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/92 | <0.50 | 0.79 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/21/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-25A | 07/29/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/21/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-26A | 07/29/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/21/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-27A | 07/29/93 | <0.50 | 1.1 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/92 | <0.50 | 1.4 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/21/91 | <1 | <1 | <1 | <1 | <1 | <1 |

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

## C-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-14C | 10/21/93 | <100 | 1,900 | 250 | <200 | <100 | <100 |
| | 07/29/93 | <25 | 800 | 150 | <50 | <25 | <25 |
| | 04/14/93 | <50 | 970 | 170 | <100 | <50 | <50 |
| | 01/21/93 | <50 | 710 | 190 | <100 | <50 | <50 |
| | 10/22/92 | <50 | 1,800 | 120 | <100 | <50 | <50 |
| | 07/30/92 | <5.0 | 1,100 | 230 | <10 | <5.0 | <5.0 |
| | 04/16/92 | 4.4 | 1,300 | 130 | <4.0 | <0.3 | <0.2 |
| | 01/13/92 | 3.0 | 510 | 140 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <25 | 760 | <25 | <25 | <25 | <25 |
| | 07/25/91 | <25 | 620 | <25 | <25 | <25 | <25 |
| | 04/25/91 | 2 | 880 | 210 | <1 | <1 | <1 |
| | 03/26/91 | <1 | 3 | <1 | <1 | <1 | <1 |
| | 01/24/91 | 8 | 1,130 | <25 | <25 | <25 | <25 |
| MW-18C | 11/22/93 | <20 | 3,200 | <20 | <40 | <20 | <20 |
| | 10/21/93[1] | <2,500 | 70,000 | <2,500 | <5,000 | <2,500 | <2,500 |
| | 07/29/93 | <100 | 2,400 | <100 | <200 | <100 | <100 |
| | 04/14/93 | <0.50 | 9,000 | 460 | <1.0 | 60 | <0.50 |
| | 01/22/93 | <50 | 3,100 | 64 | <100 | <50 | <50 |
| | 10/22/92 | <50 | 3,400 | <50 | <100 | <50 | <50 |
| | 07/30/92 | <500 | 20,000 | <500 | <1,000 | <500 | <500 |
| | 04/17/92 | 2.2 | 1,900 | 36 | <1.8 | <0.3 | <0.2 |
| | 01/10/92 | 46 | 17,000 | 140 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <5 | 940 | 84 | <5 | <5 | <5 |
| | 01/25/91 | <2 | 127 | <2 | <2 | <2 | <2 |
| MW-23C | 10/21/93 | <0.50 | 1.1 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/13/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/21/93 | <0.50 | 0.82 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <0.50 | 3.8 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | 1.1 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/15/92 | 0.46 | <1.2 | <1.0 | <1.8 | <0.3 | <0.20 |
| | 01/13/92 | <0.3 | <1.2 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

[1]Suspect laboratory dilution error. Resampled on 11/22/93.

## D-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-2D | 07/29/93 | <0.50 | 1.9 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/92 | 0.92 | 2.8 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/21/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-5D | 10/21/93 | <0.50 | 6.4 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/93 | <0.50 | 8.0 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/14/93 | <0.50 | 2.4 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/21/93 | <5.0 | 42 | <5.0 | <10 | <5.0 | <5.0 |
| | 10/22/92 | <5.0 | 11 | <5.0 | <10 | <5.0 | <5.0 |
| | 07/29/92 | 0.97 | 27 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/21/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-14D | 10/21/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/93 | <0.50 | 1.3 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/13/93 | <0.50 | 0.60 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/21/93 | <0.50 | 1.1 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | <0.50 | 27 | <1.0 | <0.50 | <0.50 |
| | 04/15/92 | <0.3 | 4.3 | <1 | <1.8 | <0.30 | <0.2 |
| | 01/13/92 | <0.3 | 4.2 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 3 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | 54 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | 3 | <1 | <1 | <1 | <1 |
| MW-18D | 10/21/93 | <5.0 | 140 | <5.0 | <10 | <5.0 | <5.0 |
| | 10/21/93[1] | <5.0 | 95 | <5.0 | <10 | <5.0 | <5.0 |
| | 07/29/93 | <5.0 | 760 | 32 | <10 | <5.0 | <5.0 |
| | 04/13/93 | <5.0 | 57 | <5.0 | <10 | <5.0 | <5.0 |
| | 01/22/93 | <5.0 | 54 | <5.0 | <10 | <5.0 | <5.0 |
| | 10/22/92 | <5.0 | 81 | <5.0 | <10 | <5.0 | <5.0 |
| | 08/05/92 | <5.0 | 410 | <5.0 | <10 | <5.0 | <5.0 |
| | 04/16/92 | 4.1 | 300 | 1.2 | <4.0 | <0.3 | <0.2 |
| | 02/20/92 | <2 | 590 | <1 | <1.8 | <0.3 | <0.2 |
| | 02/20/92 | <2 | 540 | <1 | <1.8 | <0.3 | <0.2 |
| MW-28D | 10/21/93 | <0.50 | 0.54 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/93 | <0.50 | 0.67 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/13/93 | <0.50 | 0.54 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/22/93 | <0.50 | 13 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <5.0 | 31 | <5.0 | <10 | <5.0 | <5.0 |
| | 10/22/92 | 0.98 | 35 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 08/26/92 | <0.5 | <0.5 | 1.0 | <1.0 | <0.5 | <0.5 |

[1]Duplicate.

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| **MW-29D** | 10/21/93 | <0.50 | **0.51** | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/93 | <0.50 | **1.8** | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/13/93 | <0.50 | <0.50 | <0.50 | <1.0 | **0.67** | <0.50 |
| | 01/22/93 | <0.50 | **4.5** | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <0.50 | **2.5** | <0.50 | <1.0 | <0.50 | <0.50 |
| | 08/26/92 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 |

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

# E-ZONE MONITORING WELL
# CHEMICAL ANALYSIS OF GROUNDWATER ($\mu$g/L)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-18E | 01/14/94 | **4.8** | **14** | **1.0** | <1.0 | **0.84** | <0.50 |
| | 12/06/93 | <0.50 | **2.1** | <0.50 | <1.0 | <0.50 | <0.50 |
| | 11/22/93 | <0.50 | **3.0** | <0.50 | <1.0 | <0.50 | <0.50 |
| | 11/13/93 | <0.50 | **4.5** | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/25/93 | **0.64** | **19** | **18** | <1.0 | <0.50 | <0.50 |
| | 10/25/93[1] | **0.60** | **21** | **18** | <1.0 | <0.50 | <0.50 |
| | 07/29/93 | <0.50 | **16** | **1.4** | <1.0 | <0.50 | <0.50 |
| | 04/15/93 | <1.0 | **9.0** | <1.0 | <2.0 | <1.0 | <1.0 |
| | 03/16/93[2] | | | | | | |
| | -1 | <0.5 | <0.5 | <0.5 | NS | <0.5 | NS |
| | -2 | <0.5 | <0.5 | <0.5 | NS | <0.5 | NS |
| | -3 | <0.5 | <0.5 | <0.5 | NS | <0.5 | NS |
| | -4 | <0.5 | **0.76** | <0.5 | NS | **0.70** | NS |
| | -5 | <0.5 | **0.63** | <0.5 | NS | <0.5 | NS |
| | 03/02/93[3] | | | | | | |
| | -4P | <0.5 | <0.5 | <0.5 | NS | <0.5 | NS |
| | -5P | <0.5 | <0.5 | <0.5 | NS | <0.5 | NS |
| | -6B | **2.8** | **10** | <0.5 | NS | <0.5 | NS |
| | 02/19/93[4] | | | | | | |
| | -PS | **33** | **14** | **2.7** | NS | **1.1** | NS |
| | -BS-1 | **28** | **4.9** | <2.5 | NS | <2.5 | NS |
| | -BS-2 | **24** | **12** | <2.5 | NS | <2.5 | NS |

NS = Not Sampled

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = cis-1,2-Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

[1]Duplicate.

[2]Samples taken during preliminary startup tests. Samples 1 through 3 are pump samples. Samples 4 and 5 are bailer samples.

[3]Samples taken during preliminary startup tests. Samples 4P and 5P are pump samples. Sample 6B is a bailer sample.

[4]Samples taken during preliminary startup tests. Sample PS is a pump sample. Samples BS-1 and BS-2 are bailer samples.

# APPENDIX E

# GROUNDWATER ELEVATIONS

## SUMMARY OF GROUNDWATER ELEVATIONS
(October 19, 1993)

| MONITORING WELL | PARAMETERS Based on Mean Sea Level (ft) | | |
|---|---|---|---|
| | Elevation of Datum | Depth to Groundwater | Elevation of Groundwater |
| MW-1 | 661.15 | 20.86 | 640.29 |
| MW-2 | 661.32 | 19.30 | 642.02 |
| MW-2D | 660.53 | 50.60 | 609.93 |
| MW-3 | 661.43 | 18.56 | 642.87 |
| MW-4A | 660.55 | 43.42 | 617.13 |
| MW-4B | 660.68 | 18.66 | 642.02 |
| MW-5A | 657.40 | 21.58 | 635.82 |
| MW-5B | 657.11 | 16.58 | 640.53 |
| MW-5D | 657.53 | 46.64 | 610.89 |
| MW-6A | 660.71 | DRY | DRY |
| MW-6B | 660.82 | 17.84 | 642.98 |
| MW-7A | 658.01 | 29.90 | 628.11 |
| MW-7B | 657.99 | 18.26 | 639.73 |
| MW-8 | 658.41 | 18.86 | 639.55 |
| MW-9 | 658.31 | 19.04 | 639.27 |
| MW-10 | 658.26 | 18.66 | 639.60 |
| MW-11 | 658.16 | 18.62 | 639.54 |
| MW-12 | 658.40 | 19.12 | 639.28 |
| MW-13 | 658.42 | 18.04 | 640.38 |
| MW-14A | 657.18 | 39.90 | 617.28 |
| MW-14C | 654.73 | 41.79 | 612.94 |
| MW-14D | 653.58 | 42.36 | 611.22 |
| MW-15A | 656.87 | 22.24 | 634.63 |
| MW-15B | 656.89 | 15.78 | 641.11 |

Continued on following page

SUMMARY OF GROUNDWATER ELEVATIONS
(October 19, 1993)

| MONITORING WELL | PARAMETERS Based on Mean Sea Level (ft) | | |
|---|---|---|---|
| | Elevation of Datum | Depth to Groundwater | Elevation of Groundwater |
| MW-16A | 660.90 | 43.30 | 617.60 |
| MW-17A | 658.10 | 39.22 | 618.88 |
| MW-17B | 657.54 | 16.99 | 640.55 |
| MW-18A | 657.65 | 45.44 | 612.21 |
| MW-18B | 657.33 | 18.31 | 639.02 |
| MW-18B1 | 657.10 | 17.78 | 639.32 |
| MW-18B2 | 657.51 | 18.31 | 639.20 |
| MW-18C[1] | 657.53 | 67.00 | 590.53 |
| MW-18D[2] | 657.09 | 90.00 | 567.09 |
| MW-18E | 657.39 | | 657.39 |
| MW-19A | 658.20 | 33.54 | 624.66 |
| MW-20A | 657.41 | 25.70 | 631.71 |
| MW-20B | 657.32 | 15.74 | 641.58 |
| MW-21B | 657.94 | 26.32 | 631.62 |
| MW-22A | 657.78 | 23.86 | 633.92 |
| MW-23C | 657.25 | 44.08 | 613.17 |
| MW-24A | 657.41 | 20.74 | 636.67 |
| MW-25A | 656.54 | 19.24 | 637.30 |
| MW-26A | 656.67 | 21.46 | 635.21 |
| MW-27A | 661.09 | 40.92 | 620.17 |
| MW-28D | 657.67 | 45.30 | 612.37 |
| MW-29D | 657.83 | 46.48 | 611.35 |

[1]Currently operating as an extraction well. Groundwater depth and elevation are assumed based on screened depth of MW-18C.

[2]Currently operating as an extraction well. Groundwater depth and elevation are assumed based on screened depth of MW-18D.

# APPENDIX F

# GROUNDWATER RECOVERY WELL CONSTRUCTION DATA

## GROUNDWATER RECOVERY (PURGE) WELLS

| Well Number | Date Installed | Date Operation Begun | Designation | Well Diameter (inches) | Well Depth (ft bgs) | Screened Interval (ft bgs) |
|---|---|---|---|---|---|---|
| PW-1 | 8/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-2 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-3 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-4 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-5 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-6 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-7 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-8 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-9 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-10 | 12/90 | 1/91 | A,B | 4 | 85 | 10-30, 35-65 |
| PW-11 | 12/90 | 1/91 | A,B | 4 | 85 | 10-30, 35-65 |
| PW-12 | 12/90 | 1/91 | A,B | 4 | 85 | 10-30 35-60 |
| PW-13 | 7/91 | 9/91 | A,B,C | 4 | 85.58 | 5-30, 35-55, 60-75 |
| PW-14 | 7/91 | 9/91 | A,B,C | 4 | 85.58 | 5-30, 35-55, 60-75 |
| PW-15 | 6/91 | 9/91 | A,B,C | 4 | 85.58 | 5-30, 35-55, 60-75 |
| PW-16 | 6/91 | 9/91 | A,B,C | 4 | 85.58 | 5-30, 35-55, 60-75 |
| PW-17 | 7/91 | 9/91 | A,B,C | 4 | 73 | 3-28, 33-48, 53-63 |
| PW-18 | 7/91 | 9/91 | A,B,C | 4 | 73 | 3-28, 33-48, 53-63 |
| PW-19 | 6/91 | 9/91 | B | 4 | 35.25 | 5.25-35.25 |
| PW-20 | 6/91 | 9/91 | B | 4 | 35.25 | 5-35.25 |
| PW-21 | 7/91 | 9/91 | B | 4 | 25 | 5-25 |
| MW-18D | 1/92 | 4/92 | D | 2 | 96 | 91-96 |
| MW-18C | 11/90 | 5/93 | C | 2 | 74 | 68-73 |

# APPENDIX G

# NPDES SAMPLING RESULTS

# (EPA SW-846 Method 8010)

## SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

| Sample Location | Sample Date | Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | PCE | TCE | 1,1-DCE | cis-1,2-DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| Influent | 12/28/90 | <25 | 0 | <25 | * | <25 | <25 | <25 |
| | 01/04/91 | <5 | 460 | 16 | * | <5 | <5 | <5 |
| | 01/09/91 | <5 | 340 | <5 | * | <5 | <5 | <5 |
| | 01/18/91 | <1 | 300 | <1 | * | <1 | <1 | <1 |
| | 01/23/91 | 3 | 330 | <5 | * | <5 | <5 | <5 |
| | 02/01/91 | <5 | 430 | <5 | * | <5 | <5 | <5 |
| | 02/06/91 | <10 | 1,100 | <10 | * | <10 | <10 | <10 |
| | 02/21/91 | 40 | 1,400 | <10 | * | <10 | 8 | <10 |
| | 03/06/91 | <5 | 110 | <5 | <5 | <5 | <5 | <5 |
| | 04/02/91 | <5 | 680 | <5 | 19 | <5 | <5 | <5 |
| | 06/04/91 | <5 | 370 | <5 | <5 | <5 | <5 | <5 |
| | 07/01/91 | <1 | 150 | <1 | <1 | <1 | <1 | <1 |
| | 07/30/91 | <10 | 5,400 | <10 | 32 | <10 | <10 | <10 |
| | 09/03/91 | <3 | 75 | <10 | <10 | <10 | <3 | <10 |
| | 10/24/91 | <0.3 | 8,600 | <100 | <100 | <100 | <0.3 | <100 |
| | 11/06/91 | <0.3 | 7,100 | <100 | 150 | <100 | <0.3 | <100 |
| | 12/03/91 | <30 | 15,000 | <100 | 320 | <100 | <100 | <100 |
| | 01/07/92 | 230 | 9,300 | <100 | 290 | <100 | <30 | <100 |
| | 02/05/92 | 480 | 23,000 | <250 | <250 | <250 | <75 | <250 |
| | 03/03/92 | 140 | 19,000 | <250 | <250 | <250 | <75 | <250 |
| | 04/10/92 | 480 | 28,000 | <250 | 350 | <250 | <250 | <75 |
| | 05/06/92 | 110 | 1,100 | <10 | <10 | <10 | 7 | <10 |
| | 06/04/92 | <3 | 190 | <10 | 20 | <10 | 10 | <10 |
| | 06/11/92 | 230 | 410 | 27 | 340 | <10 | <3 | <10 |
| | 06/25/92 | 62 | 1,100 | <10 | 330 | <10 | <3 | <10 |
| | 07/02/92 | <50 | 9,800 | <50 | 40 | <100 | <50 | <50 |
| | 08/05/92 | <5,000 | 150,000 | <5,000 | <5,000 | <10,000 | <5,000 | <5,000 |
| | 09/03/92 | <5 | 2,200 | <5 | <5 | <10 | <5 | <5 |
| | 10/08/92 | <50 | 19,000 | <50 | 370 | <100 | <50 | <50 |
| | 11/30/92 | <500 | 9,000 | <500 | <500 | <1,000 | <500 | <500 |
| | 12/08/92 | <500 | 5,900 | <500 | <500 | <1,000 | <500 | <500 |

*Results not included in laboratory reports.

PCE = Tetrachloroethylene
TCE = Trichloroethylene
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane

## SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

| Sample Location | Sample Date | Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | PCE | TCE | 1,1-DCE | cis-1,2-DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| Influent | 01/12/93 | <1,000 | 20,000 | <1,000 | <1,000 | <2,000 | <1,000 | <1,000 |
| | 02/04/93 | <1,000 | 12,000 | <1,000 | <1,000 | <2,000 | <1,000 | <1,000 |
| | 03/04/93 | <250 | 5,100 | <250 | <250 | <500 | <250 | <250 |
| | 04/01/93 | <500 | 8,400 | <500 | <500 | <1,000 | <500 | <500 |
| | 05/06/93 | <500 | 2,300 | <500 | <500 | <1,000 | <500 | <500 |
| | 06/01/93 | <500 | 13,000 | <500 | <500 | <1,000 | <500 | <500 |
| | 07/02/93 | <500 | 16,000 | <500 | <500 | <1,000 | <500 | <500 |
| | 08/02/93 | <500 | 5,200 | <500 | <500 | <1,000 | <500 | <500 |
| | 09/01/93 | <500 | 13,000 | <500 | <500 | <1,000 | <500 | <500 |
| | 10/06/93 | <50 | 1,600 | <50 | 70 | <100 | <50 | <50 |
| | 10/22/93 | <10 | 290 | <10 | 35 | <20 | <10 | <10 |
| | 11/01/93 | <500 | 9,700 | <500 | <500 | <1,000 | <500 | <500 |
| | 12/06/93 | <500 | 4,700 | <500 | <500 | <1,000 | <500 | <500 |
| | 01/07/94 | <500 | 8,900 | <500 | <500 | <1,000 | <500 | <500 |

PCE = Tetrachloroethylene
TCE = Trichloroethylene
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane

## SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

| Sample Location | Sample Date | Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | PCE | TCE | 1,1-DCE | cis-1,2-DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| Between | 12/28/90 | <1 | 18 | <1 | * | <1 | <1 | <1 |
| | 01/04/91 | <1 | 26 | <1 | * | <1 | <1 | <1 |
| | 01/09/91 | <1 | 3 | <1 | * | <1 | <1 | <1 |
| | 01/18/91 | <1 | 7 | <1 | * | <1 | <1 | <1 |
| | 01/23/91 | <1 | 22 | <1 | * | <1 | <1 | <1 |
| | 02/01/91 | <1 | 12 | <1 | * | <1 | <1 | <1 |
| | 02/06/91 | <1 | 9 | <1 | * | <1 | <1 | <1 |
| | 02/21/91 | 0.3 | <1 | <1 | * | <1 | <0.3 | <1 |
| | 03/06/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/02/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 06/04/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/01/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/30/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 09/03/91 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 10/24/91 | 0.4 | 150 | <1 | 5 | <1 | <0.3 | <1 |
| | 11/06/91 | <0.3 | 85 | <1 | <1 | <1 | <0.3 | <1 |
| | 12/03/91 | <0.3 | 40 | <1 | 2 | <1 | <0.3 | <1 |
| | 01/07/92 | <1 | 1 | <1 | <1 | <1 | <1 | <1 |
| | 02/05/92 | <0.3 | 29 | <1 | <1 | <1 | 0.9 | <1 |
| | 03/03/92 | <0.3 | 4 | <1 | <1 | <1 | <0.3 | <1 |
| | 04/10/92 | 13 | 102 | <1 | 69 | <1 | <0.3 | <1 |
| | 05/06/92 | <0.3 | 3 | <1 | <1 | <1 | <0.3 | <1 |
| | 06/04/92 | <0.3 | <1 | <1 | 61 | <1 | <0.3 | <1 |
| | 06/11/92 | <0.3 | 77 | 3 | 39 | <1 | <0.3 | <1 |
| | 06/25/92 | 0.8 | 110 | <1 | 65 | <1 | <0.3 | <1 |
| | 07/02/92 | <50 | 1,600 | <50 | 93 | <100 | <50 | <50 |
| | 08/05/92 | <50 | 810 | <50 | <50 | <100 | <50 | <50 |
| | 09/03/92 | <50 | 110 | <50 | 7.0 | <100 | <50 | <50 |
| | 10/08/92 | <5.0 | 140 | <5.0 | 6.2 | <10 | <5.0 | <5.0 |
| | 11/30/92 | <10 | 31 | <10 | <10 | <20 | <10 | <10 |
| | 12/08/92 | <50 | 59 | <50 | <50 | <100 | <50 | <50 |

*Results not included in laboratory reports.

PCE = Tetrachloroethylene
TCE = Trichloroethylene
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane

## SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

| Sample Location | Sample Date | Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | PCE | TCE | 1,1-DCE | cis-1,2-DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| Between | 01/12/93 | <5.0 | 79 | <5.0 | <5.0 | <10 | <5.0 | <5.0 |
| | 02/04/93 | <0.50 | 14 | <0.50 | <0.50 | 2.3 | <0.50 | <0.50 |
| | 03/04/93 | <2.5 | 25 | <2.5 | <2.5 | <5.0 | <2.5 | <2.5 |
| | 04/01/93 | <0.50 | 90 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 05/06/93 | <0.50 | 8.1 | <0.50 | 5.4 | <1.0 | <0.50 | <0.50 |
| | 06/01/93 | <5.0 | 300 | <5.0 | 7.0 | <10 | <5.0 | <5.0 |
| | 07/02/93 | <5.0 | 150 | <5.0 | 71 | <10 | <5.0 | <5.0 |
| | 08/02/93 | <50 | 590 | <50 | 160 | <100 | <50 | <50 |
| | 09/01/93 | <25 | 770 | <25 | 160 | <50 | <25 | <25 |
| | 10/06/93 | <50 | 1,600 | <50 | 210 | <100 | <50 | <50 |
| | 11/01/93 | <0.50 | 3.9 | <0.50 | 4.8 | <1.0 | <0.50 | <0.50 |
| | 12/06/93 | <0.50 | 11 | <0.50 | 15 | <1.0 | <0.50 | <0.50 |
| | 01/07/94 | <5.0 | 74 | <5.0 | 40 | <10 | <5.0 | <5.0 |

PCE = Tetrachloroethylene
TCE = Trichloroethylene
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane

## SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

| Sample Location | Sample Date | Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | PCE | TCE | 1,1-DCE | cis-1,2-DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| Effluent | 12/28/90 | <1 | 5 | <1 | * | <1 | <1 | <1 |
| | 01/04/91 | 1 | 49 | <1 | * | <1 | <1 | <1 |
| | 01/09/91 | <1 | 2 | <1 | * | <1 | <1 | <1 |
| | 01/18/91 | <1 | 3 | <1 | * | <1 | <1 | <1 |
| | 01/23/91 | <1 | 8 | <1 | * | <1 | <1 | <1 |
| | 02/01/91 | <1 | 2 | <1 | * | <1 | <1 | <1 |
| | 02/06/91 | <1 | 2 | <1 | * | <1 | <1 | <1 |
| | 02/21/91 | <0.3 | <1 | <1 | * | <1 | <0.3 | <1 |
| | 03/06/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/02/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 06/04/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/01/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/30/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 09/03/91 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 10/24/91 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 11/06/91 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 12/03/91 | <0.3 | 41 | <1 | <1 | <1 | <1 | <1 |
| | 01/07/92 | <1 | 5 | <1 | <1 | <1 | <1 | <1 |
| | 02/05/92 | <0.3 | 6 | <1 | <1 | <1 | <0.3 | <1 |
| | 03/03/92 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 04/10/92 | <0.3 | 88 | <1 | <1 | <1 | <0.3 | <1 |
| | 05/06/92 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 06/04/92 | <0.3 | 3 | <1 | <1 | <1 | <0.3 | <1 |
| | 06/11/92 | <0.3 | 2 | <1 | <1 | <1 | <0.3 | <1 |
| | 06/11/92 | <0.3 | 3 | <1 | <1 | <1 | <0.3 | <1 |
| | 06/25/92 | <0.3 | 1 | 1 | 2 | <1 | <0.3 | 1 |
| | 06/25/92 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 07/02/92 | <0.50 | 6.2 | <0.50 | 5.5 | <1.0 | <0.50 | <0.50 |
| | 08/05/92 | <0.50 | 43 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 09/03/92 | <1 | 12 | <0.5 | <0.5 | <1 | <0.5 | <0.5 |
| | 10/08/92 | <0.50 | 3.5 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 11/30/92 | <50 | 450 | <50 | <50 | <100 | <50 | <50 |
| | 12/08/92 | <0.50 | 170 | <0.50 | 17 | <1.0 | <0.50 | <0.50 |

*Results not included in laboratory reports

PCE = Tetrachloroethylene
TCE = Trichloroethylene
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane

## SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

| Sample Location | Sample Date | Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | PCE | TCE | 1,1-DCE | cis-1,2-DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| Effluent | 01/12/93 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 02/04/93 | <0.50 | 2.0 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/04/93 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/01/93 | <0.50 | 3.1 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 05/06/93 | <0.50 | 2.5 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 06/01/93 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 8.1 |
| | 07/02/93 | <0.50 | 12 | <0.50 | 0.57 | <1.0 | <0.50 | <0.50 |
| | 08/02/93 | <0.50 | 1.3 | <0.50 | 1.5 | <1.0 | <0.50 | <0.50 |
| | 09/01/93 | <0.50 | 3.2 | <0.50 | 7.6 | <1.0 | <0.50 | <0.50 |
| | 10/06/93 | <1.0 | 23 | <1.0 | 26 | <2.0 | <1.0 | <1.0 |
| | 10/22/93 | <0.50 | <1.0 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 11/01/93 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 12/06/93 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/07/94 | <0.50 | 0.63 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |

PCE = Tetrachloroethylene
TCE = Trichloroethylene
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane

# APPENDIX H

# STATISTICAL ANALYSIS SUMMARY

# MW-17B MONITORING DATA

**MONITORING WELL MW-17B**

**STATISTICAL ANALYSIS**

**COMPUTATION OF SHEWHART-CUSUM CONTROL DATA**

To compute the Shewhart-CUSUM control chart for monitoring well MW-17B, the following historical contaminant concentration data was considered:

| DATE | TCVOC CONCENTRATION ($\mu$g/L) |
|---|---|
| 7/11/90 | 12,631.16 |
| 1/24/91 | 900 |
| 4/25/91 | 600 |
| 7/25/91 | 1,833 |
| 10/8/91 | 740 |
| 1/10/92 | 1,038 |
| 7/30/92 | 1,029 |
| 10/28/92 | 530 |
| 1/21/93 | 8.5 |
| 4/14/93 | 786 |
| 7/28/93 | 1,023 |
| 10/20/93 | 530 |

To calculate the historical TCVOC concentration average and standard deviation for MW-17B, all results prior to 1/21/93 were used, with the exception of 7/11/90, which was not included because it appeared to be anomalously high and non-representative. The average TCVOC concentration for these seven sampling events was 952.86-$\mu$g/L, with a standard deviation of 403.40-$\mu$g/L. Values for the statistical parameters h, k and SCL, were assumed following the recommendations provided in the indicated guidance document (USEPA's *Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities - Interim Final Guidance*). The assumed statistical parameters were as follows:

| | | |
|---|---|---|
| h | Decision internal value | 5 |
| k | Reference value | 1 |
| SCL | Shewhart control limit | 4.5 |

Using the above-mentioned parameters, and the historical contaminant concentration average and standard deviation, the contaminant concentrations at MW-17B over the last four quarterly sampling events (1/21/93 to 10/20/93) were analyzed to determine if there is statistically significant evidence of an increasing trend of contaminant concentrations at MW-17B. The cumulative sums ($S_i$) for all four sampling events were found to be zero, indicating no significant trend in contaminant concentrations at MW-17B. The calculations are summarized in the attached tables.

**KEARNEY-NATIONAL, INC.**
**DES PLAINES, ILLINOIS**
**DAI Project No. 6330**
**Groundwater Monitoring Wells**
**Statistical Analysis**

| Positive Slope | Negative Slope | Negative Slope |
|---|---|---|
| Confidence Range Includes Zero | | Confidence Range Negative |
| MW-1 | MW-12 | MW-18B |
| MW-2 | MW-13 | |
| MW-4B | MW-17B | |
| MW-8 | MW-18B1 | |
| MW-9 | MW-18A | |
| MW-18B2 | MW-18D | |
| MW-14A | | |
| MW-15A | | |
| MW-19A | | |
| MW-14C | | |
| MW-18C | | |

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# QUARTERLY GROUNDWATER MONITORING AND GROUNDWATER REMEDIATION PROGRESS REPORT

## IPM COMPANY SITE

## ILD085352474/RCRA CLOSURE

RECEIVED
JUL 30 1993
IEPA - BOL
PERMIT SECTION

**KEARNEY-NATIONAL, INC.**

**IPM COMPANY SITE**

**DES PLAINES, ILLINOIS**

**DAI Project No. 6330**

**Prepared for: Illinois Environmental Protection Agency**

**Prepared by: DePaul & Associates, Inc.**

**Date: July 29, 1993**

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# 1.0 INTRODUCTION

## 1.1 BACKGROUND

International Products and Manufacturing Company (IPM) maintained an underground spill containment tank and chemical storage room at a facility in Des Plaines, Illinois. In September 1988, IPM engaged the services of ASI Environmental Technologies (ASI) to remove the underground spill containment tank. During the tank excavation, volatile organic compound (VOC) contamination, principally trichloroethylene (TCE), was identified in the surrounding soils and groundwater. IPM further engaged ASI to conduct a subsurface remedial investigation, prepare a closure plan, and implement corrective actions in accordance with Resource Conservation and Recovery Act (RCRA) regulations as required by the Illinois Environmental Protection Agency (IEPA). The results of the remedial investigation and the design of the soil and groundwater remediation system were presented to IEPA by ASI. As part of the containment tank closure plan, ASI installed a groundwater remediation system at the site. A site plan of the IPM facility is provided in Figure 1. Site-specific groundwater cleanup objective levels were set by IEPA in the closure plan approval letter dated November 30, 1992, and are presented in Table 1.

**TABLE 1. GROUNDWATER CLEANUP OBJECTIVE LEVELS (μg/L)**

| CONTAMINANT | CLEANUP OBJECTIVE LEVEL | CONTAMINANT | CLEANUP OBJECTIVE LEVEL |
|---|---|---|---|
| Trichloroethylene | 25.0 | 1,1,1,2-Tetrachloroethane | 210.0 |
| Tetrachloroethylene | 25.0 | 1,1,2-Trichloroethane | 25.0 |
| trans-1,2-Dichloroethylene | 500.0 | 1,1,1-Trichloroethane | 1,000.0 |
| cis-1,2-Dichloroethylene | 200.0 | Xylenes (total) | 10,000.0 |
| Vinyl Chloride | 10.0 | Ethylbenzene | 1,000.0 |
| Carbon Tetrachloride | 25.0 | Toluene | 5,000.0 |

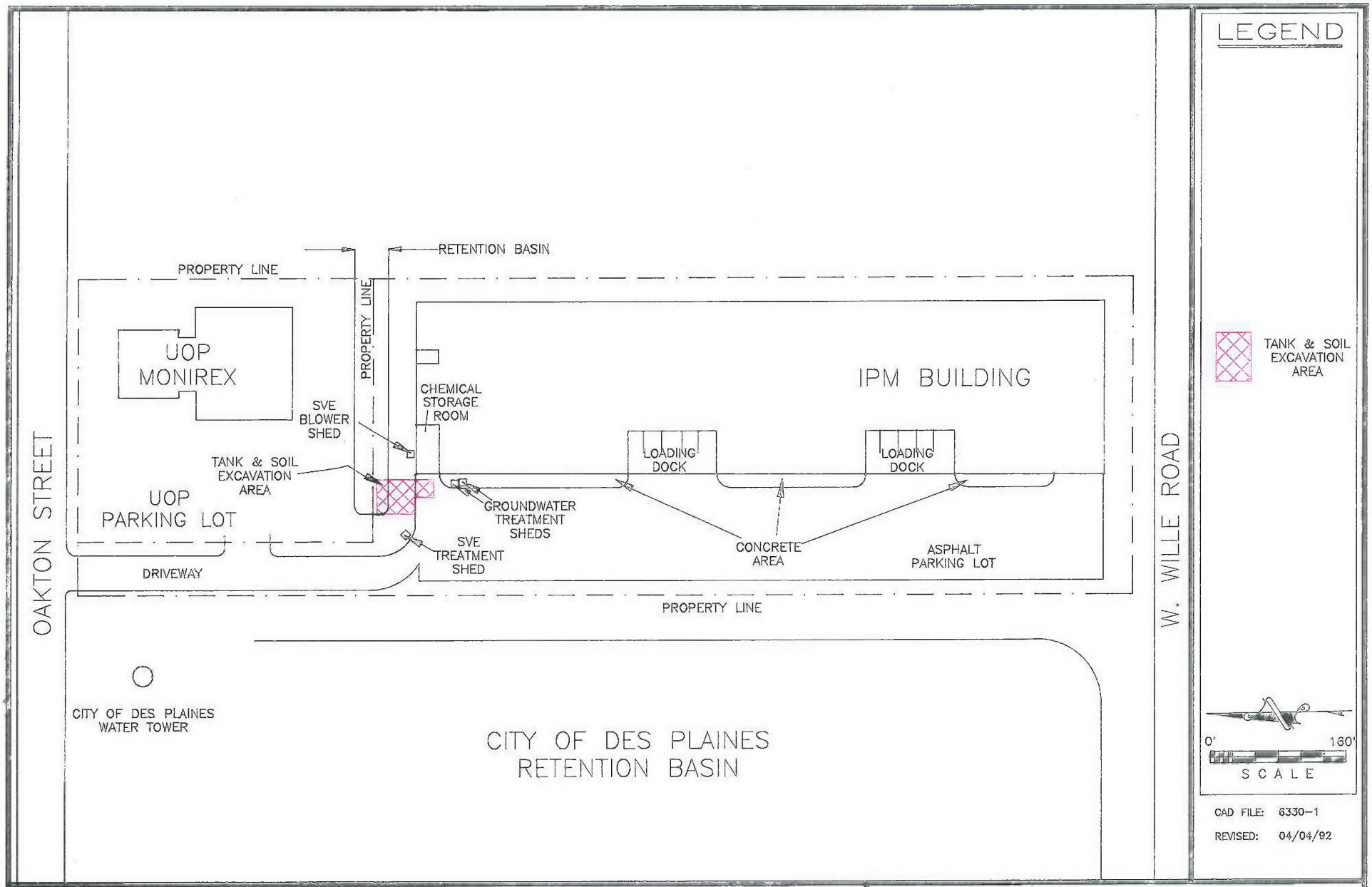


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FIGURE 1
SITE PLAN

IPM has ceased operations at the Des Plaines site and vacated the premises. Kearney-National Inc., the parent company of IPM and current property owner, has assumed responsibility for the remediation and has engaged DePaul & Associates, Inc. (DAI) to supervise the corrective actions at the site, and to complete the site closure and post-closure activities.

## 1.2 QUARTERLY REPORTING REQUIREMENTS AND OBJECTIVES

In the closure plan approval letter dated November 30, 1992, the IEPA required that quarterly progress reports be submitted. "Each quarterly progress report shall contain an assessment of the effectiveness of the corrective action program to reduce groundwater contaminant concentration and prevent further migration of the contaminant plume(s). At a minimum, these reports should include an assessment of the extent of groundwater contamination and the rate of plume migration (spreading or shrinking)."

This quarterly progress report is being submitted to comply with the IEPA requirement for quarterly reports on the progress of the groundwater corrective action. The objectives of this quarterly progress report are as follows:

- Summarize the most recent groundwater monitoring results, and compare them to the previous quarter results,
- Summarize the operation of the groundwater extraction system, and
- Provide a current assessment of the effectiveness of the groundwater corrective actions.

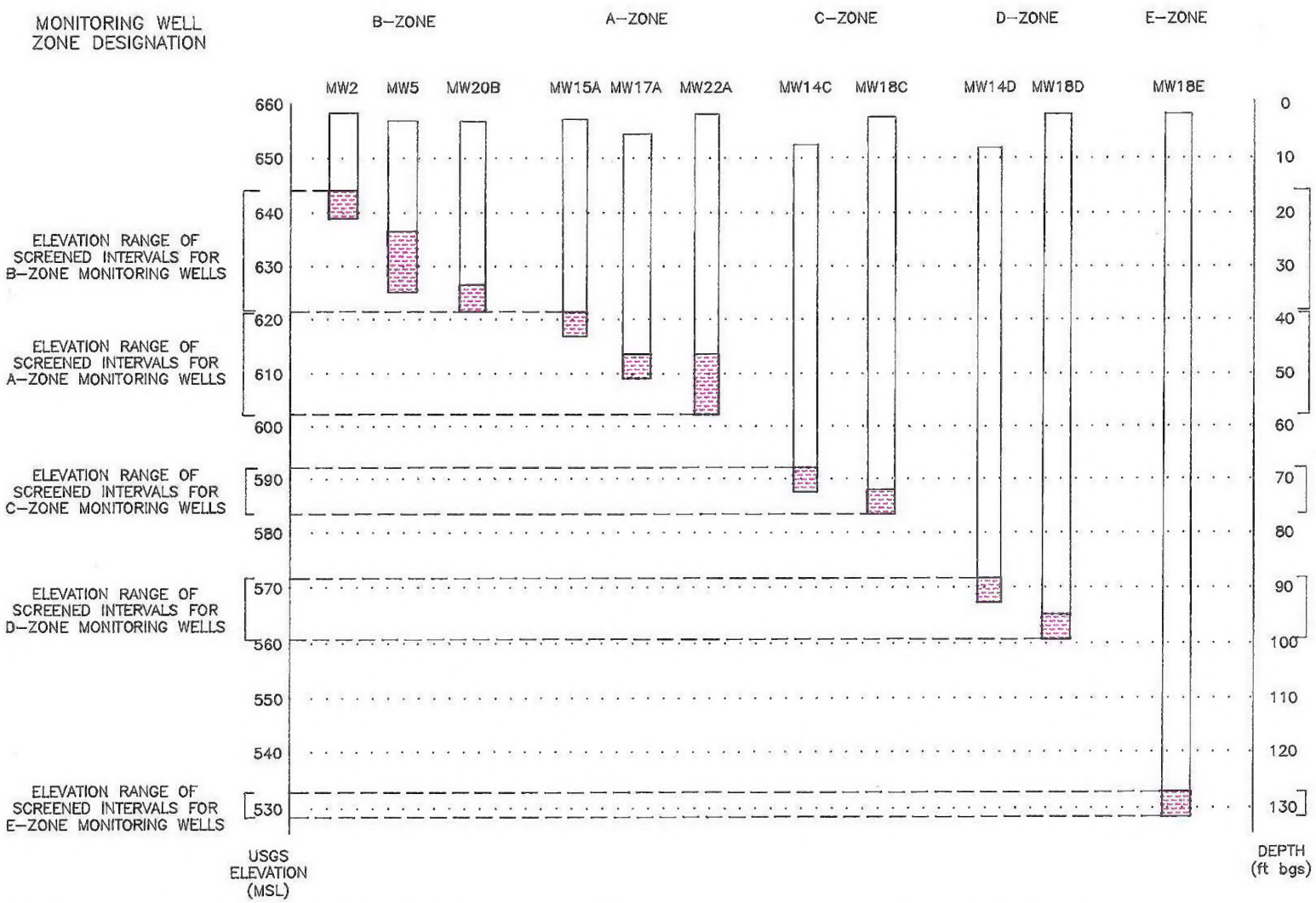
# 2.0 GROUNDWATER MONITORING AND REMEDIATION SYSTEM

## 2.1 GROUNDWATER MONITORING SYSTEM

**2.1.1 Groundwater Monitoring Wells**: To determine the extent of groundwater contamination, ASI installed forty-two (42) groundwater monitoring wells in the area surrounding the former spill containment tank. ASI interpreted the subsurface stratigraphy to consist of three distinct hydrogeological units. These units were described as the Upper

Formation, the Lower Formation, and the Fractured Limestone Formation (bedrock). Monitoring wells were screened at variable depths to determine the extent of contamination in each unit. Based on the depths of the monitoring well screened intervals, four monitoring well zones were designated by ASI as the B-Zone (Upper Formation), the A-Zone and C-Zone (Lower Formation), and the D-Zone (Fractured Limestone Formation). In the closure plan approval letter dated June 26, 1991 (revised July 10, 1991), the IEPA requested that additional deep monitoring wells be installed to determine the lateral and vertical extent of groundwater contamination in the fractured limestone. In response to this request, three additional D-Zone monitoring wells were installed under the supervision of DAI. Monitoring well MW-18D was completed on January 28, 1992, and monitoring wells MW-28D and MW-29D were completed on August 21, 1992. Visual classification of soil samples collected from MW-18D, MW-28D, and MW-29D by DAI indicated that the soils in the D-Zone were not fractured limestone, but could be better classified as silty-clays with limestone fragments. The presence and angularity of the limestone fragments in the D-Zone soils suggested that the D-Zone was underlain by a limestone bedrock unit. This was later confirmed by subsequent installation of bedrock monitoring well MW-18E. Therefore, DAI will refer to the D-Zone as the bedrock/overburden interface zone.

Table 2 summarizes the monitoring well designations and the typical screened interval for each monitoring well zone. A summary of well construction information for all monitoring wells is provided in Appendix A. Figure 2 provides a cross-sectional view of representative monitoring wells from each of the five monitoring well designations. The location of all monitoring wells is provided in Figure 3.




LEGEND

SCREENED INTERVAL

CAD FILE: 6330SECT

REVISED: 04/14/92

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FIGURE 2
CROSS SECTIONAL VIEW OF SELECTED MONITORING WELLS

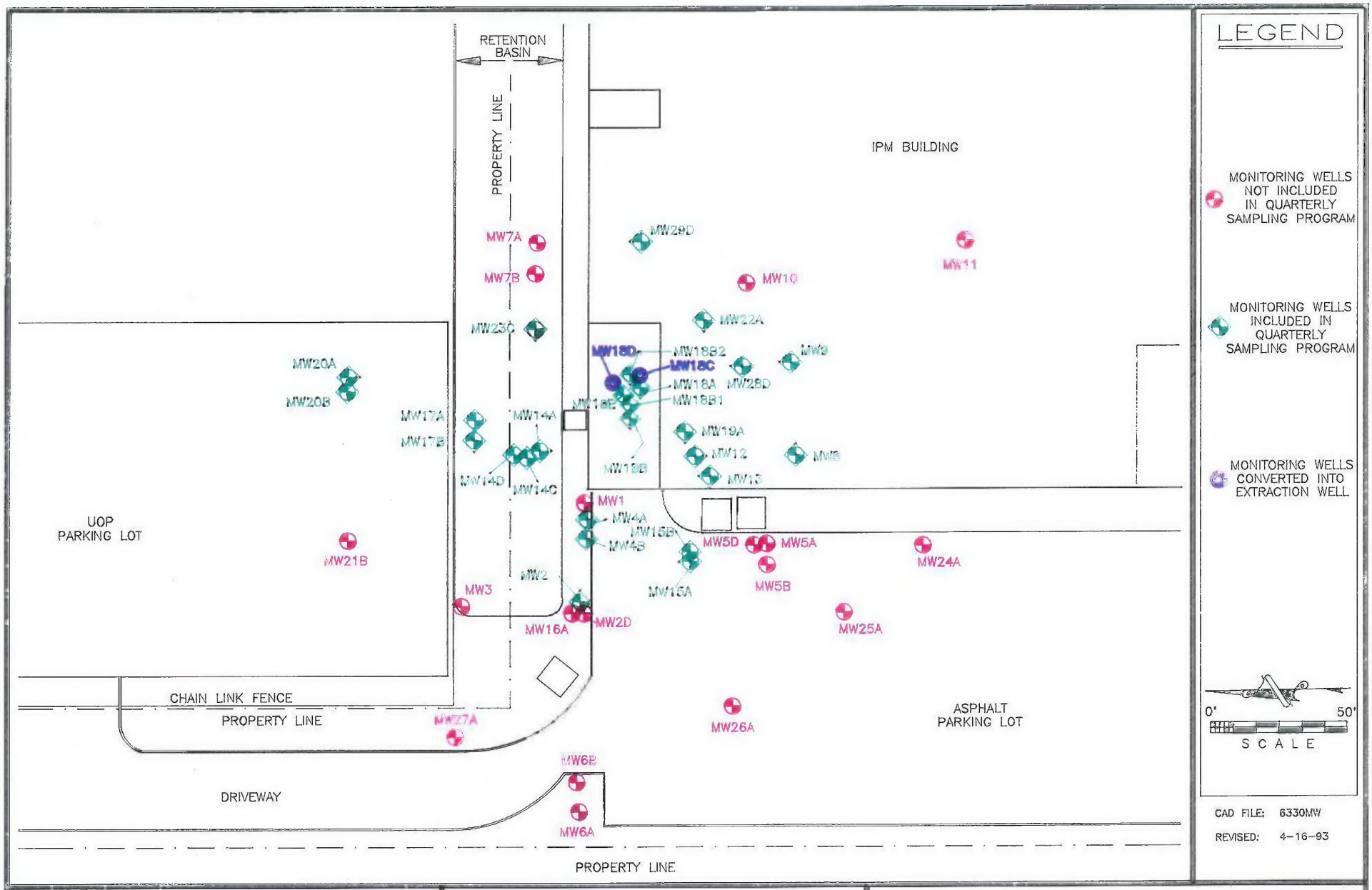


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FIGURE 3
MONITORING WELL LOCATIONS

TABLE 2. GROUNDWATER MONITORING WELLS

| Monitoring Well Designation | Typical Screened Interval (ft bgs) |
|---|---|
| B-Zone | 15-25 |
| A-Zone | 45-50 |
| C-Zone | 60-70 |
| D-Zone | 90-95 |
| E-Zone | 127-132 |

**2.1.2 Groundwater Sampling:** The approved groundwater monitoring program specifies quarterly groundwater sampling and analysis from selected monitoring wells, and annual sampling and analysis from each of the monitoring wells. In the closure plan approval letter dated November 30, 1992, the IEPA required that twenty-six (26) of the monitoring wells, along with any newly installed monitoring wells, be sampled on a quarterly basis and analyzed for groundwater contaminants using EPA SW-846 Methods 8010. The monitoring wells included in the quarterly groundwater sampling program are listed in Table 3.

TABLE 3. QUARTERLY GROUNDWATER SAMPLING PROGRAM

| WATER-BEARING ZONE | | | | |
|---|---|---|---|---|
| Upper | | Lower | | D,E-Zones |
| MW-2<br>MW-4B<br>MW-8<br>MW-9<br>MW-12<br>MW-13 | MW-15B<br>MW-17B<br>MW-18B<br>MW-18B1<br>MW-18B2<br>MW-20B | MW-4A<br>MW-14A<br>MW-15A<br>MW-17A<br>MW-18A<br>MW-19A | MW-20A<br>MW-22A<br>MW-14C<br>MW-18C<br>MW-23C | MW-14D<br>MW-28D<br>MW-29D<br>MW-18E |

Groundwater samples from monitoring wells included in the quarterly groundwater sampling program were collected by DAI on April 13 through 15, 1993. The monitoring wells were purged prior to sampling. The B-Zone monitoring wells were purged using disposable PVC bailers while all other monitoring wells were purged using an electric submersible purge pump. The purge pump was decontaminated prior to introduction into each well by scrubbing and rinsing using an Alconox and water solution, followed by a triple rinse with tap water. Groundwater samples were collected from all of the monitoring wells using dedicated disposal PVC bailers. Samples were collected in duplicate from each well in 40-ml VOC vials, and immediately stored on ice for subsequent transport to Great Lakes Analytical Laboratory of Buffalo Grove, Illinois, following standard chain-of-custody procedures. Submitted groundwater samples were analyzed for Halogenated Volatile Organic Compounds using EPA SW-846 Method 8010. The IEPA Chemical Analysis Forms summarizing the results of the most recent groundwater sample analyses are provided in Appendix B and copies of the laboratory reports are included in Appendix C. Tables summarizing the results of all groundwater sampling and analysis by SW-846 Method 8010, including the results of the April 1993 sampling event, are provided in Appendix D.

Static water level measurements were taken from each of the monitoring wells (prior to well purging) on May 21, 1993, with the exceptions of MW-18C and MW-18D, which are being used as groundwater extraction wells. [Some static water level data was also collected on the first day of groundwater sampling in April 1993. However, because of instrument failure, a full round of static water level measurements could not be collected prior to well purging and sampling. The full round of static water level measurements was therefore taken on a later date]. Static water level measurements were made using an electronic water level indicator. The static water level elevations were calculated from the depth to static water measurements and the surveyed well casing elevations. A table summarizing the static water level measurements and calculated elevations is provided in Appendix E.

## 2.2 GROUNDWATER REMEDIATION SYSTEM

**2.2.1 Groundwater Recovery Wells**: To remediate the contaminated groundwater, ASI designed a multiple well groundwater recovery and treatment system. The system consisted of twenty-one recovery wells and was designed to recover contaminated groundwater to a depth of approximately 75-ft bgs. None of the recovery wells were screened in the D-Zone. Analysis of the groundwater sample collected from MW-18D on February 20, 1992, indicated contamination above the cleanup objective levels in the D-Zone groundwater at this location. Therefore, on March 19, 1992, DAI proposed to IEPA that monitoring well MW-18D be converted to a recovery well. On March 23, 1992, Eric Minder and Geordie Smith of the IEPA gave verbal approval for groundwater extraction from MW-18D. Extraction from MW-18D began on April 22, 1992. In May 1993, monitoring well MW-18C was converted into a groundwater extraction well by installing within the well a 2-inch diameter submersible extraction pump. Groundwater extracted from MW-18C is being treated through the existing groundwater treatment system prior to discharge. The location of the twenty-two (22) groundwater recovery wells are given in Figure 4. A table summarizing the groundwater recovery well construction details is provided in Appendix F.

**2.2.2 Groundwater Recovery and Treatment System Design:** Groundwater is extracted from the 4-inch diameter recovery wells PW-1 through PW-21 using submersible pumps, with electric submersible pumps used in seventeen (17) of these extraction wells and air pneumatic driven pumps used in four (4) of these recovery wells. Air pneumatic pumps have recently replaced the previously used electric submersible pumps in extraction wells PW-1, PW-3, PW-4 and PW-5, which are shallow extraction wells, and which (along with all other shallow extraction wells) do not have a sump in the base of the well. Air pneumatic pumps can be placed closer to the bottom of the extraction well than the electric submersible pumps, and therefore, a higher groundwater recovery yield can be obtained from these extraction wells by using air pneumatic pumps (placed nearer the bottom of the well) than can be obtained using electric submersible pumps. Air pneumatic driven bladder pumps are also used to extract groundwater from converted 2-inch diameter monitoring wells MW-18C and MW-18D, because a 2-inch diameter well casing is not large enough to house a standard electrical submersible pump.

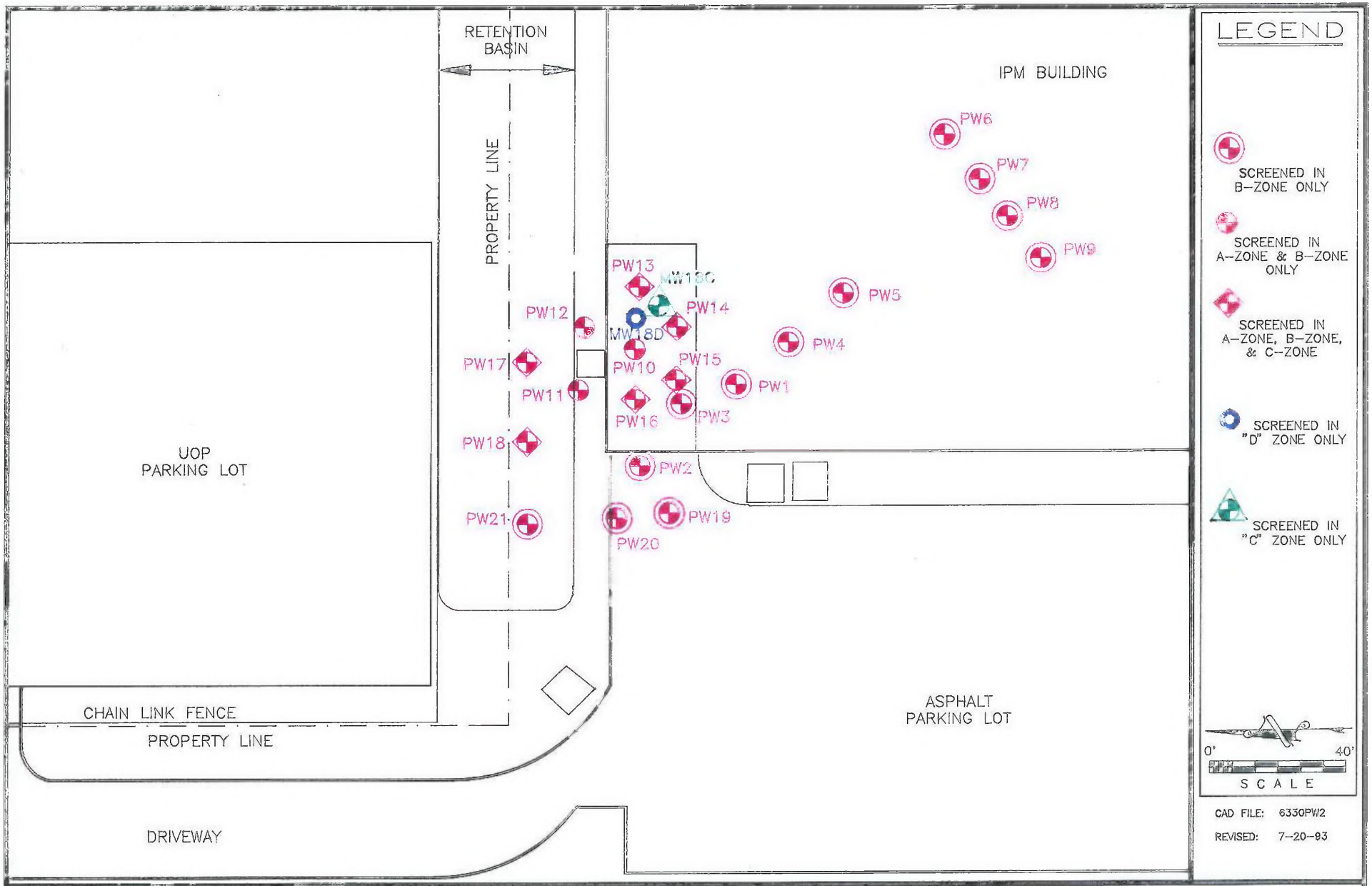


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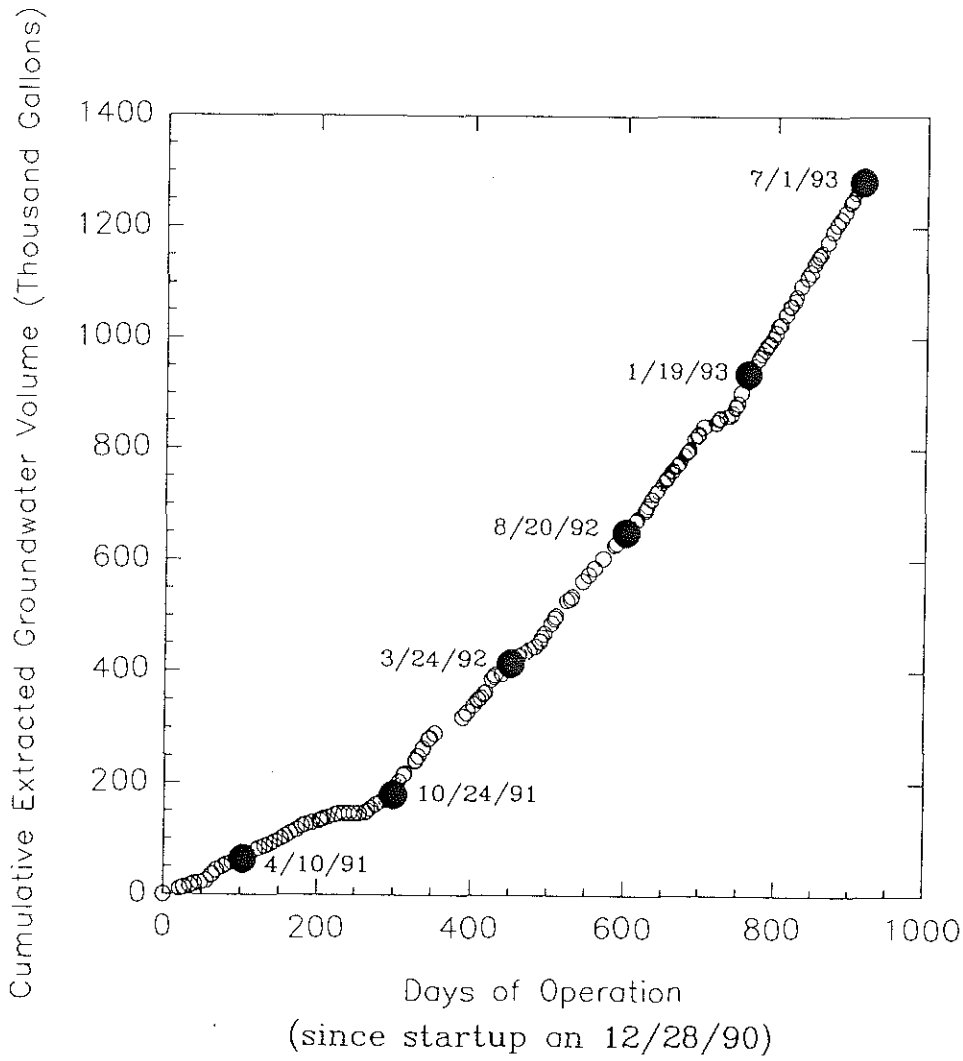
FIGURE 4
GROUNDWATER RECOVERY WELLS

The groundwater pumps are operated intermittently, because the recovery yields from the wells are not adequate to allow continuous operation of the extraction pumps. The electric submersible pumps are controlled using individual load sensors coupled with timers. The load sensor interrupts the pump's power once the extraction well is purged. The pumps are then re-started by a timer located within the pump controller. The air pneumatic pumps are controlled by a timer which regulates the period between fill and purge cycles. Run-time meters connected to the electrical pumps record the cumulative operating hours of each electrical submersible pump.

Extracted groundwater from the twenty-three recovery wells is combined through a manifold to an equalization tank from which it is pumped through granular activated carbon adsorption units for treatment. The activated carbon adsorption system consists of two activated carbon canisters operated in series. The treated groundwater is discharged to the City of Des Plaines storm water retention basin located immediately east of the IPM Company site. A National Pollutant Discharge Elimination System (NPDES) permit for the discharge of the treated groundwater was granted by IEPA in August 1990. The conditions of the NPDES permit require continuous discharge flow monitoring, weekly monitoring of discharge pH, and monthly monitoring of halogenated and aromatic volatile organic compounds using EPA SW-846 Methods 8010 and 8020.

**2.2.3 Groundwater Recovery and Treatment System Operation:** Operation of the groundwater remediation system was initiated in January 1991 and additional recovery wells were activated in February 1991, September 1991 and April 1992. The groundwater recovery system flowrate has ranged from approximately 300-gpd to 3,000-gpd. The groundwater recovery system is currently (July 1993) extracting approximately 2,800-gpd. Approximately 1,300,000-gallons of groundwater have been extracted and treated as of July 1, 1993. Figure 5 summarizes the cumulative extracted groundwater volume since start-up in January 1991.

To monitor the rate of activated carbon usage and treatment system efficiency, groundwater samples are collected at least once a month from the following sampling points:




| | | |
|---|---|---|
| DEPAUL AND ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS | KEARNEY–NATIONAL, INC.<br>201 WEST OAKTON<br>DES PLAINES, IL | FIGURE 5<br>CUMULATIVE EXTRACTED<br>GROUNDWATER VOLUME |

- Influent to the first activated carbon unit (untreated groundwater)
- Between the two activated carbon units
- Effluent of the second activated carbon unit (treated groundwater)

Because the groundwater samples are collected after the equalization tank, these samples are composites of the groundwater recovered from the recovery wells. The TCE concentrations in the untreated groundwater samples have ranged from 75-$\mu$g/l (September 3, 1991) to 150,000-$\mu$g/l (August 5, 1992). From December 1990 through September 1991, the total chlorinated VOC concentrations in the recovered groundwater were generally observed to be below 1,000-$\mu$g/l. Between November 1992 and July 1993, the average TCE concentration observed at the influent to the groundwater treatment system has been 10,189-$\mu$g/l. A summary of the analytical results of the monthly groundwater treatment system sampling activities are presented in Appendix G. The treatment system influent flowrate and concentration data were used to estimate the contaminant mass recovered by the groundwater extraction system. The total contaminant mass recovered by the groundwater extraction system through July 1, 1993, is approximately 165-lbs. The contaminant mass recovery data are summarized in Figure 6.

## 3.0 ASSESSMENT OF GROUNDWATER REMEDIATION SYSTEM

### 3.1 OVERVIEW

To assess the effectiveness of the groundwater remediation system, the following information was evaluated:

- Groundwater containment concentrations observed in January 1993 and April 1993 were compared to determine the effect of groundwater recovery;
- Potentiometric surfaces observed in January 1993 and May 1993, were reviewed to assess the effectiveness of groundwater recovery in plume containment.

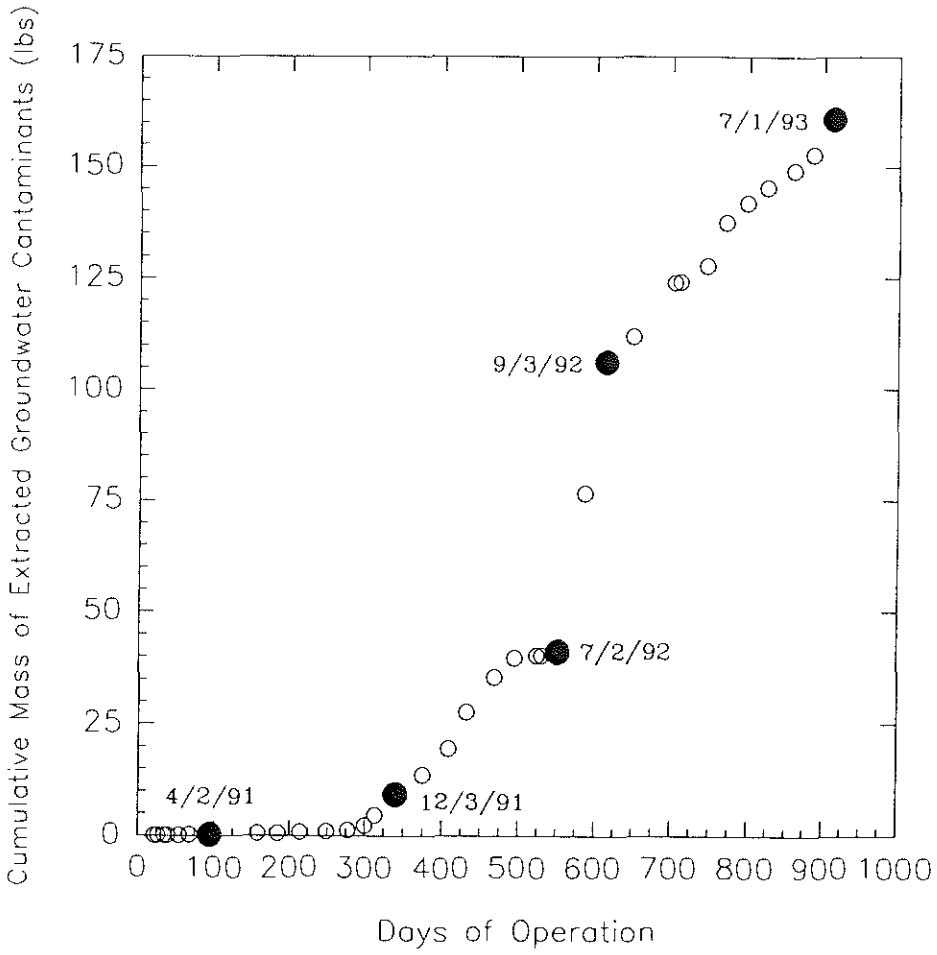



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FIGURE 6
CUMULATIVE MASS OF EXTRACTED GROUNDWATER CONTAMINANTS

## 3.2 GROUNDWATER CONTAMINANT CONCENTRATIONS

The only groundwater contaminants observed at concentrations above the cleanup objective levels identified by IEPA have been chlorinated VOCs. Summary tables of the results of all groundwater analysis for chlorinated VOCs are provided in Appendix D. Although the principal groundwater contaminant is TCE, other chlorinated VOCs, such as tetrachloroethylene (PCE), dichloroethylene (DCE), and vinyl chloride (VC) have been observed. The DCE and VC in the groundwater are likely due to biotransformation of TCE in the subsurface (Vogel and McCarty, 1985). The source of the PCE in the groundwater is unknown, but PCE may have been present as an impurity in the TCE which was used at the site as a solvent. Because PCE and TCE can be biotransformed to other chlorinated hydrocarbons, such as DCE and VC, it is appropriate to quantify the groundwater contamination in terms of total chlorinated volatile organic compound (TCVOC) concentrations (generally taken as the sum of the observed PCE, TCE, DCE, and VC concentrations). The groundwater sampling and analysis results were depicted using isoconcentration contours whenever feasible. To evaluate the effect of groundwater recovery on the extent of groundwater contamination, TCVOC isoconcentration contours developed using the April 1993 groundwater monitoring data were compared to TCVOC isoconcentration contours developed using the January 1993 data.

To determine the groundwater flow direction, the potentiometric surface data from May 1993 and January 1993 were reviewed and interpreted. Also, the May 1993 and January 1993 potentiometric surface data were compared to determine if any significant changes in the groundwater flow direction or groundwater flow velocities had occurred. Both sets of potentiometric surface maps are representative of the hydrogeological conditions during the operation of the groundwater recovery system (pumping).

**3.2.1 B-Zone Monitoring Wells:** The TCVOC isoconcentration contours based on the B-Zone (screened from approximately 15-ft to 25-ft bgs) groundwater monitoring well data from the April 1993 and January 1993 sampling events are presented in Figure 7 and Figure 8, respectively.

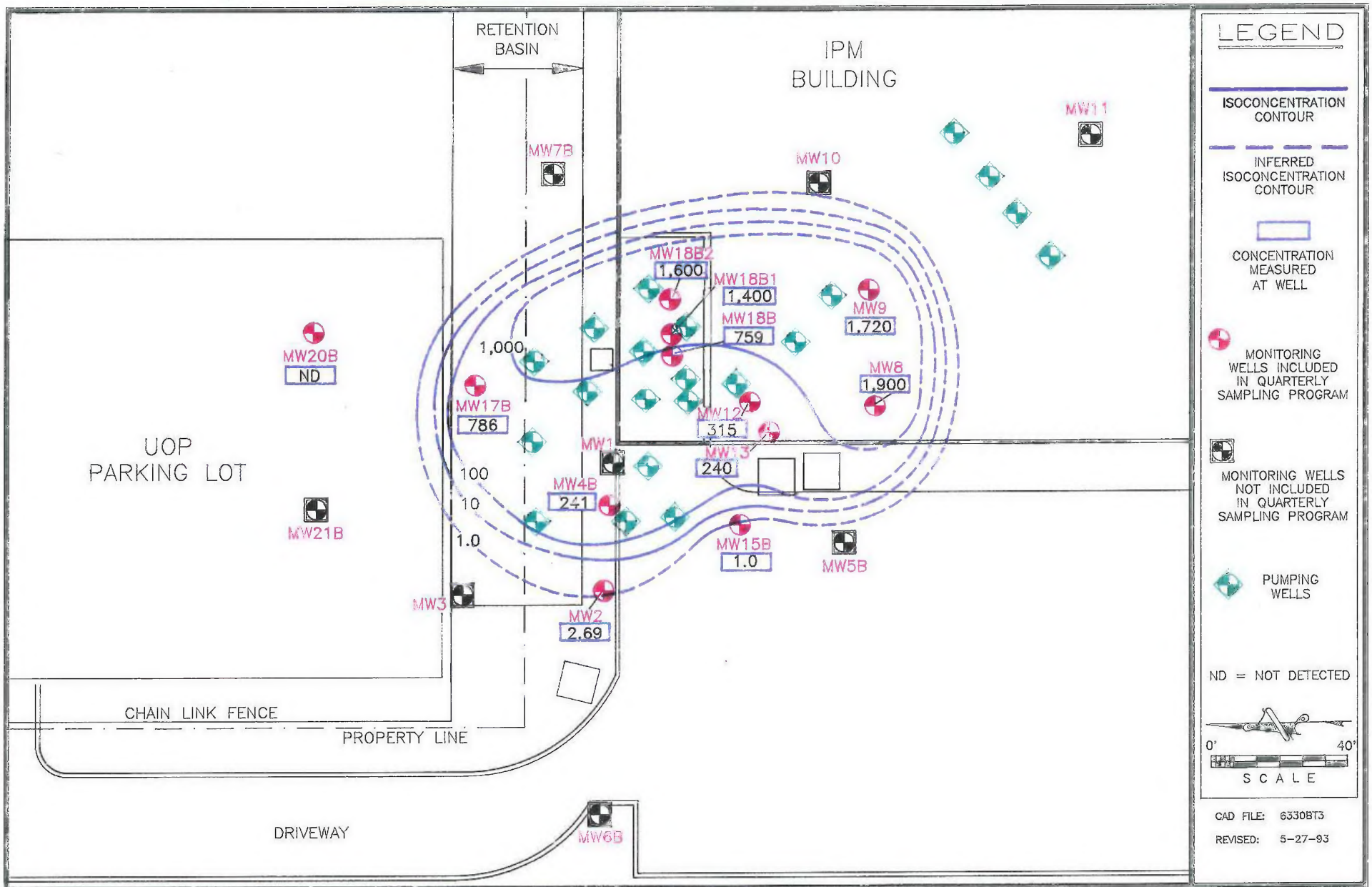


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FIGURE 7
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"B" WELLS – APRIL 1993

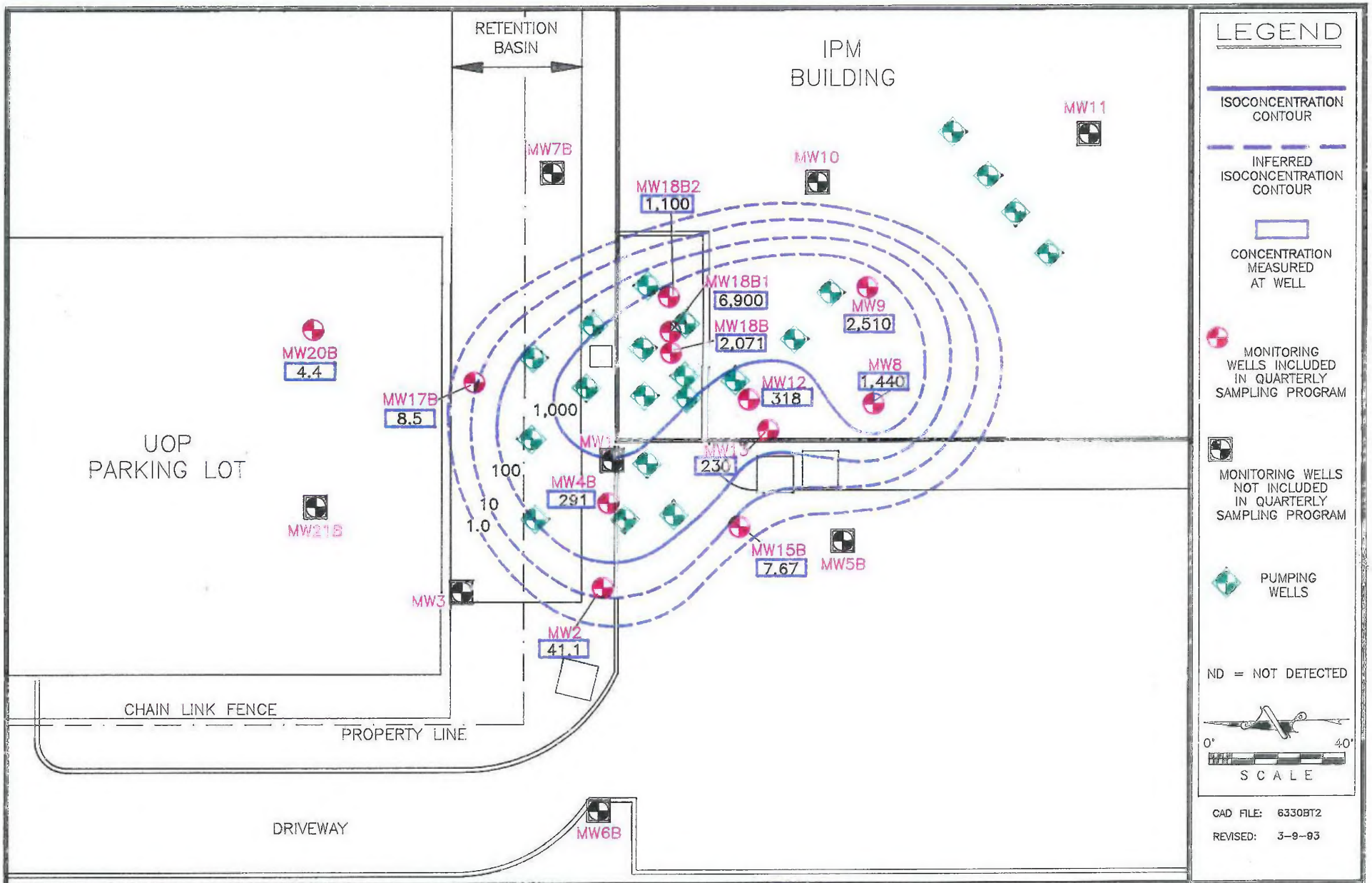


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FIGURE 8
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER (μg/L)
"B" WELLS – JANUARY 1993

Comparison of the April 1993 and January 1993 B-Zone isoconcentration contours indicates that monitoring wells MW-8, MW-9, MW-18B, MW-18B1, and MW-18B2 continue to exhibit the highest B-Zone contaminant concentrations. However, between January 1993 and April 1993, decreasing contaminant concentrations at MW-18B and MW-18B1, and increasing contaminant concentrations at MW-8 indicate a migration of the center of the B-Zone plume from MW-18B1 towards MW-8 and MW-9, indicating that groundwater recovery from extraction wells PW-6 through PW-9 is pulling the plume away from the original plume center. To test this explanation, extraction wells PW-6 through PW-9 will be temporarily idled in August 1993, and static water level measurements will be taken once the static water levels reach a new steady-state level. If the resultant B-Zone potentiometric surface plots indicate that operating PW-6 through PW-9 is counter-productive to remediation of the B-Zone groundwater, then a formal request to remove PW-6 through PW-9 from the groundwater recovery system will be made to the IEPA.

It should be noted that monitoring well MW-1, which has not been sampled since July 1992, when it exhibited a TCVOC concentration of 52,000-$\mu$g/L, may well remain the center of the B-Zone contaminant plume. This will be determined in July 1993 when MW-1 will be sampled along with all other groundwater monitoring wells, as part of the annual groundwater sampling program.

Decreasing contaminant concentrations at MW-2, MW-4B, and MW-15B indicate a decrease in the western extent of B-Zone contamination, while an increase in contaminant concentrations at MW-18B2 indicates expansion of the eastern extent of the B-Zone plume between January 1993 and April 1993. Decreasing contaminant concentrations at MW-20B from 4.4-$\mu$g/L of TCE in January 1993 to non-detectable concentrations in April 1993 indicate a decrease in the northern extent of the overall contaminant plume. In fact, review of the historical monitoring data (Appendix D) indicates that the only occasion of observable contamination at MW-20B was in January 1993, and therefore, the January 1993 monitoring results of MW-20B are considered an anomaly. The northern extent of B-Zone groundwater contamination is therefore defined by MW-17B.

Between January 1993 and April 1993, the TCVOC concentration at MW-17B increased from 8.5-$\mu$g/L to 786-$\mu$g/L. However, review of the historical monitoring data indicates that the contaminant concentrations at MW-17B in January 1993 were unusually low as the average TCVOC concentration at MW-17B between January 1991 and October 1992 was 953-$\mu$g/L. Therefore, the apparent increase in contaminant concentrations at MW-17B between January 1993 and April 1993 is an artifact of the unusual results of January 1993. Further discussion on the historical trends of groundwater contaminant concentrations at MW-17B will be discussed later in section 3.4 of this report.

The May 1993 and January 1993 potentiometric surface maps for the B-Zone monitoring wells are shown in Figure 9 and Figure 10, respectively. Both figures indicate a predominant B-Zone groundwater flow direction of southeast with hydraulic gradients of comparable magnitude. B-Zone static water elevations were approximately 1-ft lower in May 1993 than January 1993, due likely to seasonal variations in surface recharge rates. The potentiometric surface data indicates the groundwater extraction system is effectively controlling the lateral groundwater flow within the B-Zone contaminant plume.

**3.2.2 A-Zone Monitoring Wells:** The April 1993 and January 1993 TCVOC isoconcentration contours for the A-Zone (screened from 45-ft to 50-ft bgs) groundwater monitoring well data are presented in Figure 11 and Figure 12, respectively.

Comparison of the April 1993 and January 1993 A-Zone isoconcentration contours indicate a shift in the center of the A-Zone contaminant plume from MW-14A to MW-18A due to a decrease in TCVOC concentrations at MW-14A from 10,000-$\mu$g/L in January 1993 to 4,500-$\mu$g/L in April 1993, together with an increase in TCVOC concentrations at MW-18A from 5,500-$\mu$g/L in January 1993 to 8,340-$\mu$g/L in April 1993. Review of the historical groundwater monitoring data (Appendix D) indicates that this apparent shift in the center of the A-Zone contaminant plume between MW-14A and MW-18A has occurred a number of times previously, and therefore does not likely represent a significant change in the location of the center of the A-Zone contaminant plume.

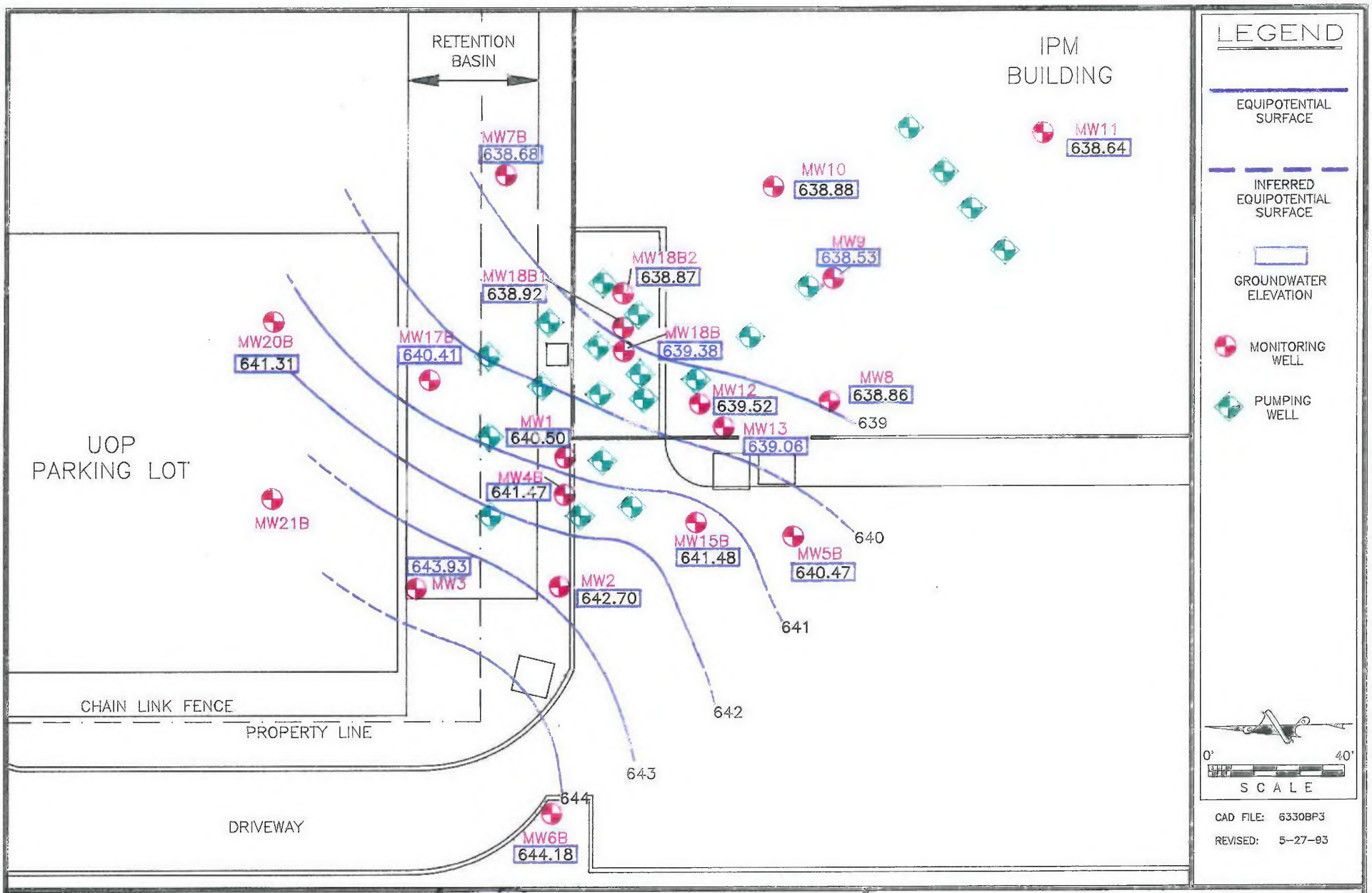


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FIGURE 9
POTENTIOMETRIC SURFACE
"B" WELLS – MAY 1993

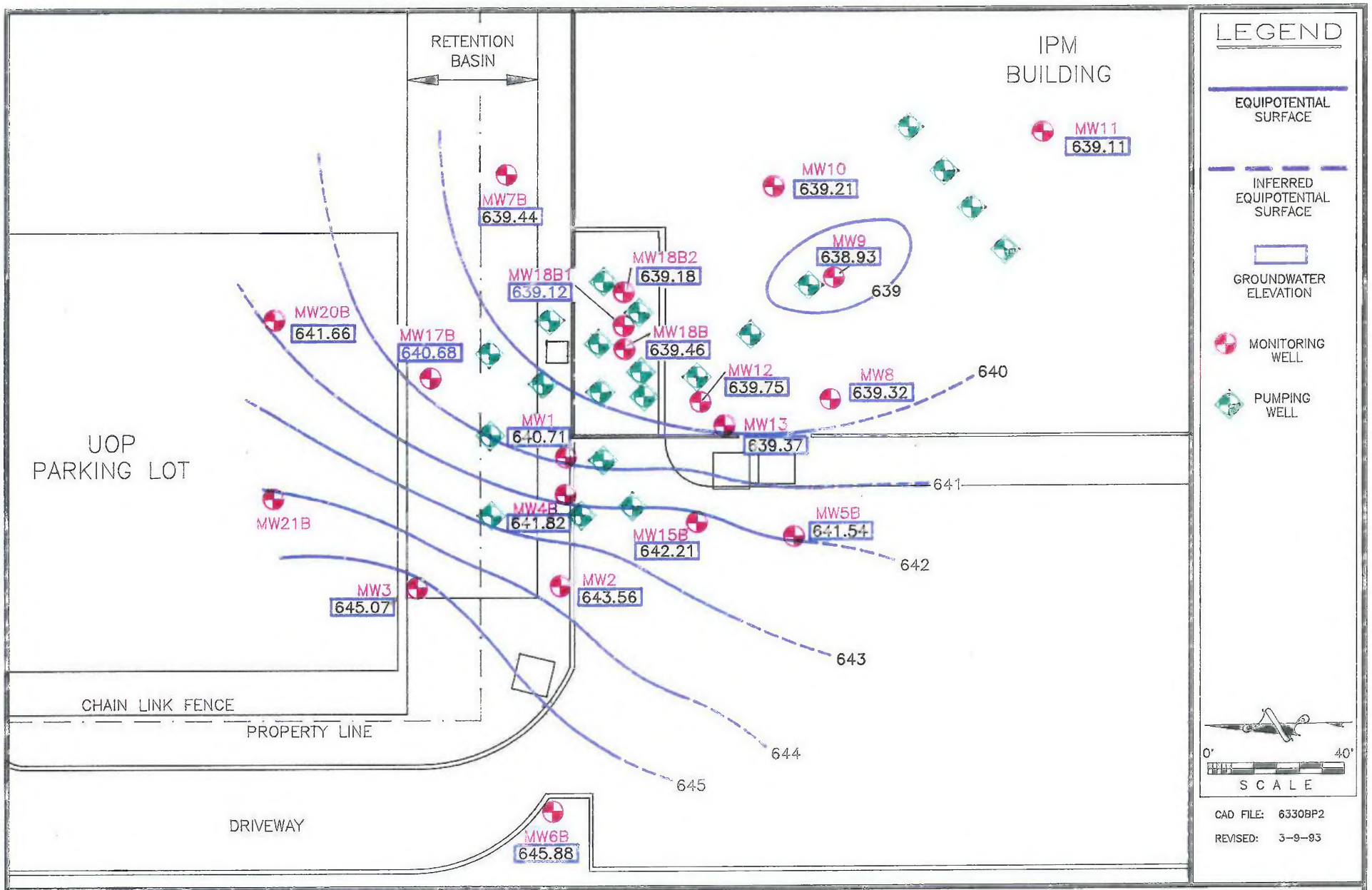


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FIGURE 10
POTENTIOMETRIC SURFACE
"B" WELLS – JANUARY 1993

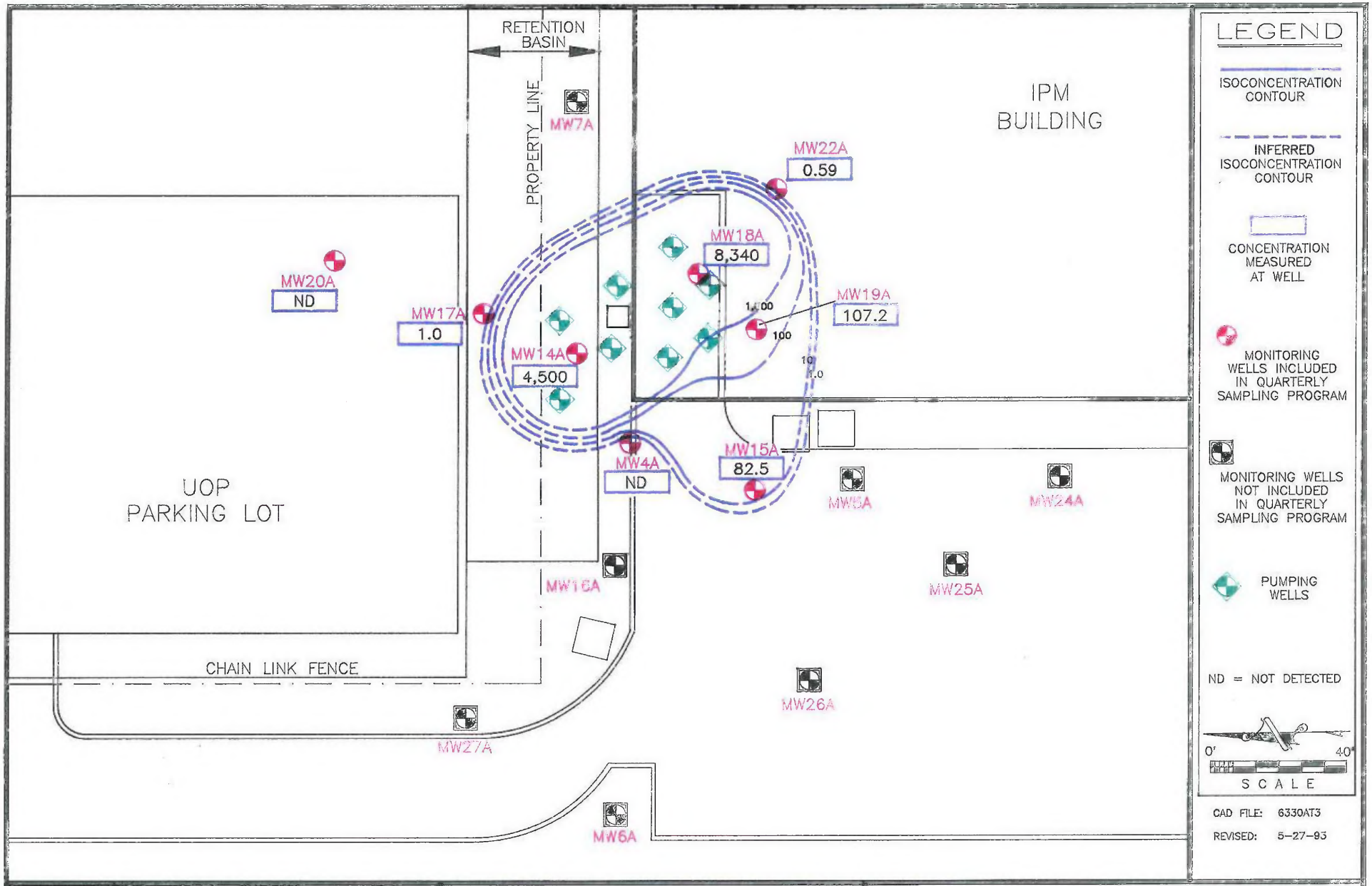


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FIGURE 11
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"A" WELLS – APRIL 1993

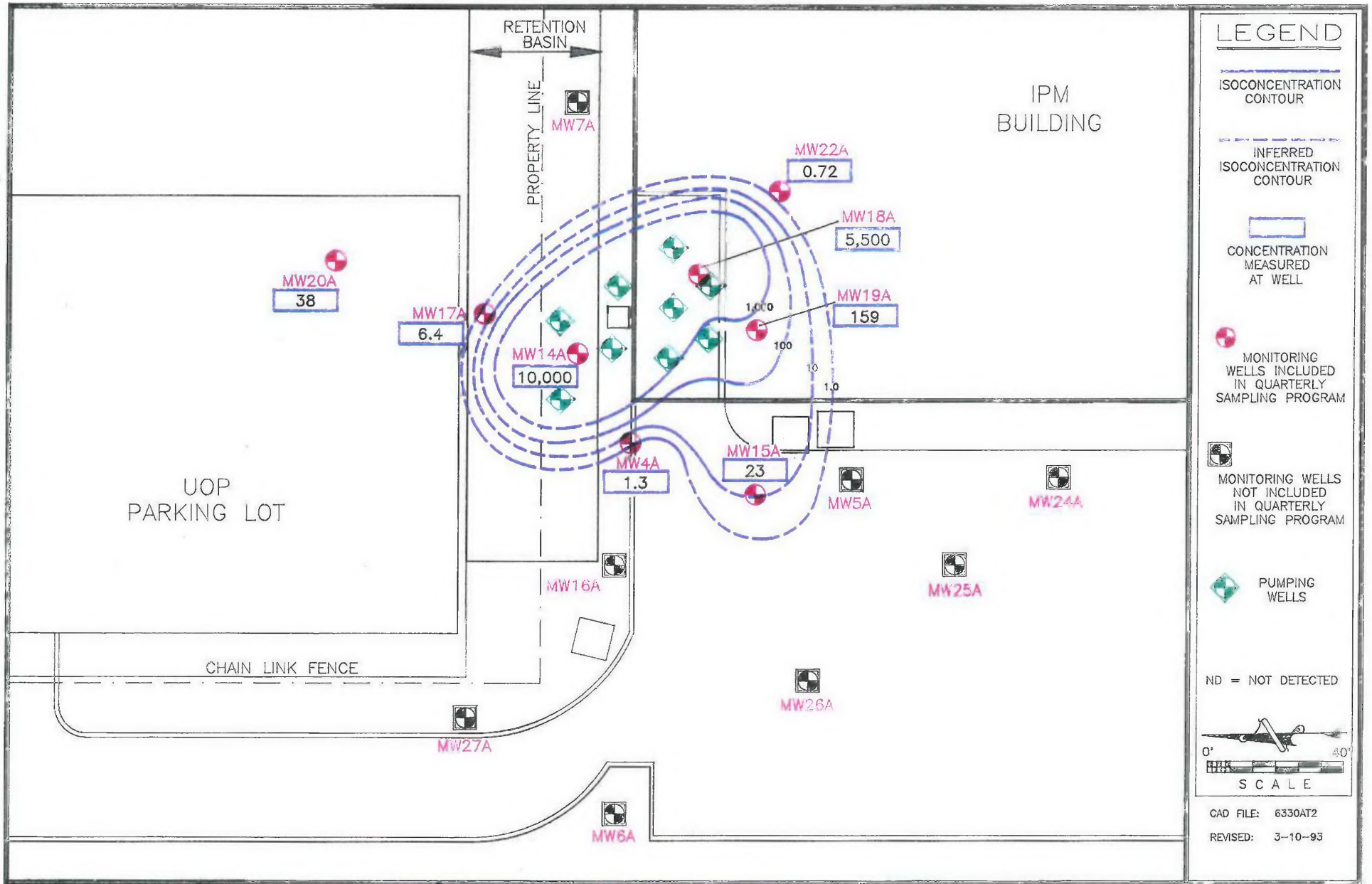


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FIGURE 12
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER (μg/L)
"A" WELLS – JANUARY 1993

Between January 1993 and April 1993, a shrinkage of the southern and northern extent of the A-Zone contaminant plume was observed due to decreasing contaminant concentrations at MW-22A and MW-19A; and MW-17A and MW-20A; respectively. An increase in the western extent of the A-Zone contaminant plume was observed between January 1993 and April 1993 due to an increase in TCVOC concentrations at MW-15A from 23-$\mu$g/L to 82.5-$\mu$g/L.

The May 1993 and January 1993 potentiometric surface maps for the A-Zone monitoring wells are provided in Figure 13 and Figure 14, respectively. Comparison of the figures indicate minimal changes in A-Zone potentiometric surface. A potentiometric surface minima is still observed near monitoring well MW-18A, which is consistent with the presence of numerous groundwater extraction wells in the vicinity of MW-18A. The potentiometric surface data indicates the groundwater extraction system is effectively controlling the lateral groundwater flow within the A-Zone contaminant plume.

**3.2.3 C-Zone Monitoring Wells:** Figure 15 and Figure 16 present the TCVOC concentrations observed in C-Zone monitoring wells (screened from 60-ft to 70-ft bgs) in May 1993 and January 1993, respectively. Comparison of the figures indicates that while only minor changes in contaminant concentrations were observed at MW-14C and MW-23C, a significant increase in contaminant concentrations at monitoring well MW-18C was observed. The center of the C-Zone contamination has remained in the vicinity of monitoring well MW-18C. Review of the historical groundwater monitoring data (Appendix D) indicates that contaminant concentrations at MW-14C and MW-18C have varied significantly from quarter to quarter, and the magnitude of the concentration changes observed at these wells between January 1993 and April 1993 may or may not represent significant concentration changes.

The potentiometric surface maps for the C-Zone monitoring wells in May 1993 and January 1993 are depicted in Figure 17 and Figure 18, respectively. Figure 18 is somewhat conceptualized because the static water elevation at MW-18C is assumed based upon the elevation of the top of the well screen and the assumption that continuous groundwater extraction from MW-18C maintains a static water level within the well 1-ft above the top of the well

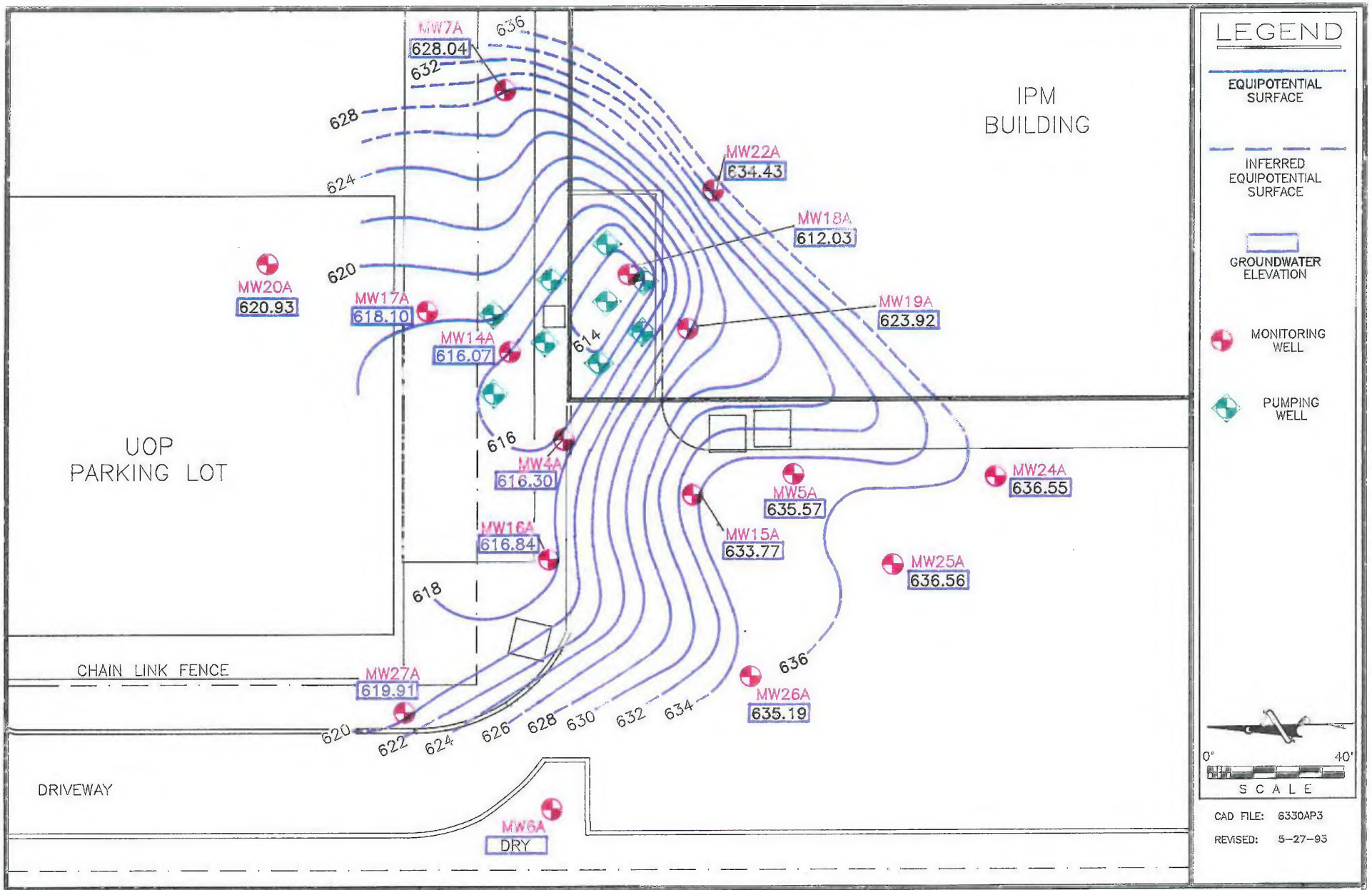


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FIGURE 13
POTENTIOMETRIC SURFACE
"A" WELLS – MAY 1993

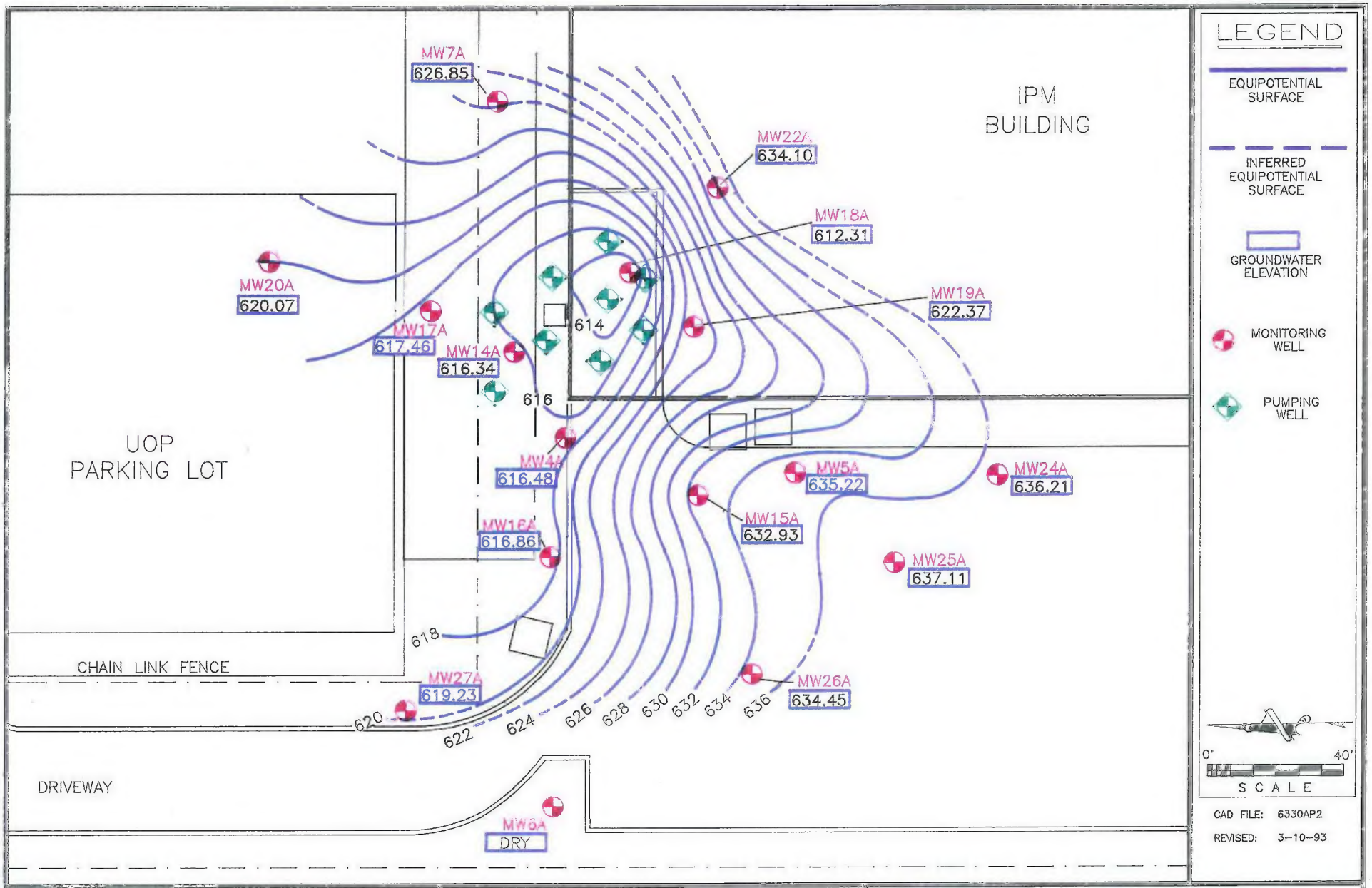


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FIGURE 14
POTENTIOMETRIC SURFACE
"A" WELLS – JANUARY 1993

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FIGURE 15
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"C" WELLS – APRIL 1993

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FIGURE 16
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"C" WELLS – JANUARY 1993

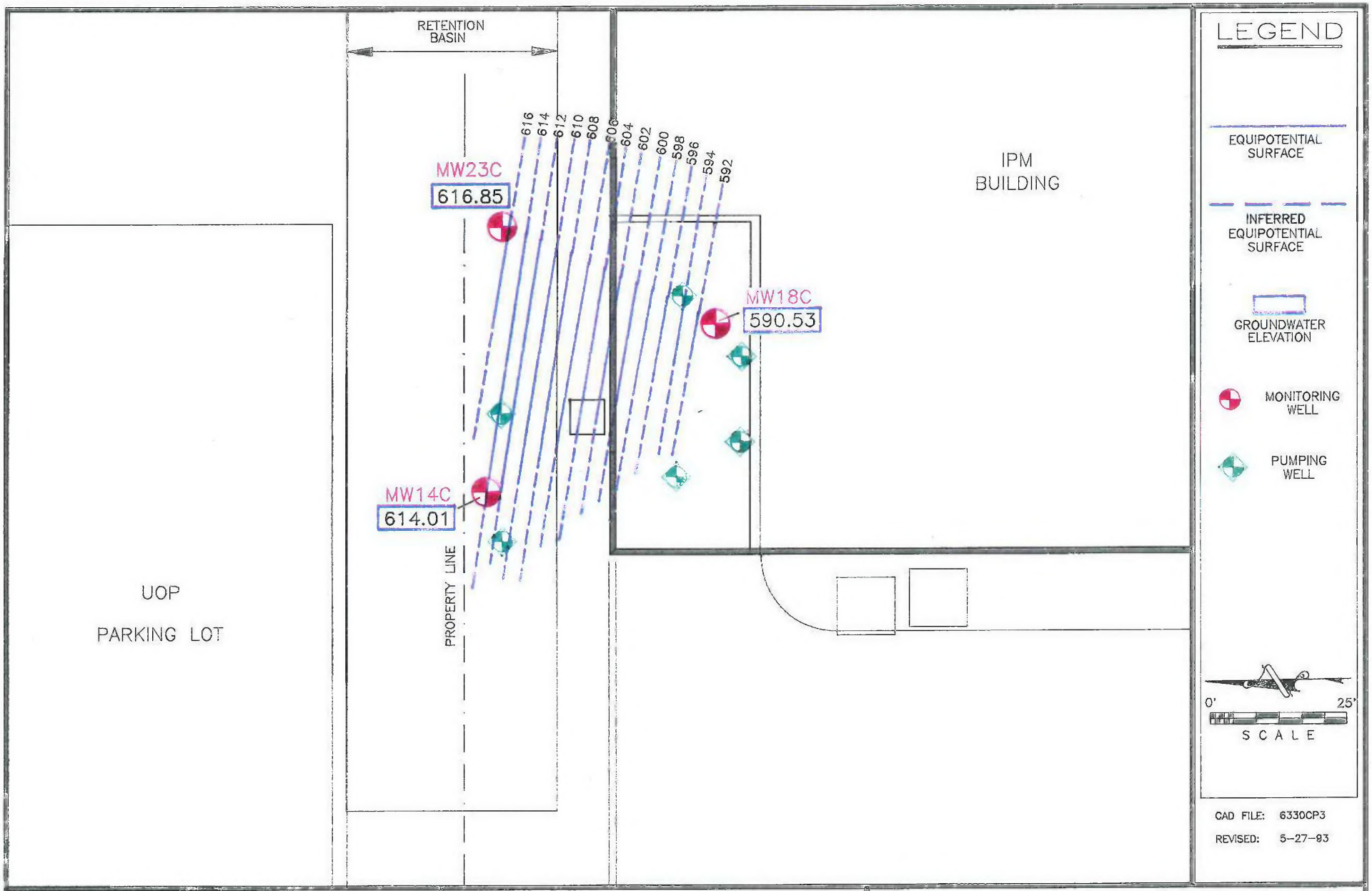


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FIGURE 17
POTENTIOMETRIC SURFACE
"C" WELLS – MAY 1993

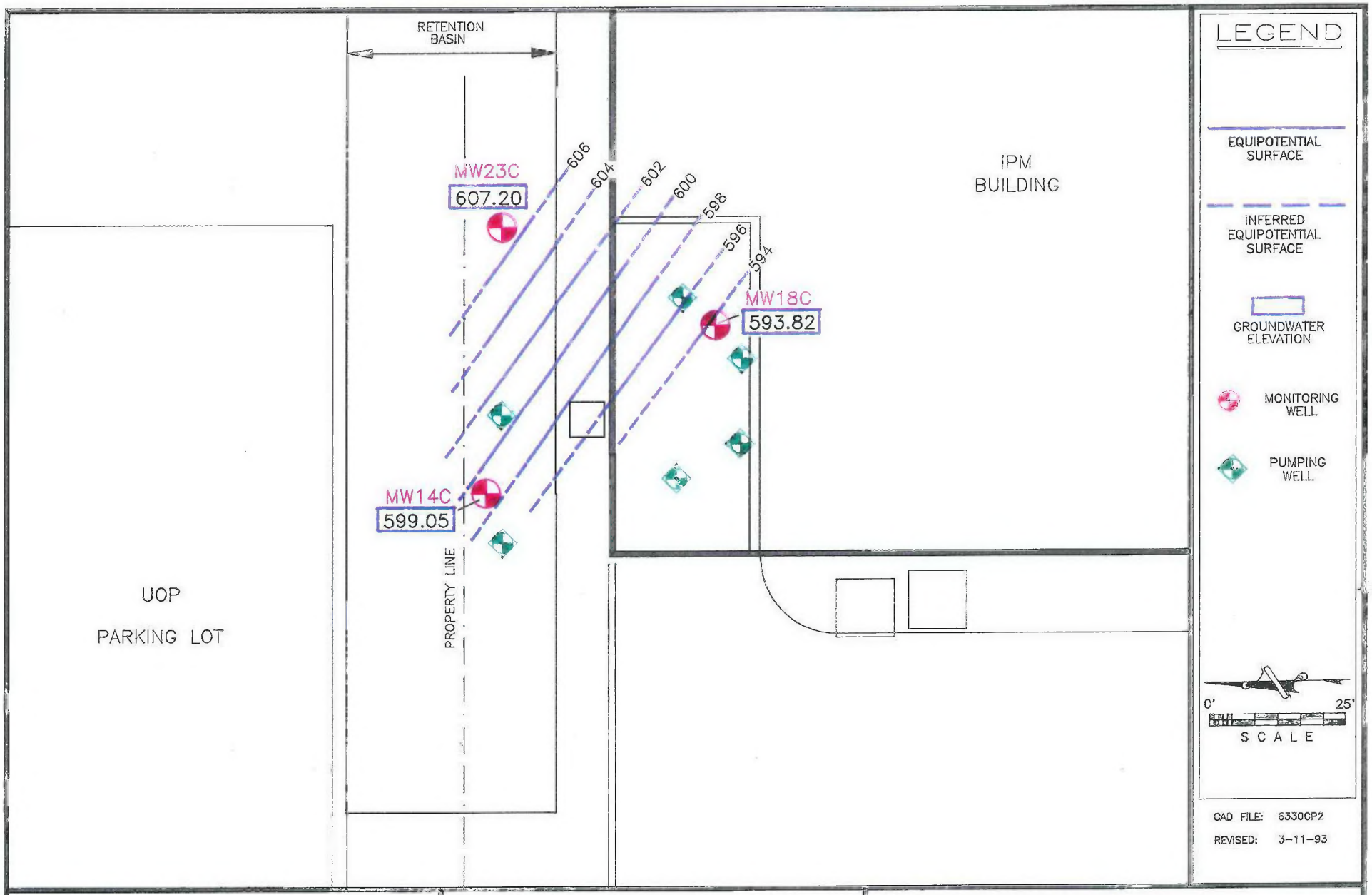


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FIGURE 18
POTENTIOMETRIC SURFACE
"C" WELLS – JANUARY 1993

screen. Both Figure 17 and Figure 18 indicate a C-Zone groundwater flow direction of south-southeast. However, the hydraulic gradient observed in May 1993 (approximately 0.64-ft/ft) was approximately twice as large as the hydraulic gradient observed in January 1993 (approximately 0.32-ft/ft). This was mainly due to higher static water elevations at monitoring wells MW-14C and MW-23C in May 1993. The reason for the large differences in the static water elevations at MW-14C and MW-23C between January 1993 and May 1993 is unknown.

**3.2.4 D-Zone Monitoring Wells:** The April 1993 and January 1993 TCVOC isoconcentration contours for the D-Zone monitoring wells are presented in Figure 19 and Figure 20, respectively.

Comparison of the April 1993 and January 1993 D-Zone isoconcentration contours indicate that monitoring well MW-18D remains the center of the D-Zone groundwater contamination, with the TCE concentration at MW-18D increasing slightly, from 54-$\mu$g/L in January 1993 to 57-$\mu$g/L in April 1993. However, an overall shrinkage of the D-Zone contaminant plume is indicated by the decrease in TCVOC concentrations at the remaining D-Zone monitoring wells.

The May 1993 and January 1993 potentiometric surface maps for the monitoring wells screened in the D-Zone are provided in Figure 21 and Figure 22, respectively. Note that these potentiometric surface plots are somewhat conceptualized due to an assumed static water elevation of 567.09 at MW-18D. This assumed static water level elevation is based upon an assumed static water level 1-ft above the top of the screened interval, which is consistent with the location of the extraction pump at a depth of 95-ft bgs (the extraction pump is controlled to pump at a rate which meets or exceed the recovery yield of the well). Comparison of Figure 21 and Figure 22 indicate little change in the D-Zone potentiometric surface between January 1993 and May 1993. The D-Zone potentiometric surface plots indicate that extraction of groundwater at MW-18D is dominating the D-Zone groundwater flow.

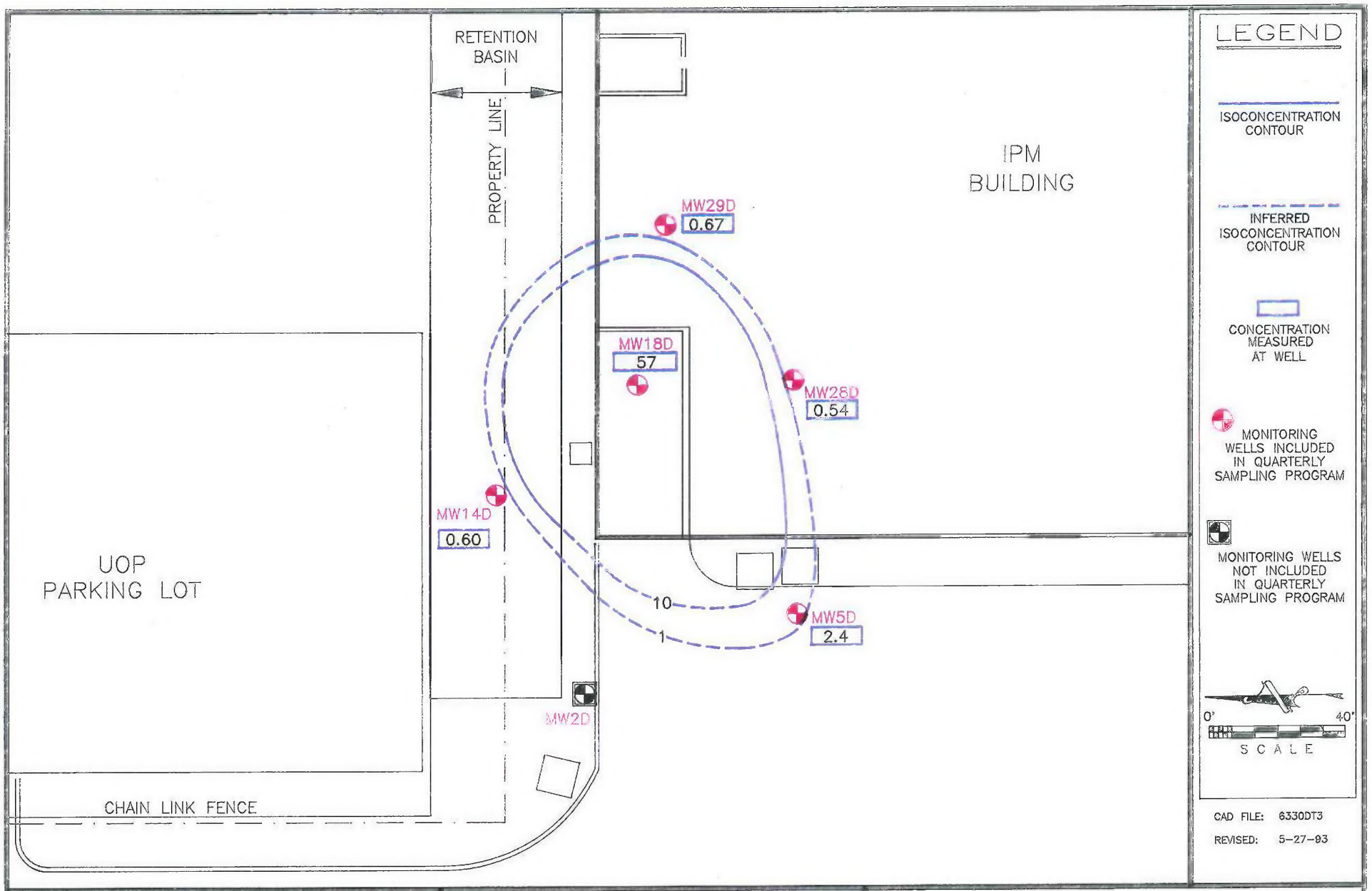


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FIGURE 19
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"D" WELLS – APRIL 1993

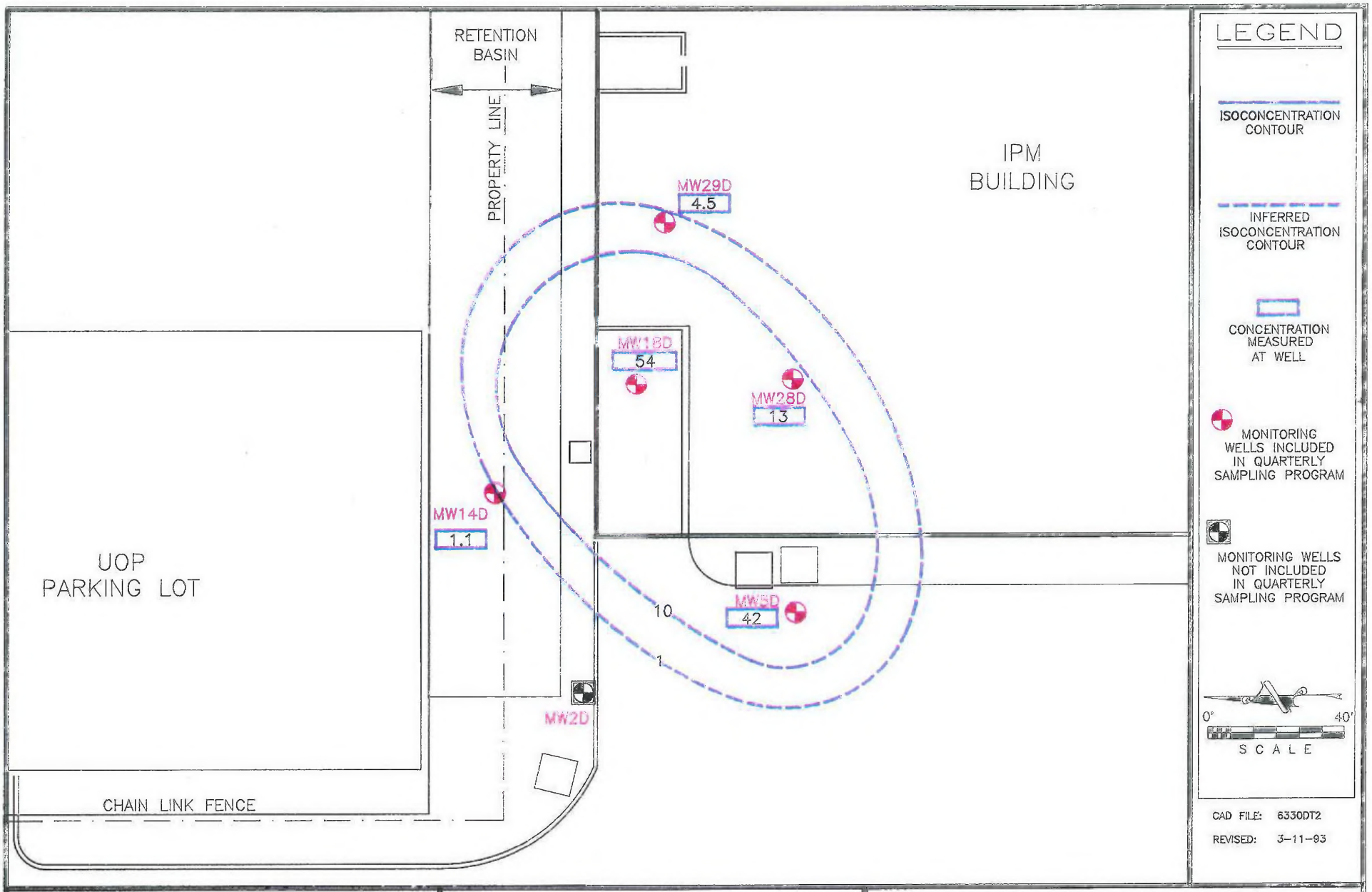


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FIGURE 20
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"D" WELLS – JANUARY 1993

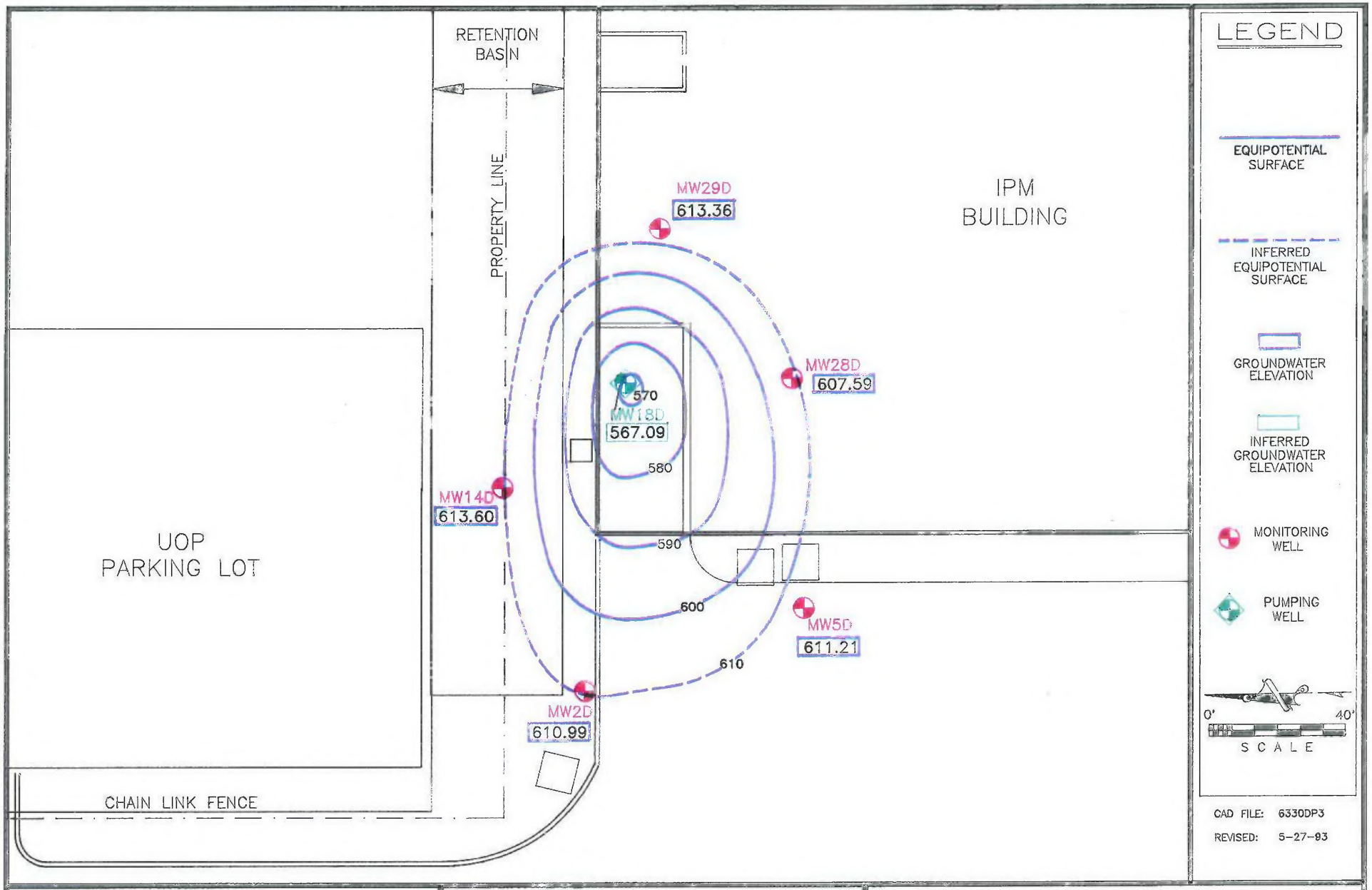


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FIGURE 21
POTENTIOMETRIC SURFACE
"D" WELLS – MAY 1993

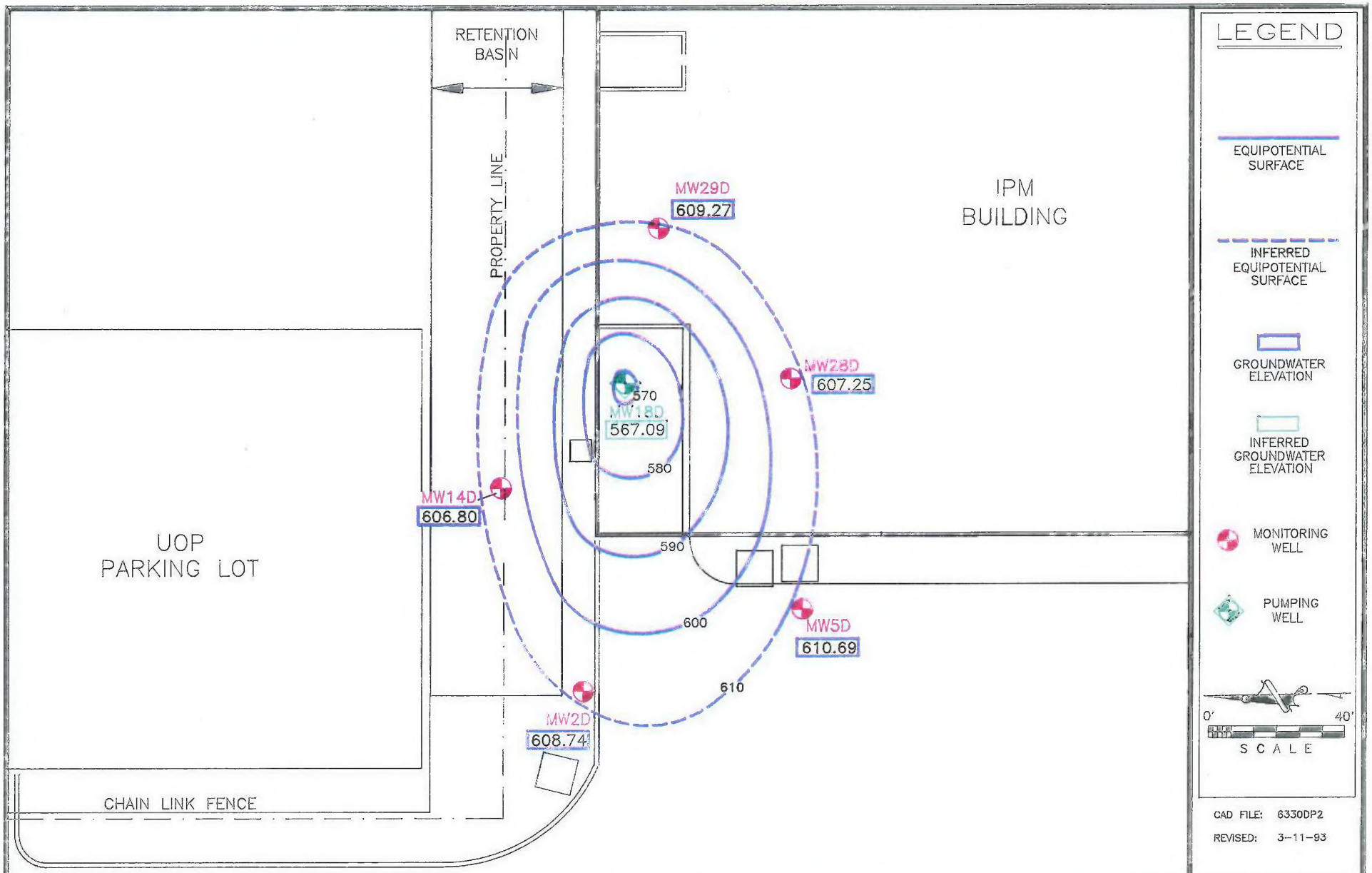


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FIGURE 22
POTENTIOMETRIC SURFACE
"D" WELLS – JANUARY 1993

**3.2.5 E-Zone Groundwater:** The location of the only E-Zone groundwater monitoring well, MW-18E, was provided in Figure 3. Following installation in February 1993, groundwater samples were collected from MW-18E and submitted for analysis on three separate occasions, with the analytical laboratory results indicating a range of TCE concentrations from below method detection limits up to 14-$\mu$g/L. The initial sampling and analytical results for MW-18E were summarized in the previous *Quarterly Groundwater Monitoring and Remediation Progress Report* that was submitted to the IEPA on May 3, 1993. Laboratory analysis of the most recently collected sample (April 1993) indicates TCE contamination at a concentration of 9.0-$\mu$g/L at MW-18E. Static water level measurements in May 1993 (Appendix E) indicate that the static water elevation in MW-18E (604.96-ft above M.S.L.) was somewhat lower than the static water levels in the D-Zone monitoring wells (607.59-ft to 613.60-ft) indicating a downward vertical hydraulic gradient between the D-Zone and E-Zone groundwater. However, at the center of the D-Zone contaminant plume, and directly above MW-18E, groundwater extraction at MW-18D is maintaining a lowered static water level and reducing or eliminating this apparent vertical hydraulic gradient between MW-18D and MW-18E. Observation of future contaminant concentration trends near MW-18D and MW-18E should provide additional insight into contaminant migration at the clay-limestone interface (D-Zone to E-Zone interface).

## 3.3 STATISTICAL EVALUATION OF B-ZONE REMEDIATION

The originally approved groundwater recovery system included twenty-three (23) groundwater recovery wells. Only twenty-one of these originally proposed recovery wells were installed because access to install the final two recovery wells at the proposed off-site locations was never secured. The two additional recovery wells (PW-22 and PW-23) were to be screened in the B-Zone only, and were to be located just northeast and northwest of MW-17B. In the November 30, 1992, closure plan approval letter, the IEPA required that Kearney submit to the IEPA in the form of a closure plan modification an "evaluation of the approved recovery system versus a recovery system excluding PW-22 and PW-23 and their respective abilities to capture and contain contaminants". This evaluation was submitted to the IEPA in the March 31, 1993, Closure Plan Modification. On June 17, 1993, the IEPA approved the closure plan modification

(and the request to delete PW-22 and PW-23 from the approved groundwater recovery system) with the condition that statistical evaluation of contaminant concentrations at MW-17B be performed to verify that the northern extent of the B-Zone contaminant plume was being adequately captured by the existing groundwater remediation system.

The statistical method to monitor the change in contaminant concentrations at MW-17B that was specified by the IEPA in the closure plan approval letter is the Shewhart-CUSUM control chart method (USEPA, 1989; Section 7). This method was applied to the historical groundwater monitoring data available for MW-17B, with the result that there is no statistically significant evidence that contaminant concentrations at MW-17B are increasing with time. The details of the application of the Shewhart-CUSUM control chart method to the contaminant concentrations at MW-17B are provided in Appendix H.

## 3.4 CONTAMINANT MASS RECOVERY

The groundwater recovery flowrate and NPDES sampling data indicate that the calculated rate of contaminant mass recovery has remained relatively constant over the last two quarters of operation, with an estimated contaminant mass removal from the groundwater of 25-lbs of CVOCs between March 1993 and July 1993 (Figure 6).

## 3.5 SUMMARY OF GROUNDWATER REMEDIATION PROGRESS

Review of the groundwater concentration and potentiometric surface data indicates the following:

- Review of the B-Zone monitoring well data indicates that while the overall shape and extent of the B-Zone contaminant plume changed little between January 1993 and April 1993, the center of the B-Zone contaminant plume may be migrating towards the southeast due to groundwater recovery

from extraction wells PW-6 through PW-9. The January 1993 and May 1993 B-Zone potentiometric surface plots were very similar, indicating a B-Zone groundwater flow direction of southeast.

- Statistical analysis of historical groundwater monitoring data at MW-17B indicated no statistically significant evidence of increasing contaminant concentrations with time. Therefore, the existing groundwater extraction system appears to be adequately addressing the northern extent of the B-Zone groundwater contamination.

- Review of the A-Zone monitoring well data indicates a general shrinkage of the A-Zone contaminant plume and generally decreasing contaminant concentrations between January 1993 and April 1993. The January 1993 and May 1993 A-Zone potentiometric surface plots were nearly identical, with both indicating that groundwater extraction is adequately creating a potentiometric surface minima near the center of the A-Zone groundwater contamination.

- Review of the C-Zone groundwater monitoring well data indicated increasing contaminant concentrations at the center of the C-Zone contaminant plume (MW-18C) between January 1993 and April 1993, with TCVOC concentrations increasing from 3,164-$\mu$g/L to 9,520-$\mu$g/L. Contaminant concentrations were observed to increase at MW-14C and decrease at MW-23C between the two sampling periods. The potentiometric surface data indicated an apparent doubling of the south-southeasterly C-Zone groundwater

hydraulic gradient between January 1993 and May 1993. The cause of this apparent increase in the C-Zone hydraulic gradient is unknown.

- The D-Zone monitoring well data indicates a shrinkage of the D-Zone contaminant plume between January 1993 and April 1993. Monitoring well MW-18D remained the center of the D-Zone contaminant plume, where contaminant concentrations exhibited a negligible increase (from 54-$\mu$g/L to 57-$\mu$g/L) between January 1993 and April 1993. The D-Zone potentiometric surface plots in January 1993 and May 1993 were virtually identical.

- Sampling and analysis of MW-18E in May 1993 indicated TCE contamination at a concentration of 9-$\mu$g/L. The static water elevation in MW-18E was somewhat lower than static water elevations in the D-Zone groundwater, indicating a downward vertical hydraulic gradient between the D-Zone and E-Zone groundwater. There is, therefore, some potential for migration of contaminants from the D-Zone to the E-Zone. However, continued groundwater extraction at the center of the D-Zone contaminant plume (MW-18D) should minimize the likelihood of significant migration of contaminants from the D-Zone to the E-Zone.

## REFERENCES


USEPA, Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities: Interim Final Guidance, Office of Solid Waste, Washington, D.C., EPA/530-SW-89-026, April (1989).

Vogel, T.M., and P.L. McCarty, "Biotransformation of Tetrachloroethylene to Trichloroethylene, Dichloroethylene, Vinyl Chloride, and Carbon Dioxide under Methanogenic Conditions:, Applied and Environmental Microbiology, Vol. 49, No. 5, pp. 1080-1083 (1985)

Vogel, T.M., C.S. Criddle, and P.M. McCarty, "Transformation of Halogenated Aliphatic Compounds", Environmental Science and Technology, Vol. 21, No. 8, pp. 722-736 (1987)

Wilson, B.H., G.B. Smith, and J.F. Rees, "Biotransformations of Selected Alkylbenzenes and Halogenated Aliphatic Hydrocarbons in Methanogenic Aquifer Material: A Microcosm Study", Environmental Science and Technology, Vol. 20, No. 10, pp. 997-1002 (1986)

# APPENDIX A

# GROUNDWATER MONITORING WELL INFORMATION

**A-ZONE MONITORING WELLS**
**Upper Elevation of Lower Water-Bearing Zone**

| Monitoring Well | Date Installed | Designation | Well Depth (ft bgs) | Screened Interval (ft bgs) | Well Casing Elevation[1] (ft) |
|---|---|---|---|---|---|
| MW-4A | 01/16/89 | A | 54.0 | 44.0-54.0 | 660.55 |
| MW-5A | 01/16/89 | A | 55.0 | 45.0-55.0 | 657.40 |
| MW-6A | 01/18/89 | A | 55.0 | 45.0-55.0 | 660.71 |
| MW-7A | 01/24/89 | A | 54.0 | 44.0-54.0 | 658.01 |
| MW-14A | 06/30/90 | A | 47.3 | 42.3-47.3 | 657.18 |
| MW-15A | 06/27/90 | A | 40 | 35-40 | 656.87 |
| MW-16A | 06/26/90 | A | 49.5 | 44.5-49.5 | 660.90 |
| MW-17A | 11/28/90 | A | 45 | 40-45 | 658.10 |
| MW-18A | 11/30/90 | A | 53 | 47-52 | 657.65 |
| MW-19A | 07/05/90 | A | 49.9 | 44.9-49.9 | 658.20 |
| MW-20A | 12/20/90 | A | 54.5 | 44.5-49.5 | 657.41 |
| MW-22A | 11/02/90 | A | 56 | 45-55 | 657.78 |
| MW-24A | 02/27/91 | A | 51 | 45-50 | 657.41 |
| MW-25A | 02/27/91 | A | 49 | 43-48 | 656.54 |
| MW-26A | 02/27/91 | A | 53 | 47-52 | 656.67 |
| MW-27A | 02/26/91 | A | 51.5 | 45-50 | 661.09 |

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

**B-ZONE MONITORING WELLS**
**Upper Water-Bearing Unit**

| Monitoring Well | Date Installed | Monitoring Well Designation | Well Depth (ft bgs) | Screened Interval (ft bgs) | Well Casing Elevation[1] (ft) |
|---|---|---|---|---|---|
| **MW-1** | 09/28/88 | B | 19 | 15-19 | 661.15 |
| **MW-2** | 09/28/88 | B | 19 | 15-19 | 661.32 |
| **MW-3** | 09/28/88 | B | 19 | 15-19 | 660.53 |
| **MW-4B** | 02/09/89 | B | 30 | 20-30 | 660.68 |
| **MW-5B** | 02/09/89 | B | 30 | 20-30 | 657.11 |
| **MW-6B** | 02/09/89 | B | 25 | 15-25 | 660.82 |
| **MW-7B** | 02/09/89 | B | 28 | 18-28 | 657.99 |
| **MW-8** | 04/10/89 | B | 25 | 14-24 | 658.41 |
| **MW-9** | 04/10/89 | B | 25 | 14-24 | 658.31 |
| **MW-10** | 04/10/89 | B | 25 | 14-24 | 658.26 |
| **MW-11** | 04/10/89 | B | 25 | 14-24 | 658.16 |
| **MW-12** | 08/01/89 | B | 25 | 12.2-22.2 | 658.40 |
| **MW-13** | 08/01/89 | B | 25 | 12.7-22.7 | 658.42 |
| **MW-15B** | 06/29/90 | B | 22.7 | 12.7-22.7 | 656.89 |
| **MW-17B** | 07/02/90 | B | 23.35 | 13.35-23.35 | 657.54 |
| **MW-18B** | 07/05/90 | B | 32 | 7-32 | 657.33 |
| **MW-18B1** | 07/03/90 | B | 28.8 | 3.8-28.8 | 657.10 |
| **MW-18B2** | 07/02/90 | B | 29.0 | 4.0-29.0 | 657.51 |
| **MW-20B** | 11/21/90 | B | 37.0 | 30.5-35.5 | 657.32 |
| **MW-21B** | 11/19/90 | B | 37.0 | 30.5-35.5 | 657.94 |

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

## C-ZONE MONITORING WELLS
### Lower Elevation of Lower Water-Bearing Zone

| Monitoring Well | Date Installed | Designation | Well Depth (ft bgs) | Screened Interval (ft bgs) | Well Casing Elevation[1] (ft) |
|---|---|---|---|---|---|
| MW-14C | 11/27/90 | C | 65.75 | 59-64 | 654.73 |
| MW-18C | 11/29/90 | C | 74 | 68-73 | 657.53 |
| MW-23C | 12/14/90 | C | 71 | 62-67 | 657.25 |

## D-ZONE MONITORING WELLS
### Bedrock/Overburden Interface Zone

| Monitoring Well | Date Installed | Designation | Well Depth (ft bgs) | Screened Interval (ft bgs) | Well Casing Elevation[1] (ft) |
|---|---|---|---|---|---|
| MW-2D | 03/10/91 | D | 97 | 91-96 | 660.53 |
| MW-5D | 03/21/91 | D | 94 | 89-94 | 657.53 |
| MW-14D | 03/10/91 | D | 83.5 | 78.3-83.3 | 653.58 |
| MW-18D | 01/28/92 | D | 96 | 91-96 | 657.09 |
| MW-28D | 08/21/92 | D | 96 | 91-96 | 657.67 |
| MW-29D | 08/21/92 | D | 96 | 91-96 | 657.83 |

## E-ZONE MONITORING WELLS
### Bedrock

| Monitoring Well | Date Installed | Designation | Well Depth (ft bgs) | Screened Interval (ft bgs) | Well Casing Elevation[1] (ft) |
|---|---|---|---|---|---|
| MW-18E | 02/11/93 | E | 132 | 127-132 | 657.39 |

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

# APPENDIX B

# CHEMICAL ANALYSIS FORMS

# JANUARY 1993 GROUNDWATER SAMPLING EVENT

## CHANGES TO MONITORING WELL DESIGNATIONS

In a letter dated March 12, 1993, IEPA requested that the monitoring well designations be changed on the chemical analysis forms. The following table summarizes these changes.

| Kearney-National Designation | Agency Designation | Kearney-National Designation | Agency Designation |
|---|---|---|---|
| MW-1 | G01S | MW-7A | G07U |
| MW-2 | G02S | MW-14A | G14U |
| MW-3 | GO3S | MW-15A | G15U |
| MW-4B | GO4S | MW-16A | G16U |
| MW-5B | GO5S | MW-17A | G17U |
| MW-6B | GO6S | MW-18A | G18U |
| MW-7B | GO7S | MW-19A | G19U |
| MW-8 | GO8S | MW-20A | G20U |
| MW-9 | GO9S | MW-22A | G22U |
| MW-10 | G10S | MW-24A | G24U |
| MW-11 | G11S | MW-25A | G25U |
| MW-12 | G12S | MW-26A | G26U |
| MW-13 | G13S | MW-27A | G27U |
| MW-15B | G15S | MW-14C | G14L |
| MW-18B | G18S | MW-18C | G18L |
| MW-18B1 | G16S | MW-23C | G23L |
| MW-18B2 | G14S | MW-2D | G02D |
| MW-20B | G20S | MW-5D | GO5D |
| MW-21B | G21S | MW-14D | G14D |
| MW-4A | G04U | MW-18D | G18D |
| MW-5A | GO5U | MW-28D | G28D |
| MW-6A | G06U | MW-29D | G29D |

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G02S (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 7193 | | | | 642.70 |
| | Well Depth Elevation (ft. MSL) | 7202 | | | | 639.60 |
| | Depth to Water from Meas. Pt. (ft) | 7209 | | | | 18.62 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G02S 0 4 1 4 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 1.8 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.89 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)
TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G04S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) ____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 641.47 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 628.00 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 19.21 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
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CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G04S (19–22)

CO. Cook

DATE COLLECTED 0 4 / 1 4 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 5.0 |
| 2 | BROMOFORM | 32104 | | | < | 10 |
| 3 | BROMOMETHANE | 34413 | | | < | 10 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 5.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 5.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 10 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 5.0 |
| 8 | CHLOROFORM | 32106 | | | < | 5.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 10 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 5.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 5.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 5.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 5.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 5.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 5.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 5.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 200 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 5.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 5.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 5.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 100 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 5.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 5.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 5.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 5.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 41 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 10 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 10 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER (see Instructions) G08S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 7193 | | | | 638.86 |
| | Well Depth Elevation (ft. MSL) | 7220 | | | | 634.50 |
| | Depth to Water from Meas. Pt. (ft) | 7209 | | | | 19.55 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G08S 0 4 1 4 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 50 |
| 2 | BROMOFORM | 32104 | | | < | 100 |
| 3 | BROMOMETHANE | 34413 | | | < | 100 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 50 |
| 6 | CHLOROETHANE | 34311 | | | < | 100 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 50 |
| 8 | CHLOROFORM | 32106 | | | < | 50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 100 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 1,300 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 1,000 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 600 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 100 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 100 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G09S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (64)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) ____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 638.53 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 634.50 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 19.78 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)  TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G09S 0 4 1 4 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 50 |
| 2 | BROMOFORM | 32104 | | | < | 100 |
| 3 | BROMOMETHANE | 34413 | | | < | 100 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 50 |
| 6 | CHLOROETHANE | 34311 | | | < | 100 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 50 |
| 8 | CHLOROFORM | 32106 | | | < | 50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 100 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 1,300 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 1,000 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 420 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 100 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 100 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G12S (19–22) (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (59) (see Instructions)

MONITOR POINT SAMPLED BY B (60) (see Instructions)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 639.52 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 636.30 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 18.88 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G12S (19–22)

CO. Cook

DATE COLLECTED 0 1 / 2 / 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 10 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 20 |
| 3 | BROMOMETHANE | 34413 | | | < | 20 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 10 |
| 5 | CHLOROBENZENE | 34301 | | | < | 10 |
| 6 | CHLOROETHANE | 34311 | | | < | 20 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 10 |
| 8 | CHLOROFORM | 32106 | | | < | 10 |
| 9 | CHLOROMETHANE | 34418 | | | < | 20 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 10 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 10 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 10 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 10 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 10 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 10 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 10 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 15 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 10 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 10 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 10 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 200 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 10 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 10 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 10 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 10 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 300 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 20 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 20 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G13S (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (uq/L) (38–47) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 639.06 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 635.80 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 19.36 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)  TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G13S 0 1 2 2 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 10 |
| 2 | BROMOFORM | 32104 | | | < | 20 |
| 3 | BROMOMETHANE | 34413 | | | < | 20 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 10 |
| 5 | CHLOROBENZENE | 34301 | | | < | 10 |
| 6 | CHLOROETHANE | 34311 | | | < | 20 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 10 |
| 8 | CHLOROFORM | 32106 | | | < | 10 |
| 9 | CHLOROMETHANE | 34418 | | | < | 20 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 10 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 10 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 10 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 10 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 10 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 10 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 10 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 10 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 10 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 10 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 10 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 200 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 10 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 10 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 10 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 10 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 240 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 20 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 20 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G15S (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/13/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 7993 | | | | 641.48 |
| | Well Depth Elevation (ft. MSL) | 7020 | | | | 634.80 |
| | Depth to Water from Meas. Pt. (ft) | 7109 | | | | 15.41 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G15S 0 4 1 3 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 0.50 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 1.0 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



Printed on Recycled Paper

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER (see Instructions) G17S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 640.41 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 632.30 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 17.13 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G17S

DATE COLLECTED 0 4 1 4 9 3 (19–22)

CO. Cook

Kearney-National, Inc.

FACILITY NAME

DATE COLLECTED __/__/__ (23 M D Y 28)

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 10 |
| 2 | BROMOFORM | 32104 | | | < | 20 |
| 3 | BROMOMETHANE | 34413 | | | < | 20 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 10 |
| 5 | CHLOROBENZENE | 34301 | | | < | 10 |
| 6 | CHLOROETHANE | 34311 | | | < | 20 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 10 |
| 8 | CHLOROFORM | 32106 | | | < | 10 |
| 9 | CHLOROMETHANE | 34418 | | | < | 20 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 10 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 10 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 10 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 10 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 10 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 10 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 10 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 26 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 10 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 10 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 10 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 200 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 10 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 10 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 10 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 10 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 760 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 20 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 20 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G17S DUP 0 4 1 5 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 25 |
| 2 | BROMOFORM | 32104 | | | < | 50 |
| 3 | BROMOMETHANE | 34413 | | | < | 50 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 25 |
| 5 | CHLOROBENZENE | 34301 | | | < | 25 |
| 6 | CHLOROETHANE | 34311 | | | < | 50 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 25 |
| 8 | CHLOROFORM | 32106 | | | < | 25 |
| 9 | CHLOROMETHANE | 34418 | | | < | 50 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 25 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 25 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 25 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 25 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 25 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 25 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 25 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 31 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 25 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 25 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 25 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 500 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 25 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 25 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 25 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 25 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 760 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 50 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 50 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G18S (19–22) (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (55 H M 58) (24 Hr. Clock)

UNABLE TO COLLECT SAMPLE ____ (59) (see Instructions)

MONITOR POINT SAMPLED BY B (60) (see Instructions) ____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 639.38 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 626.00 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 17.95 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18S 0 4 1 4 9 3 (19–22)

CO. Cook

Kearney-National, Inc.
FACILITY NAME

DATE COLLECTED __/__/__ (23 M D Y 28)

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 50 |
| 2 | BROMOFORM | 32104 | | | < | 100 |
| 3 | BROMOMETHANE | 34413 | | | < | 100 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 50 |
| 6 | CHLOROETHANE | 34311 | | | < | 100 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 50 |
| 8 | CHLOROFORM | 32106 | | | < | 50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 100 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 69 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 1,000 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 690 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 100 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 100 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G16S (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 7193 | | | | 638.92 |
| Well Depth Elevation (ft. MSL) | 7220 | | | | 629.20 |
| Depth to Water from Meas. Pt. (ft) | 7209 | | | | 18.18 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G16S 0 4 1 4 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 50 |
| 2 | BROMOFORM | 32104 | | | < | 100 |
| 3 | BROMOMETHANE | 34413 | | | < | 100 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 50 |
| 6 | CHLOROETHANE | 34311 | | | < | 100 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 50 |
| 8 | CHLOROFORM | 32106 | | | < | 50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 100 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 1,000 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 1,400 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 100 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 100 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G14S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE (63–102) CLEAR

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 638.87 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 629.00 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 18.64 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G14S 0 4 1 4 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 50 |
| 2 | BROMOFORM | 32104 | | | < | 100 |
| 3 | BROMOMETHANE | 34413 | | | < | 100 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 50 |
| 6 | CHLOROETHANE | 34311 | | | < | 100 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 50 |
| 8 | CHLOROFORM | 32106 | | | < | 50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 100 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 1,000 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 1,600 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 100 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 100 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



Printed on Recycled Paper

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (8–18)

MONITOR POINT NUMBER G20S (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/13/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102): CLEAR

COLLECTOR COMMENTS (103–142):

LAB COMMENTS (150–199):

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 641.31 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 622.20 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 16.01 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G20S (19–22)

CO. Cook

DATE COLLECTED 04/13/93 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 0.50 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.50 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 7 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G 0 4 U (19–22) (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 0 4 / 1 3 / 9 3 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE _____ (69) (see Instructions)

MONITOR POINT SAMPLED BY B (60) (see Instructions)

OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 7993 | | | | 616.30 |
| | Well Depth Elevation (ft. MSL) | 7020 | | | | 604.20 |
| | Depth to Water from Meas. Pt. (ft) | 7209 | | | | 44.25 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

IL 532 1213
IPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G04U 0 4 1 3 9 3 (19–22)

CO. Cook

Kearney-National, Inc.
FACILITY NAME

DATE COLLECTED __/__/__ (23 M D Y 28)

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 0.50 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.50 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G14U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/15/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 7993 | | | | 616.07 |
| Well Depth Elevation (ft. MSL) | 7020 | | | | 607.70 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 41.11 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G14U (19–22)

CO. Cook

DATE COLLECTED 0 4 1 5 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 500 |
| 2 | BROMOFORM | 32104 | | | < | 1,000 |
| 3 | BROMOMETHANE | 34413 | | | < | 1,000 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 500 |
| 5 | CHLOROBENZENE | 34301 | | | < | 500 |
| 6 | CHLOROETHANE | 34311 | | | < | 1,000 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 500 |
| 8 | CHLOROFORM | 32106 | | | < | 500 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1,000 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 500 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 500 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 500 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 500 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 500 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 500 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 500 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 500 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 500 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 500 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 500 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10,000 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 500 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 500 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 500 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 500 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 4,500 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1,000 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1,000 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G15U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/13/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE _____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)

OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 633.77 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 617.50 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 23.10 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER G15U 0 4 1 3 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 5.0 |
| 2 | BROMOFORM | 32104 | | | < | 10 |
| 3 | BROMOMETHANE | 34413 | | | < | 10 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 5.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 5.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 10 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 5.0 |
| 8 | CHLOROFORM | 32106 | | | < | 5.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 10 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 5.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 5.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 5.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 5.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 5.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 5.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 5.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 8.5 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 5.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 5.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 5.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 100 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 5.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 5.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 5.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 5.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 74 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 10 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 10 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G15U DUP

CO. Cook

DATE COLLECTED 0 4 / 1 5 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 5.0 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 10 |
| 3 | BROMOMETHANE | 34413 | | | < | 10 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 5.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 5.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 10 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 5.0 |
| 8 | CHLOROFORM | 32106 | | | < | 5.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 10 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 5.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 5.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 5.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 5.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 5.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 5.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 5.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 11 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 5.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 5.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 5.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 100 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 5.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 5.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 5.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 5.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 85 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 10 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 10 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 166 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G17U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/13/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (60) (see Instructions)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 7993 | | | | 618.10 |
| Well Depth Elevation (ft. MSL) | 7020 | | | | 610.20 |
| Depth to Water from Meas. Pt. (ft) | 7209 | | | | 40.00 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G17U 0 4 1 3 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 0.50 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 1.0 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G18U (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/15/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 612.03 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 606.00 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 45.62 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18U

CO. Cook

DATE COLLECTED 0 4 / 1 5 / 1 9 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 500 |
| 2 | BROMOFORM | 32104 | | | < | 1,000 |
| 3 | BROMOMETHANE | 34413 | | | < | 1,000 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 500 |
| 5 | CHLOROBENZENE | 34301 | | | < | 500 |
| 6 | CHLOROETHANE | 34311 | | | < | 1,000 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 500 |
| 8 | CHLOROFORM | 32106 | | | < | 500 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1,000 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 500 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 500 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 500 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 500 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 500 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 500 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 500 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 640 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 500 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 500 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 500 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10,000 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 500 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 500 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 500 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 500 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 7,700 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1,000 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1,000 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G19U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/15/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 623.92 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 608.70 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 34.28 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G19U 0 4 1 5 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 5.0 |
| 2 | BROMOFORM | 32104 | | | < | 10 |
| 3 | BROMOMETHANE | 34413 | | | < | 10 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 5.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 5.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 10 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 5.0 |
| 8 | CHLOROFORM | 32106 | | | < | 5.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 10 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 5.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 5.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 5.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 5.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 5.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 5.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 5.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 7.2 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 5.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 5.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 5.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 100 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 5.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 5.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 5.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 5.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 100 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 10 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 10 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G20U (19–22) (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 04/13/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE _____ (59) (see Instructions)

MONITOR POINT SAMPLED BY B (60) (see Instructions)  OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61)  ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 7193 | | | | 620.93 |
| | Well Depth Elevation (ft. MSL) | 7220 | | | | 607.70 |
| | Depth to Water from Meas. Pt. (ft) | 7209 | | | | 36.48 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G20U 0 4 1 3 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | | (36) | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.50 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



Printed on Recycled Paper

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G22U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/13/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 7993 | | | | 634.43 |
| Well Depth Elevation (ft. MSL) | 7020 | | | | 603.50 |
| Depth to Water from Meas. Pt. (ft) | 7209 | | | | 23.35 |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G22U (19–22)

CO. Cook

DATE COLLECTED 0 4 / 1 3 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 0.50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.59 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.50 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G14L (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| Elevation of GW Surface (ft. MSL) | 7193 | | | | 614.01 |
| Well Depth Elevation (ft. MSL) | 7220 | | | | 588.90 |
| Depth to Water from Meas. Pt. (ft) | 7209 | | | | 40.72 |
| | | | | | |
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IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G14L (19–22)

CO. Cook

DATE COLLECTED 0 4 / 1 4 / 1 9 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < ar > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 (30–34) | (35) | (36) | < (37) | 50 (38–47) |
| 2 | BROMOFORM | 32104 | | | < | 100 |
| 3 | BROMOMETHANE | 34413 | | | < | 100 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 50 |
| 6 | CHLOROETHANE | 34311 | | | < | 100 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 50 |
| 8 | CHLOROFORM | 32106 | | | < | 50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 100 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 170 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 1,000 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 970 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 100 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 100 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G18L (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 590.53 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 584.90 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 67.00 |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
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IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18L 0 4 1 4 9 3 (19–22)

CO. Cook

Kearney-National, Inc.
FACILITY NAME

DATE COLLECTED __/__/__ (23 M D Y 28)

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 0.50 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 460 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 60 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 9,000 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

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*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G23L (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/13/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Instr. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | | | | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 71993 | | | | 616.85 |
| | Well Depth Elevation (ft. MSL) | 72020 | | | | 587.70 |
| | Depth to Water from Meas. Pt. (ft) | 72109 | | | | 40.40 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G23L 0 4 1 3 9 3 (19–22)

CO. Cook

Kearney-National, Inc.
FACILITY NAME

DATE COLLECTED __/__/__ (23 M D Y 28)

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 0.50 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.50 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

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*Only Keypunch with Data in Column 35 or Columns 38-47*



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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G05D (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/14/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE _____ (see Instructions) (59)

MONITOR POINT SAMPLED BY Z (see Instructions) (60)  OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61)  ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 7193 | | | | 611.21 |
| | Well Depth Elevation (ft. MSL) | 7202 | | | | 563.60 |
| | Depth to Water from Meas. Pt. (ft) | 7209 | | | | 46.32 |
| | | | | | | |
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This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G05D 0 4 1 4 9 3 (19–22)

CO. Cook

Kearney-National, Inc.

FACILITY NAME

DATE COLLECTED __/__/__ (23 M D Y 28)

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 0.50 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 2.4 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G14D (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/13/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 613.60 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 568.70 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 39.98 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G14D 0 4 1 3 9 3 (19–22)

CO. Cook

Kearney-National, Inc.
FACILITY NAME

DATE COLLECTED __/__/__ (23 M D Y 28)

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 0.50 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.60 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–19)

MONITOR POINT NUMBER G18D (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/13/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) ____ (60)  OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61)  ORGANICS (X) ____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|
| TEMP. OF WATER SAMPLE (unfiltered) | 00011 | | | | 60 °F |
| Elevation of GW Surface (ft. MSL) | 71993 | | | | 567.09 |
| Well Depth Elevation (ft. MSL) | 72020 | | | | 562.00 |
| Depth to Water from Meas. Pt. (ft) | 72109 | | | | 90.00 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18D 0 4 1 3 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 5.0 |
| 2 | BROMOFORM | 32104 | | | < | 10 |
| 3 | BROMOMETHANE | 34413 | | | < | 10 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 5.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 5.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 10 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 5.0 |
| 8 | CHLOROFORM | 32106 | | | < | 5.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 10 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 5.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 5.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 5.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 5.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 5.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 5.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 5.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 5.0 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 5.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 5.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 5.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 100 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 5.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 5.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 5.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 5.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 57 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 10 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 10 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18D DUP (19–22)

CO. Cook

DATE COLLECTED 0 4 1 5 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 5.0 |
| 2 | BROMOFORM | 32104 | | | < | 10 |
| 3 | BROMOMETHANE | 34413 | | | < | 10 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 5.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 5.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 10 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 5.0 |
| 8 | CHLOROFORM | 32106 | | | < | 5.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 10 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 5.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 5.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 5.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 5.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 5.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 5.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 5.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 5.0 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 5.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 5.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 5.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 100 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 5.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 5.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 5.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 5.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 46 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 10 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 10 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7)  TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G28D (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/13/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY B (60) (see Instructions)

OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7)  TRANS CODE A (8)  (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 7193 | | | | 607.59 |
| | Well Depth Elevation (ft. MSL) | 7202 | | | | 562.50 |
| | Depth to Water from Meas. Pt. (ft) | 7209 | | | | 50.08 |
| | | | | | | |
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IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G28D 0 4 1 3 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 0.50 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.50 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.54 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
## DIVISION OF LAND POLLUTION CONTROL
## CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G29D (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/13/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE _____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60) _____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 7193 | | | | 613.36 |
| | Well Depth Elevation (ft. MSL) | 7020 | | | | 562.50 |
| | Depth to Water from Meas. Pt. (ft) | 7209 | | | | 44.47 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G29D

CO. Cook

DATE COLLECTED 0 4 1 3 9 3 (22)

(23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 0.50 |
| 2 | BROMOFORM | 32104 | | | < | 1.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 1.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 0.50 |
| 5 | CHLOROBENZENE | 34301 | | | < | 0.50 |
| 6 | CHLOROETHANE | 34311 | | | < | 1.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 0.50 |
| 8 | CHLOROFORM | 32106 | | | < | 0.50 |
| 9 | CHLOROMETHANE | 34418 | | | < | 1.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 0.50 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 0.50 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 0.50 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 0.50 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 0.50 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 0.50 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 0.50 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 0.50 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 0.50 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 0.50 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 0.50 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 10.0 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 0.50 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 0.50 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 0.67 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 0.50 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 0.50 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 1.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 1.0 |
| | | | | | < | |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
# DIVISION OF LAND POLLUTION CONTROL
# CHEMICAL ANALYSIS FORM



RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 07/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G18E (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 04/15/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

**FOR IEPA USE ONLY**

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) ____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE (63–102) CLEAR

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

| | FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER | Remarks See Inst. | Replicate | < or > | VALUE (ug/L) |
|---|---|---|---|---|---|---|
| | TEMP. OF WATER SAMPLE (unfiltered) | 00011 (30–34) | (35) | (36) | (37) | 60 °F (38–47) |
| | Elevation of GW Surface (ft. MSL) | 7193 | | | | 604.96 |
| | Well Depth Elevation (ft. MSL) | 7220 | | | | XXX.XX |
| | Depth to Water from Meas. Pt. (ft) | 7209 | | | | 52.43 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

This Agency is authorised to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM



RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18E 0 4 1 5 9 3 (19–22)

CO. Cook

DATE COLLECTED __/__/__ (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

| | LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE | STORET NUMBER (30–34) | Remarks See Inst. (35) | Replicate (36) | < or > (37) | VALUE (ug/L) (38–47) |
|---|---|---|---|---|---|---|
| 1 | BROMODICHLOROMETHANE | 32101 | | | < | 1.0 |
| 2 | BROMOFORM | 32104 | | | < | 2.0 |
| 3 | BROMOMETHANE | 34413 | | | < | 2.0 |
| 4 | CARBON TETRACHLORIDE | 32102 | | | < | 1.0 |
| 5 | CHLOROBENZENE | 34301 | | | < | 1.0 |
| 6 | CHLOROETHANE | 34311 | | | < | 2.0 |
| 7 | 2-CHLOROETHYLVINYL ETHER | 34576 | | | < | 1.0 |
| 8 | CHLOROFORM | 32106 | | | < | 1.0 |
| 9 | CHLOROMETHANE | 34418 | | | < | 2.0 |
| 10 | DIBROMOCHLOROMETHANE | 32105 | | | < | 1.0 |
| 11 | 1,2-DICHLOROBENZENE | 34536 | | | < | 1.0 |
| 12 | 1,3-DICHLOROBENZENE | 34566 | | | < | 1.0 |
| 13 | 1,4-DICHLOROBENZENE | 34571 | | | < | 1.0 |
| 14 | 1,1-DICHLOROETHANE | 34496 | | | < | 1.0 |
| 15 | 1,2-DICHLOROETHANE | 34531 | | | < | 1.0 |
| 16 | 1,1-DICHLOROETHYLENE | 34501 | | | < | 1.0 |
| 17 | CIS-1,2-DICHLOROETHYLENE | 34546 | | | < | 1.0 |
| 18 | 1,2-DICHLOROPROPANE | 34541 | | | < | 1.0 |
| 19 | CIS-1,3-DICHLOROPROPENE | 34704 | | | < | 1.0 |
| 20 | TRANS-1,3-DICHLOROPROPENE | 34699 | | | < | 1.0 |
| 21 | METHYLENE CHLORIDE | 34423 | | | < | 20 |
| 22 | 1,1,2,2-TETRACHLORETHANE | 34516 | | | < | 1.0 |
| 23 | TETRACHLOROETHYLENE | 34475 | | | < | 1.0 |
| 24 | 1,1,1-TRICHLOROETHANE | 34506 | | | < | 1.0 |
| 25 | 1,1,2-TRICHLOROETHANE | 34511 | | | < | 1.0 |
| 26 | TRICHLOROETHYLENE | 39180 | | | < | 9.0 |
| 27 | TRICHLOROFLUOROMETHANE | 34488 | | | < | 2.0 |
| 28 | VINYL CHLORIDE | 39175 | | | < | 2.0 |

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

*Only Keypunch with Data in Column 35 or Columns 38-47*



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# APPENDIX C

# ANALYTICAL LABORATORY REPORTS

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW2 | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0741 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| **cis-1,2-Dichloroethene** | **0.50** | **1.8** |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **0.89** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

3040718.DEP <24>

GREAT
LAKES
ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW4B | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0722 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 5.0 | N.D. |
| Bromoform | 10 | N.D. |
| Bromomethane | 10 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. |
| Chlorobenzene | 5.0 | N.D. |
| Chloroethane | 10 | N.D. |
| 2-Chloroethylvinyl ether | 5.0 | N.D. |
| Chloroform | 5.0 | N.D. |
| Chloromethane | 10 | N.D. |
| Dibromochloromethane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 5.0 | N.D. |
| 1,1-Dichloroethane | 5.0 | N.D. |
| 1,2-Dichloroethane | 5.0 | N.D. |
| 1,1-Dichloroethene | 5.0 | N.D. |
| **cis-1,2-Dichloroethene** | **5.0** | **200** |
| trans-1,2-Dichloroethene | 5.0 | N.D. |
| 1,2-Dichloropropane | 5.0 | N.D. |
| cis-1,3-Dichloropropene | 5.0 | N.D. |
| trans-1,3-Dichloropropene | 5.0 | N.D. |
| Methylene chloride | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 5.0 | N.D. |
| Tetrachloroethene | 5.0 | N.D. |
| 1,1,1-Trichloroethane | 5.0 | N.D. |
| 1,1,2-Trichloroethane | 5.0 | N.D. |
| **Trichloroethene** | **5.0** | **41** |
| Trichlorofluoromethane | 10 | N.D. |
| Vinyl chloride | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL**

Kevin W. Keeley
Laboratory Director

GREAT
LAKES
ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

| | | | | | |
|---|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW8 | | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0726 | | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 50 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| Carbon tetrachloride | 50 | N.D. |
| Chlorobenzene | 50 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethylvinyl ether | 50 | N.D. |
| Chloroform | 50 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 50 | N.D. |
| 1,2-Dichlorobenzene | 50 | N.D. |
| 1,3-Dichlorobenzene | 50 | N.D. |
| 1,4-Dichlorobenzene | 50 | N.D. |
| 1,1-Dichloroethane | 50 | N.D. |
| 1,2-Dichloroethane | 50 | N.D. |
| 1,1-Dichloroethene | 50 | N.D. |
| **cis-1,2-Dichloroethene** | **50** | **1,300** |
| trans-1,2-Dichloroethene | 50 | N.D. |
| 1,2-Dichloropropane | 50 | N.D. |
| cis-1,3-Dichloropropene | 50 | N.D. |
| trans-1,3-Dichloropropene | 50 | N.D. |
| Methylene chloride | 1,000 | N.D. |
| 1,1,2,2-Tetrachloroethane | 50 | N.D. |
| Tetrachloroethene | 50 | N.D. |
| 1,1,1-Trichloroethane | 50 | N.D. |
| 1,1,2-Trichloroethane | 50 | N.D. |
| **Trichloroethene** | **50** | **600** |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl chloride | 100 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT
LAKES
ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW9 | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0728 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 50 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| Carbon tetrachloride | 50 | N.D. |
| Chlorobenzene | 50 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethylvinyl ether | 50 | N.D. |
| Chloroform | 50 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 50 | N.D. |
| 1,2-Dichlorobenzene | 50 | N.D. |
| 1,3-Dichlorobenzene | 50 | N.D. |
| 1,4-Dichlorobenzene | 50 | N.D. |
| 1,1-Dichloroethane | 50 | N.D. |
| 1,2-Dichloroethane | 50 | N.D. |
| 1,1-Dichloroethene | 50 | N.D. |
| **cis-1,2-Dichloroethene** | **50** | **1,300** |
| trans-1,2-Dichloroethene | 50 | N.D. |
| 1,2-Dichloropropane | 50 | N.D. |
| cis-1,3-Dichloropropene | 50 | N.D. |
| trans-1,3-Dichloropropene | 50 | N.D. |
| Methylene chloride | 1,000 | N.D. |
| 1,1,2,2-Tetrachloroethane | 50 | N.D. |
| Tetrachloroethene | 50 | N.D. |
| 1,1,1-Trichloroethane | 50 | N.D. |
| 1,1,2-Trichloroethane | 50 | N.D. |
| **Trichloroethene** | **50** | **420** |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl chloride | 100 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL**

Kevin W. Keeley
Laboratory Director

3040718.DEP <11>

GREAT
LAKES
ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW12 | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0723 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 10 | N.D. |
| Bromoform | 20 | N.D. |
| Bromomethane | 20 | N.D. |
| Carbon tetrachloride | 10 | N.D. |
| Chlorobenzene | 10 | N.D. |
| Chloroethane | 20 | N.D. |
| 2-Chloroethylvinyl ether | 10 | N.D. |
| Chloroform | 10 | N.D. |
| Chloromethane | 20 | N.D. |
| Dibromochloromethane | 10 | N.D. |
| 1,2-Dichlorobenzene | 10 | N.D. |
| 1,3-Dichlorobenzene | 10 | N.D. |
| 1,4-Dichlorobenzene | 10 | N.D. |
| 1,1-Dichloroethane | 10 | N.D. |
| 1,2-Dichloroethane | 10 | N.D. |
| 1,1-Dichloroethene | 10 | N.D. |
| cis-1,2-Dichloroethene | 10 | 15 |
| trans-1,2-Dichloroethene | 10 | N.D. |
| 1,2-Dichloropropane | 10 | N.D. |
| cis-1,3-Dichloropropene | 10 | N.D. |
| trans-1,3-Dichloropropene | 10 | N.D. |
| Methylene chloride | 200 | N.D. |
| 1,1,2,2-Tetrachloroethane | 10 | N.D. |
| Tetrachloroethene | 10 | N.D. |
| 1,1,1-Trichloroethane | 10 | N.D. |
| 1,1,2-Trichloroethane | 10 | N.D. |
| Trichloroethene | 10 | 300 |
| Trichlorofluoromethane | 20 | N.D. |
| Vinyl chloride | 20 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW13 | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0721 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 10 | N.D. |
| Bromoform | 20 | N.D. |
| Bromomethane | 20 | N.D. |
| Carbon tetrachloride | 10 | N.D. |
| Chlorobenzene | 10 | N.D. |
| Chloroethane | 20 | N.D. |
| 2-Chloroethylvinyl ether | 10 | N.D. |
| Chloroform | 10 | N.D. |
| Chloromethane | 20 | N.D. |
| Dibromochloromethane | 10 | N.D. |
| 1,2-Dichlorobenzene | 10 | N.D. |
| 1,3-Dichlorobenzene | 10 | N.D. |
| 1,4-Dichlorobenzene | 10 | N.D. |
| 1,1-Dichloroethane | 10 | N.D. |
| 1,2-Dichloroethane | 10 | N.D. |
| 1,1-Dichloroethene | 10 | N.D. |
| cis-1,2-Dichloroethene | 10 | N.D. |
| trans-1,2-Dichloroethene | 10 | N.D. |
| 1,2-Dichloropropane | 10 | N.D. |
| cis-1,3-Dichloropropene | 10 | N.D. |
| trans-1,3-Dichloropropene | 10 | N.D. |
| Methylene chloride | 200 | N.D. |
| 1,1,2,2-Tetrachloroethane | 10 | N.D. |
| Tetrachloroethene | 10 | N.D. |
| 1,1,1-Trichloroethane | 10 | N.D. |
| 1,1,2-Trichloroethane | 10 | N.D. |
| **Trichloroethene** | **10** | **240** |
| Trichlorofluoromethane | 200 | N.D. |
| Vinyl chloride | 20 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 13, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW15B | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0736 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| **1,1,1-Trichloroethane** | **0.50** | **1.0** |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | N.D. |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW17B | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0745 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 10 | N.D. |
| Bromoform | 20 | N.D. |
| Bromomethane | 20 | N.D. |
| Carbon tetrachloride | 10 | N.D. |
| Chlorobenzene | 10 | N.D. |
| Chloroethane | 20 | N.D. |
| 2-Chloroethylvinyl ether | 10 | N.D. |
| Chloroform | 10 | N.D. |
| Chloromethane | 20 | N.D. |
| Dibromochloromethane | 10 | N.D. |
| 1,2-Dichlorobenzene | 10 | N.D. |
| 1,3-Dichlorobenzene | 10 | N.D. |
| 1,4-Dichlorobenzene | 10 | N.D. |
| 1,1-Dichloroethane | 10 | N.D. |
| 1,2-Dichloroethane | 10 | N.D. |
| 1,1-Dichloroethene | 10 | N.D. |
| **cis-1,2-Dichloroethene** | **10** | **26** |
| trans-1,2-Dichloroethene | 10 | N.D. |
| 1,2-Dichloropropane | 10 | N.D. |
| cis-1,3-Dichloropropene | 10 | N.D. |
| trans-1,3-Dichloropropene | 10 | N.D. |
| Methylene chloride | 200 | N.D. |
| 1,1,2,2-Tetrachloroethane | 10 | N.D. |
| Tetrachloroethene | 10 | N.D. |
| 1,1,1-Trichloroethane | 10 | N.D. |
| 1,1,2-Trichloroethane | 10 | N.D. |
| **Trichloroethene** | **10** | **760** |
| Trichlorofluoromethane | 20 | N.D. |
| Vinyl chloride | 20 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 15, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW17B Dup | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0747 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 25 | N.D. |
| Bromoform | 50 | N.D. |
| Bromomethane | 50 | N.D. |
| Carbon tetrachloride | 25 | N.D. |
| Chlorobenzene | 25 | N.D. |
| Chloroethane | 50 | N.D. |
| 2-Chloroethylvinyl ether | 25 | N.D. |
| Chloroform | 25 | N.D. |
| Chloromethane | 50 | N.D. |
| Dibromochloromethane | 25 | N.D. |
| 1,2-Dichlorobenzene | 25 | N.D. |
| 1,3-Dichlorobenzene | 25 | N.D. |
| 1,4-Dichlorobenzene | 25 | N.D. |
| 1,1-Dichloroethane | 25 | N.D. |
| 1,2-Dichloroethane | 25 | N.D. |
| 1,1-Dichloroethene | 25 | N.D. |
| **cis-1,2-Dichloroethene** | **25** | **31** |
| trans-1,2-Dichloroethene | 25 | N.D. |
| 1,2-Dichloropropane | 25 | N.D. |
| cis-1,3-Dichloropropene | 25 | N.D. |
| trans-1,3-Dichloropropene | 25 | N.D. |
| Methylene chloride | 500 | N.D. |
| 1,1,2,2-Tetrachloroethane | 25 | N.D. |
| Tetrachloroethene | 25 | N.D. |
| 1,1,1-Trichloroethane | 25 | N.D. |
| 1,1,2-Trichloroethane | 25 | N.D. |
| **Trichloroethene** | **25** | **760** |
| Trichlorofluoromethane | 50 | N.D. |
| Vinyl chloride | 50 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW18B | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0727 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 50 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| Carbon tetrachloride | 50 | N.D. |
| Chlorobenzene | 50 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethylvinyl ether | 50 | N.D. |
| Chloroform | 50 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 50 | N.D. |
| 1,2-Dichlorobenzene | 50 | N.D. |
| 1,3-Dichlorobenzene | 50 | N.D. |
| 1,4-Dichlorobenzene | 50 | N.D. |
| 1,1-Dichloroethane | 50 | N.D. |
| 1,2-Dichloroethane | 50 | N.D. |
| 1,1-Dichloroethene | 50 | N.D. |
| **cis-1,2-Dichloroethene** | **50** | **69** |
| trans-1,2-Dichloroethene | 50 | N.D. |
| 1,2-Dichloropropane | 50 | N.D. |
| cis-1,3-Dichloropropene | 50 | N.D. |
| trans-1,3-Dichloropropene | 50 | N.D. |
| Methylene chloride | 1,000 | N.D. |
| 1,1,2,2-Tetrachloroethane | 50 | N.D. |
| Tetrachloroethene | 50 | N.D. |
| 1,1,1-Trichloroethane | 50 | N.D. |
| 1,1,2-Trichloroethane | 50 | N.D. |
| **Trichloroethene** | **50** | **690** |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl chloride | 100 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW18B1 | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0743 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 50 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| Carbon tetrachloride | 50 | N.D. |
| Chlorobenzene | 50 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethylvinyl ether | 50 | N.D. |
| Chloroform | 50 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 50 | N.D. |
| 1,2-Dichlorobenzene | 50 | N.D. |
| 1,3-Dichlorobenzene | 50 | N.D. |
| 1,4-Dichlorobenzene | 50 | N.D. |
| 1,1-Dichloroethane | 50 | N.D. |
| 1,2-Dichloroethane | 50 | N.D. |
| 1,1-Dichloroethene | 50 | N.D. |
| cis-1,2-Dichloroethene | 50 | N.D. |
| trans-1,2-Dichloroethene | 50 | N.D. |
| 1,2-Dichloropropane | 50 | N.D. |
| cis-1,3-Dichloropropene | 50 | N.D. |
| trans-1,3-Dichloropropene | 50 | N.D. |
| Methylene chloride | 1,000 | N.D. |
| 1,1,2,2-Tetrachloroethane | 50 | N.D. |
| Tetrachloroethene | 50 | N.D. |
| 1,1,1-Trichloroethane | 50 | N.D. |
| 1,1,2-Trichloroethane | 50 | N.D. |
| Trichloroethene | 50 | 1,400 |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl chloride | 100 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW18B2 | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0725 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 50 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| Carbon tetrachloride | 50 | N.D. |
| Chlorobenzene | 50 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethylvinyl ether | 50 | N.D. |
| Chloroform | 50 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 50 | N.D. |
| 1,2-Dichlorobenzene | 50 | N.D. |
| 1,3-Dichlorobenzene | 50 | N.D. |
| 1,4-Dichlorobenzene | 50 | N.D. |
| 1,1-Dichloroethane | 50 | N.D. |
| 1,2-Dichloroethane | 50 | N.D. |
| 1,1-Dichloroethene | 50 | N.D. |
| cis-1,2-Dichloroethene | 50 | N.D. |
| trans-1,2-Dichloroethene | 50 | N.D. |
| 1,2-Dichloropropane | 50 | N.D. |
| cis-1,3-Dichloropropene | 50 | N.D. |
| trans-1,3-Dichloropropene | 50 | N.D. |
| Methylene chloride | 1,000 | N.D. |
| 1,1,2,2-Tetrachloroethane | 50 | N.D. |
| Tetrachloroethene | 50 | N.D. |
| 1,1,1-Trichloroethane | 50 | N.D. |
| 1,1,2-Trichloroethane | 50 | N.D. |
| **Trichloroethene** | **50** | **1,600** |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl chloride | 100 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 13, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW20B | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0734 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | N.D. |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 13, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW4A | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0733 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | N.D. |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 15, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW14A | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0744 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 500 | N.D. |
| Bromoform | 1,000 | N.D. |
| Bromomethane | 1,000 | N.D. |
| Carbon tetrachloride | 500 | N.D. |
| Chlorobenzene | 500 | N.D. |
| Chloroethane | 1,000 | N.D. |
| 2-Chloroethylvinyl ether | 500 | N.D. |
| Chloroform | 500 | N.D. |
| Chloromethane | 1,000 | N.D. |
| Dibromochloromethane | 500 | N.D. |
| 1,2-Dichlorobenzene | 500 | N.D. |
| 1,3-Dichlorobenzene | 500 | N.D. |
| 1,4-Dichlorobenzene | 500 | N.D. |
| 1,1-Dichloroethane | 500 | N.D. |
| 1,2-Dichloroethane | 500 | N.D. |
| 1,1-Dichloroethene | 500 | N.D. |
| cis-1,2-Dichloroethene | 500 | N.D. |
| trans-1,2-Dichloroethene | 500 | N.D. |
| 1,2-Dichloropropane | 500 | N.D. |
| cis-1,3-Dichloropropene | 500 | N.D. |
| trans-1,3-Dichloropropene | 500 | N.D. |
| Methylene chloride | 10,000 | N.D. |
| 1,1,2,2-Tetrachloroethane | 500 | N.D. |
| Tetrachloroethene | 500 | N.D. |
| 1,1,1-Trichloroethane | 500 | N.D. |
| 1,1,2-Trichloroethane | 500 | N.D. |
| **Trichloroethene** | **500** | **4,500** |
| Trichlorofluoromethane | 1,000 | N.D. |
| Vinyl chloride | 1,000 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 13, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW15A | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0739 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 5.0 | N.D. |
| Bromoform | 10 | N.D. |
| Bromomethane | 10 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. |
| Chlorobenzene | 5.0 | N.D. |
| Chloroethane | 10 | N.D. |
| 2-Chloroethylvinyl ether | 5.0 | N.D. |
| Chloroform | 5.0 | N.D. |
| Chloromethane | 10 | N.D. |
| Dibromochloromethane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 5.0 | N.D. |
| 1,1-Dichloroethane | 5.0 | N.D. |
| 1,2-Dichloroethane | 5.0 | N.D. |
| 1,1-Dichloroethene | 5.0 | N.D. |
| cis-1,2-Dichloroethene | 5.0 | 8.5 |
| trans-1,2-Dichloroethene | 5.0 | N.D. |
| 1,2-Dichloropropane | 5.0 | N.D. |
| cis-1,3-Dichloropropene | 5.0 | N.D. |
| trans-1,3-Dichloropropene | 5.0 | N.D. |
| Methylene chloride | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 5.0 | N.D. |
| Tetrachloroethene | 5.0 | N.D. |
| 1,1,1-Trichloroethane | 5.0 | N.D. |
| 1,1,2-Trichloroethane | 5.0 | N.D. |
| Trichloroethene | 5.0 | 74 |
| Trichlorofluoromethane | 10 | N.D. |
| Vinyl chloride | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 15, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW15A Dup | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0746 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 5.0 | N.D. |
| Bromoform | 10 | N.D. |
| Bromomethane | 10 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. |
| Chlorobenzene | 5.0 | N.D. |
| Chloroethane | 10 | N.D. |
| 2-Chloroethylvinyl ether | 5.0 | N.D. |
| Chloroform | 5.0 | N.D. |
| Chloromethane | 10 | N.D. |
| Dibromochloromethane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 5.0 | N.D. |
| 1,1-Dichloroethane | 5.0 | N.D. |
| 1,2-Dichloroethane | 5.0 | N.D. |
| 1,1-Dichloroethene | 5.0 | N.D. |
| **cis-1,2-Dichloroethene** | **5.0** | **11** |
| trans-1,2-Dichloroethene | 5.0 | N.D. |
| 1,2-Dichloropropane | 5.0 | N.D. |
| cis-1,3-Dichloropropene | 5.0 | N.D. |
| trans-1,3-Dichloropropene | 5.0 | N.D. |
| Methylene chloride | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 5.0 | N.D. |
| Tetrachloroethene | 5.0 | N.D. |
| 1,1,1-Trichloroethane | 5.0 | N.D. |
| 1,1,2-Trichloroethane | 5.0 | N.D. |
| **Trichloroethene** | **5.0** | **85** |
| Trichlorofluoromethane | 10 | N.D. |
| Vinyl chloride | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 13, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW17A | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0737 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **1.0** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 15, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW18A | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0742 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 500 | N.D. |
| Bromoform | 1,000 | N.D. |
| Bromomethane | 1,000 | N.D. |
| Carbon tetrachloride | 500 | N.D. |
| Chlorobenzene | 500 | N.D. |
| Chloroethane | 1,000 | N.D. |
| 2-Chloroethylvinyl ether | 500 | N.D. |
| Chloroform | 500 | N.D. |
| Chloromethane | 1,000 | N.D. |
| Dibromochloromethane | 500 | N.D. |
| 1,2-Dichlorobenzene | 500 | N.D. |
| 1,3-Dichlorobenzene | 500 | N.D. |
| 1,4-Dichlorobenzene | 500 | N.D. |
| 1,1-Dichloroethane | 500 | N.D. |
| 1,2-Dichloroethane | 500 | N.D. |
| 1,1-Dichloroethene | 500 | N.D. |
| **cis-1,2-Dichloroethene** | **500** | **640** |
| trans-1,2-Dichloroethene | 500 | N.D. |
| 1,2-Dichloropropane | 500 | N.D. |
| cis-1,3-Dichloropropene | 500 | N.D. |
| trans-1,3-Dichloropropene | 500 | N.D. |
| Methylene chloride | 10,000 | N.D. |
| 1,1,2,2-Tetrachloroethane | 500 | N.D. |
| Tetrachloroethene | 500 | N.D. |
| 1,1,1-Trichloroethane | 500 | N.D. |
| 1,1,2-Trichloroethane | 500 | N.D. |
| **Trichloroethene** | **500** | **7,700** |
| Trichlorofluoromethane | 1,000 | N.D. |
| Vinyl chloride | 1,000 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 15, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW19A | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0720 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 5.0 | N.D. |
| Bromoform | 10 | N.D. |
| Bromomethane | 10 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. |
| Chlorobenzene | 5.0 | N.D. |
| Chloroethane | 10 | N.D. |
| 2-Chloroethylvinyl ether | 5.0 | N.D. |
| Chloroform | 5.0 | N.D. |
| Chloromethane | 10 | N.D. |
| Dibromochloromethane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 5.0 | N.D. |
| 1,1-Dichloroethane | 5.0 | N.D. |
| 1,2-Dichloroethane | 5.0 | N.D. |
| 1,1-Dichloroethene | 5.0 | N.D. |
| cis-1,2-Dichloroethene | 5.0 | 7.2 |
| trans-1,2-Dichloroethene | 5.0 | N.D. |
| 1,2-Dichloropropane | 5.0 | N.D. |
| cis-1,3-Dichloropropene | 5.0 | N.D. |
| trans-1,3-Dichloropropene | 5.0 | N.D. |
| Methylene chloride | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 5.0 | N.D. |
| Tetrachloroethene | 5.0 | N.D. |
| 1,1,1-Trichloroethane | 5.0 | N.D. |
| 1,1,2-Trichloroethane | 5.0 | N.D. |
| Trichloroethene | 5.0 | 100 |
| Trichlorofluoromethane | 10 | N.D. |
| Vinyl chloride | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 13, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW20A | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0740 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | N.D. |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 13, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW22A | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0730 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | 0.59 |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | N.D. |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW14C | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0724 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 50 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| Carbon tetrachloride | 50 | N.D. |
| Chlorobenzene | 50 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethylvinyl ether | 50 | N.D. |
| Chloroform | 50 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 50 | N.D. |
| 1,2-Dichlorobenzene | 50 | N.D. |
| 1,3-Dichlorobenzene | 50 | N.D. |
| 1,4-Dichlorobenzene | 50 | N.D. |
| 1,1-Dichloroethane | 50 | N.D. |
| 1,2-Dichloroethane | 50 | N.D. |
| 1,1-Dichloroethene | 50 | N.D. |
| **cis-1,2-Dichloroethene** | **50** | **170** |
| trans-1,2-Dichloroethene | 50 | N.D. |
| 1,2-Dichloropropane | 50 | N.D. |
| cis-1,3-Dichloropropene | 50 | N.D. |
| trans-1,3-Dichloropropene | 50 | N.D. |
| Methylene chloride | 1,000 | N.D. |
| 1,1,2,2-Tetrachloroethane | 50 | N.D. |
| Tetrachloroethene | 50 | N.D. |
| 1,1,1-Trichloroethane | 50 | N.D. |
| 1,1,2-Trichloroethane | 50 | N.D. |
| **Trichloroethene** | **50** | **970** |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl chloride | 100 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW18C | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0729 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| **cis-1,2-Dichloroethene** | **0.50** | **460** |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| **1,1,1-Trichloroethane** | **0.50** | **60** |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **9,000** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 13, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW23C | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0731 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | N.D. |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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Laboratory Director

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 14, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW5D | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-22, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0718 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **2.4** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
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3040718.DEP <1>

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 13, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW14D | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0732 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| **Trichloroethene** | **0.50** | **0.60** |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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Laboratory Director

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 13, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW18D | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0719 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 5.0 | N.D. |
| Bromoform | 10 | N.D. |
| Bromomethane | 10 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. |
| Chlorobenzene | 5.0 | N.D. |
| Chloroethane | 10 | N.D. |
| 2-Chloroethylvinyl ether | 5.0 | N.D. |
| Chloroform | 5.0 | N.D. |
| Chloromethane | 10 | N.D. |
| Dibromochloromethane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 5.0 | N.D. |
| 1,1-Dichloroethane | 5.0 | N.D. |
| 1,2-Dichloroethane | 5.0 | N.D. |
| 1,1-Dichloroethene | 5.0 | N.D. |
| cis-1,2-Dichloroethene | 5.0 | N.D. |
| trans-1,2-Dichloroethene | 5.0 | N.D. |
| 1,2-Dichloropropane | 5.0 | N.D. |
| cis-1,3-Dichloropropene | 5.0 | N.D. |
| trans-1,3-Dichloropropene | 5.0 | N.D. |
| Methylene chloride | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 5.0 | N.D. |
| Tetrachloroethene | 5.0 | N.D. |
| 1,1,1-Trichloroethane | 5.0 | N.D. |
| 1,1,2-Trichloroethane | 5.0 | N.D. |
| **Trichloroethene** | **5.0** | **57** |
| Trichlorofluoromethane | 10 | N.D. |
| Vinyl chloride | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 15, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW18D Dup | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0748 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 5.0 | N.D. |
| Bromoform | 10 | N.D. |
| Bromomethane | 10 | N.D. |
| Carbon tetrachloride | 5.0 | N.D. |
| Chlorobenzene | 5.0 | N.D. |
| Chloroethane | 10 | N.D. |
| 2-Chloroethylvinyl ether | 5.0 | N.D. |
| Chloroform | 5.0 | N.D. |
| Chloromethane | 10 | N.D. |
| Dibromochloromethane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 5.0 | N.D. |
| 1,1-Dichloroethane | 5.0 | N.D. |
| 1,2-Dichloroethane | 5.0 | N.D. |
| 1,1-Dichloroethene | 5.0 | N.D. |
| cis-1,2-Dichloroethene | 5.0 | N.D. |
| trans-1,2-Dichloroethene | 5.0 | N.D. |
| 1,2-Dichloropropane | 5.0 | N.D. |
| cis-1,3-Dichloropropene | 5.0 | N.D. |
| trans-1,3-Dichloropropene | 5.0 | N.D. |
| Methylene chloride | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 5.0 | N.D. |
| Tetrachloroethene | 5.0 | N.D. |
| 1,1,1-Trichloroethane | 5.0 | N.D. |
| 1,1,2-Trichloroethane | 5.0 | N.D. |
| Trichloroethene | 5.0 | 46 |
| Trichlorofluoromethane | 10 | N.D. |
| Vinyl chloride | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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| | | | | |
|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 13, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW28D | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0738 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| 1,1,1-Trichloroethane | 0.50 | N.D. |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | 0.54 |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 13, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW29D | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0735 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 0.50 | N.D. |
| Bromoform | 1.0 | N.D. |
| Bromomethane | 1.0 | N.D. |
| Carbon tetrachloride | 0.50 | N.D. |
| Chlorobenzene | 0.50 | N.D. |
| Chloroethane | 1.0 | N.D. |
| 2-Chloroethylvinyl ether | 0.50 | N.D. |
| Chloroform | 0.50 | N.D. |
| Chloromethane | 1.0 | N.D. |
| Dibromochloromethane | 0.50 | N.D. |
| 1,2-Dichlorobenzene | 0.50 | N.D. |
| 1,3-Dichlorobenzene | 0.50 | N.D. |
| 1,4-Dichlorobenzene | 0.50 | N.D. |
| 1,1-Dichloroethane | 0.50 | N.D. |
| 1,2-Dichloroethane | 0.50 | N.D. |
| 1,1-Dichloroethene | 0.50 | N.D. |
| cis-1,2-Dichloroethene | 0.50 | N.D. |
| trans-1,2-Dichloroethene | 0.50 | N.D. |
| 1,2-Dichloropropane | 0.50 | N.D. |
| cis-1,3-Dichloropropene | 0.50 | N.D. |
| trans-1,3-Dichloropropene | 0.50 | N.D. |
| Methylene chloride | 10.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 0.50 | N.D. |
| Tetrachloroethene | 0.50 | N.D. |
| **1,1,1-Trichloroethane** | **0.50** | **0.67** |
| 1,1,2-Trichloroethane | 0.50 | N.D. |
| Trichloroethene | 0.50 | N.D. |
| Trichlorofluoromethane | 1.0 | N.D. |
| Vinyl chloride | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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|---|---|---|---|---|
| DePaul and Associates | Client Project ID: | 6330, IPM | Sampled: | Apr 15, 1993 |
| 5 Revere Dr. Suite 310 | Sample Descript: | Water: MW18E | Received: | Apr 16, 1993 |
| Northbrook, IL 60622 | Analysis Method: | EPA 5030/8010 | Analyzed: | Apr 19-23, 1993 |
| Attention: Rick Vamos | Lab Number: | 304-0749 | Reported: | Apr 23, 1993 |

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|---|---|---|
| Bromodichloromethane | 1.0 | N.D. |
| Bromoform | 2.0 | N.D. |
| Bromomethane | 2.0 | N.D. |
| Carbon tetrachloride | 1.0 | N.D. |
| Chlorobenzene | 1.0 | N.D. |
| Chloroethane | 2.0 | N.D. |
| 2-Chloroethylvinyl ether | 1.0 | N.D. |
| Chloroform | 1.0 | N.D. |
| Chloromethane | 2.0 | N.D. |
| Dibromochloromethane | 1.0 | N.D. |
| 1,2-Dichlorobenzene | 1.0 | N.D. |
| 1,3-Dichlorobenzene | 1.0 | N.D. |
| 1,4-Dichlorobenzene | 1.0 | N.D. |
| 1,1-Dichloroethane | 1.0 | N.D. |
| 1,2-Dichloroethane | 1.0 | N.D. |
| 1,1-Dichloroethene | 1.0 | N.D. |
| cis-1,2-Dichloroethene | 1.0 | N.D. |
| trans-1,2-Dichloroethene | 1.0 | N.D. |
| 1,2-Dichloropropane | 1.0 | N.D. |
| cis-1,3-Dichloropropene | 1.0 | N.D. |
| trans-1,3-Dichloropropene | 1.0 | N.D. |
| Methylene chloride | 20 | N.D. |
| 1,1,2,2-Tetrachloroethane | 1.0 | N.D. |
| Tetrachloroethene | 1.0 | N.D. |
| 1,1,1-Trichloroethane | 1.0 | N.D. |
| 1,1,2-Trichloroethane | 1.0 | N.D. |
| **Trichloroethene** | **1.0** | **9.0** |
| Trichlorofluoromethane | 2.0 | N.D. |
| Vinyl chloride | 2.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
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ENVIRONMENTAL ENGINEERS

DUE 4/23/93

# CHAIN-OF-CUSTODY RECORD

| CLIENT NAME AND ADDRESS: | PROJECT #: G330 | SUBMITTED TO: GREAT LAKES |
|---|---|---|
| PM | PURCHASE ORDER #: 1104 | SAMPLED BY: P. LUNA |

| SAMPLE NUMBER | | SAMPLE DATE | SAMPLE TYPE (water/soil/air) | NUMBER OF CONTAINERS | ANALYSIS REQUESTED | COMMENTS |
|---|---|---|---|---|---|---|
| 1) MW 5D | 3040718 | 4/14/93 | WATER | 2 | 8010 | STORED |
| 2) MW 18D | 3040719 | 4/13/93 | | | | ON ICE |
| 3) MW19A | 3040720 | 4/15/93 | | | | |
| 4) MW 13 | 3040721 | 4/14/93 | | | | |
| 5) MW 4B | 3040722 | 4/14/93 | | | | |
| 6) MW 12 | 3040723 | 4/14/93 | | | | |
| 7) MW 14C | 3040724 | 4/14/93 | | | | |
| 8) MW 18B2 | 3040725 | 4/14/93 | | | | |
| 9) MW 8 | 3040726 | 4/14/93 | | | | |
| 10) MW 18B | 3040727 | 4/14/93 | | | | |
| 11) MW 9 | 3040728 | 4/14/93 | | | | |
| 12) MW 18C | 3040729 | 4/14/93 | | | | |

§ § - Please Note: Method Quantification Limits (MQLs) as specified in EPA SW-846 (3rd Edition) are required - § §

| SIGNATURE and FIRM | INCLUSIVE DATES | COMMENTS |
|---|---|---|
| [signature] DEPAUL | 4/12/93 4/16/93 | |
| Lesley Jankowsky GLA | 4/16/93 1655 | |
| | | |

DUE 4/23/93

**DEPAUL**
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

# CHAIN-OF-CUSTODY RECORD

| CLIENT NAME AND ADDRESS: | PROJECT #: 6330 | SUBMITTED TO: GREAT LAKES |
|---|---|---|
| IPM | PURCHASE ORDER #: 1104 | SAMPLED BY: P. LUNA |

| SAMPLE NUMBER | | SAMPLE DATE | SAMPLE TYPE (water/soil/air) | NUMBER OF CONTAINERS | ANALYSIS REQUESTED | COMMENTS |
|---|---|---|---|---|---|---|
| 1) MW22A | 3046730 | 4/13/93 | WATER | 2 | 8010 | STORED |
| 2) MW23C | 3046731 | 4/13/93 | | | | ON ICE |
| 3) MW14D | 3046732 | 4/13/93 | | | | |
| 4) MW4A | 3046733 | 4/13/93 | | | | |
| 5) MW20B | 3046734 | 4/13/93 | | | | |
| 6) MW29D | 3046735 | 4/13/93 | | | | |
| 7) MW15B | 3046736 | 4/13/93 | | | | |
| 8) MW-17B | 3046737 | 4/13/93 | | | | |
| 9) MW2ED | 3046738 | 4/13/93 | | | | |
| 10) MW15A | 3046739 | 4/13/93 | | | | |
| 11) MW20A | 3046740 | 4/13/93 | | | | |
| 12) MW2 | 3046741 | 4/14/93 | | | | |

§ § - Please Note: Method Quantification Limits (MQLs) as specified in EPA SW-846 (3rd Edition) are required - § §

| SIGNATURE and FIRM | INCLUSIVE DATES | COMMENTS |
|---|---|---|
| [signature] DEPAUL | 4/12/93 - 4/16/93 | |
| Kealey Jankowsky GLA | 4/16/93 1655 | |
| | | |

DUE 4/23/93

**DEPAUL**
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

# CHAIN-OF-CUSTODY RECORD

| CLIENT NAME AND ADDRESS: | PROJECT #: 6330 | SUBMITTED TO: GREAT LAKES |
|---|---|---|
| IPM | PURCHASE ORDER #: 1104 | SAMPLED BY: P. LUNA |

| SAMPLE NUMBER | SAMPLE DATE | SAMPLE TYPE (water/soil/air) | NUMBER OF CONTAINERS | ANALYSIS REQUESTED | COMMENTS |
|---|---|---|---|---|---|
| 1) MW18A 3040742 | 4/15/93 | WATER | 2 | 8010 | STORED |
| 2) MW18B1 3040743 | 4/14/93 | | | | ON ICE |
| 3) MW14A 3040744 | 4/15/93 | | | | |
| 4) MW17B 3040745 | 4/14/93 | | | | |
| 5) MW 15A DUP 3040746 | 4/15/93 | | | | |
| 6) MW 17B DUP 3040747 | 4/15/93 | | | | |
| 7) MW 18D DUP 3040748 | 4/15/93 | | | | |
| 8) MW 18E 3040749 | 4/15/93 | | | | |
| 9) MW 18E pump 3040750 | 4/15/93 | | | | |
| 10) B. Blank 3040751 | 4/15/93 | | | | |
| 11) ~~pump Blank~~ | ~~4/15/93~~ | | | | |
| 12) | ~~4/1~~ | | | | |

§ § - Please Note: Method Quantification Limits (MQLs) as specified in EPA SW-846 (3rd Edition) are required - § §

| SIGNATURE and FIRM | INCLUSIVE DATES | COMMENTS |
|---|---|---|
| [signature] ~~4/16/93~~ DEPAUL | 4/12/93 4/16/93 | |
| Lesley Jankowsky GLA | 4/16/93 1655 | |
| | | |

746-739 747-745 748-719

# APPENDIX D

# SUMMARY OF ANALYTICAL RESULTS

# GROUNDWATER MONITORING PROGRAM

## B-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER ($\mu g/L$)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-1 | 07/30/92 | <500 | 52,000 | <500 | <1,000 | <500 | <500 |
| | 07/25/91 | 69 | <100 | 3,300 | <100 | 31 | <100 |
| | 01/24/91 | 84 | 8,700 | <250 | <250 | <250 | <250 |
| | 07/13/90 | 222 | 21,400 | 6,151 | 115 | <5 | 5.90 |
| | 02/16/90 | 100 | 10,000 | 6,100 | <100 | <100 | <100 |
| | 05/08/89 | 2,150 | 440,000 | <1,000 | <1,000 | <1,000 | <1,000 |
| | 03/09/89 | 3,500 | 103,000 | <100 | <100 | <100 | <100 |
| | 09/29/88 | <10,000 | 680,000 | <10,000 | <10,000 | <10,000 | <10,000 |
| MW-2 | 04/14/93 | <0.50 | 0.89 | 1.8 | <1.0 | <0.50 | <0.50 |
| | 01/22/93 | <2.0 | 39 | 2.1 | <4.0 | <2.0 | <2.0 |
| | 10/21/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | 1.4 | 21.55 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/15/92 | 0.3 | 1.7 | <1.0 | <1.8 | <0.3 | <0.2 |
| | 01/13/92 | <0.3 | 2.8 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | 6.76 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 09/29/88 | <1 | 2 | <1 | <1 | <1 | <1 |
| MW-3 | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | 1.94 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 09/29/88 | <1 | 3 | 1 | <1 | <1 | <1 |
| MW-4B | 04/14/93 | <5.0 | 41 | 200 | <10 | <5.0 | <5.0 |
| | 01/21/93 | <2.5 | 71 | 220 | <5.0 | <2.5 | <2.5 |
| | 10/21/92 | <2.5 | 88 | 2,004 | 130 | <2.5 | <2.5 |
| | 07/30/92 | <2.5 | 89 | 170 | <5.0 | <2.5 | <2.5 |
| | 04/15/92 | <0.3 | 63 | 180 | <1.8 | <0.3 | <0.2 |
| | 01/10/92 | <0.3 | 90 | 380 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <5 | 65 | 310 | <5 | <5 | <5 |
| | 07/25/91 | <5 | 140 | 470 | <5 | <5 | <5 |
| | 04/25/91 | <5 | 190 | 970 | <5 | 5 | <5 |
| | 01/24/91 | 2 | <5 | 10 | 100 | <5 | 240 |
| | 07/13/90 | 1.43 | 252 | 538 | 14.4 | <1 | <1 |
| | 05/08/89 | <1 | <1 | 32 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-5B | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/23/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |

## B-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER ($\mu$g/L)
## (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-6B | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | 2 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-7B | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-8 | 04/14/93 | <50 | 600 | 1,300 | <100 | <50 | <50 |
| | 01/22/93 | <50 | 240 | 1,200 | <100 | <50 | <50 |
| | 01/22/93 | <25 | 410 | 1,100 | <50 | <25 | <25 |
| | 10/21/92 | <50 | 3,700 | 240 | <100 | <50 | <50 |
| | 07/30/92 | <5.0 | 1,300 | 87 | <10 | <5.0 | <5.0 |
| | 04/15/92 | 0.45 | 1,700 | 59 | <1.8 | <0.3 | <0.2 |
| | 01/08/92 | <0.3 | 400 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 190 | 6 | <1 | <1 | <1 |
| | 01/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 02/16/90 | <1 | 8 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | 21 | <1 | <1 | <1 | <1 |
| | 04/14/89 | <1 | 4 | <1 | <1 | <1 | <1 |
| MW-9 | 04/14/93 | <50 | 420 | 1,300 | <100 | <50 | <50 |
| | 01/22/93 | <50 | 110 | 2,400 | <100 | <50 | <50 |
| | 10/21/92 | <50 | 2,900 | 1,700 | <100 | <50 | <50 |
| | 07/30/92 | <500 | 6,700 | <500 | <1,000 | <500 | <500 |
| | 04/16/92 | 2.4 | 6,600 | 110 | <1.8 | <0.3 | <0.20 |
| | 01/08/92 | <0.3 | 3,700 | 110 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <25 | 620 | <25 | <25 | <25 | <25 |
| | 07/25/91 | <25 | 620 | <25 | <25 | <25 | <25 |
| | 04/25/91 | <1 | 1,600 | 26 | <1 | <1 | <1 |
| | 01/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 02/16/90 | <1 | 1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | 4 | <1 | <1 | <1 | <1 |
| | 04/14/89 | <1 | 4 | <1 | <1 | <1 | <1 |
| MW-10 | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 02/16/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/14/89 | <1 | 2 | <1 | <1 | <1 | <1 |

## B-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER ($\mu$g/L)
## (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-11 | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 02/16/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/14/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-12 | 04/14/93 | <10 | 300 | 15 | <20 | <10 | <10 |
| | 01/22/93 | <10 | 300 | 18 | <20 | <10 | <10 |
| | 10/21/92 | <2.5 | 1,300 | <2.5 | <5.0 | <2.5 | <2.5 |
| | 07/30/92 | <2.5 | 870 | 8.6 | <5.0 | <2.5 | <2.5 |
| | 04/15/92 | <0.30 | 160 | 11 | <4.0 | <0.3 | <0.20 |
| | 01/08/92 | <0.3 | 340 | 25 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <25 | 570 | <25 | <25 | <25 | <25 |
| | 07/25/91 | <25 | 1,500 | <25 | <25 | <25 | <25 |
| | 04/25/91 | 4 | 770 | 38 | <5 | 2 | <5 |
| | 01/25/91 | <5 | 330 | <5 | <5 | 2 | <5 |
| | 07/13/90 | 1.40 | 566 | 39.1 | <1 | 1.84 | <1 |
| | 02/16/90 | <1 | 1,400 | 30 | <1 | <1 | <1 |
| MW-13 | 04/14/93 | <10 | 240 | <10 | <20 | <10 | <10 |
| | 01/22/93 | <5.0 | 230 | <5.0 | <10 | <5.0 | <5.0 |
| | 10/21/92 | <5.0 | 190 | <5.0 | <10 | <5.0 | <5.0 |
| | 07/30/92 | <50 | 2,100 | <50 | <100 | <50 | <50 |
| | 04/17/92 | 0.52 | 200 | 8.4 | <1.8 | 1.0 | <0.20 |
| | 01/08/92 | <0.3 | 19,000 | 130 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 200 | 27 | <1 | <1 | <1 |
| | 01/25/91 | <1 | 74 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | 1.70 | 26.4 | 7.21 | <1 | <1 |
| | 02/16/90 | <1 | 180 | 2 | <1 | <1 | <1 |
| MW-15B | 04/13/93 | <0.50 | <0.50 | <0.50 | <1.0 | 1.0 | <0.50 |
| | 01/21/93 | <0.50 | 7.0 | 0.67 | <1.0 | <0.50 | <0.50 |
| | 10/21/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | <0.50 | 12 | <1.0 | <0.50 | <0.50 |
| | 04/15/92 | <0.30 | <1.2 | <1.0 | <1.8 | <0.30 | <0.20 |
| | 01/10/92 | <0.30 | <1.2 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/23/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/11/90 | <1 | 5.05 | <1 | <1 | <1 | <1 |

## B-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
## (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-17B | 04/14/93 | <10 | 760 | 26 | <20 | <10 | <10 |
| | 04/15/93[1] | <25 | 760 | 31 | <50 | <25 | <25 |
| | 01/21/93 | <0.50 | 8.5 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/28/92 | <50 | 530 | <50 | <100 | <50 | <50 |
| | 07/30/92 | <5.0 | 1000 | 29 | <10 | <5.0 | <5.0 |
| | 01/10/92 | <0.3 | 980 | 58 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <10 | 710 | 30 | <10 | <10 | <10 |
| | 07/25/91 | <10 | 1,800 | 33 | <10 | <10 | <10 |
| | 04/25/91 | <25 | 600 | <25 | <25 | <25 | <25 |
| | 01/24/91 | <25 | 900 | <25 | <25 | <25 | <25 |
| | 07/11/90 | 25.1 | 12,600 | 6.06 | <1 | <1 | <1 |
| MW-18B | 04/14/93 | <50 | 690 | 69 | <100 | <50 | <50 |
| | 01/22/93 | <50 | 2,000 | 71 | <100 | <50 | <50 |
| | 10/21/92 | <50 | 1,700 | <50 | <100 | <50 | <50 |
| | 07/30/92 | 6.9 | 1,400 | 33 | <10 | <5.0 | <5.0 |
| | 07/30/92 | <20 | 1,100 | <20 | <40 | <10 | <10 |
| | 04/16/92 | 4.5 | 680 | 33 | <4.0 | <0.30 | <0.20 |
| | 01/09/92 | 15 | 1,300 | 88 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | 190 | 5,900 | <100 | <100 | <100 | <100 |
| | 07/25/91 | <100 | 2,000 | <100 | <100 | <100 | <100 |
| | 04/25/91 | <100 | 5,700 | <100 | <100 | <100 | <100 |
| | 01/25/91 | <100 | 5,000 | <100 | <100 | <100 | <100 |
| | 07/11/90 | 226 | 48,500 | <1 | <1 | <1 | <1 |
| MW-18B1 | 04/14/93 | <50 | 1,400 | <50 | <100 | <50 | <50 |
| | 01/22/93 | <250 | 6,900 | <250 | <500 | <250 | <250 |
| | 10/21/92 | <500 | 6,400 | <500 | <1,000 | <500 | <500 |
| | 07/30/92 | <500 | 7,300 | <500 | <1,000 | <500 | <500 |
| | 04/16/92 | 56 | 3,400 | 62 | <1.8 | <0.3 | <0.2 |
| | 01/09/92 | 53 | 5,500 | 100 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | 100 | 2,000 | 140 | <10 | <10 | <10 |
| MW-18B2 | 04/14/93 | <50 | 1,600 | <50 | <100 | <50 | <50 |
| | 01/22/93 | <50 | 1,100 | <50 | <100 | <50 | <50 |
| | 10/21/92 | <500 | 20,000 | <500 | <1,000 | <500 | <500 |
| | 07/30/92 | <0.50 | 17,000 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/16/92 | 9.7 | 480 | <1 | <4.0 | <0.3 | <0.2 |
| | 01/10/92 | 51 | 2,600 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | 50 | 1,600 | <10 | <10 | <10 | <10 |

[1] Duplicate

## B-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER ($\mu$g/L)
## (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-20B | 04/13/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/22/93 | <0.50 | 4.4 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/13/92 | <0.3 | <1.2 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-21B | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

## A-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-4A | 04/13/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/21/93 | <0.50 | 1.3 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | 12 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/15/92 | <0.3 | <1.2 | <1 | <1.8 | 1.2 | <0.2 |
| | 01/10/92 | <0.3 | <1.2 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 9 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | 1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | 5.79 | 1.70 | <1 | <1 | <1 |
| | 04/09/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 03/06/90 | 4 | 260 | 2 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-5A | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/23/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | 3.49 | <1 | <1 | <1 | <1 |
| | 04/09/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | 2 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-6A | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/09/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-7A | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/09/90 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 05/08/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/11/89 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-14A | 04/15/93 | <500 | 4,500 | <500 | <1,000 | <500 | <500 |
| | 01/21/93 | <500 | 10,000 | <500 | <1,000 | <500 | <500 |
| | 10/22/92 | <500 | 32,000 | <500 | <1,000 | <500 | <500 |
| | 07/30/92 | <500 | 20,000 | 1,100 | <1,000 | 560 | <500 |
| | 04/17/92 | 290 | 25,000 | 200 | <1.8 | <0.30 | <0.20 |
| | 01/13/92 | 1,900 | 160,000 | 120 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | 370 | 4,800 | 50 | <25 | <25 | <25 |
| | 07/25/91 | 160 | 15,000 | 64 | <25 | <25 | <25 |
| | 04/25/91 | <100 | 1,200 | <100 | <100 | <100 | <100 |
| | 01/24/91 | <25 | 7,400 | <25 | <25 | <25 | <25 |
| | 07/11/90 | 133 | 22,000 | <1 | <1 | <1 | <1 |

# A-ZONE MONITORING WELLS
# CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
# (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-15A | 04/13/93 | <5.0 | 74 | 8.5 | <10 | <5.0 | <5.0 |
| | 04/15/93[1] | <5.0 | 85 | 11 | <10 | <5.0 | <5.0 |
| | 01/21/93 | <0.50 | 14 | 9.0 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <0.50 | <1.0 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | 3.5 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/20/92 | <0.3 | <0.90 | <1 | <1.8 | <0.30 | <0.20 |
| | 01/10/92 | <0.3 | 22 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 1 | <1 | <1 | <1 | <1 |
| | 01/23/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/11/90 | <1 | 5.39 | <1 | <1 | <1 | <1 |
| MW-16A | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/13/90 | <1 | 18.4 | <1 | <1 | <1 | <1 |
| MW-17A | 04/13/93 | <0.50 | 1.0 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/21/93 | <0.50 | 6.4 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/28/92 | <0.50 | 0.66 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/92 | <0.50 | 1.9 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/10/92 | <0.3 | <1.2 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | 1 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | 1 | <1 | <1 | <1 | <1 |
| MW-18A | 04/15/93 | <500 | 7,700 | 640 | <1,000 | <500 | <500 |
| | 01/22/93 | <500 | 5,500 | <500 | <1,000 | <500 | <500 |
| | 10/22/92 | <500 | 6,000 | <500 | <1,000 | <500 | <500 |
| | 07/30/92 | <500 | 14,000 | <500 | <1,000 | <500 | <500 |
| | 04/16/92 | 68 | 6,200 | <1.0 | <1.8 | <0.30 | <0.2 |
| | 01/10/92 | 40 | 4,800 | 180 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | 200 | 26,000 | 2,000 | <200 | <200 | <200 |
| | 07/25/91 | <200 | 15,000 | 470 | <200 | <200 | <200 |
| | 04/25/91 | 50 | 12,000 | 1,300 | <100 | <100 | <100 |
| | 01/25/91 | <200 | 8,000 | <200 | <200 | <200 | <200 |

[1] Duplicate

## A-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER ($\mu$g/L)
## (Cont.)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-19A | 04/15/93 | <5.0 | 100 | 7.2 | <10 | <5.0 | <5.0 |
| | 01/22/93 | <5.0 | 130 | 29 | <10 | <5.0 | <5.0 |
| | 10/22/92 | <2.5 | 240 | <2.5 | <5.0 | <2.5 | <2.5 |
| | 07/30/92 | <2.5 | 260 | 7.5 | <5.0 | <2.5 | <2.5 |
| | 04/15/92 | <0.30 | 120 | 12 | <4.0 | 0.55 | <0.2 |
| | 01/08/92 | <0.3 | 340 | 14 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 180 | 4 | <1 | <1 | <1 |
| | 01/25/91 | <2 | 100 | <2 | <2 | <2 | <2 |
| | 07/11/90 | <1 | 292 | <1 | <1 | <1 | <1 |
| MW-20A | 04/13/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/22/93 | <5.0 | 38 | <5.0 | <10 | <5.0 | <5.0 |
| | 10/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/28/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/13/92 | <0.3 | <1.2 | <1.0 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 5 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | 7 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-22A | 04/13/93 | <0.50 | <0.50 | 0.59 | <1.0 | <0.50 | <0.50 |
| | 01/22/93 | <0.50 | 0.72 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <5.0 | 15 | <5.0 | <10 | <5.0 | <5.0 |
| | 07/28/92 | <0.50 | 8.2 | 4.3 | <1.0 | <0.50 | <0.50 |
| | 04/15/92 | <0.30 | <1.2 | <1.0 | <1.8 | <0.3 | <0.2 |
| | 01/08/92 | <0.3 | <1.2 | <1.0 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | 6 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | 2 | <1 | <1 | <1 | <1 |
| | 01/25/91 | <1 | 2 | <1 | <1 | <1 | <1 |
| MW-24A | 07/29/92 | <0.50 | 0.79 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/21/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-25A | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/21/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-26A | 07/29/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/21/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-27A | 07/29/92 | <0.50 | 1.4 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/21/91 | <1 | <1 | <1 | <1 | <1 | <1 |

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

## C-ZONE MONITORING WELLS
## CHEMICAL ANALYSIS OF GROUNDWATER ($\mu$g/L)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-14C | 04/14/93 | <50 | 970 | 170 | <100 | <50 | <50 |
| | 01/21/93 | <50 | 710 | 190 | <100 | <50 | <50 |
| | 10/22/92 | <50 | 1,800 | 120 | <100 | <50 | <50 |
| | 07/30/92 | <5.0 | 1,100 | 230 | <10 | <5.0 | <5.0 |
| | 07/30/92 | <500 | 670 | <500 | <1,000 | <500 | <500 |
| | 04/16/92 | 4.4 | 1,300 | 130 | <4.0 | <0.3 | <0.2 |
| | 01/13/92 | 3.0 | 510 | 140 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <25 | 760 | <25 | <25 | <25 | <25 |
| | 07/25/91 | <25 | 620 | <25 | <25 | <25 | <25 |
| | 04/25/91 | 2 | 880 | 210 | <1 | <1 | <1 |
| | 03/26/91 | <1 | 3 | <1 | <1 | <1 | <1 |
| | 01/24/91 | 8 | 1,130 | <25 | <25 | <25 | <25 |
| MW-18C | 04/14/93 | <0.50 | 9,000 | 460 | <1.0 | 60 | <0.50 |
| | 01/22/93 | <50 | 3,100 | 64 | <100 | <50 | <50 |
| | 10/22/92 | <50 | 3,400 | <50 | <100 | <50 | <50 |
| | 07/30/92 | <500 | 20,000 | <500 | <1,000 | <500 | <500 |
| | 04/17/92 | 2.2 | 1,900 | 36 | <1.8 | <0.3 | <0.2 |
| | 01/10/92 | 46 | 17,000 | 140 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <5 | 940 | 84 | <5 | <5 | <5 |
| | 01/25/91 | <2 | 127 | <2 | <2 | <2 | <2 |
| MW-23C | 04/13/93 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/21/93 | <0.50 | 0.82 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/21/93 | <0.50 | 0.76 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <0.50 | 3.8 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | 1.1 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/15/92 | 0.46 | <1.2 | <1.0 | <1.8 | <0.3 | <0.20 |
| | 01/13/92 | <0.3 | <1.2 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 01/24/91 | <1 | <1 | <1 | <1 | <1 | <1 |

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

# D-ZONE MONITORING WELLS
# CHEMICAL ANALYSIS OF GROUNDWATER ($\mu g/L$)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-2D | 07/29/92 | 0.92 | 2.8 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/21/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-5D | 04/14/93 | <0.50 | 2.4 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/21/93 | <5.0 | 42 | <5.0 | <10 | <5.0 | <5.0 |
| | 10/22/92 | <5.0 | 11 | <5.0 | <10 | <5.0 | <5.0 |
| | 07/29/92 | 0.97 | 27 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/21/91 | <1 | <1 | <1 | <1 | <1 | <1 |
| MW-14D | 04/13/93 | <0.50 | 0.60 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/21/93 | <0.50 | 1.1 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 07/30/92 | <0.50 | <0.50 | 27 | <1.0 | <0.50 | <0.50 |
| | 04/15/92 | <0.3 | 4.3 | <1 | <1.8 | <0.30 | <0.2 |
| | 01/13/92 | <0.3 | 4.2 | <1 | <1.8 | <0.3 | <0.2 |
| | 01/13/92 | <0.3 | <1.3 | <1 | <1.8 | <0.3 | <0.2 |
| | 10/08/91 | <1 | 3 | <1 | <1 | <1 | <1 |
| | 07/25/91 | <1 | 54 | <1 | <1 | <1 | <1 |
| | 04/25/91 | <1 | 3 | <1 | <1 | <1 | <1 |
| MW-18D | 04/13/93 | <5.0 | 57 | <5.0 | <10 | <5.0 | <5.0 |
| | 04/15/93[1] | <5.0 | 46 | <5.0 | <10 | <5.0 | <5.0 |
| | 01/22/93 | <5.0 | 54 | <5.0 | <10 | <5.0 | <5.0 |
| | 10/22/92 | <5.0 | 81 | <5.0 | <10 | <5.0 | <5.0 |
| | 08/05/92 | <5.0 | 410 | <5.0 | <10 | <5.0 | <5.0 |
| | 04/16/92 | 4.1 | 300 | 1.2 | <4.0 | <0.3 | <0.2 |
| | 02/20/92 | <2 | 590 | <1 | <1.8 | <0.3 | <0.2 |
| | 02/20/92 | <2 | 540 | <1 | <1.8 | <0.3 | <0.2 |
| MW-28D | 04/13/93 | <0.50 | 0.54 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/22/93 | <0.50 | 13 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 01/22/93 | <0.50 | 10 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <5.0 | 31 | <5.0 | <10 | <5.0 | <5.0 |
| | 10/22/92 | 0.98 | 35 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 08/26/92 | <0.5 | <0.5 | 1.0 | <1.0 | <0.5 | <0.5 |
| MW-29D | 04/13/93 | <0.50 | <0.50 | <0.50 | <1.0 | 0.67 | <0.50 |
| | 01/22/93 | <0.50 | 4.5 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 10/22/92 | <0.50 | 2.5 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 08/26/92 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 |

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

[1] Duplicate

E-ZONE MONITORING WELL
CHEMICAL ANALYSIS OF GROUNDWATER ($\mu$g/L)

| SAMPLE LOCATION | SAMPLE DATE | PARAMETERS | | | | | |
|---|---|---|---|---|---|---|---|
| | | PCE | TCE | DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| MW-18E | 04/15/93 | <1.0 | 9.0 | <1.0 | <2.0 | <1.0 | <1.0 |

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

# APPENDIX E

# GROUNDWATER ELEVATIONS

SUMMARY OF GROUNDWATER ELEVATIONS
(May 21, 1993)

| MONITORING WELL | PARAMETERS Based on Mean Sea Level (ft) | | |
|---|---|---|---|
| | Elevation of Datum | Depth to Groundwater | Elevation of Groundwater |
| MW-1 | 661.15 | 20.65 | 640.50 |
| MW-2 | 661.32 | 18.62 | 642.70 |
| MW-2D | 660.53 | 49.54 | 610.99 |
| MW-3 | 661.43 | 17.50 | 643.93 |
| MW-4A | 660.55 | 44.25 | 616.30 |
| MW-4B | 660.68 | 19.21 | 641.47 |
| MW-5A | 657.40 | 21.83 | 635.57 |
| MW-5B | 657.11 | 16.64 | 640.47 |
| MW-5D | 657.53 | 46.32 | 611.21 |
| MW-6A | 660.71 | DRY | DRY |
| MW-6B | 660.82 | 16.64 | 644.18 |
| MW-7A | 658.01 | 29.97 | 628.04 |
| MW-7B | 657.99 | 19.31 | 638.68 |
| MW-8 | 658.41 | 19.55 | 638.86 |
| MW-9 | 658.31 | 19.78 | 638.53 |
| MW-10 | 658.26 | 19.38 | 638.88 |
| MW-11 | 658.16 | 19.52 | 638.64 |
| MW-12 | 658.40 | 18.88 | 639.52 |
| MW-13 | 658.42 | 19.36 | 639.06 |
| MW-14A | 657.18 | 41.11 | 616.07 |
| MW-14C | 654.73 | 40.72 | 614.01 |
| MW-14D | 653.58 | 39.98 | 613.60 |
| MW-15A | 656.87 | 23.10 | 633.77 |
| MW-15B | 656.89 | 15.41 | 641.48 |

Continued on following page

SUMMARY OF GROUNDWATER ELEVATIONS
(May 21, 1993)

| MONITORING WELL | PARAMETERS Based on Mean Sea Level (ft) | | |
|---|---|---|---|
| | Elevation of Datum | Depth to Groundwater | Elevation of Groundwater |
| MW-16A | 660.90 | 44.06 | 616.84 |
| MW-17A | 658.10 | 40.00 | 618.10 |
| MW-17B | 657.54 | 17.13 | 640.41 |
| MW-18A | 657.65 | 45.62 | 612.03 |
| MW-18B | 657.33 | 17.95 | 639.38 |
| MW-18B1 | 657.10 | 18.18 | 638.92 |
| MW-18B2 | 657.51 | 18.64 | 638.87 |
| MW-18C[1] | 657.53 | 67.00 | 590.53 |
| MW-18D[2] | 657.09 | 90.00 | 567.09 |
| MW-18E | 657.39 | 52.43 | 604.96 |
| MW-19A | 658.20 | 34.28 | 623.92 |
| MW-20A | 657.41 | 36.48 | 620.93 |
| MW-20B | 657.32 | 16.01 | 641.31 |
| MW-21B | 657.94 | 27.26 | 630.68 |
| MW-22A | 657.78 | 23.35 | 634.43 |
| MW-23C | 657.25 | 40.40 | 616.85 |
| MW-24A | 657.41 | 20.86 | 636.55 |
| MW-25A | 656.54 | 19.98 | 636.56 |
| MW-26A | 656.67 | 21.48 | 635.19 |
| MW-27A | 661.09 | 41.18 | 619.91 |
| MW-28D | 657.67 | 50.08 | 607.59 |
| MW-29D | 657.83 | 44.47 | 613.36 |

[1]Currently operating as an extraction well. Groudwater depth and elevation are assumed based on screened depth of MW-18C.

[2]Currently operating as an extraction well. Groudwater depth and elevation are assumed based on screened depth of MW-18D.

# APPENDIX F

# GROUNDWATER RECOVERY WELL CONSTRUCTION DATA

GROUNDWATER RECOVERY (PURGE) WELLS

| Well Number | Date Installed | Date Operation Begun | Designation | Well Diameter (inches) | Well Depth (ft bgs) | Screened Interval (ft bgs) |
|---|---|---|---|---|---|---|
| PW-1 | 8/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-2 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-3 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-4 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-5 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-6 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-7 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-8 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-9 | 9/89 | 2/91 | B | 4 | 30 | 15-30 |
| PW-10 | 12/90 | 1/91 | A,B | 4 | 85 | 10-30, 35-65 |
| PW-11 | 12/90 | 1/91 | A,B | 4 | 85 | 10-30, 35-65 |
| PW-12 | 12/90 | 1/91 | A,B | 4 | 85 | 10-30 35-60 |
| PW-13 | 7/91 | 9/91 | A,B,C | 4 | 85.58 | 5-30, 35-55, 60-75 |
| PW-14 | 7/91 | 9/91 | A,B,C | 4 | 85.58 | 5-30, 35-55, 60-75 |
| PW-15 | 6/91 | 9/91 | A,B,C | 4 | 85.58 | 5-30, 35-55, 60-75 |
| PW-16 | 6/91 | 9/91 | A,B,C | 4 | 85.58 | 5-30, 35-55, 60-75 |
| PW-17 | 7/91 | 9/91 | A,B,C | 4 | 73 | 3-28, 33-48, 53-63 |
| PW-18 | 7/91 | 9/91 | A,B,C | 4 | 73 | 3-28, 33-48, 53-63 |
| PW-19 | 6/91 | 9/91 | B | 4 | 35.25 | 5.25-35.25 |
| PW-20 | 6/91 | 9/91 | B | 4 | 35.25 | 5-35.25 |
| PW-21 | 7/91 | 9/91 | B | 4 | 25 | 5-25 |
| MW-18D | 1/92 | 4/92 | D | 2 | 96 | 91-96 |
| MW-18C | 11/90 | 5/93 | C | 2 | 74 | 68-73 |

# APPENDIX G

# NPDES SAMPLING RESULTS

# (EPA SW-846 Method 8010)

## SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

| Sample Location | Sample Date | Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | PCE | TCE | 1,1-DCE | cis-1,2-DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| Influent | 12/28/90 | <25 | 0 | <25 | * | <25 | <25 | <25 |
| | 01/04/91 | <5 | 460 | 16 | * | <5 | <5 | <5 |
| | 01/09/91 | <5 | 340 | <5 | * | <5 | <5 | <5 |
| | 01/18/91 | <1 | 300 | <1 | * | <1 | <1 | <1 |
| | 01/23/91 | 3 | 330 | <5 | * | <5 | <5 | <5 |
| | 02/01/91 | <5 | 430 | <5 | * | <5 | <5 | <5 |
| | 02/06/91 | <10 | 1,100 | <10 | * | <10 | <10 | <10 |
| | 02/21/91 | 40 | 1,400 | <10 | * | <10 | 8 | <10 |
| | 03/06/91 | <5 | 110 | <5 | <5 | <5 | <5 | <5 |
| | 04/02/91 | <5 | 680 | <5 | 19 | <5 | <5 | <5 |
| | 06/04/91 | <5 | 370 | <5 | <5 | <5 | <5 | <5 |
| | 07/01/91 | <1 | 150 | <1 | <1 | <1 | <1 | <1 |
| | 07/30/91 | <10 | 5,400 | <10 | 32 | <10 | <10 | <10 |
| | 09/03/91 | <3 | 75 | <10 | <10 | <10 | <3 | <10 |
| | 10/24/91 | <0.3 | 8,600 | <100 | <100 | <100 | <0.3 | <100 |
| | 11/06/91 | <0.3 | 7,100 | <100 | 150 | <100 | <0.3 | <100 |
| | 12/03/91 | <30 | 15,000 | <100 | 320 | <100 | <100 | <100 |
| | 01/07/92 | 230 | 9,300 | <100 | 290 | <100 | <30 | <100 |
| | 02/05/92 | 480 | 23,000 | <250 | <250 | <250 | <75 | <250 |
| | 03/03/92 | 140 | 19,000 | <250 | <250 | <250 | <75 | <250 |
| | 04/10/92 | 480 | 28,000 | <250 | 350 | <250 | <250 | <75 |
| | 05/06/92 | 110 | 1,100 | <10 | <10 | <10 | 7 | <10 |
| | 06/04/92 | <3 | 190 | <10 | 20 | <10 | 10 | <10 |
| | 06/11/92 | 230 | 410 | 27 | 340 | <10 | <3 | <10 |
| | 06/25/92 | 62 | 1,100 | <10 | 330 | <10 | <3 | <10 |
| | 07/02/92 | <50 | 9,800 | <50 | 40 | <100 | <50 | <50 |
| | 08/05/92 | <5,000 | 150,000 | <5,000 | <5,000 | <10,000 | <5,000 | <5,000 |
| | 09/03/92 | <5 | 2,200 | <5 | <5 | <10 | <5 | <5 |
| | 10/08/92 | <50 | 19,000 | <50 | 370 | <100 | <50 | <50 |
| | 11/30/92 | <500 | 9,000 | <500 | <500 | <1,000 | <500 | <500 |
| | 12/08/92 | <500 | 5,900 | <500 | <500 | <1,000 | <500 | <500 |
| | 01/12/93 | <1,000 | 20,000 | <1,000 | <1,000 | <2,000 | <1,000 | <1,000 |
| | 02/04/93 | <1,000 | 12,000 | <1,000 | <1,000 | <2,000 | <1,000 | <1,000 |
| | 03/04/93 | <250 | 5,100 | <250 | <250 | <500 | <250 | <250 |
| | 04/01/93 | <500 | 8,400 | <500 | <500 | <1,000 | <500 | <500 |
| | 05/06/93 | <500 | 2,300 | <500 | <500 | <1,000 | <500 | <500 |
| | 06/01/93 | <500 | 13,000 | <500 | <500 | <1,000 | <500 | <500 |
| | 07/02/93 | <500 | 16,000 | <500 | <500 | <1,000 | <500 | <500 |

*Results not included in laboratory reports.

| | | |
|---|---|---|
| PCE | = | Tetrachloroethylene |
| TCE | = | Trichloroethylene |
| 1,1-DCE | = | 1,1-Dichloroethylene |
| cis-1,2-DCE | = | cis-1,2-Dichloroethylene |
| VC | = | Vinyl Chloride |
| 1,1,1-TCA | = | 1,1,1-Trichloroethane |
| 1,1,2-TCA | = | 1,1,2-Trichloroethane |

## SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

| Sample Location | Sample Date | Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | PCE | TCE | 1,1-DCE | cis-1,2-DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| Between | 12/28/90 | <1 | 18 | <1 | * | <1 | <1 | <1 |
| | 01/04/91 | <1 | 26 | <1 | * | <1 | <1 | <1 |
| | 01/09/91 | <1 | 3 | <1 | * | <1 | <1 | <1 |
| | 01/18/91 | <1 | 7 | <1 | * | <1 | <1 | <1 |
| | 01/23/91 | <1 | 22 | <1 | * | <1 | <1 | <1 |
| | 02/01/91 | <1 | 12 | <1 | * | <1 | <1 | <1 |
| | 02/06/91 | <1 | 9 | <1 | * | <1 | <1 | <1 |
| | 02/21/91 | 0.3 | <1 | <1 | * | <1 | <0.3 | <1 |
| | 03/06/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/02/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 06/04/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/01/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/30/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 09/03/91 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 10/24/91 | 0.4 | 150 | <1 | 5 | <1 | <0.3 | <1 |
| | 11/06/91 | <0.3 | 85 | <1 | <1 | <1 | <0.3 | <1 |
| | 12/03/91 | <0.3 | 40 | <1 | 2 | <1 | <0.3 | <1 |
| | 01/07/92 | <1 | 1 | <1 | <1 | <1 | <1 | <1 |
| | 02/05/92 | <0.3 | 29 | <1 | <1 | <1 | 0.9 | <1 |
| | 03/03/92 | <0.3 | 4 | <1 | <1 | <1 | <0.3 | <1 |
| | 04/10/92 | 13 | 102 | <1 | 69 | <1 | <0.3 | <1 |
| | 05/06/92 | <0.3 | 3 | <1 | <1 | <1 | <0.3 | <1 |
| | 06/04/92 | <0.3 | <1 | <1 | 61 | <1 | <0.3 | <1 |
| | 06/11/92 | <0.3 | 77 | 3 | 39 | <1 | <0.3 | <1 |
| | 06/25/92 | 0.8 | 110 | <1 | 65 | <1 | <0.3 | <1 |
| | 07/02/92 | <50 | 1,600 | <50 | 93 | <100 | <50 | <50 |
| | 08/05/92 | <50 | 810 | <50 | <50 | <100 | <50 | <50 |
| | 09/03/92 | <50 | 110 | <50 | 7.0 | <100 | <50 | <50 |
| | 10/08/92 | <5.0 | 140 | <5.0 | 6.2 | <10 | <5.0 | <5.0 |
| | 11/30/92 | <10 | 31 | <10 | <10 | <20 | <10 | <10 |
| | 12/08/92 | <50 | 59 | <50 | <50 | <100 | <50 | <50 |
| | 01/12/93 | <5.0 | 79 | <5.0 | <5.0 | <10 | <5.0 | <5.0 |
| | 02/04/93 | <0.50 | 14 | <0.50 | <0.50 | 2.3 | <0.50 | <0.50 |
| | 03/04/93 | <2.5 | 25 | <2.5 | <2.5 | <5.0 | <2.5 | <2.5 |
| | 04/01/93 | <0.50 | 90 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 05/06/93 | <0.50 | 8.1 | <0.50 | 5.4 | <1.0 | <0.50 | <0.50 |
| | 06/01/93 | <5.0 | 300 | <5.0 | 7.0 | <10 | <5.0 | <5.0 |
| | 07/02/93 | <5.0 | 150 | <5.0 | 71 | <10 | <5.0 | <5.0 |

*Results not included in laboratory reports.

| | | |
|---|---|---|
| PCE | = | Tetrachloroethylene |
| TCE | = | Trichloroethylene |
| 1,1-DCE | = | 1,1-Dichloroethylene |
| cis-1,2-DCE | = | cis-1,2-Dichloroethylene |
| VC | = | Vinyl Chloride |
| 1,1,1-TCA | = | 1,1,1-Trichloroethane |
| 1,1,2-TCA | = | 1,1,2-Trichloroethane |

## SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

| Sample Location | Sample Date | Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | PCE | TCE | 1,1-DCE | cis-1,2-DCE | VC | 1,1,1-TCA | 1,1,2-TCA |
| Effluent | 12/28/90 | <1 | 5 | <1 | * | <1 | <1 | <1 |
| | 01/04/91 | 1 | 49 | <1 | * | <1 | <1 | <1 |
| | 01/09/91 | <1 | 2 | <1 | * | <1 | <1 | <1 |
| | 01/18/91 | <1 | 3 | <1 | * | <1 | <1 | <1 |
| | 01/23/91 | <1 | 8 | <1 | * | <1 | <1 | <1 |
| | 02/01/91 | <1 | 2 | <1 | * | <1 | <1 | <1 |
| | 02/06/91 | <1 | 2 | <1 | * | <1 | <1 | <1 |
| | 02/21/91 | <0.3 | <1 | <1 | * | <1 | <0.3 | <1 |
| | 03/06/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 04/02/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 06/04/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/01/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 07/30/91 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| | 09/03/91 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 10/24/91 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 11/06/91 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 12/03/91 | <0.3 | 41 | <1 | <1 | <1 | <1 | <1 |
| | 01/07/92 | <1 | 5 | <1 | <1 | <1 | <1 | <1 |
| | 02/05/92 | <0.3 | 6 | <1 | <1 | <1 | <0.3 | <1 |
| | 03/03/92 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 04/10/92 | <0.3 | 88 | <1 | <1 | <1 | <0.3 | <1 |
| | 05/06/92 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 06/04/92 | <0.3 | 3 | <1 | <1 | <1 | <0.3 | <1 |
| | 06/11/92 | <0.3 | 2 | <1 | <1 | <1 | <0.3 | <1 |
| | 06/11/92 | <0.3 | 3 | <1 | <1 | <1 | <0.3 | <1 |
| | 06/25/92 | <0.3 | 1 | 1 | 2 | <1 | <0.3 | 1 |
| | 06/25/92 | <0.3 | <1 | <1 | <1 | <1 | <0.3 | <1 |
| | 07/02/92 | <0.50 | 6.2 | <0.50 | 5.5 | <1.0 | <0.50 | <0.50 |
| | 08/05/92 | <0.50 | 43 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 09/03/92 | <1 | 12 | <0.5 | <0.5 | <1 | <0.5 | <0.5 |
| | 10/08/92 | <0.50 | 3.5 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 11/30/92 | <50 | 450 | <50 | <50 | <100 | <50 | <50 |
| | 12/08/92 | <0.50 | 170 | <0.50 | 17 | <1.0 | <0.50 | <0.50 |
| | 01/12/93 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 02/04/93 | <0.50 | 2.0 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 03/04/93 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 04/01/93 | <0.50 | 3.1 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 05/06/93 | <0.50 | 2.5 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| | 06/01/93 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 8.1 |
| | 07/02/93 | <0.50 | 12 | <0.50 | 0.57 | <1.0 | <0.50 | <0.50 |

*Results not included in laboratory reports.

PCE = Tetrachloroethylene
TCE = Trichloroethylene
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane