MADISON COUNTY LANDFILL
SUPERFUND SITE
FIVE-YEAR REMEDY REVIEW
MADISON COUNTY, FLORIDA

DARABI
AND
ASSOCIATES, INC.

ENVIRONMENTAL CONSULTANTS

730 NE Waldo Road, Bldg. A ž Gainesville, Florida 32641 ž (352) 376-6533

MADISON COUNTY LANDFILL
SUPERFUND SITE
FIVE-YEAR REMEDY REVIEW
MADISON COUNTY, FLORIDA

Submitted to:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IV
Atlanta Federal Center
South Site Management Branch
61 Forsyth Street
Atlanta, Georgia 30303-8960

Prepared By:

DARABI AND ASSOCIATES, INC.
730 NE Waldo Road, Building A
Gainesville, Florida 32641-5699

August 2000

EPA Five-Year Review Signature Cover

Key review Information

Site Identification		
Site Name: Madison County Sanitary Landfill		EPA ID: FLD981019235
Region: 4	State: FL	
Site Status		
NPL status: Final 08/30/90		
Remediation status: In process		
Multiple OU's: No		
Construction Completion date: January 1997		
PRP Lead:		Lead Agency: US EPA
Has site been put into reuse? No		
Review Status		
Who conducted the review? U.S. Environmental Protection Agency		
Author name: John Catches		
Author affiliation: Darabi and Associates, Inc. (PRP Contractor)		
Review period: Sept. 1995 to Sept. 2000		Date of inspection: August 3, 2000
Statutory Review		Review Number: 1
Triggering action event: Pre-construction Conference		
Trigger action date: September 1995		
Due date: 28-Aug-2000		

Deficiencies:

The Institutional Controls have not been fully implemented. Deed restrictions have not yet been placed on the landfill property, nor has an ordinance been written restricting the installation of water wells downgradient from the site. At the present, this does not affect the protectiveness of the remedy, because the private water wells monitored downgradient of the site do not have COC above drinking water standards and City of Madison water is available to residences downgradient of the landfill (see Section 3.0, page 3-3).
While effectively containing contaminants on site, the present groundwater recovery system may not achieve the cleanup standards on site within the established monitoring period. Methods of accelerating the cleanup of the groundwater contamination should be considered (see Section 8.0).

Recommendations and Required Actions:

The Five-Year Review states (see Section 8.0) "The issue of deed restriction is being addressed by the attorneys representing the City of Madison and Madison County. The intent is to place restrictions on the property ownership deed to disallow construction, excavation, or well installation for any purpose other than monitoring or removing contamination. The second issue will require either writing a County ordinance against permitting wells in the area downgradient of the YTA, or having the FDEP delineate the area under Chapter 62-524 of the Florida Code." The EPA, FDEP, City and County of Madison should pursue these actions within the coming year to put the necessary deed restrictions in place by Sept. 30, 2001.
The acceleration of the cleanup of groundwater contamination is also discussed in Section 8.0. The passive soil vapor monitoring and venting system will be evaluated to determine if it can be used as an active soil vapor extraction (SVE) system to more quickly remove the VOC vapors from the landfill area to lower the concentrations in the groundwater. This approach will be evaluated in the coming year and alternative methods of lowering the VOC concentrations in the groundwater on site should be considered if the SVE method proves ineffective. The next Five-Year Review is due September 1, 2005.

Protectiveness Statements:

The remedy at the OU 1 (Madison County Landfill YTA) is protective of human health and the environment. A groundwater recovery/treatment/recharge system and landfill cover system have been installed as specified in the ROD, and access to the property has been limited to authorized personnel. Conditions at the site are monitored by the City of Madison O&M crew. The groundwater monitoring program has shown that the recovery system is preventing the migration of site contaminants of concern (COCs) off site and in general most wells have decreased concentrations of COCs. The increase of degradation products in some wells may indicate the occurrence of natural attenuation.

Signature of EPA Regional Administrator or Division Director and Date

Signature — Date: 9/28/00

RICHARD D. GREEN, DIRECTOR
WASTE MGT. DIVISION

Name and Title

TABLE OF CONTENTS

1.0 INTRODUCTION 1-1

2.0 SITE CHRONOLOGY 2-1

3.0 BACKGROUND 3-1

4.0 REMEDIAL ACTION 4-1

5.0 FIVE-YEAR REVIEW FINDINGS 5-1

6.0 ASSESSMENT 6-1

7.0 DEFICIENCIES 7-1

8.0 RECOMMENDATIONS AND REQUIRED ACTIONS 8-1

9.0 NEXT REVIEW 9-1

10.0 REFERENCES 10-1

ATTACHMENTS

1 FIGURES
2 INSPECTION NOTES, CHECKLIST, AND PHOTOGRAPHS
3 CHARTS COMPARING CIS 1,2-DCE AND TCE CONCENTRATION TRENDS
4 HISTORICAL MCL TABLE
5 HISTORICAL DATA TABLE

LIST OF TABLES

Table 1 Site Chronology 2-1
Table 2 ROD Clean-up Goals (EPA 1992) 3-3
Table 3 O&M Record, 1997 Quarter 3 through 2000 Quarter 2 4-11
Table 4 Approximate Annual O&M Costs 4-11
Table 5 Changes in VOC Concentrations – Baseline, System Startup, and Current 5-4

1.0 INTRODUCTION

In accordance with Section X of the July 26, 1994, Unilateral Administrative Order (UAO) for Remedial Action at the Madison County Landfill Superfund Site, Madison, Florida, the United States Environmental Protection Agency (EPA) requested that the respondents perform an analysis and submit a report on the fifth anniversary of the Pre-Construction Conference held at the site prior to the start of the Remedial Action (RA) construction. This report (designated the Five-Year Remedy Review) is being submitted on behalf of ITT Industries (ITT)[1], the City of Madison, and Madison County, who have been identified as Potentially Responsible Parties (PRPs) by the EPA. Darabi & Associates, Inc. (D&A), who has been retained by the City of Madison and Madison County, prepared this report with the cooperation of ITT.

The Five-Year Review and this report were prepared for EPA, pursuant to OSWER Directive 9355.7-03A dated December 21, 1995. The directive suggests that EPA use PRPs to help perform required investigation and study in order to relieve budget constraints. The review was conducted according to the Work Plan submitted to the EPA on June 14, 2000. The Work Plan was implemented after notification of EPA approval in the letter from Mr. Joseph Alfano, dated June 22, 2000. The Five-Year Review consisted of reviewing the technical objectives of the initial documents (i.e., Record of Decision [ROD], UAO, and the Remedial Action Construction Report), conducting interviews with owners of potentially impacted wells, inspecting the site and groundwater remediation system, reviewing operation and maintenance (O&M) records, and reviewing the analytical data. It is anticipated that the results of the review will be used by EPA to determine whether the selected remedy for the site is still protective of human health and the environment, whether the system is functioning as designed, whether the necessary O&M of the system is being performed, and if additional assessment is necessary.

The Five-Year Review report will address the following issues:

- O&M procedures and events.
- Summary of recent technical data obtained from site monitoring and sampling.
- Explanation supporting any conclusions drawn from the data.
- Corrective measures for any deficiencies.
- Responsibility for implementation of corrective measures.
- Performance milestones as a result of corrective measures.
- Oversight authority.

Statutorily, the Five-Year Review is required pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended by the Superfund Amendments Act (SARA), Section 121(c), and part 300.430(f)(4)(ii) of the National Oil and Hazardous Substances Contingency Plan (NCP). CERCLA Section 121(c) as amended, states:

---

[1] The Modification of the Administrative Order by Consent (March 1993) was actually signed by ITT Corporation on behalf of ITT Thompson Industries. ITT Industries, Inc. (ITT) is a successor to ITT Corporation.

> If the President selects a remedial action that results in any hazardous substances, pollutants, or contaminants remaining at the site, the President shall review such remedial action no less often than each five years after the initiation of such remedial action to assure that human health and the environment are being protected by the remedial action being implemented.

The NCP part 300.430(f)(4)(ii) of the Code of Federal Regulations (CFR) states:

> If a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure, the lead agency shall review such action no less often than every five years after the initiation of the selected remedial action.

This is the first Five-Year Review for the Madison County Landfill Superfund Site. As mentioned previously, the timing for this statutory review is based on the fifth anniversary of the Pre-Construction Conference. The Pre-Construction Conference was initially scheduled for August 28, 1995. Although the Pre-Construction Conference was not held until September 5, 1995, and EPA the PRPs agreed that the supporting report for the first Five-Year Review would be submitted on August 28, 2000.

2.0 SITE CHRONOLOGY

Table 1 summarizes relevant dates in the site chronology.

Table 1 Site Chronology

Event	Date
Initial discovery of contamination	September 1984
Contamination Assessment Plan submitted to FDER (R.A. Kirkner & Associates)	August 1985
Contamination Assessment Report submitted to FDER (R.A. Kirkner & Associates)	April 1986
Site placed on the NPL	August 1988
Consent Order between EPA, ITT, the City, and the County is entered	June 1990
Remedial Investigation submitted to EPA (IT Corporation)	April 1992
Feasibility Study submitted to EPA (IT Corporation)	August 1992
Record of Decision issued by EPA	September 1992
Remedial Design starts	February 1993
Remedial Design Work Plan approved by EPA (Golder)	September 1993
Final Remedial Design submitted to EPA (Golder)	January 1995
Unilateral Administrative Order issued by EPA	February 1995
Remedial Action Work Plan approved by EPA	April 1995
RA Contractor mobilizes to site	August 1995
Pre-Construction Conference	September 1995
RA Construction started	September 1995
Prefinal Construction Inspection by EPA	November 1996
Final Construction Inspection by EPA	December 1996
RA Construction completed	January 1997
RA Construction Report submitted (Golder)	February 1997
RA Construction Report approved by EPA	April 1997
RA pump and treat system start-up date	May 1997
First Five-Year Statutory Review	August 2000

3.0 BACKGROUND

History

The Madison County Landfill is located approximately two miles northeast of the City of Madison, Florida on County Road C-591. The landfill occupies approximately 90 acres of the 133-acre parcel owned by Madison County. The County Department of Transportation (DOT), the County Recycling Center, and the County's aviation hanger and landing strip also occupy the property. Figures 1 through 4 (Attachment 1) show the location of the site, site plans, and groundwater monitoring locations.

The property was used as a landfill from 1970 to May 1992, when it was closed by order of the former Florida Department of Environmental Regulation (FDER), now the Department of Environmental Protection (FDEP). The City of Madison operated the trench and fill style landfill from 1970 to 1980, receiving domestic waste from the City and surrounding areas, and industrial waste from local industries. There was no master plan for waste placement, but the trenches were reported to be 30 feet by 50 feet and 15 to 25 feet deep. Madison County assumed operation of the landfill in 1980. The County developed a Class I high rise disposal area in the northern portion of the site that was operated until May 1992. The aerial photograph (Figure 5, Attachment 1) shows the approximate locations and types of the disposal areas.

Between 1970 and 1980, a 4.5-acre area in the southeast corner of the landfill, designated the Yard Trash Area (YTA), was primarily used for disposal of bulk debris typically associated with construction and demolition activities. According to landfill operation personnel, 55-gallon drums containing some quantity of a liquid waste were disposed of in a trash cell located in the southeast corner of the landfill within the YTA. This information led to two drum removal operations, the first in November 1984 and the second in March 1985. Approximately twenty drums were removed from the YTA during each operation (IT Corporation April 1992).

The FDER entered into a Consent Order with the City, County, and ITT (the three named PRPs) in 1986. The Consent Order required an investigation to determine the extent of impact to the groundwater near the site. Residences using well water from potentially impacted wells were connected to City water lines. EPA scored the site using the Hazardous Ranking System (HRS) in 1987, and the site was subsequently added to the National Priorities List (NPL) in 1988. In 1990, EPA entered into a Consent Order with ITT, the City of Madison, and Madison County requiring the performance of a Remedial Investigation/Feasibility Study (RI/FS). The RI report was submitted in April 1992, and the FS was submitted in August 1992. EPA issued the ROD on September 28, 1992, specifying the remedial actions that were to be implemented at the site.

Geology/Hydrogeology

The geology at the site can be described as sequences of mixed sand, clay, and silt in varying proportions, overlying marine carbonates. According to Hoenstine, et al. (1990), classic units at the site vary in thickness from approximately 40 feet to over 100 feet. These sediments are porous and permeable in some areas. The underlying limestone is highly weathered at the contact, and cavities are frequent. Two aquifer systems have been identified at the landfill, including the Floridan aquifer and a discontinuous surficial aquifer referred to as the Surficial Saturated Zone (Golder 1994). The Surficial Saturated Zone appears to coincide with the bottoms of the waste-filled trenches (IT Corporation April 1992). A semi-permeable confining unit composed of sandy silty clay and highly plastic clay separates the Surficial Saturated Zone from the underlying Floridan aquifer.

Contamination Extent and Source

The detection of halogenated volatile organic compounds (VOCs) in the soil and groundwater at the Madison County Landfill led to the initial investigation of this site. The investigation led to the conclusion that the sources were in the YTA. As previously mentioned, approximately forty drums were removed from the YTA in 1984-85 (EPA 1992). Additional drums were discovered and removed from two areas of the YTA during the RA Construction (Golder February 1997). Approximately 39 drums were removed from an area along the eastern boundary of the YTA, near the south end of the YTA's retention pond, and approximately 35 drums were removed from the northwest comer of the YTA, near monitoring well YTA-1 (Figure 6, Attachment 1).

Clean-up Goals

Clean-up goals set by the ROD for on-site groundwater are shown in Table 2. Of the chemicals listed in Table 2, trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2,DCE), tetrachloroethene (PCE), 1,1-dichloroethene (1,1-DCE), and vinyl chloride have been detected above the clean-up goals set by the ROD in the on-site monitoring wells. The highest contaminant concentrations onsite are consistently detected near the southeast comer of the YTA (monitoring well cluster IT-1).

As part of the ROD, five off-site private wells and four monitoring well clusters (with three wells at each cluster) were specified as part of the long-term groundwater monitoring system. The off-site well locations are shown on Figure 4. With the exception of one private well and one monitoring well, all of the off-site wells that are monitored have had eight (8) or more consecutive quarters of below maximum contaminant level (MCL) results. In accordance with the Performance Standards Verification Plan (PSVP) (Golder September 1994), these wells are now on an annual sampling frequency. The two wells that are still on quarterly sampling frequency have now each had three (3) consecutive quarters of below MCL results and, should this trend continue, would be eligible for annual sampling frequency in September 2001.

Institutional Controls

Land uses of the 90-acre closed landfill, including the old trench and fill area, the 4.5-acre YTA, and the Class I area, are restricted. The entire area is fenced, and access is limited to authorized personnel only. The YTA has an additional security fence, and deed restrictions are planned to restrict access in the future. Land use in the area adjacent to the landfill site is agricultural and sparsely populated rural residential. Five residences with potentially impacted wells have been offered[2] water connections from the City of Madison.

Table 2 ROD Clean-up Goals (EPA 1992)

Chemical	Clean-up Goal (µg/L)
1,1-dichloroethane	2,400***
1,1-dichloroethene	7.0*
cis-1,2-dichloroethene	70.0*
Trichloroethene	3.0**
Tetrachloroethene	3.0**
vinyl chloride	1.0**
1,1,1-trichloroethane	200.0*
1,1,2-trichloroethane	5.0*
bis(2-ethylhexyl)phthalate	4.0*
Dichlorodifluoromethane	1,400***
Trichlorofluoromethane	2,400***

Note: Federal MCL - *
Florida Primary Groundwater Standard -**
Florida Guidance Concentration -***

Note: 1. During the initial phase of the remedial design, bis (2-ethylhexyl)plthalate was discovered to be a sampling artifact, therefore, it is not included in the long-term monitoring program for the site.

2. The Florida guidance concentration (FGC) for 1,1-dichloroethane has changed from 2,400 µg/L to 70 µg/L and the FGC for trichloroflyormethane has changed from 2,400 µg/L to 2,100 µg/L.

[2] All except Mr. C. Donaldson accepted.

4.0 REMEDIAL ACTION

Remedy Selection

The Feasibility Study Report (IT Corporation August 1992) presented a detailed analysis of four potential remedial action alternatives for the Madison County Landfill Site. The alternatives considered were as follows (EPA September 1992):

Alternative 1— No Action

Alternative 3 — Institutional Actions, Groundwater Extraction, Treatment (Air Stripping and Granular Activated Carbon — GAC), and Reinjection

Alternative 6 — Institutional Actions, Cap the Entire Site, Groundwater Extraction, Treatment (Air Stripping and Granular Activated Carbon — GAC), and Reinjection

Alternative 7 — Institutional Actions, Cap YTA only, Groundwater Extraction, Treatment (Air Stripping and Granular Activated Carbon — GAC), and Reinjection

The Record of Decision was signed September 28, 1992, and the selected remedy in the ROD was Alternative 7. Additional details of Alternative 7 were as follows:

- Installation of a clay/soil cap over the YTA.
- Contingent installation of a passive gas collection and control system.
- Construction of stormwater control facilities such as dikes, impoundments, and drainage ditches.
- Construction of a groundwater extraction well system.
- Installation of a groundwater treatment system including an air stripper and two GAC columns.
- Installation of reinjection well(s) into the Floridan aquifer if a permit is obtainable.
- Access restrictions in the form of fences and signs around the landfill.
- Restrictions on future use of the Site to prevent construction of water supply wells and construction onsite that would require excavation.
- Land use ordinances or other measures restricting construction of off-site water supply wells in the downgradient flow path from the YTA.

- Groundwater monitoring that will include the installation of two additional monitoring well clusters.

Remedy Implementation

The objectives of the RA are to achieve federal and state MCLs (Site clean-up goals) and to be protective of the environment and human health. The ROD designating the selected remedy to accomplish this goal was signed by EPA on September 28, 1992. A Unilateral Administrative Order for Remedial Action was issued in February 1995 directing the Respondents (PRPs) to implement the Remedial Design for Operable Unit No. 1 (OU1) selected and described in the ROD by performing Remedial Action, Operation and Maintenance, and Performance Monitoring.

The Remedial Design was performed by Golder Associates, on behalf of ITT between February 1993 and April 1995. The RA Work Plan was approved by EPA on April 13, 1995, and Handex of Florida, Inc. (Handex), was selected as the RA Construction Contractor in July 1995. In September 1995, Handex began construction of the RA system.

Construction of the Remedial System is described in detail in the Remedial Action Construction Report (Golder, February 1997). The following is an outline of the major components of construction, with excerpts from the RA Construction Report:

1. Cover System

   a) Site Preparation

      - All existing trees and large vegetation within the YTA closure area were cleared and grubbed.

      - Cleared vegetation was burned on site rather than shredded, as originally specified.

      - Burning took place north of the YTA.

      - No landfill waste was burned.

      - A baseline topographic survey was performed.

   b) Minor waste excavation

      - Excavation of construction and demolition (C&D) waste to three feet below final grade in the southern portion of the YTA was necessary to accommodate the barrier layer and the vegetative layer.

      - Cut material was used to fill the northern portion of the YTA.

- Original estimate for excavation was 3,000 cubic yards, actual was 5,831 cubic yards.

- Excavation was performed using a bulldozer, a front-end loader, a large trackhoe, and off-road haul trucks.

- Adjustments were made by the contractor to match design grades before proceeding with general fill.

c) Pond waste excavation

- Waste excavation was also required along the eastern section of the YTA to construct the stormwater retention pond.

- Buried drums were encountered at the south end of the pond area (see discussion below).

- A total of 985 cubic yards of material (soil and waste) was excavated from the pond area.

- Pond excavation was completed on October 30, 1995.

d) Southeast drum removal (pond area)

- Drums were discovered while digging test pits for pond excavation.

- Drums were buried 1 to 2 feet below grade.

- Drums were rusted and a visible liquid was observed in two drums with partially missing lids.

- EPA was notified on October 5, 1995.

- Liquids found in drums were sampled and analyzed, using EPA Methods 8240 and 8270 for VOCs and SVOCs.

- VOCs including TCE (780 and 900 ppm), cis/trans-1,2-DCE (3.2 ppm), toluene (6.7 and 10 ppm), xylenes (3 and 5.1 ppm) and SVOCs phenol (12 and 15 ppm), methyl alcohol (9.1 and 16 ppm), benzoic acid (8.7 and 18 ppm), and 2-methylnapthalene (3.8 ppm) were detected.

- Free liquids were transferred into new drums, recoverable drums were overpacked.

- Drum removal activities began on October 17, 1995 and were completed on October 20, 1995.

- Approximately 39 drums were removed.

- The drum excavation was backfilled with filter sand, and perforated PVC piping was installed for possible future use as a vapor extraction system. A geosynthetic clay liner (GCL) material was installed over the entire drum removal area.

- Drum remnants were disposed of in the cuttings disposal area (located within the limits of the YTA).

e) Northwest drum removal

- Partially filled drums similar to those found during the pond excavation were discovered in the northwest corner of the YTA (January 1996).

- Drum contents were transferred to new steel drums.

- The drum excavation area was backfilled with filter sand, and perforated PVC piping was installed for future use as a vapor extraction system. A GCL was installed over the entire drum removal area.

- Composite samples of liquids and solids/sludges recovered from both drum removal areas were analyzed for full TCLP by Savannah Laboratories, and the results were forwarded to Chemical Waste Management (CWM)(selected as the RCRA disposal/treatment firm) and to EPA.

- Following their review, CWM shipped drums from both removal sites to Emelle, Alabama, for bulking, and then transferred the bulked contents to Port Arthur, Texas, for incineration.

f) Fill placement and cover construction

- The three-layer cap included general fill, barrier layer, and vegetative layer.

- **S** General fill consisted of 30,105 cubic yards of native soil to support clay layer.

- **S** A clay barrier layer 18 inches thick with a mean permeability of 2.8×10^{-7} cm/sec was placed over the general fill, covering all waste filled areas. A total of 12,930 cubic yards was used for the barrier layer.

- **S** An 18-inch thick vegetative layer consisting of 14,335 cubic yards of locally obtained, certified clean soil was placed over the barrier layer.

- **S** Following completion of grading, erosion control measures were deployed, and the YTA was hydroseeded. Bahia sod was placed on all slopes of 2H:1V or steeper except where riprap was specified.

2. Stormwater Management

- **S** A stormwater management system to control runoff during and after construction and consisting of a perimeter ditch, retention pond, and diversion ditch was constructed concurrently with the YTA cap.

3. Gas Monitoring System

- **S** Seven landfill gas monitoring wells were installed to depths of 25 to 26 feet to monitor landfill gas at the site. Two of the wells were unintentionally installed off-site, but EPA approved modifications that routed the riser pipes back on site.

4. Groundwater System

a) Recovery wells

- **S** Three groundwater recovery wells (RW-1, RW-3, and IT-1I) were installed to form a groundwater capture zone and to recover contaminated groundwater.

- **S** Detailed recovery well construction logs and pump test data are available in the RA Construction Report (Golder February 1997).

- **S** During the RI, IT-1I was installed as a monitoring well, but because contaminant levels were significantly higher in IT-1I as compared to RW-1, IT-1I was converted into a recovery well during the RA.

- RW-3 was replaced by RW-3R in February 1998 due to fouling and excessive drawdown problems.

- Three attempts were made to install RW-2 (contingent recovery well) near the southeast drum removal area, but because low permeability clays were encountered to depths of approximately 150 feet, it was decided that completing RW-2 was not feasible. These conditions were reported to EPA, who concurred with the decision to not install RW-2.

b) Recharge wells

- Four recharge wells (designated R-1, R-2, R-3, & R-4) were installed adjacent to the County air strip, located southwest of the YTA.

- Detailed recharge well construction logs and pump test data are available in the RA Construction Report (Golder February 1997).

c) Monitoring wells

- Three additional groundwater monitoring wells (YTA-1, YTA-2, and M-1R) were installed in the YTA to monitor effectiveness and progress of contamination removal.

- Detailed monitoring well construction logs are available in the RA Construction Report (Golder February 1997).

d) Piezometers

- Seven piezometers were installed as part of the hydraulic performance monitoring system, three in the YTA and four adjacent to the recharge wells.

- Detailed piezometer construction logs are available in the RA Construction Report (Golder February 1997).

e) Well development

- Wells and piezometers were developed until water was free of sand, silt, and drilling mud and pH, temperature, and specific conductivity stabilized.

- Development of RW-1 and RW-3 was enhanced with sodium hexametaphosphate and aggressive surging and pumping.

- Development water was treated on site using a portable treatment system (sand filtration and air stripping).

- Detailed well development logs are available in the RA Construction Report (Golder February 1997).

Submersible pumps were installed in each recovery well, placed just above the well screens. The wellheads were then surface completed and connected to the groundwater transmission lines. Water level sensors were installed in recovery wells RW-1 and RW-3, 5 feet above top of limestone and 10 feet above static groundwater elevation in recharge wells. Pump tests were performed in March 1996. The groundwater transmission lines were sized based on pumping test results. Influent and effluent piping is 6 inches diameter except for the section of influent piping between RW-3 and RW- 1, which is 4 inches diameter.

5. Treatment System

   a) The installation of the main components of the groundwater treatment system was completed in March 1996.

   b) Main treatment system components include the air stripping tower, sequestering agent system, bag filters, and GAC filter system.

   c) Groundwater remediation system trial testing was conducted between November 18 and December 20, 1996.

Trial test results indicated that the recovery/treatment/recharge system performed as designed. Construction was completed in January 1997, the Final Construction Report was submitted in February 1997, and long-term operation of the treatment system began in May 1997.

The following institutional controls were to be included under the terms of the ROD.

6. Institutional Controls

   a) Access restrictions in the form of fences and signs around the landfill.

   b) Restrictions on future use of the Site to prevent construction of water supply wells and construction on-site that would require excavation.

   c) Land use ordinances or other measures restricting construction of water supply wells off-site in the downgradient groundwater flow path from the YTA.

   d) Long-term groundwater monitoring.

Access controls were implemented in the form of a perimeter chain link security fence around the entire YTA, a similar fence around the treatment building, warning signs, and above-ground locking vaults. Long-term treatment system O&M and groundwater quality monitoring on a quarterly schedule were also initiated in coordination with the treatment system start-up. Deed restrictions and off-site land use ordinances are still pending.

System Operations/O&M

O&M activities at the site are associated with the groundwater recovery, treatment, and recharge systems and the landfill cover system. The following is a brief overview of the maintenance requirements of these systems.

1. Recovery System

   a) Three recovery wells (RW-1, RW-3R, IT-1I)

      - RW- 1 and RW-3 are 6-inch diameter screened wells.
      - IT-1I is a 4-inch diameter open hole (initially a monitoring well, converted to a recovery well).
      - Monitor pumps for performance, excessive vibration, changes in electrical demand, and unusual noise.
      - Make valve adjustments to control flow.
      - Inspect for damage.
      - Repair or replacement of damage or malfunctioning components.
      - Redevelop by chemical treatment, swabbing, surging, and pumping if screen fouling occurs.

   b) Monitoring wells and piezometers

      - Inspection for evidence of damage or vandalism.
      - Water level monitoring.
      - Redevelopment (if blockage occurs).

c) Recovery system piping

- Inspect for leakage, breakage, blockage.
- Clean as necessary.

d) Recovery system controls

- Inspect all mechanical and electrical controls.
- Repair or replace as necessary.

2. Treatment System

a) Pretreatment system

- Inspect pretreatment system and controls.
- Monitor and adjust sequestering agent feed pump.
- Replace sequestering agent as necessary.

b) Air stripping system

- Inspect air stripping tower including lightning arresters, guy wires, and support connections.
- Inspect tower packing material.
- Clean or replace tower packing material if air flow drops below 2,000 static cubic feet per minute (SCFM).
- Inspect bird screen, mist eliminator, liquid distributor, and packing support grate.
- Inspect blower, air filter, and air flow sensor.
- Replace air filter as necessary.
- Inspect air stripper clearwell tank.
- Drain and clean clearwell tank if sediment build-up occurs.

c) Granulated activated carbon (GAC) system

- Inspect piping, valves, seals, and vessels for leaks.
- Monitor differential pressure gauges to determine condition of GAC column and bag filters.
- Inspect and replace bag filters as necessary.
- Backwash GAC column as necessary (typically when differential pressure approaches 12 psi).
- Bleed air from lines to ensure that vessel is completely filled with water.
- Inspect feed pump for unusual vibration and excessive motor temperature.

3. Recharge System

- Inspect for evidence of damage, vandalism, and leakage.
- Monitor level sensing system.
- Monitor water levels in recharge wells and piezometers.

4. Cover System

- Cut grass.
- Repair erosion features.
- Re-seed, re-sod, and fertilize as needed to maintain good grass coverage over entire landfill cap area.
- Remove silt and weeds from the stormwater retention pond.
- Inspect landfill gas monitoring probes for evidence of damage or vandalism.
- Measure levels of combustible gas in the landfill gas monitoring probes during the semi-annual landfill cover inspections.
- Inspect security fence and gates for evidence of damage or vandalism.

5. O&M Records

Table 3 summarizes actual O&M activities at the Site

Table 3 O&M Record, 1997 Quarter 3 through 2000 Quarter 2	
Quarter	O&M Activities
1997 Q3	Routine maintenance
1997 Q4	Routine maintenance
1998 Q1	Routine maintenance, replaced RW-3
1998 Q2	Routine maintenance
1998 Q3	Routine maintenance
1998 Q4	Routine maintenance
1999 Q1	Routine maintenance
1999 Q2	Routine maintenance, removed and cleaned pump and drop pipe, treated and redeveloped RW-1.
1999 Q3	Routine maintenance
1999 Q4	Routine maintenance, removed and cleaned pump and drop pipe, treated and redeveloped RW-1.
2000 Q1	Routine maintenance
2000 Q2	Routine maintenance, removed and cleaned pump and drop pipe, treated and redeveloped RW-1.

6. Approximate O&M Costs

Table 4 summarizes Approximate O&M costs

Table 4 Approximate Annual O&M Costs			
Dates		Estimated Cost (From ROD)	Actual Cost (nearest $1000)
From	To		
September 1995	August 1996	$0	$0
September 1996	August 1997	*$126,400 <Pro-rated for period of 5/97 through 8/97>*	*$36,000*
September 1997	August 1998	*$379,600*	*$215,000*
September 1998	August 1999	*$379,600*	*$129,000*
September 1999	August 2000	*$379,600*	*$267,000*

5.0 FIVE-YEAR REVIEW FINDINGS

Five-Year Review Process

The Five-Year Review was performed by D&A, representing the City of Madison and Madison County, in cooperation with Golder Associates, representing ITT Industries, Inc. (ITT). The investigation and report were performed for the EPA, pursuant to OSWER directive 9355.7-03A dated December 21, 1995. The directive suggests that EPA use PRPs to help perform required investigation and study to relieve budget constraints. The investigation for the five-year review consisted of:

- Reviewing the technical objectives of the initial documents (ROD, UAO, Final Construction Report).
- Conducting interviews with owners of potentially impacted wells.
- Inspecting the site and treatment system, reviewing O&M records.
- Reviewing sampling data.

It is anticipated that the results of the review will be used to determine whether the remedy is still protective of human health and the environment and to determine if additional assessment is necessary.

Interviews

Informal interviews were conducted with the Madison County Solid Waste Coordinator, City of Madison treatment system operators, and some private well owners. The interviews were conducted to determine if O&M procedures are being followed, to ensure that security measures have been effective, and to ensure that neighboring residents are not affected by current conditions at the landfill.

The County and City employees verified that procedures as outlined in the O&M manual (Golder April 1997) are being followed. They also verified that there had been no evidence of trespassing or vandalism at the site.

Four of the five private well owners included in the off-site monitoring program were contacted and interviewed. The residents interviewed were living on their property when contamination was detected at the landfill, and all were aware of the Remedial Action. The interviewees did not have any complaints about current conditions or activities at the landfill, nor were they aware of any trespassing (e.g. hunters, children playing) on landfill property.

Site Inspection

A site inspection was performed on August 3, 2000. Heavy rain began shortly before arrival at the site. The heavy rain continued for approximately 30 minutes before subsiding. Light rain continued for several hours. The system had shut down, apparently as a result of a power surge during the storm. The operator replaced bag filters during the shutdown. Fuses were replaced before restarting the system. The inside of the building was clean and there was no indication of leaking fittings, or other neglected maintenance. Recently replaced bag filters were laid out on a pallet to dry before being stored in plastic drums. The typical procedure is that when approximately two drums are filled, then the filters are sampled to verify proper profiling. If profiling demonstrates that the bags are non-hazardous waste, then the bags are placed in a dumpster for disposal at a Class I landfill (to date, bags have never been classified hazardous).

The treatment building compound had been recently mowed, and the compound fence and lock was in good condition. The air-stripping tower and the backwash tank were in good condition, showing no signs of leakage or corrosion. The YTA cover was found to be in good condition in most areas. Grass cutting was in process but had been suspended due to rain. There were three to four inch deep erosion rills noted in the northwest access road. Recent repairs were evident, but the rain had washed out some of the repair. The grass cover in the north part of the YTA was sparse. The sparse grass coverage appears to be the result of an exceptionally dry spring season, and the erosion was apparently the result of the dry spring coupled with heavy summer rains. Storm damage to the outer security fence had recently been repaired, and the repair was coming loose. Locks were missing from the landfill gas wells. The City and County were notified of the fence damage and missing locks. A Darabi Field Technician replaced the locks on August 7, 2000. Due to the rain, photographs were not taken during the inspection; however, photographs were taken later (August 7, 2000). Conditions observed during the inspection were consistent with those previously observed and described in quarterly O&M reports. Inspection notes, checklist, and photographs are included as Attachment 2.

Risk Information Review

A detailed risk analysis performed on the Madison County Landfill Site is described in the ROD (EPA 1992). The risk assessment determined that “the only identified contamination which poses unacceptable risks is that of the volatile organic compounds (VOCs) present in the groundwater.”

The results of the risk assessment indicated that “actual or threatened releases of hazardous substances from this Site, if not addressed by implementing the response action selected in the ROD, may present an imminent and substantial endangerment to public health, welfare, or the environment.”

The environmental/ecological risk assessment results indicated that contamination at the site posed no significant hazard to birds or mammals that might frequent the site.

Review of Applicable or Relevant and Appropriate Requirements (ARARs)

The ARARs for the MCLF site were established in the Record of Decision dated September 28, 1992. The legally applicable ARARs for the site have not changed and those originally established by the ROD for which the selected remedy was designed continue to be applicable at the MCLF site.

Section 10.2 of the ROD notes that EPA may evaluate the constituents at the site by comparing site levels to "To-Be-Considered" criteria (TBCs) which are not legally binding, non-promulgated advisory or guidance criteria which may be considered in determining the protectiveness of the remedy. Subsequent to the issuance of the ROD, the Florida Department of Environmental Protection (FDEP) in 1999 established "contaminant cleanup target levels" (CCTLs) to provide criteria for remediation of groundwater and soil at Florida brownfield sites, drycleaning sites and petroleum contaminated sites. The CCTLs are not legally adopted standards under Florida law and would not serve as ARARs at the MCLF site. However, the CCTLs have potential value as a TBC criteria.

For the constituents of concern at the MCLF site and the ARARs established for each, only 1,1-dichloroethane and trichlorofluoromethane have more stringent criteria under the recently adopted CCTLs above the Florida Groundwater Guidance Concentration originally used to establish the ARAR for each at the MCLF site. The CCTL for 1,1-dichloroethane is 70 µg/L and for trichlorofluoromethane it is 2100 µg/L, compared to former Florida guidance concentrations of 2,400 µg/L for each constituent. When viewing these revised guidance criteria as TBCs for the MCLF site, the existing remedy remains protective of human health and the environment.

1,1-dichloroethane has been detected historically in the recovery wells and some of the Yard Trash Area wells, but levels have been below the new CTL in all but IT-1 S and IT-1I. The concentrations in IT-1S and IT-1I appear to be decreasing. 1,1-dichloroethane was also detected in several on-site, off-site, and private wells for the first time during the first quarter 2000 sampling event. The first time detections of this parameter ranged between 2.4 and 2.6 µg/L in wells located both upgradient (IT-13I) and down gradient. It is unusual for a parameter to make a simultaneous first time appearance in such a wide spacial range at essentially the same concentration, so it is probable that a laboratory instrument irregularity was misinterpreted.

There has been only one detection of trichlorofluoromethane during the history of the project. Trichlorofluoromethane was detected at 2 g/L in YTA-2 during the fourth quarter of 1999. The CCTL changes to neither 1,1-dichlorethane nor trichlorofluoromethane have a significant affect at the site. Trichlorofluoromethane is so rare that it should be considered nonexistent, and 1,1-dichlorethane is being captured by the recovery wells.

Data Review

Groundwater chemistry data from monitoring wells and private wells at and adjacent to the Madison County Landfill Superfund Site have been compiled in the RI (IT Corporation April 1992) and in quarterly O&M reports to EPA (Golder 1997-1999 and Darabi, 1999 - 2000). The data range spans

from 1991 to 2000. Although the main objective of this report is to review the five years since the RA was initiated (August 1995 through August 2000), all available data was examined.

Volatile Organic Compounds (VOCs) including 1,1-dichloroethene, cis-1,2-dichloroethene, trichloroethene, tetrachloroethene, and vinyl chloride continue to be detected above MCLs. The highest concentrations of the contaminants of concern (VOCs) during the initial assessment were in the southeast comer of the YTA. These contaminants continue to be detected above cleanup goals in the southeast corner of the YTA. However, most VOCs have decreased in concentration significantly since treatment system startup. Table 5 compares baseline concentrations with initial RA (1997 Q2) and current (2000 Q2) contaminant concentrations.

Table 5 Changes in VOC Concentrations – Baseline, System Startup, and Current

VOC Summary				
Well	Chemical Compound	Concentration (µg/L)		
		Baseline	System Startup	Current
IT-1S	1,1-dichloroethene	65	160	110
	Cis-1,2-dichloroethene	1000 (cis+trans)	2900	2000
	Trichloroethene	2800	3200	2000
	Tetrachloroethene	120	120	53
	Vinyl chloride	<10	42	17
IT-1I	1,1-dichloroethene	3.3	88	18
	Cis-1,2-dichloroethene	1400 (cis+trans)	1600	570
	Trichloroethene	1400	1500	280
	Tetrachloroethene	60	<25*	4
	Vinyl chloride	7	32	6.8
IT-1D	1,1-dichloroethene	15	3.7	<1
	Cis-1,2-dichloroethene	470 (cis+trans)	96	82
	Trichloroethene	450	65	87
	Tetrachloroethene	3.0	1.7	<2
	Vinyl chloride	24	4.1	7.1
RW-1	1,1-dichloroethene	14	9	<1
	Cis-1,2-dichloroethene	300	180	30
	Trichloroethene	350	150	19
	Tetrachloroethene	<10	<5*	<2*
	Vinyl chloride	<10	5.2	<1
RW-3R**	1,1-dichloroethene	3.6	<5*	<1*
	Cis-1,2-dichloroethene	83	24	25
	Trichloroethene	130	110	25
	Tetrachloroethene	<1.0	<5*	<2*
	Vinyl chloride	15.0	<5	2.4

Table 5	Changes in VOC Concentrations – Baseline, System Startup, and Current			
VOC Summary				
Well	Chemical Compound	Concentration (µg/L)		
		Baseline	System Startup	Current
YTA-1	1,1-dichloroethene	4.3	<5*	<1*
	Cis-1,2-dichloroethene	190	180	330
	Trichloroethene	150	160	59
	Tetrachloroethene	<1	<5*	<2*
	Vinyl chloride	22	30	45
YTA-2	1,1-dichloroethene	<1	<1	<1
	Cis-1,2-dichloroethene	8.9	18	9.6
	Trichloroethene	4.1	6.4	2.3
	Tetrachloroethene	<1	<1*	<2*
	Vinyl chloride	<1	<1	<1
M-1R	1,1-dichloroethene	1.1	1.1	<1
	Cis-1,2-dichloroethene	250 (cis+trans)	320	590
	Trichloroethene	340	81	44
	Tetrachloroethene	1.1	<1*	<2*
	Vinyl chloride	2.2	52	17

* Detection limits vary due to laboratory dilutions and matrix interferences
** Replacement well initial sampling 4/98
Baseline sampling dates vary.

Table 5 shows increased concentrations of TCE, cis-1,2-DCE, and vinyl chloride in some wells. However, variability in TCE levels in IT-1D has been detected during routine groundwater monitoring at the site. Historical TCE concentrations in IT-1D have been 87 µg/L in 2000; 310 µg/L in 1998; and between 62 and 68 µg/L in 1997; however, prior to 1997, levels varied from 180 to 450 µg/L. Overall, TCE in IT-1D has indicated a decreasing trend since initial sampling in 1991 (see Attachment 3), and this variability is not considered significant. The concentration of cis-1,2-DCE increased from 24 to 25 µg/L in RW-3; however, it decreased from its baseline concentration 83 µg/L in 1996. These RW-3 results are generally consistent, and the concentrations are well below the MCLs.

There have been noted increases of cis-1,2-DCE and vinyl chloride in YTA-1 and cis-1,2-DCE in M-1R. Cis-1,2-DCE has followed an upward trend since system startup, and vinyl chloride in these wells does not indicate any significant change. However, it is noted that while cis-1,2-DCE concentrations have increased in these two wells, TCE concentrations have correspondingly decreased steadily, likely indicating natural degradation processes are active in the aquifer, and resulting in reductive dechlorination of the TCE. The charts in Attachment 3 show cis-1,2-DCE and TCE historic trends in on site wells.

Increases in concentration in Table 5 are within the expected error band (variability range). Fluctuations in VOCs can also be associated with groundwater level changes. A rising groundwater level can have a flushing effect when the water table rises above the limestone surface into clastic sediment above. Changes in water level can also result in engagement to or disengagement from preferential flow paths. Changes to preferential flow patterns can potentially have an effect on water chemistry.

Hydraulic Controls

The groundwater recovery system was designed to intercept and remove contaminated groundwater from the YTA (Golder 1997). Three recovery wells in the southeast corner of the YTA pump a total of approximately 200 gallons per minute (gpm) from the upper Floridan aquifer. In addition to remediating contaminated water, the recovery well drawdown produces a capture zone. The capture zone effectively provides a hydraulic barrier that helps prevent off-site contaminant migration. The WinFlow Model was used to simulate the capture zone (see Quarterly Reports from 1997 through Q3 1999). Figure 3 shows an example of the WinFlow Capture Zone Analysis. Water level monitoring data shows that the capture zone produced by the recovery system remains relatively uniform, and that the capture zone is effective.

6.0 ASSESSMENT

The assessment of the Remedial Action at the Madison County Landfill is intended to answer the following three questions:

Have conditions external to the remedy changed since the remedy was selected?

Conditions external to the remedy related to area land use have not changed. Land use in 1995 was and remains essentially rural residential with some small tree farming operations. The landfill property and the road right-of-way (ROW) between the City limit and the landfill property has been annexed into the City. The area surrounding the landfill is under County jurisdiction. According to the County planner, the ordinance regulating land use adjacent to the landfill allows one (1) residence per 10-acre lot, although the County will issue a variance allowing single-family dwellings on 1-acre. The County planner was not aware of any large-scale development plans in the area. Quarterly groundwater monitoring has been in effect since 1997. There has been no indication of new contaminant sources or pathways. Hydrologic and hydrogeologic site conditions have remained unchanged since the remedy was put into place.

Has the remedy been implemented in accordance with the decision documents?

The Remedial Design was completed as specified in the ROD and as approved by the EPA in January 1995. The Remedial Action construction was completed as specified in the UAO and was approved by EPA in April 1997. The Remedial System has been operational since May 1997.Quarterly groundwater monitoring and daily system O&M as specified in the ROD have been performed since system startup. Contaminant levels in most wells are decreasing, and the system is successfully removing contamination from the influent. Historical laboratory analytical results compared to Groundwater Standards and Guidance Concentrations is included as Attachment 4, and historical laboratory analytical results compared to laboratory detection limits is included as Attachment 5.

O&M procedures have been in compliance with the O&M Plan as approved by the EPA, and some minor adjustments to the O&M are currently in process. There is an iron fouling problem associated with the recovery system. The well screen in RW-1 periodically becomes blocked by iron precipitate, necessitating implementation of cleaning procedures. This problem was anticipated and the maintenance procedure is described in the O&M Manual (Golder April 1997).

No suggestions for changing the sampling routines are being made at this time. The sampling frequency for off-site and private wells was reduced in 1999. Previously, all off-site wells were sampled quarterly. According to the Performance Standards Verification Plan, after eight consecutive quarters without exceeding the MCLs, sampling frequency can be reduced to an annual basis. The off-site monitoring system is comprised of 12 monitoring wells (IT-3S, IT-3I, IT-3D, IT-4S, IT-4I, IT-4D, IT-6S, IT-6I, IT-6D, IT-7S, IT-7I, IT-7D) and five private wells (PW-32, PW-34, PW-35, PW-37, and PW-89). All off-site monitoring wells except IT-3D and private wells except PW-35 were reduced to an annual sampling frequency in 1999. Through the second quarter of 2000

(June), IT-3D and PW-35 have had three consecutive quarters without a MCL exceedance. Should this trend continue, IT-3D and PW-35 will assume an annual sampling frequency following the September 2001 event.

Institutional controls including security fencing to restrict access to the site and signs warning of the danger of exposure to soil and groundwater have been put into place. Deed restrictions have not been placed on the landfill property at this time, but the County and City attorneys are working on this task. There is currently not a State or Local ordinance restricting the installation of water supply wells in the area downgradient of the landfill, but all residents in the affected area have been supplied with City water. The possibility of having the FDEP or the Suwannee River Water Management District (SRWMD) prohibit the installation of any new wells is being explored.

Has any risk information changed since the remedy was selected?

The Remedial Action activities at the Site were implemented pursuant to the risk assessment described in the ROD. No changes to the local population, land use, or natural conditions have occurred that would indicate increased risk at the Site. Construction of the Cover System, Security Fencing, and the Treatment System has effectively reduced potential exposure pathways. Quarterly on-site groundwater monitoring has shown that contamination in both on-site and off-site wells has decreased since system startup. Implementation of the remedy has significantly reduced both the level of contamination and the risk of human exposure or environmental impact at the Site.

7.0 DEFICIENCIES

The only potential deficiency identified during the Five-Year Review is that the specified Institutional Controls have not been fully implemented. Deed restrictions have not yet been placed on the Landfill property, nor has an ordinance been written restricting the installation of water wells downgradient from the YTA. However, the attorneys for the City and County are currently working to determine how to implement these controls. This deficiency does not currently affect protectiveness, because water from the City of Madison is available downgradient from the Landfill.

8.0 RECOMMENDATIONS AND REQUIRED ACTIONS

Two institutional control issues need to be addressed:

- Deed restrictions on City/County owned landfill property.
- Local or State ordinance restricting well installation in an area downgradient of the YTA.

The issue of deed restrictions is being addressed by the attorneys representing the City of Madison and Madison County. The intent is to place restrictions on the property ownership deed to disallow construction, excavation, or well installation for any purpose other than monitoring or removing contamination. The second issue will require either writing a County ordinance against permitting wells in the area downgradient of the YTA, or having the FDEP delineate the area under Chapter 62-524 of the Florida Administrative Code. The attorneys will also examine this issue to determine the best approach.

It should be noted that it might not be possible to achieve cleanup goals as required by the ROD. As stated in the PSVP (Golder 1994), there is often a rapid decrease in contaminant concentration when pump and treatment systems are started. The contaminant concentrations sometimes level off above their MCLs. Continued pumping might cease to produce results if this type of trend develops. As outlined in the PSVP, when asymptotic trends develop, options to consider are adjusting pumping rates, pulse-pumping, and groundwater recovery system shutdown with continued monitoring. The groundwater chemistry data collected to date indicates that natural attenuation of the source contaminant (PCE) is occurring, as evidenced by the presence of cis-1,2 DCE, and vinyl chloride. It is recommended that information to further evaluate natural attenuation be collected during groundwater monitoring events.

To help achieve cleanup goals more rapidly, an evaluation of the vapor extraction systems (VES) adjacent to on-site monitoring wells YTA-1 and M-1R will be conducted as described below. YTA-1 is located adjacent to the northwest drum removal area, and M-1R is located near the southeast drum removal area. Following the completion of drum removal activities (in 1995-1996, during RA construction), passive VES were installed in both excavations. These systems have been operating passively since their installation (they have wind turbines mounted on vertical risers which are in turn connected to the perforated pipes embedded in the gravel blanket that backfilled the excavation). Baseline sampling of air in the vertical risers (conducted in 1998) indicated there were elevated concentrations of VOCs present. The amount of vacuum applied to the VES by the wind turbines is relatively small and thus the area of influence and contaminant mass removal rates are likely low. By actively extracting vapor from the VES systems (using blowers), the VES may effectively complement the groundwater extraction system and help reduce VOC concentrations in these monitoring wells and potentially reduce the time required to achieve the clean-up goals from the ROD. To address this possible system enhancement, the City and the County will evaluate the feasibility of activating the VES in several phases:

- Phase I - Collect samples of air from the VES vents at both the northeast and the southeast drum removal areas and have them analyzed to determine what VOCs are present and what their concentrations are.

- Phase II - If VOC concentrations from one or both VES locations are significantly elevated, then a pilot active VES test will be conducted at one or both locations. The test(s) would likely run over a one-day or two-day period. Results of the pilot test(s) would then be used to determine the optimum VES recovery rate, the projected effluent concentrations, mass removal rates, and treatment requirements (if any).

- Phase III - If results from the pilot tests are positive, an active VES could be brought on-line at one or both locations to enhance the site's VOC mass removal rate and reduce the time required to achieve the groundwater clean-up goals. To produce an active VES installation, the required infrastructure would consist of extending electrical conduit to the individual locations and installing a blower and ductwork assembly that would connect to the existing riser pipes.

Results of all pilot testing and any proposed permanent installation details will be presented to EPA in regularly scheduled quarterly monitoring reports. Should the pilot testing indicate that the benefit of an enhanced VES would be minimal, then the current passive system will be maintained without additional enhancement.

9.0 NEXT REVIEW

The next Five-year Review is scheduled to be submitted on, or before, September 1, 2005.

10.0 REFERENCES

Darabi & Associates, 1999, Quarterly Report for the period of October 1 — December 31, 1999, Madison County Landfill Superfund Site, Madison County, Florida.

Darabi & Associates, 2000, Quarterly Report for the period of January 1 — March 31, 2000, Madison County Landfill Superfund Site, Madison County, Florida.

Darabi & Associates, 2000, Quarterly Report for the period of April 1 — June 30, 2000, Madison County Landfill Superfund Site, Madison County, Florida.

Golder Associates, 1994, Performance Standards Verification Plan, Madison County Landfill Superfund Site, Madison County, Florida.

Golder Associates, February 1997, Remedial Action Construction Report, Madison County Landfill Superfund Site, Madison County, Florida.

Golder Associates, April 1997, Operation and Maintenance Plan, Madison County Landfill Superfund Site, Madison County, Florida.

Golder Associates, 1997, Quarterly Report for the period of October 1 — December 31, 1997, Madison County Landfill Superfund Site, Madison County, Florida.

Golder Associates, 1998, Quarterly Report for the period of January 1 — March 31, 1998, Madison County Landfill Superfund Site, Madison County, Florida.

Golder Associates, 1998, Quarterly Report for the period of April 1 — June 30, 1998, Madison County Landfill Superfund Site, Madison County, Florida.

Golder Associates, 1998, Quarterly Report for the period of July 1 — September 31, 1998, Madison County Landfill Superfund Site, Madison County, Florida.

Golder Associates, 1998, Quarterly Report for the period of October 1 — December 31, 1998, Madison County Landfill Superfund Site, Madison County, Florida.

Golder Associates, 1999, Quarterly Report for the period of January 1 — March 31, 1999, Madison County Landfill Superfund Site, Madison County, Florida.

Golder Associates, 1999, Quarterly Report for the period of April 1 — June 30, 1999, Madison County Landfill Superfund Site, Madison County, Florida.

Hoenstine, Ronald W., Steven M. Spencer, and Teresa O'Carroll, 1990, Florida Geological Survey Bulletin No. 61.

International Technology Corporation, October 1990, Remedial Investigation/Feasibility Study Work Plan.

International Technology Corporation, April 1992, Remedial Investigation Report.

International Technology Corporation, August 1992, Feasibility Report.

United States Environmental Protection Agency, 1992, Record of Decision.

ATTACHMENT 1

FIGURES

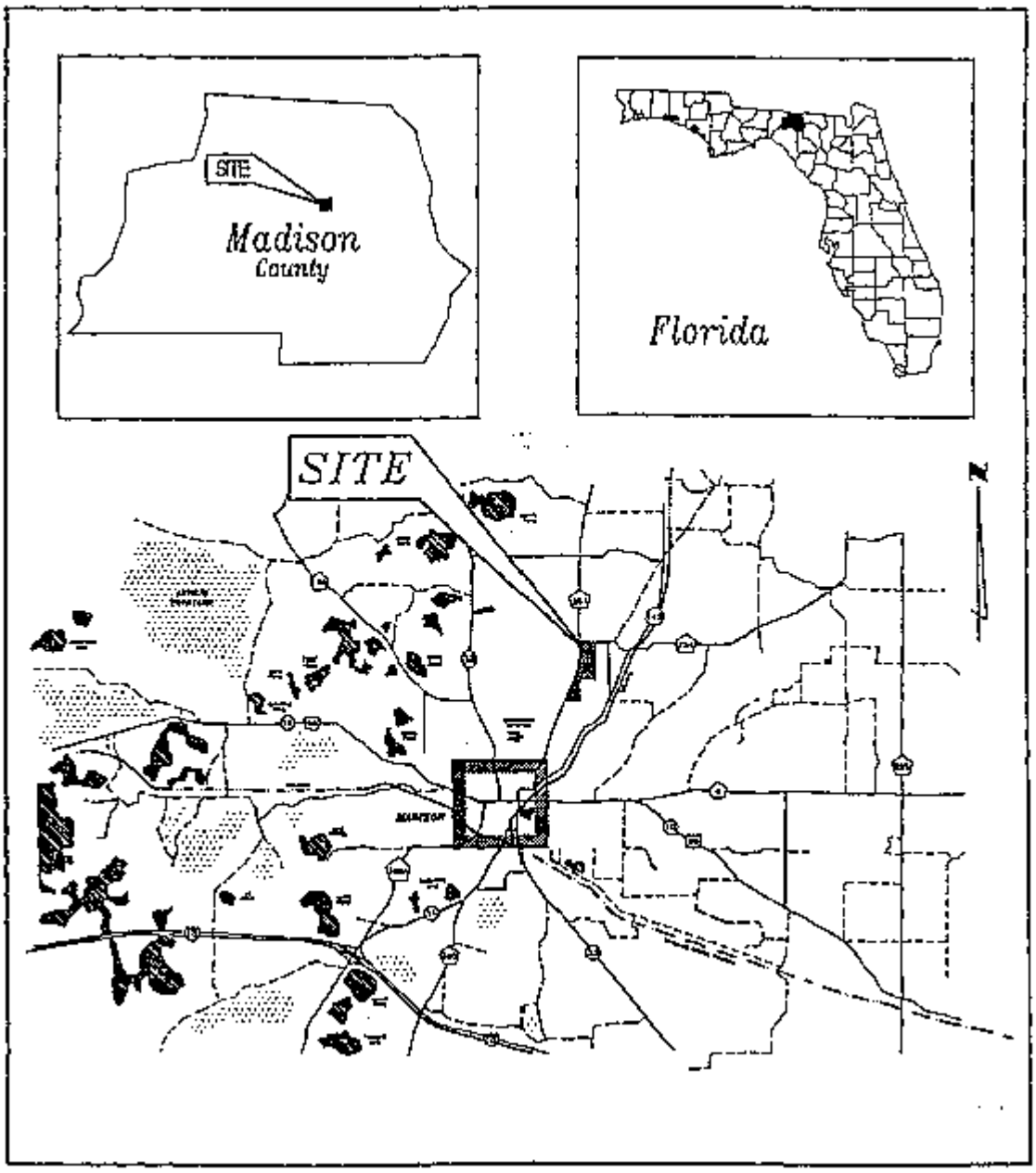


Figure 1: Location Map, Madison County Landfill Superfund Site

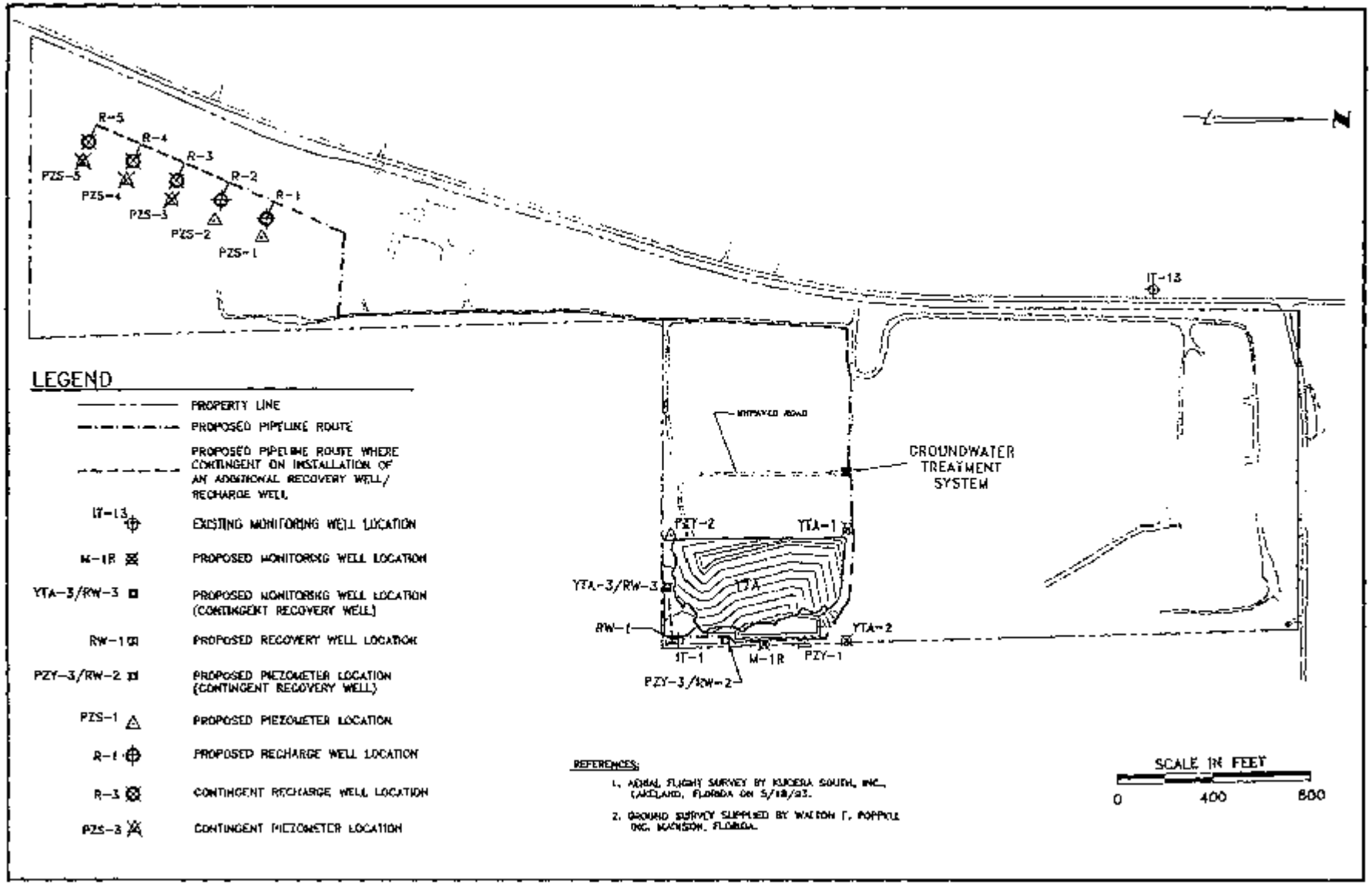


Figure 2: Site Map

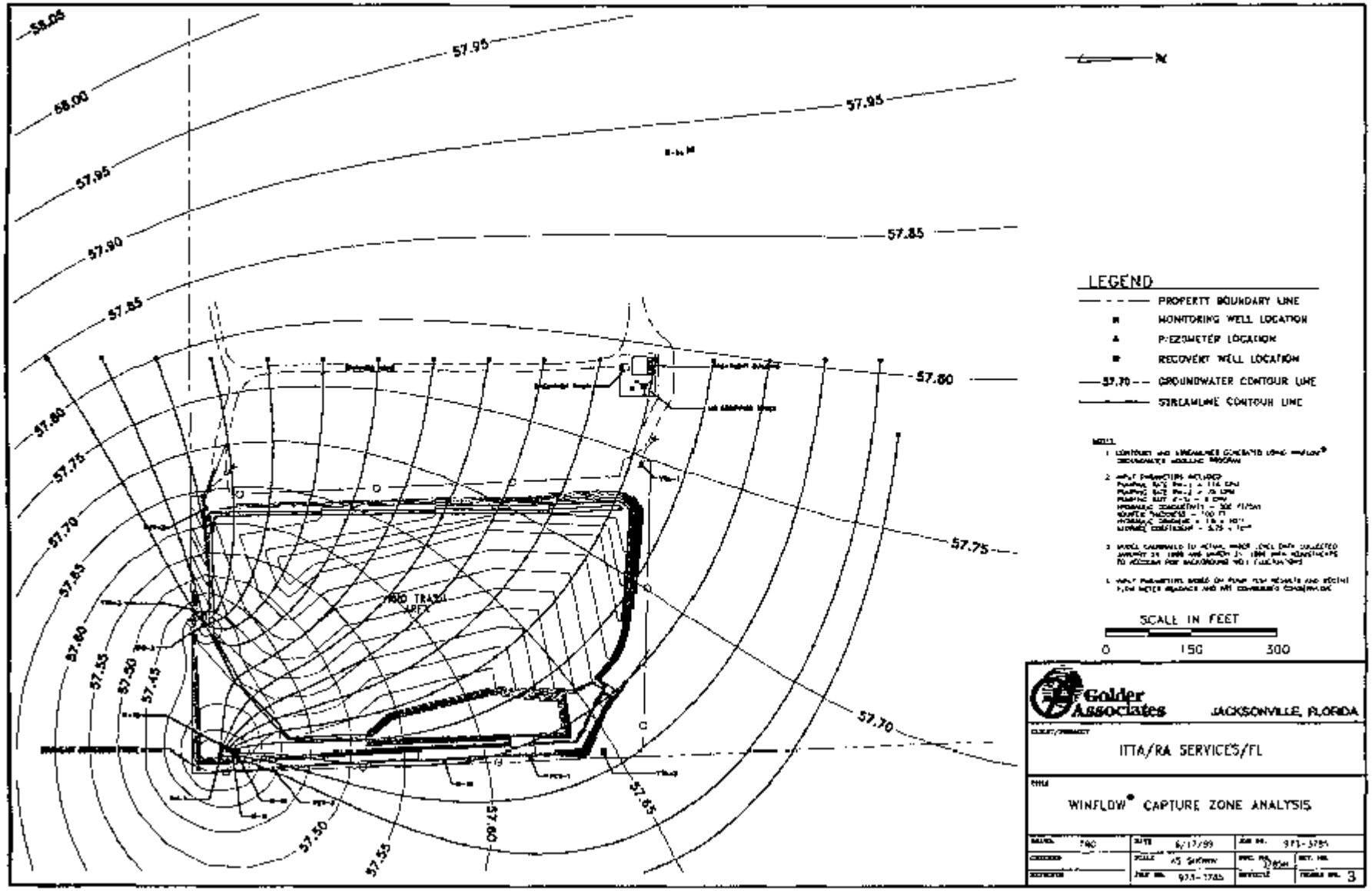


Figure 3: WinFlow Capture Zone

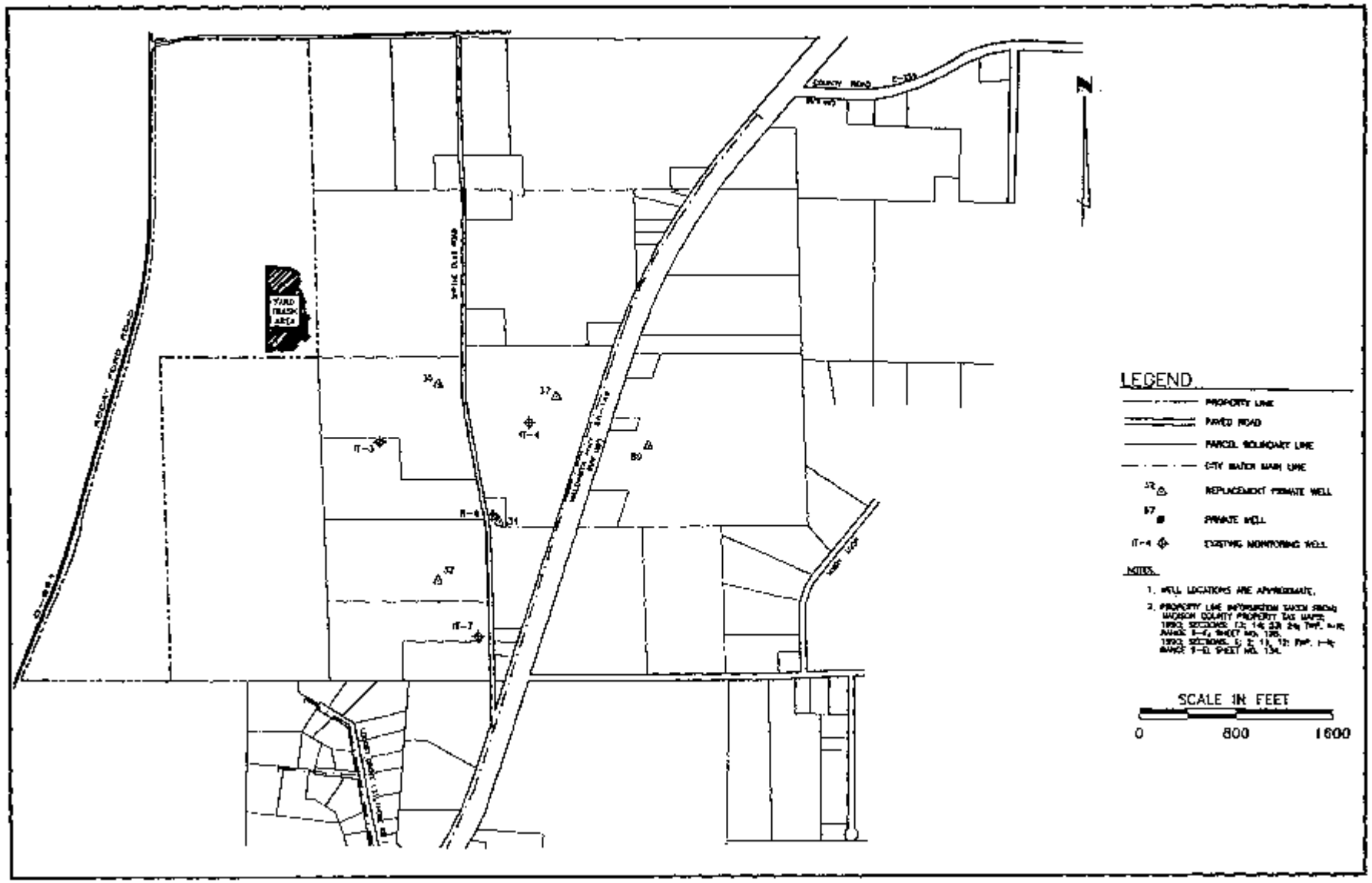
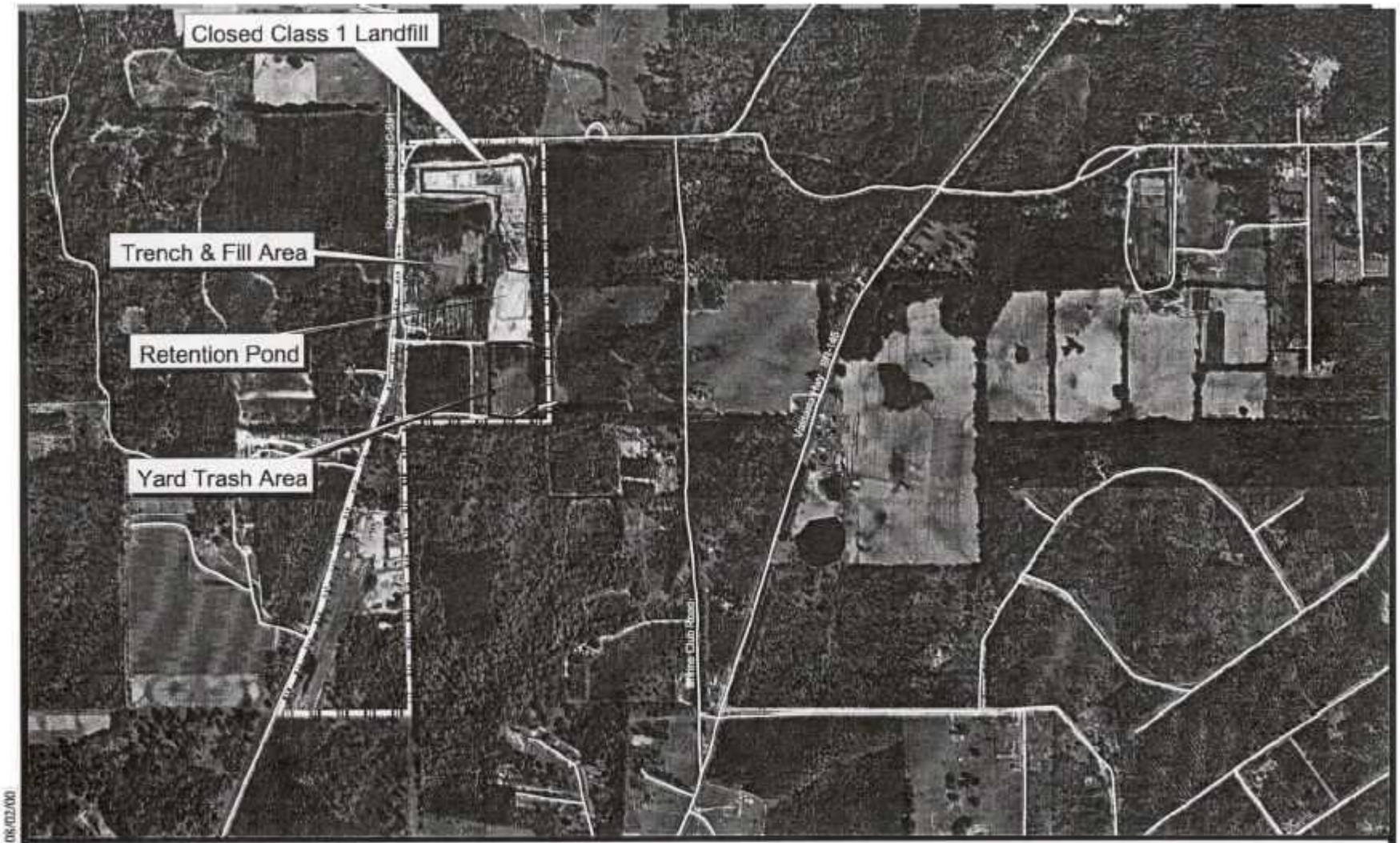


Figure 4: Offsite Well Locations



Legend

- Property Line
- Limits of Closed Class I LF
- YTA
- Roads
- Surface Water

Figure 5
Site Aerial Photograph

500 0 500 1000 Feet
1:15000

N

DARABI AND ASSOCIATES, INC.
Environmental Consultants

For informational purposes only.

01_madison_lf_review.apr NF 06/02/00

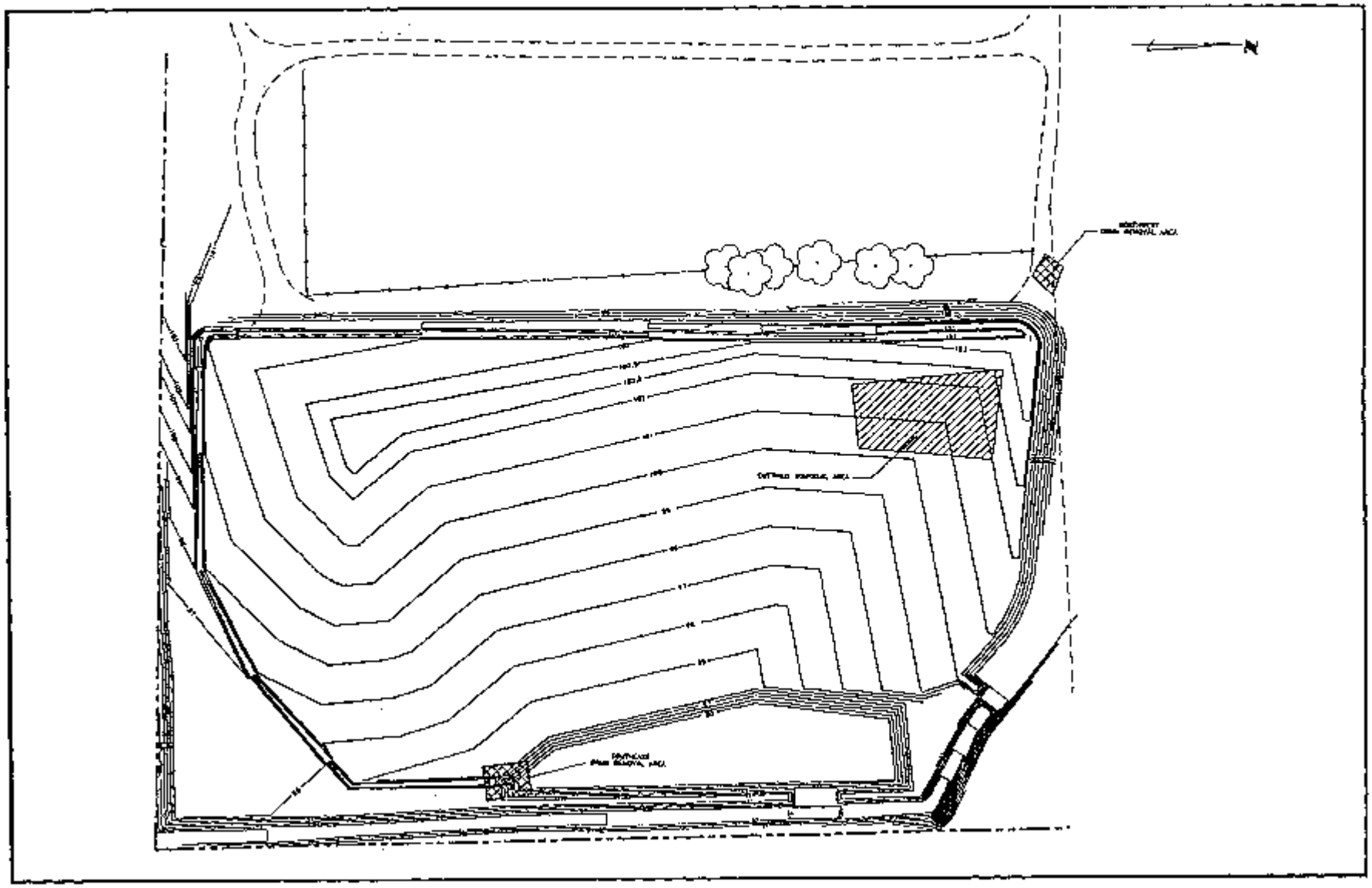


Figure 6: Yard Trash Area Drum Removal Areas

ATTACHMENT 2

INSPECTION NOTES, CHECKLIST, AND PHOTOGRAPHS

Table 1.1 Landfill Inspection Checklist

Observation Report Number:		Date of Observation:	8/3/00
Field Personnel:	John Catches		

SECTION A: FENCING AND SECURITY	Yes*	No	Not Applicable	
1. Damage to fences, gates, or locks	✓	✓		repaired but needs additional work
2. Gates unlocked/locks missing		✓		
3. Signs of forced entry detected		✓		
SECTION B: ACCESS ROADS				
1. Access compromised by road conditions		✓		
SECTION C: FINAL COVER SYSTEM				
1. Settlement of cover		✓		
2. Evidence of erosion, cracks, gullies	✓			small area NW access road knowing in process
3. Inadequate growth of grass cover	✓			
4. Excessive grass height	✓			
5. Growth of damaging weeds or saplings		✓		
6. Evidence of leachate seeps		✓		
7. Landfill marker damage		✓		
8. Impacts due to settlement		✓		
9. Ponding of water	✓			recent heavy rains
SECTION D: GAS VENTING SYSTEM				
1. Visible damage to system components		✓		
2. Blockage in pipes		✓		
3. Excess release of odors		✓		
SECTION E: STORMWATER MANAGEMENT SYSTEM				
1. Areas of silting		✓		
2. Insufficient slope to promote positive drainage		✓		
3. Areas of erosion		✓		
4. Inlets/Piping/Letdown Pipes/Dissipaters in need of repair		✓		
5. Filter point mat damage		✓		
6. Retention pond damage		✓		recently cleaned
7. Berm damaged or breeched		✓		
8. Signs of pollutants in drainage areas		✓		
9. Water other than stormwater entering system		✓		
10. Ditches/culverts obstructed by vegetation		✓		
11. New equipment exposed to precipitation		✓		
SECTION F: MONITORING DEVICES				
1. Damage to groundwater monitoring wells		✓		
2. Damage to gas monitoring wells		✓		
3. Locks missing	✓			Gas wells

*If yes, provide additional comment pages as needed

Signature of Observer: John Catches Date: 8/4/00

8/3/00

Treatment System Inspection Checklist

Madison County Landfill Superfund Site
Madison County, Florida

Treatment Building Compound

Condition of:

Grounds Recently mowed

Building exterior Good

Air stripping tower Good

Fence Good

Backwash tank Good

Treatment Building

Is system operational? Was operational when I arrived - shut down occurred while I was inspecting system - no alarms

Flow rate 188.2 g/m Total Flow reading 191656 Kgal

Fuses were replaced during inspection.

Condition of:

Clearwell Recently pumped out

Interior lighting Operating properly

Computer Operating properly

HVAC filter Scheduled to be changed during next backwash

Blower filter " " "

Main control panel panel lights OK

Is there an indication of leaking pipes? No

Is there evidence of recent service? Bag filters were being replaced when I arrived

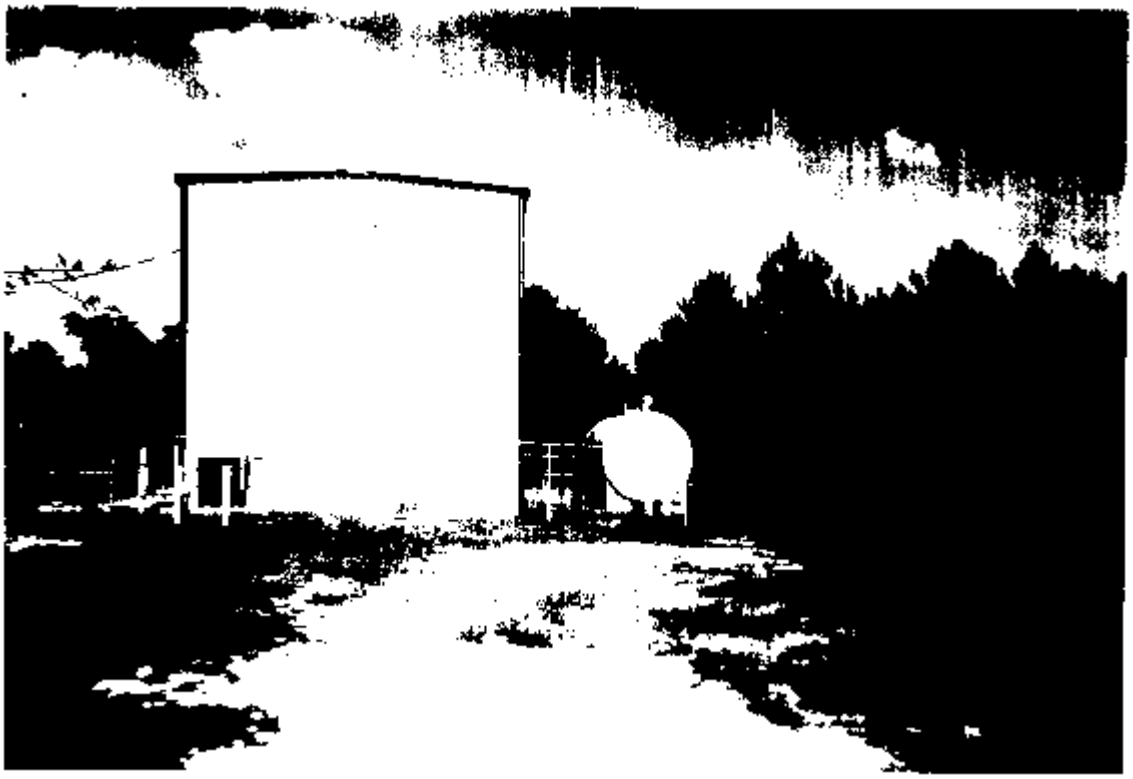
8/3/00

- Treatment system logs up to date
- Last backwash 7/19/00
- GAC Air bleed opened 7/28
- WL measurements 6/28
- Recovery wells ~~cleaned~~ pulled & cleaned 5/3/00

Notes on board

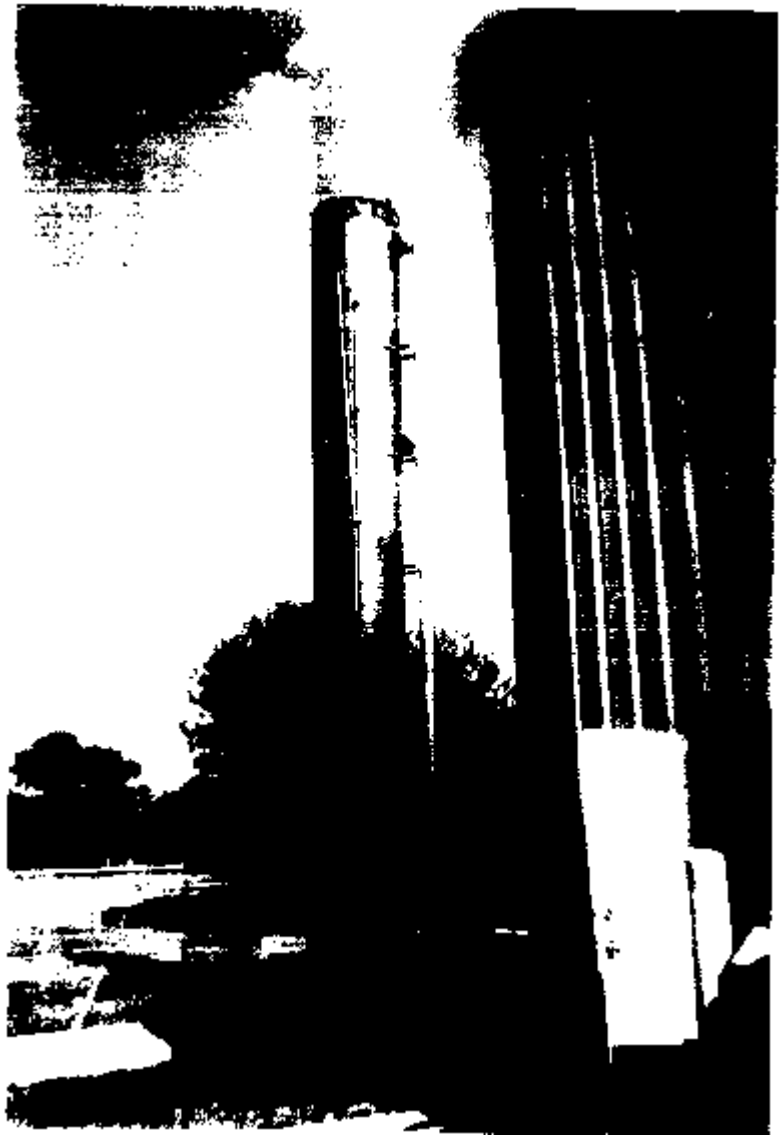
- Pressure gages RW-1, -3 & IT-11 recently replaced

Treatment Building (Front)

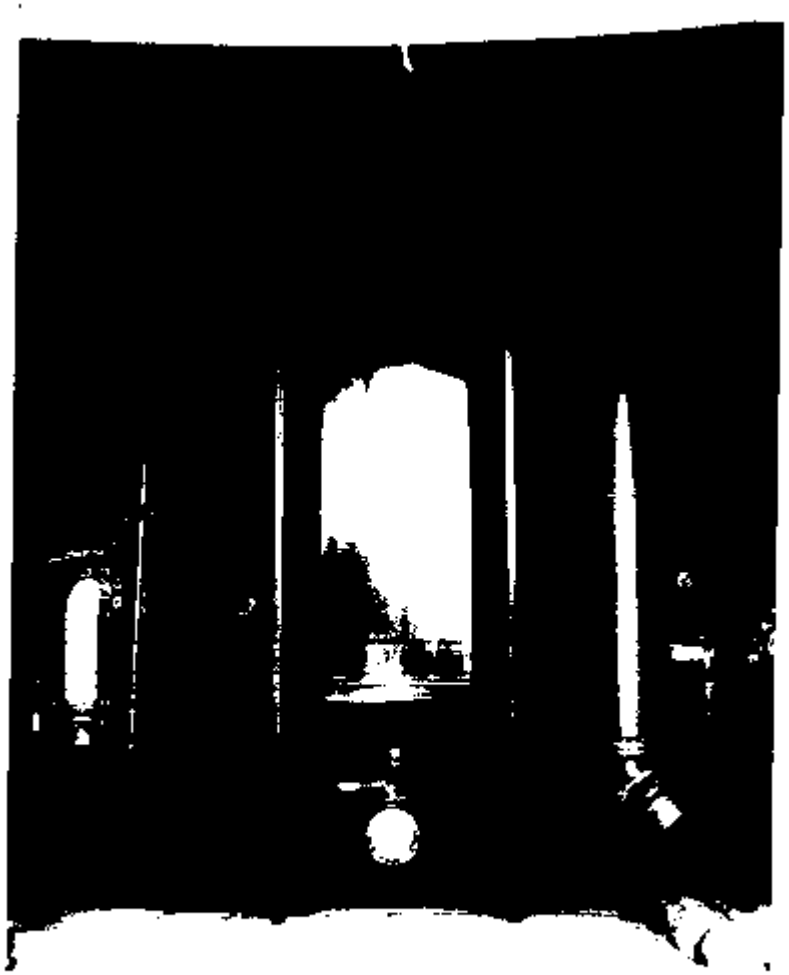


Treatment Building and Backwash

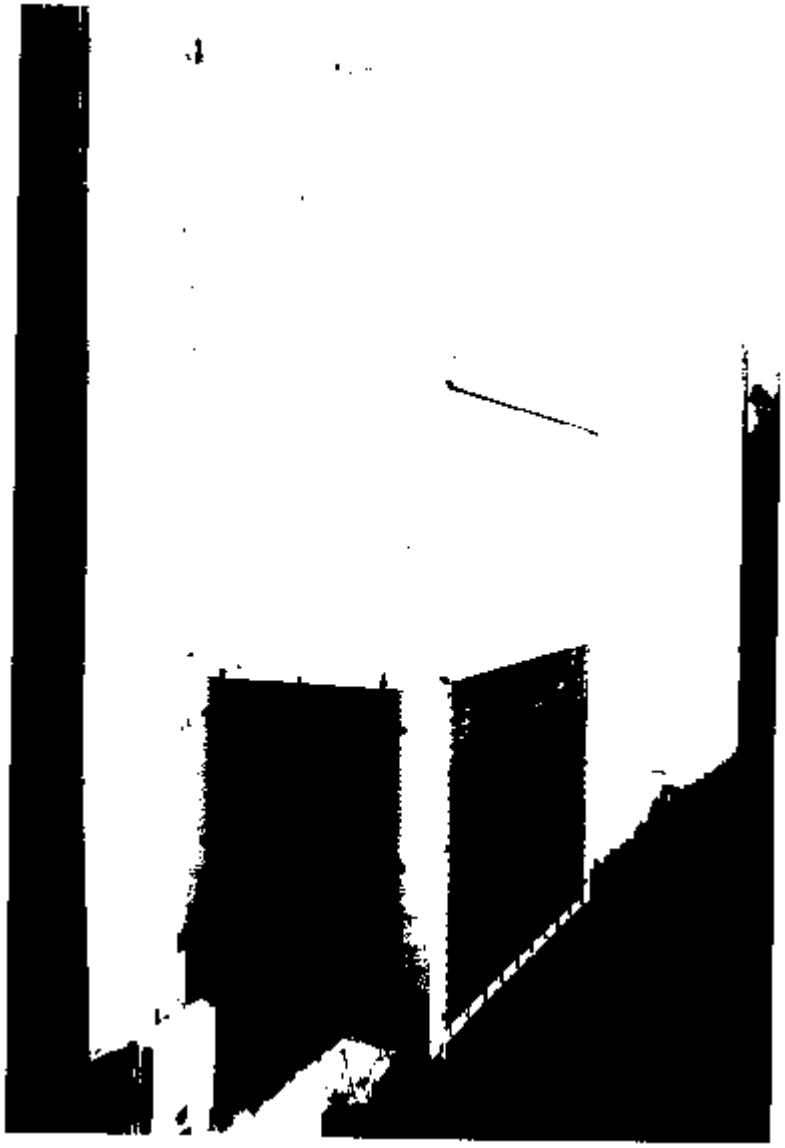
Backwash Tank



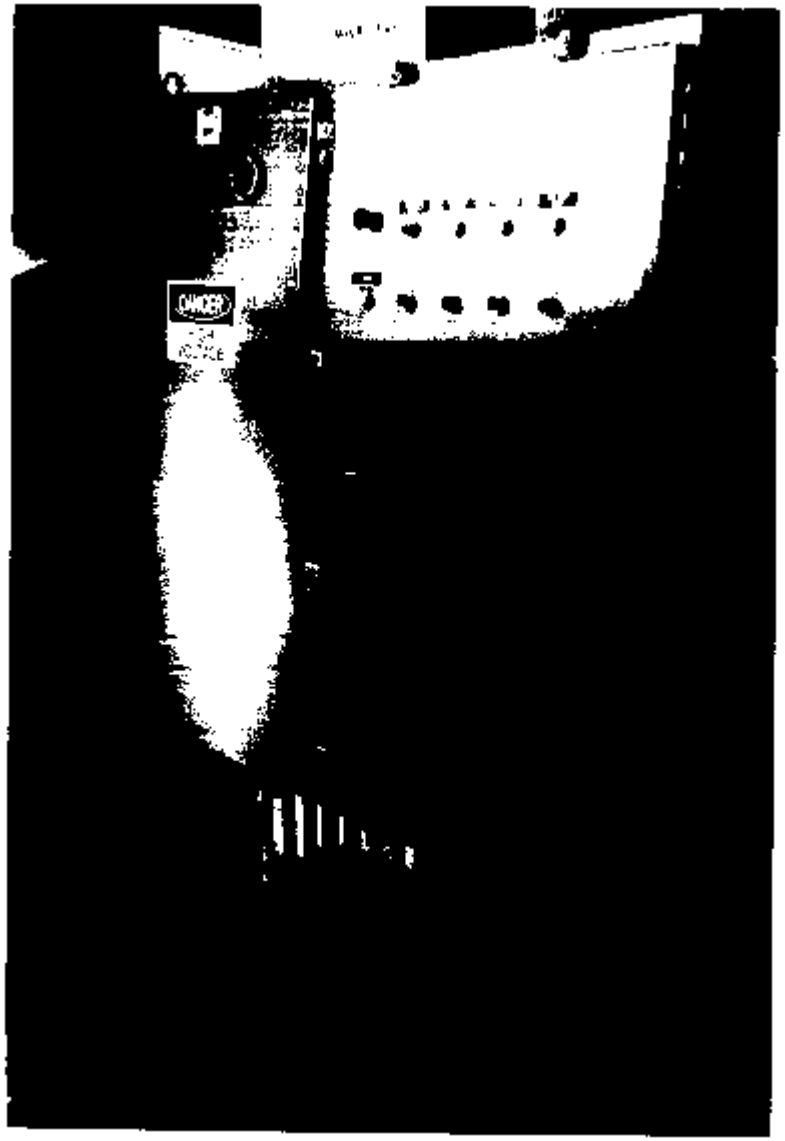
Air Stripping Tower



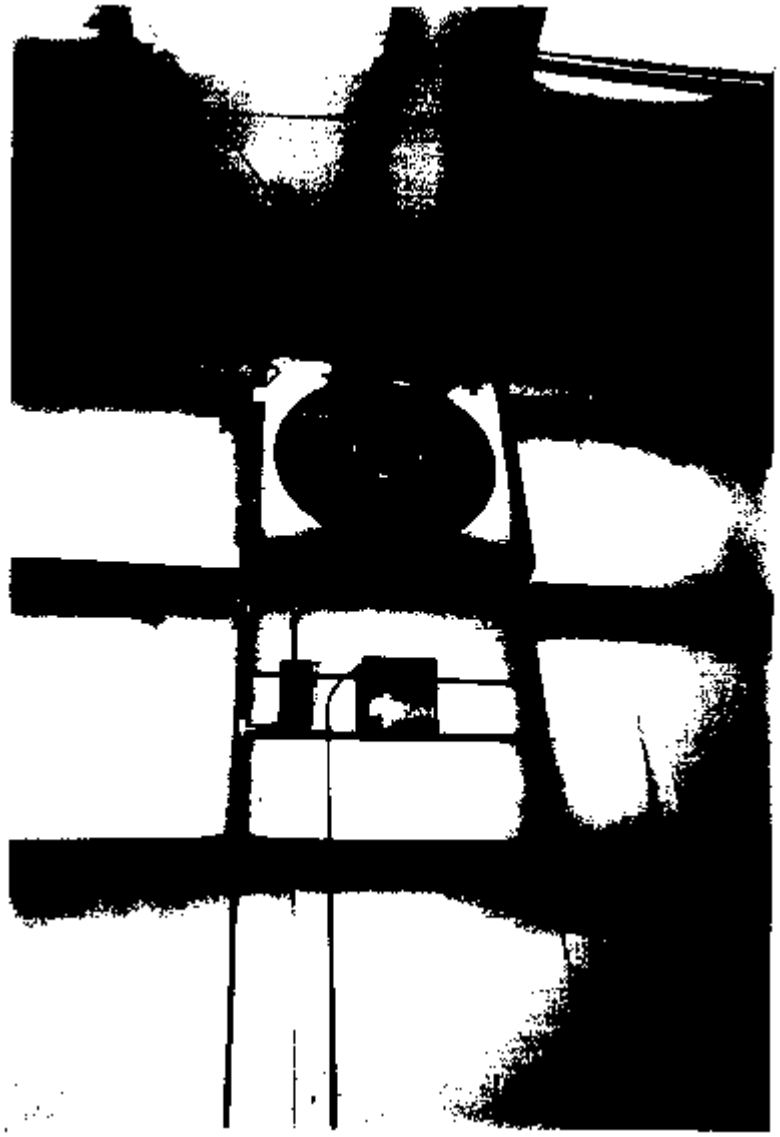
GAC Filter Tank



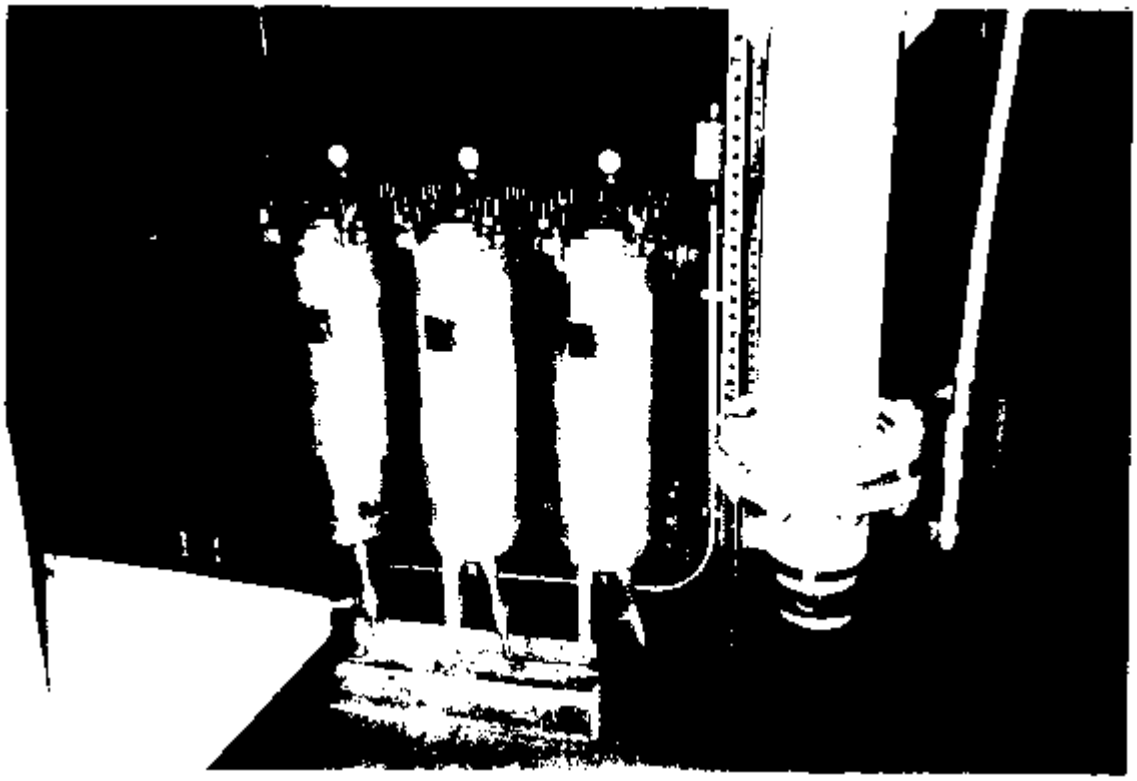
Air Conditioner



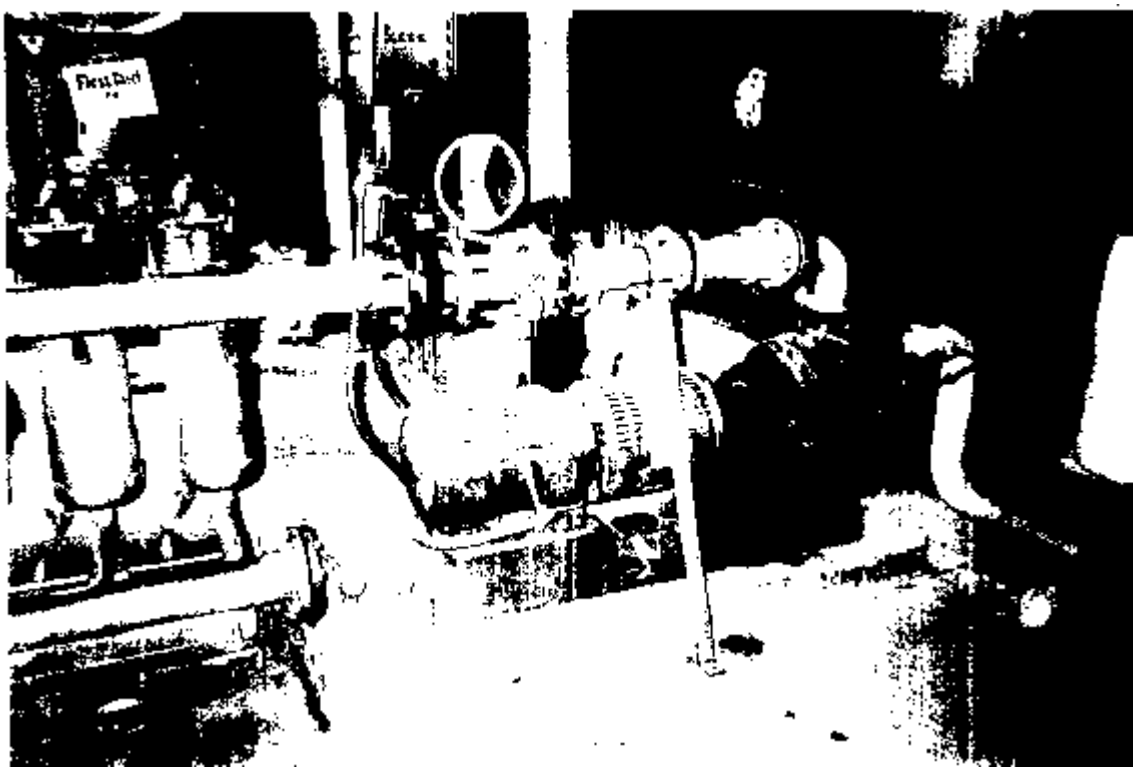
Control Panel



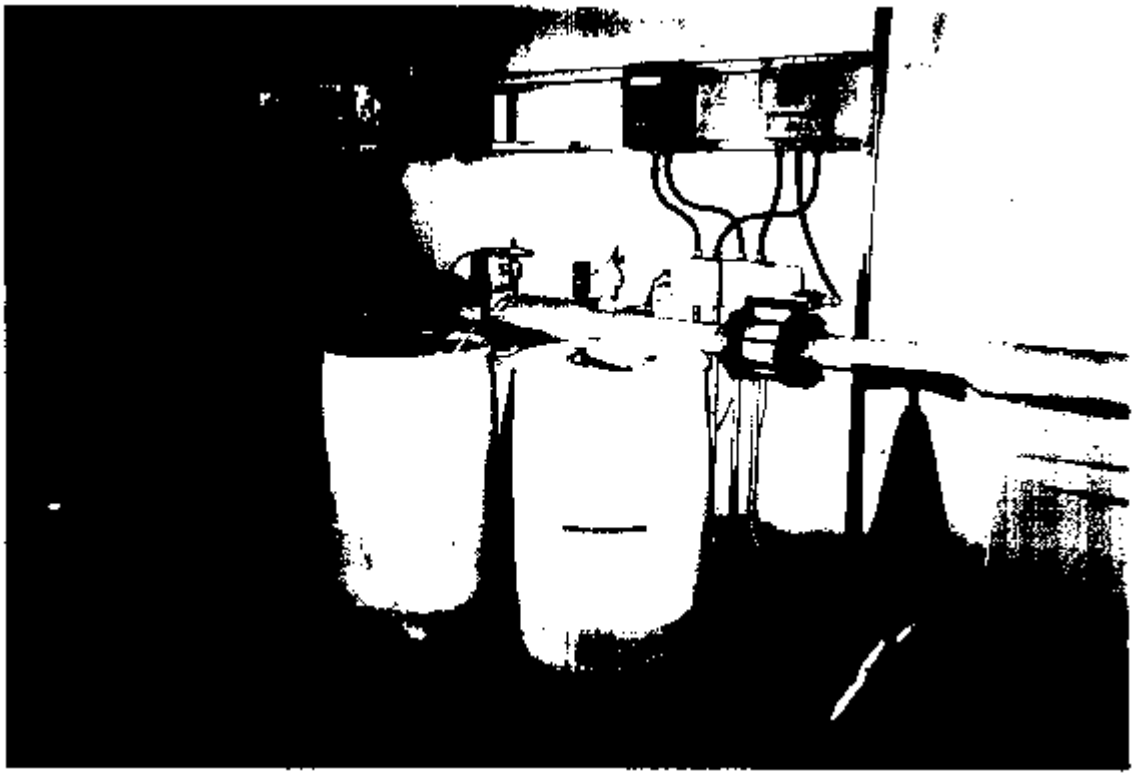
Exhaust Ventilation and Fan Blower



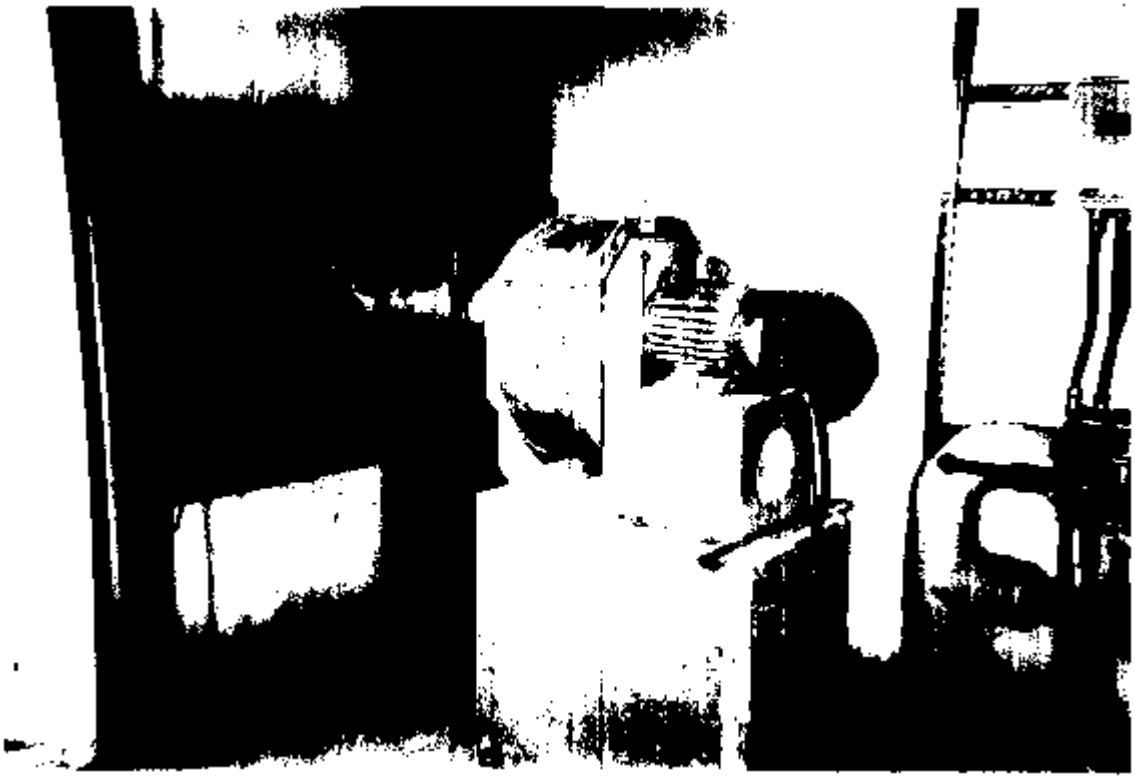
Bag Filter Canisters



Filter Pump

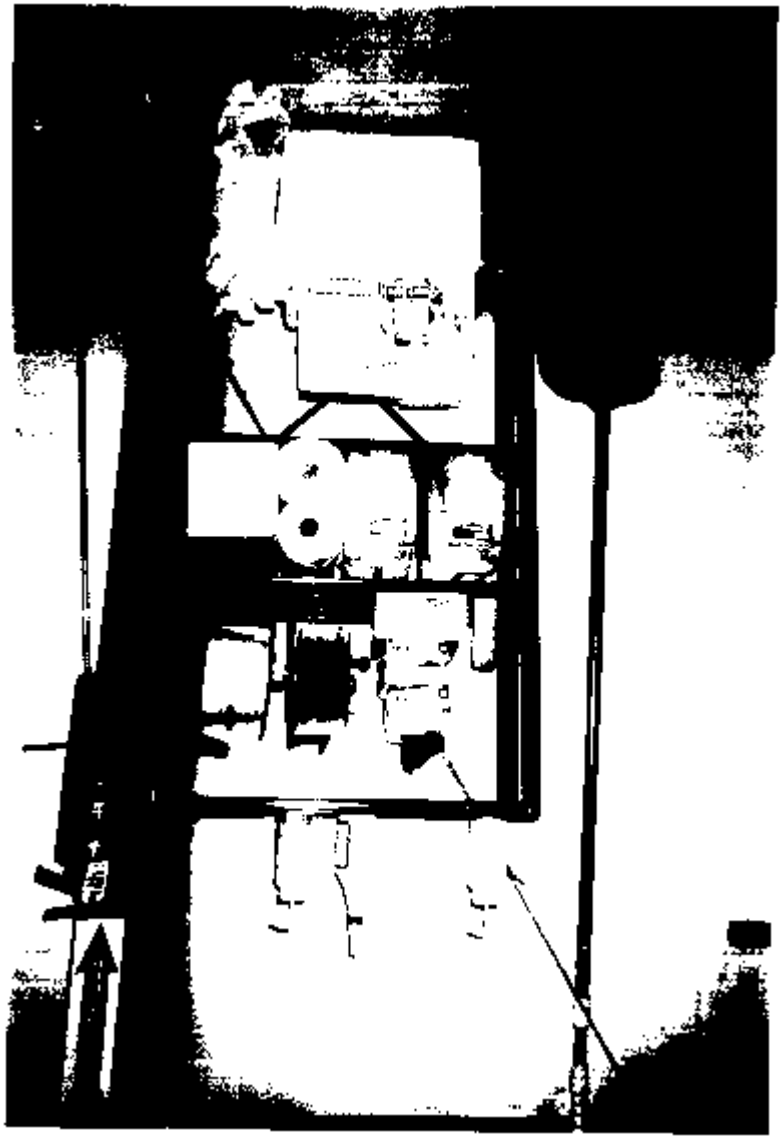


Pretreatment Fluid Station



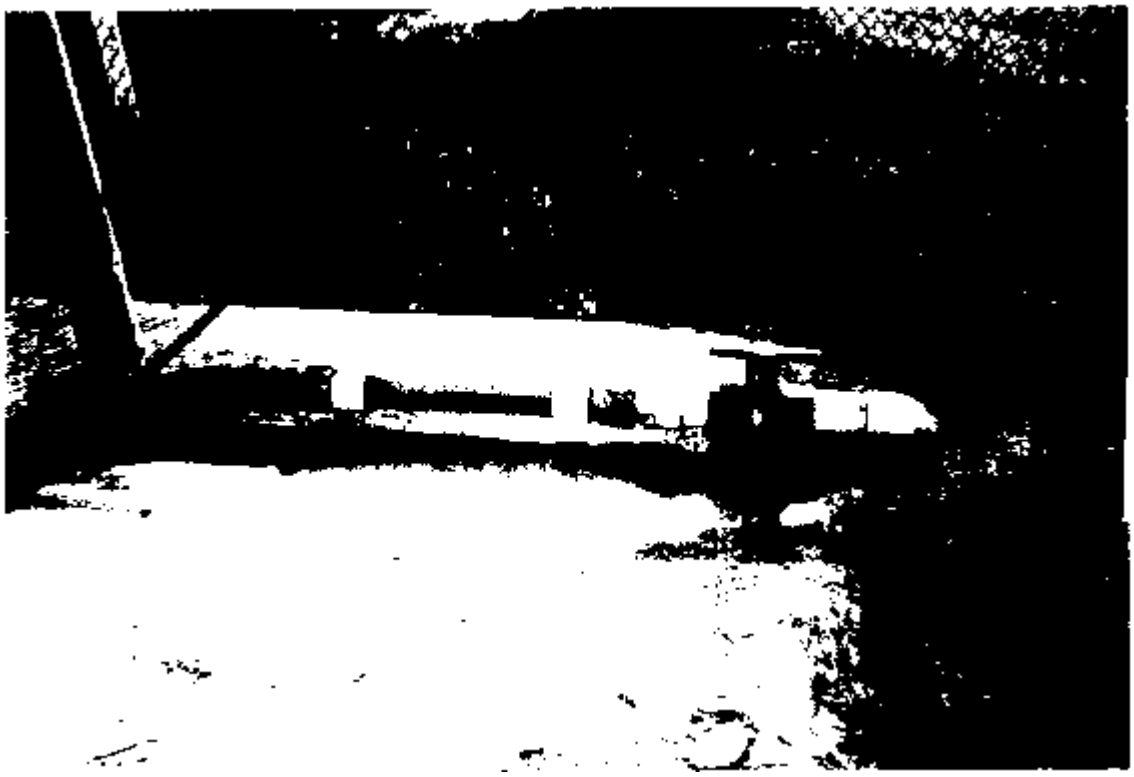
Blower

Used Bag Filter Drying



Supply Storage

Landfill Cap

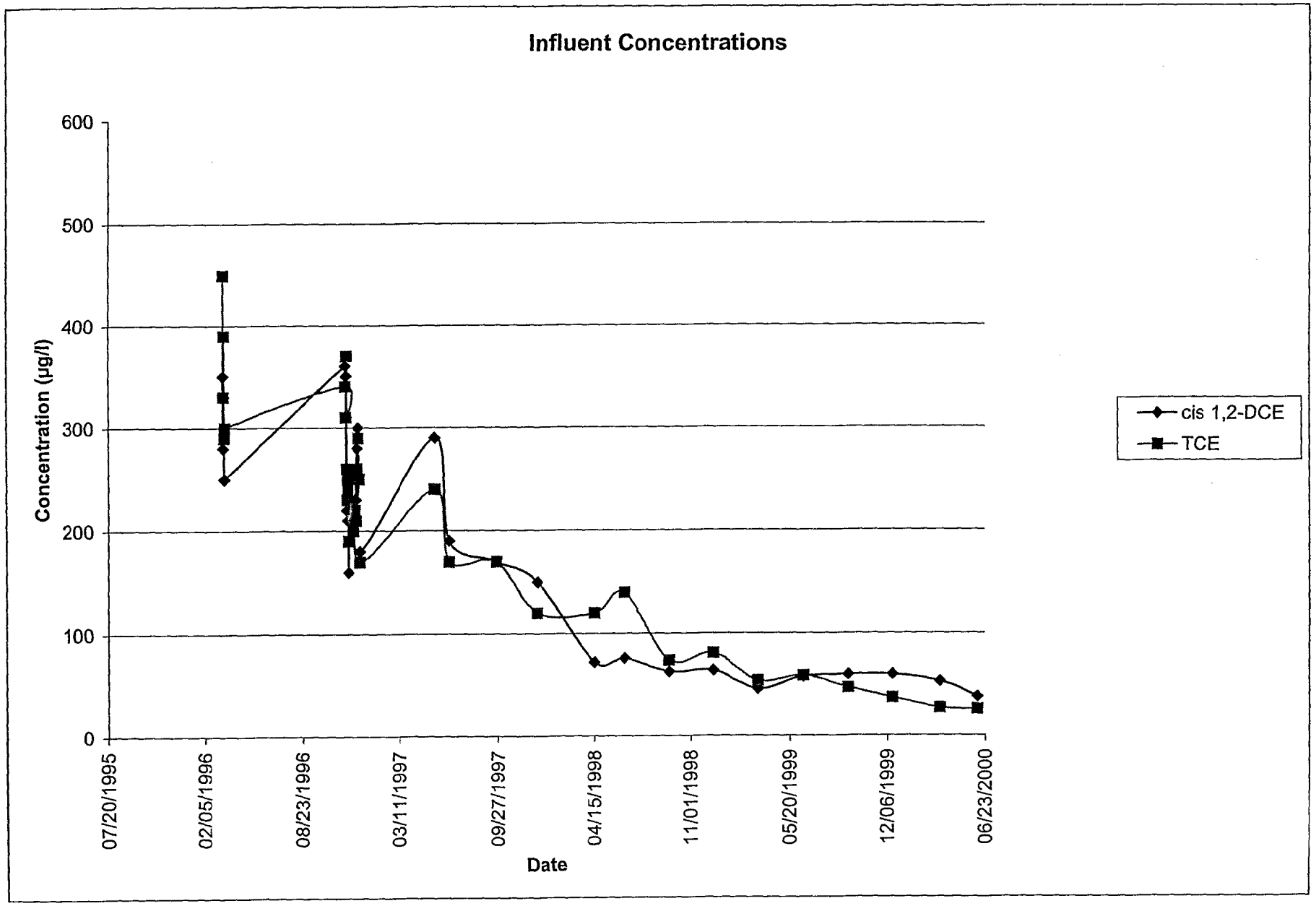


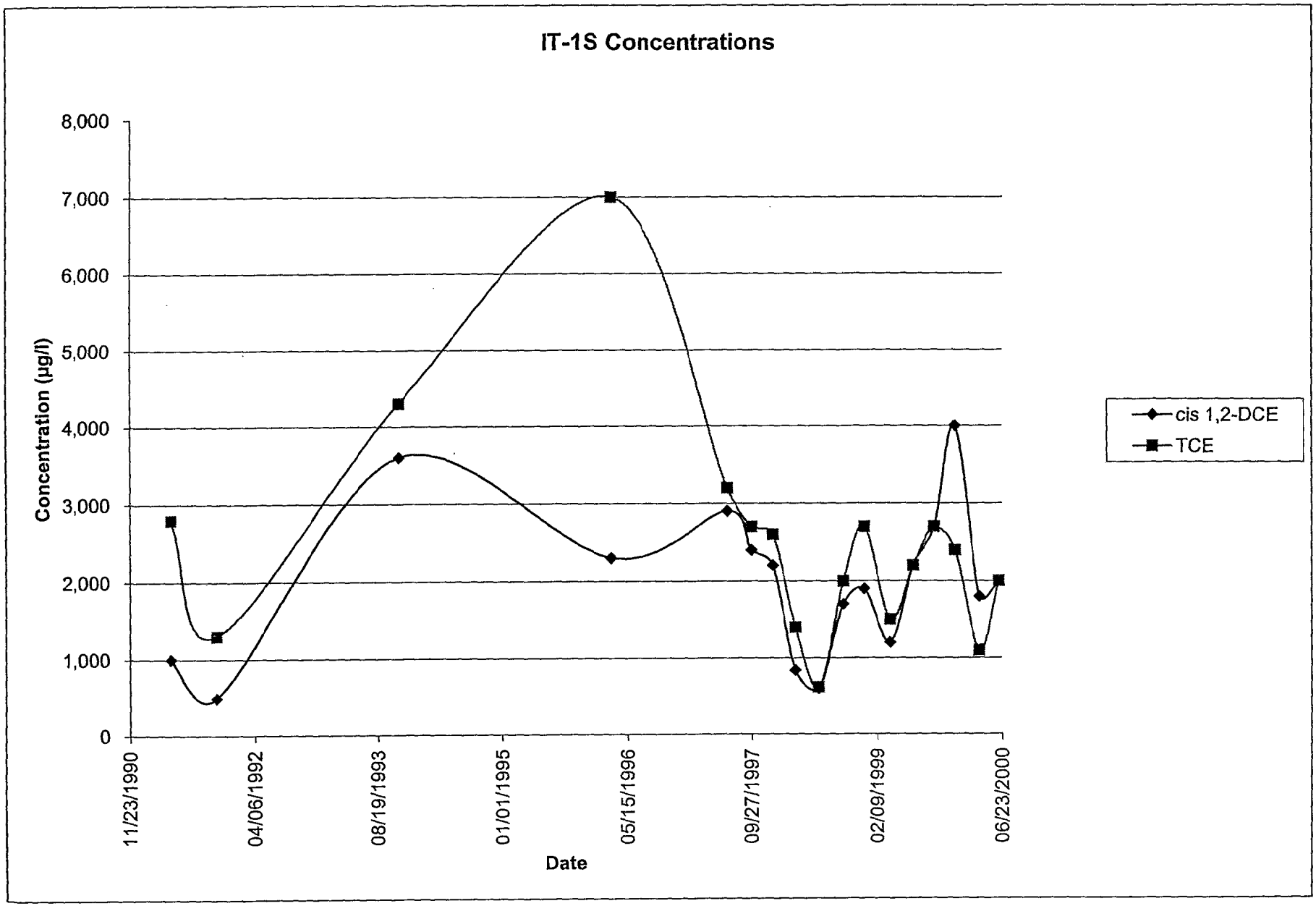
Bypass Pipe

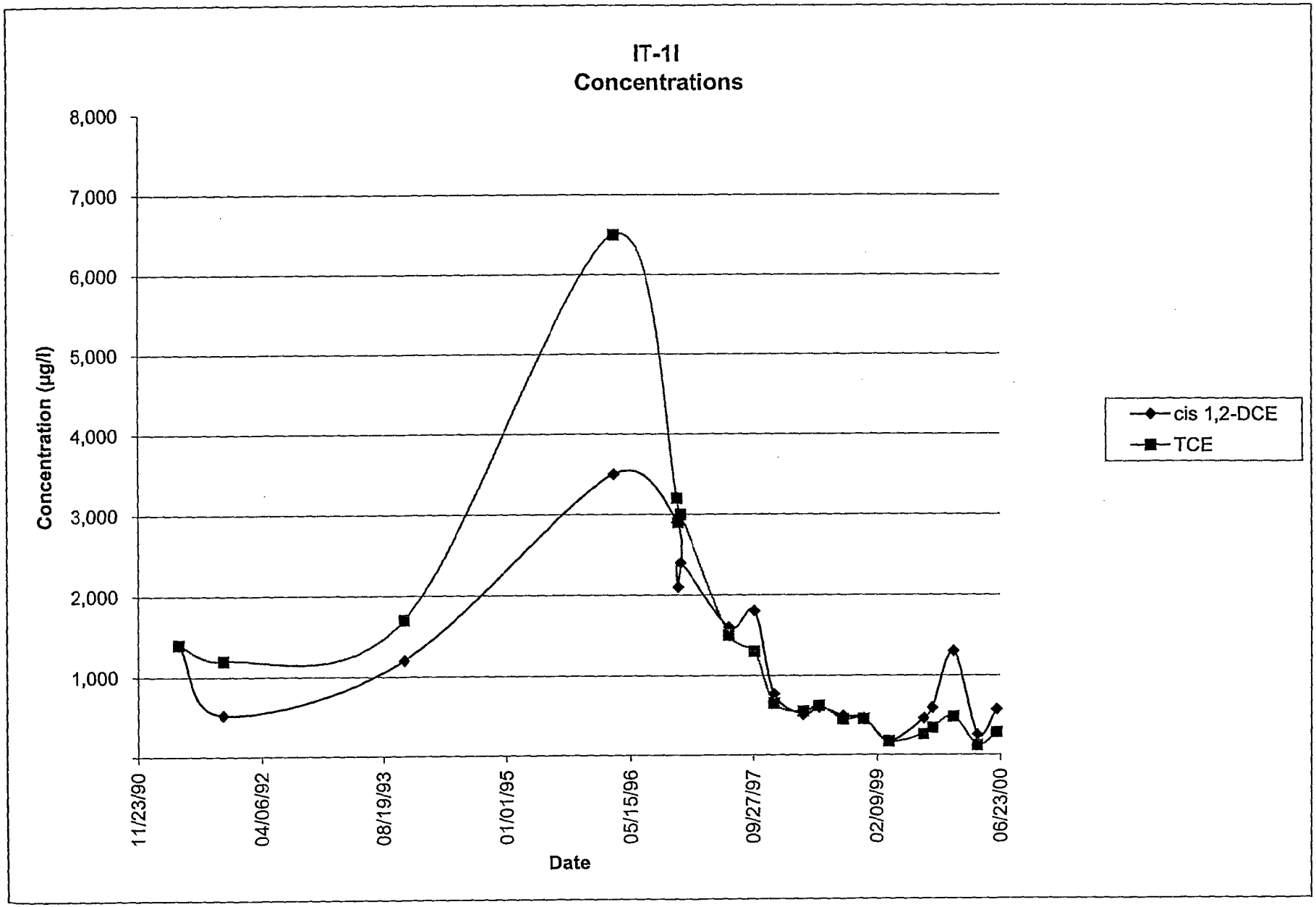
YTA Retention Pond

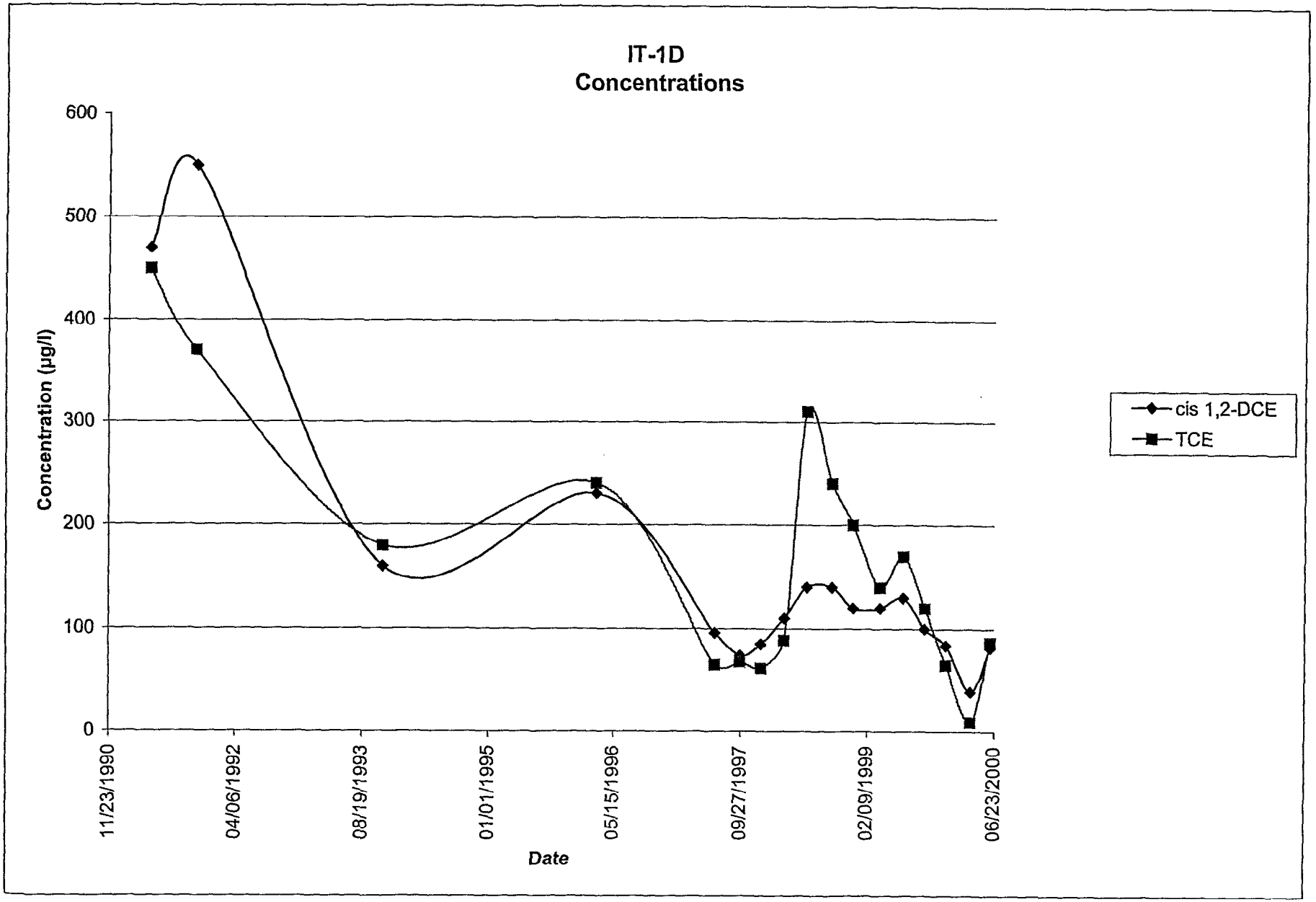
ATTACHMENT 3

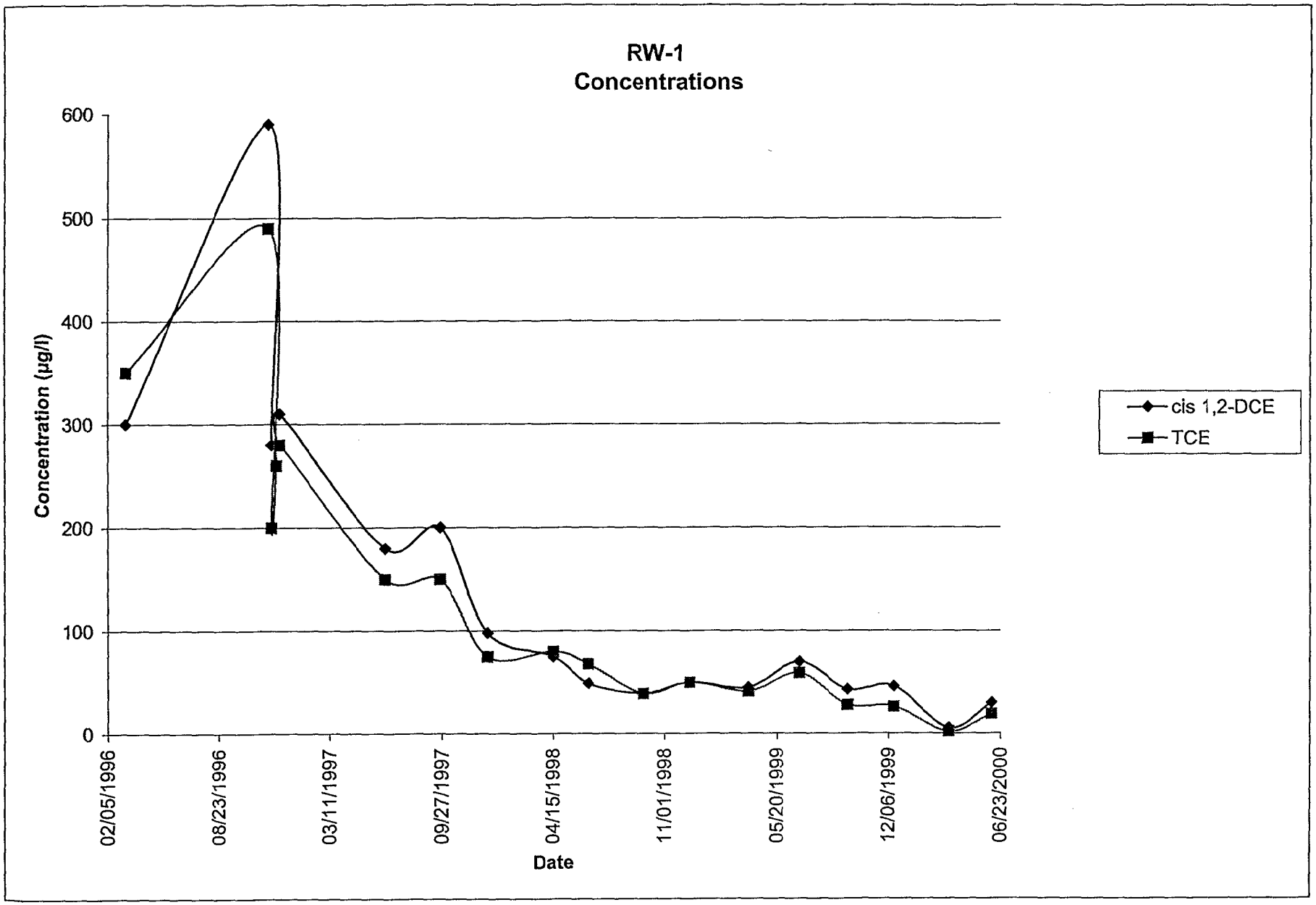
CHARTS COMPARING CIS1,2-DCE AND TCE CONCENTRATION TRENDS

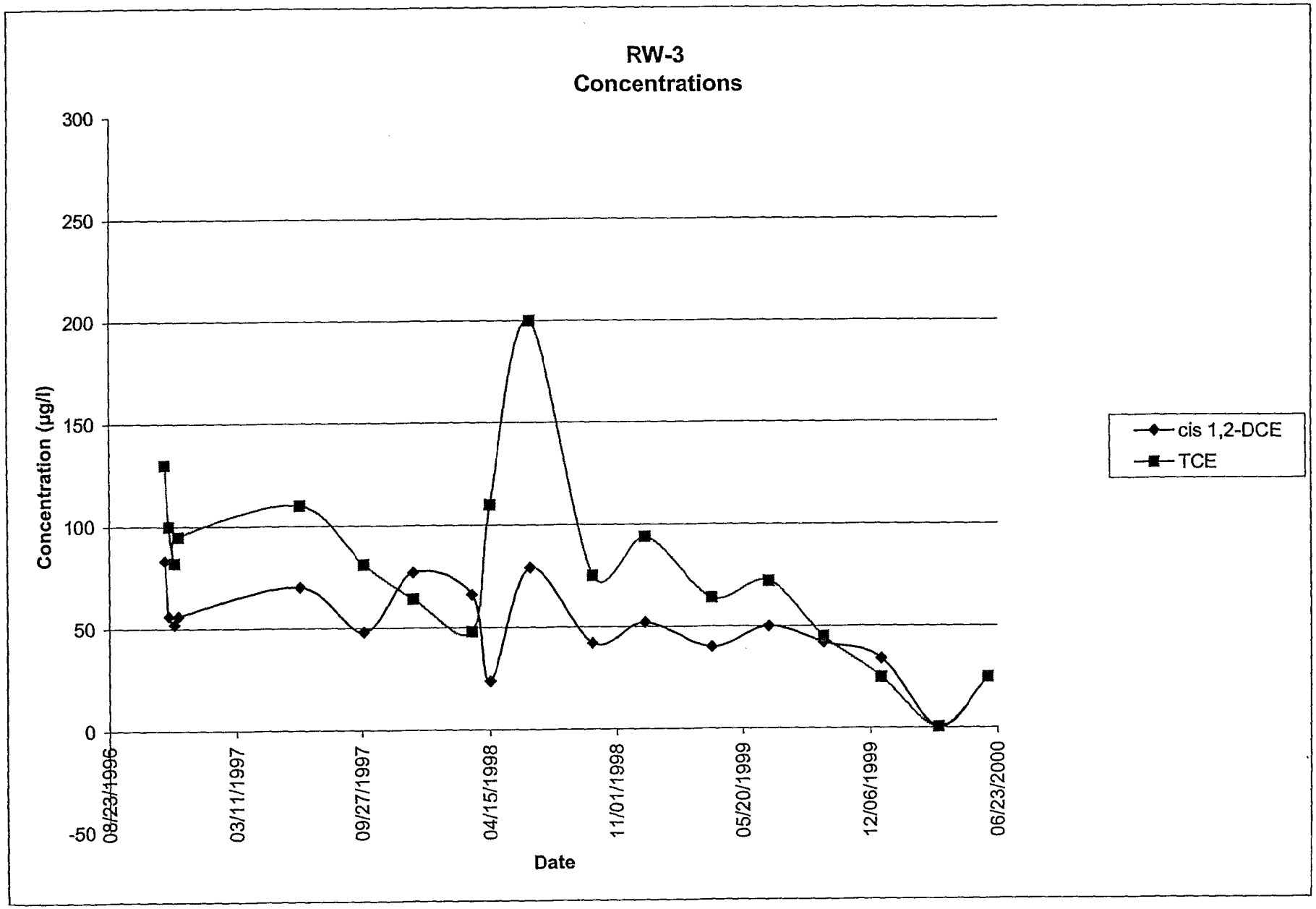

Influent Concentrations
Concentration (µg/l)
600
500
400
300
200
100
0
07/20/1995
02/05/1996
08/23/1996
03/11/1997
09/27/1997
04/15/1998
11/01/1998
05/20/1999
12/06/1999
06/23/2000
Date
cis 1,2-DCE
TCE

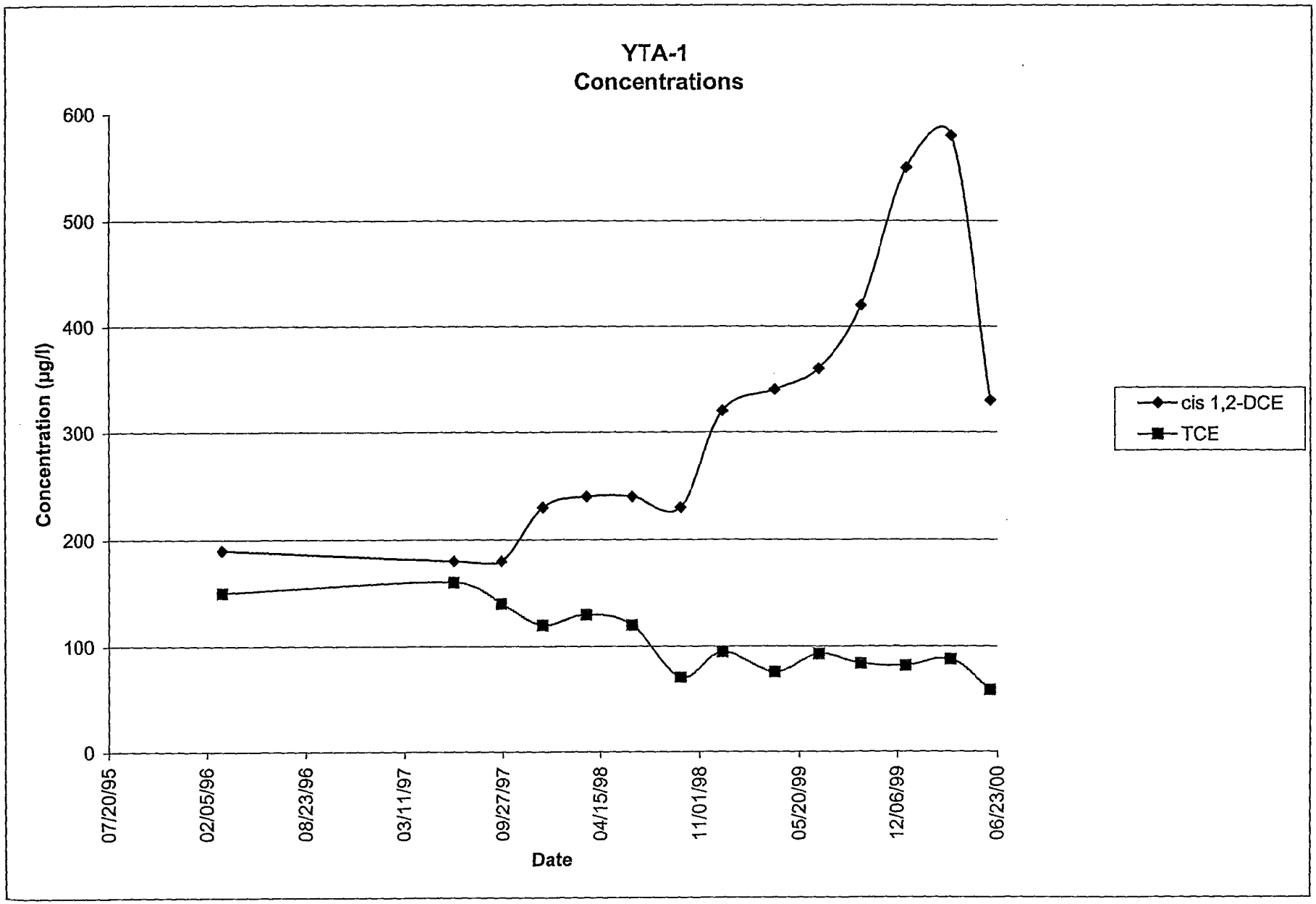

IT-1S Concentrations
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Concentration (µg/l)
11/23/1990
04/06/1992
08/19/1993
01/01/1995
05/15/1996
09/27/1997
02/09/1999
06/23/2000
Date
cis 1,2-DCE
TCE

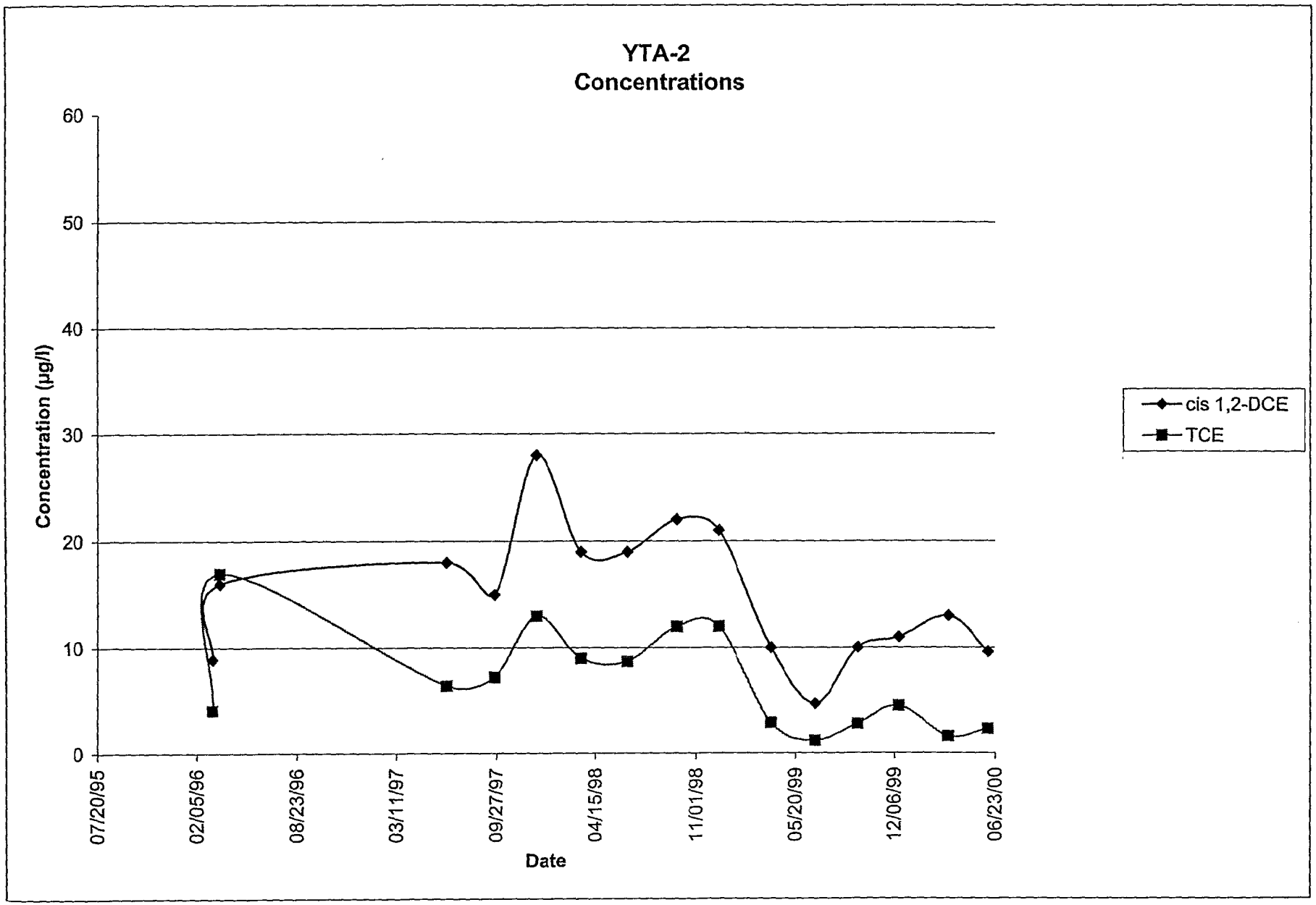

IT-1I
Concentrations
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
Concentration (µg/l)
11/23/90
04/06/92
08/19/93
01/01/95
05/15/96
09/27/97
02/09/99
06/23/00
Date
cis 1,2-DCE
TCE

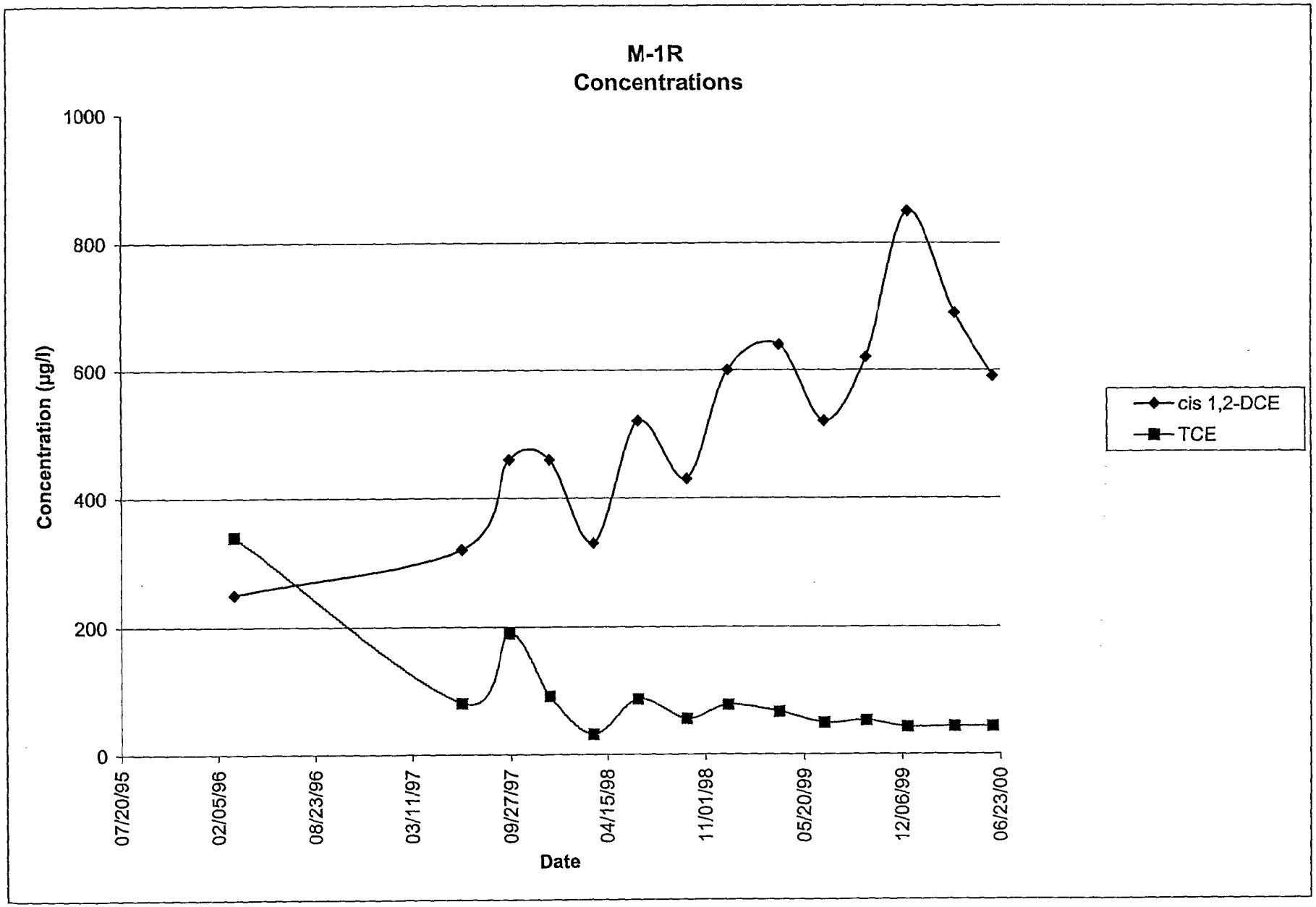

IT-1D
Concentrations
Concentration (µg/l)
600
500
400
300
200
100
0
11/23/1990
04/06/1992
08/19/1993
01/01/1995
05/15/1996
09/27/1997
02/09/1999
06/23/2000
Date
cis 1,2-DCE
TCE

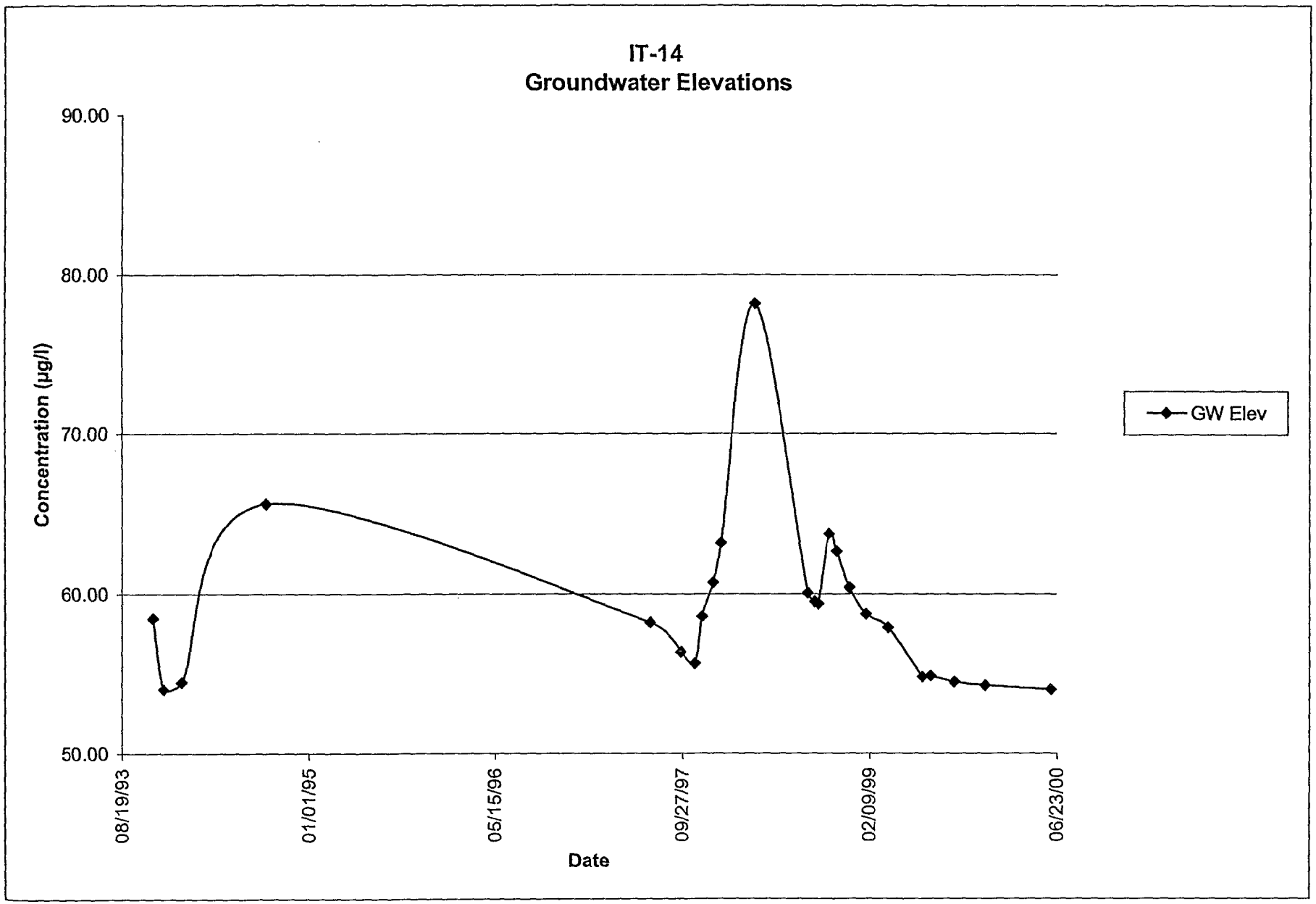

RW-1
Concentrations
Concentration (µg/l)
600
500
400
300
200
100
0
02/05/1996
08/23/1996
03/11/1997
09/27/1997
04/15/1998
11/01/1998
05/20/1999
12/06/1999
06/23/2000
Date
cis 1,2-DCE
TCE


RW-3
Concentrations
Concentration (µg/l)
300
250
200
150
100
50
0
-50
08/23/1996
03/11/1997
09/27/1997
04/15/1998
11/01/1998
05/20/1999
12/06/1999
06/23/2000
Date
cis 1,2-DCE
TCE


YTA-1
Concentrations
Concentration (µg/l)
600
500
400
300
200
100
0
07/20/95
02/05/96
08/23/96
03/11/97
09/27/97
04/15/98
11/01/98
05/20/99
12/06/99
06/23/00
Date
cis 1,2-DCE
TCE


YTA-2
Concentrations
Concentration (µg/l)
60
50
40
30
20
10
0
07/20/95
02/05/96
08/23/96
03/11/97
09/27/97
04/15/98
11/01/98
05/20/99
12/06/99
06/23/00
Date
cis 1,2-DCE
TCE


M-1R
Concentrations
Concentration (µg/l)
1000
800
600
400
200
0
07/20/95
02/05/96
08/23/96
03/11/97
09/27/97
04/15/98
11/01/98
05/20/99
12/06/99
06/23/00
Date
cis 1,2-DCE
TCE


IT-14
Groundwater Elevations
90.00
80.00
70.00
60.00
50.00
Concentration (µg/l)
08/19/93
01/01/95
05/15/96
09/27/97
02/09/99
06/23/00
Date
GW Elev

ATTACHMENT 4

HISTORICAL MCL TABLE

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
Off-Site												
IT-3S	04/24/91	-	-	-	-	-	-	-	NA	-	-	-
IT-3S	10/29/91	-	-	-	-	-	-	-	NA	-	-	-
IT-3S	06/18/97	-	-	-	-	NA	-	-	-	-	-	-
IT-3S	09/23/97	-	-	-	-	NA	-	-	-	-	-	-
IT-3S	12/16/97	-	-	-	-	NA	-	-	-	-	-	-
IT-3S	03/16/98	-	-	-	-	NA	-	-	-	-	-	-
IT-3S	06/15/98	-	-	-	-	NA	-	-	-	-	-	-
IT-3S	09/22/98	-	-	-	-	NA	-	-	-	-	-	-
IT-3S	12/15/98	-	-	-	-	NA	-	-	-	-	-	-
IT-3S	03/29/99	-	-	-	-	NA	-	-	-	-	-	-
IT-3S	03/16/00	-	-	-	-	NA	-	-	-	-	-	-
IT-31	04/24/91	-	-	-	-	-	-	-	NA	-	-	-
IT-31	10/30/91	-	-	-	-	-	-	-	NA	-	-	-
IT-31	06/18/97	-	-	-	-	NA	-	-	-	-	-	-
IT-31	09/23/97	-	-	-	-	NA	-	-	-	-	-	-
IT-31	12/16/97	-	-	-	-	NA	-	-	-	-	-	-
IT-31	03/16/98	-	-	-	-	NA	-	-	-	-	-	-
IT-31	06/15/98	-	-	-	-	NA	-	-	-	-	-	-
IT-31	09/22/98	-	-	-	-	NA	-	-	-	-	-	-
IT-31	12/15/98	-	-	-	-	NA	-	-	-	-	-	-
IT-31	03/29/99	-	-	-	-	NA	-	-	-	-	-	-
IT-31	03/16/00	-	-	-	-	NA	-	-	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
IT-3D	04/24/91	-	-	-	-	-	-	-	NA	-	-	-
IT-3D	10/30/91	-	-	-	-	-	-	-	NA	-	-	-
IT-3D	06/18/97	-	-	-	-	NA	-	-	-	-	-	-
IT-3D	09/23/97	-	-	-	-	NA	-	-	-	-	-	-
IT-3D	12/16/97	-	-	-	-	NA	-	-	-	-	-	-
IT-3D	03/16/98	-	-	-	-	NA	-	-	-	-	3.6	-
IT-3D	06/15/98	-	-	-	-	NA	-	-	-	-	3.2	-
IT-3D	09/22/98	-	-	-	-	NA	-	-	-	-	-	-
IT-3D	12/15/98	-	-	-	-	NA	-	-	-	-	3.2	-
IT-3D	03/29/99	-	-	-	-	NA	-	-	-	-	3.1	-
IT-3D	06/28/98	-	-	-	-	NA	-	-	-	-	3.1	-
IT-3D	09/22/99	-	-	-	-	NA	-	-	-	-	3.1	-
IT-3D	12/14/99	-	-	-	-	NA	-	-	-	-	-	-
IT-3D	03/20/00	-	-	-	-	NA	-	-	-	-	-	-
IT-3D	06/06/00	-	-	-	-	NA	-	-	-	-	-	-
IT-4S	04/22/91	-	-	-	-	NA	-	-	-	-	-	-
IT-4S	11/04/91	-	-	-	-	NA	-	-	-	-	-	-
IT-4S	06/17/97	-	-	-	-	NA	-	-	-	-	-	-
IT-4S	09/23/97	-	-	-	-	NA	-	-	-	-	-	-
IT-4S	12/16/97	-	-	-	-	NA	-	-	-	-	-	-
IT-4S	03/17/98	-	-	-	-	NA	-	-	-	-	-	-
IT-4S	06/16/98	-	-	-	-	NA	-	-	-	-	-	-
IT-4S	09/23/98	-	-	-	-	NA	-	-	-	-	-	-
IT-4S	12/15/98	-	-	-	-	NA	-	-	-	-	-	-
IT-4S	03/30/99	-	-	-	-	NA	-	-	-	-	-	-
IT-4S	03/15/00	-	-	-	-	NA	-	-	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
IT-41	04/24/91	-	-	-	-	-	-	-	-	N/A	-	-
IT-41	11/04/91	-	-	-	-	-	-	-	-	N/A	-	-
IT-41	06/17/97	-	-	-	-	-	N/A	-	-	-	-	-
IT-41	09/23/97	-	-	-	-	-	N/A	-	-	-	-	-
IT-41	12/16/97	-	-	-	-	-	N/A	-	-	-	-	-
IT-41	03/17/98	-	-	-	-	-	N/A	-	-	-	-	-
IT-41	06/16/98	-	-	-	-	-	N/A	-	-	-	-	-
IT-41	09/23/98	-	-	-	-	-	N/A	-	-	-	-	-
IT-41	12/15/98	-	-	-	-	-	N/A	-	-	-	-	-
IT-41	03/30/99	-	-	-	-	-	N/A	-	-	-	-	-
IT-41	03/15/00	-	-	-	-	-	N/A	-	-	-	-	-
IT-4D	04/22/91	-	-	-	-	-	-	-	-	N/A	-	-
IT-4D	11/04/91	-	-	-	-	-	-	-	-	N/A	-	-
IT-4D	06/17/97	-	-	-	-	-	N/A	-	-	-	-	-
IT-4D	09/23/97	-	-	-	-	-	N/A	-	-	-	-	-
IT-4D	12/16/97	-	-	-	-	-	N/A	-	-	-	-	-
IT-4D	03/17/98	-	-	-	-	-	N/A	-	-	-	-	-
IT-4D	06/16/98	-	-	-	-	-	N/A	-	-	-	-	-
IT-4D	09/23/98	-	-	-	-	-	N/A	-	-	-	-	-
IT-4D	12/15/98	-	-	-	-	-	N/A	-	-	-	-	-
IT-4D	03/30/99	-	-	-	-	-	N/A	-	-	-	-	-
IT-4D	03/15/00	-	-	-	-	-	N/A	-	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
IT-6S	04/23/91	-	-	-	-	NA	-	-	-	-	-	-
IT-6S	11/01/91	-	-	-	-	NA	-	-	-	-	-	-
IT-6S	06/17/97	-	-	-	-	NA	-	-	-	-	-	-
IT-6S	09/23/97	-	-	-	-	NA	-	-	-	-	-	-
IT-6S	12/15/97	-	-	-	-	NA	-	-	-	-	-	-
IT-6S	03/17/98	-	-	-	-	NA	-	-	-	-	-	-
IT-6S	06/16/98	-	-	-	-	NA	-	-	-	-	-	-
IT-6S	09/23/98	-	-	-	-	NA	-	-	-	-	-	-
IT-6S	12/15/98	-	-	-	-	NA	-	-	-	-	-	-
IT-6S	03/30/99	-	-	-	-	NA	-	-	-	-	-	-
IT-6S	03/15/00	-	-	-	-	NA	-	-	-	-	-	-
IT-6I	04/23/91	-	-	-	-	NA	-	-	-	-	-	-
IT-6I	11/01/91	-	-	-	-	NA	-	-	-	-	-	-
IT-6I	06/17/97	-	-	-	-	NA	-	-	-	-	-	-
IT-6I	09/23/97	-	-	-	-	NA	-	-	-	-	-	-
IT-6I	12/15/97	-	-	-	-	NA	-	-	-	-	-	-
IT-6I	03/17/98	-	-	-	-	NA	-	-	-	-	-	-
IT-6I	06/16/98	-	-	-	-	NA	-	-	-	-	-	-
IT-6I	09/23/98	-	-	-	-	NA	-	-	-	-	-	-
IT-6I	12/15/98	-	-	-	-	NA	-	-	-	-	-	-
IT-6I	03/30/99	-	-	-	-	NA	-	-	-	-	-	-
IT-6I	03/15/00	-	-	-	-	NA	-	-	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
IT-6D	04/23/91	-	-	-	-	NA	-	-	-	-	-	-
IT-6D	11/01/91	-	-	-	-	NA	-	-	-	-	-	-
IT-6D	06/17/97	-	-	-	-	NA	-	-	-	-	-	-
IT-6D	09/23/97	-	-	-	-	NA	-	-	-	-	-	-
IT-6D	12/15/97	-	-	-	-	NA	-	-	-	-	-	-
IT-6D	03/17/98	-	-	-	-	NA	-	-	-	-	-	-
IT-6D	06/16/98	-	-	-	-	NA	-	-	-	-	-	-
IT-6D	09/23/98	-	-	-	-	NA	-	-	-	-	-	-
IT-6D	12/15/98	-	-	-	-	NA	-	-	-	-	-	-
IT-6D	03/30/99	-	-	-	-	NA	-	-	-	-	-	-
IT-6D	03/15/00	-	-	-	-	NA	-	-	-	-	-	-
IT-7S	04/18/91	-	-	-	-	NA	-	-	-	-	-	-
IT-7S	11/01/91	-	-	-	-	NA	-	-	-	-	-	-
IT-7S	06/17/97	-	-	-	-	NA	-	-	-	-	-	-
IT-7S	09/22/97	-	-	-	-	NA	-	-	-	-	-	-
IT-7S	12/15/97	-	-	-	-	NA	-	-	-	-	-	-
IT-7S	03/16/98	-	-	-	-	NA	-	-	-	-	-	-
IT-7S	06/15/98	-	-	-	-	NA	-	-	-	-	-	-
IT-7S	09/22/98	-	-	-	-	NA	-	-	-	-	-	-
IT-7S	12/14/98	-	-	-	-	NA	-	-	-	-	-	-
IT-7S	03/29/99	-	-	-	-	NA	-	-	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
IT-71	04/18/91	-	-	-	-	NA	-	-	-	-	-	-
IT-71	11/01/91	-	-	-	-	NA	-	-	-	-	-	-
IT-71	06/17/97	-	-	-	-	NA	-	-	-	-	-	-
IT-71	09/22/97	-	-	-	-	NA	-	-	-	-	-	-
IT-71	12/15/97	-	-	-	-	NA	-	-	-	-	-	-
IT-71	03/16/98	-	-	-	-	NA	-	-	-	-	-	-
IT-71	06/15/98	-	-	-	-	NA	-	-	-	-	-	-
IT-71	09/22/98	-	-	-	-	NA	-	-	-	-	-	-
IT-71	12/14/98	-	-	-	-	NA	-	-	-	-	-	-
IT-71	03/29/99	-	-	-	-	NA	-	-	-	-	-	-
IT-71	03/16/00	-	-	-	-	NA	-	-	-	-	-	-
IT-7D	04/23/91	-	-	-	-	NA	-	-	-	-	-	-
IT-7D	10/25/91	-	-	-	-	NA	-	-	-	-	-	-
IT-7D	06/17/97	-	-	-	-	NA	-	-	-	-	-	-
IT-7D	09/22/97	-	-	-	-	NA	-	-	-	-	-	-
IT-7D	12/15/97	-	-	-	-	NA	-	-	-	-	-	-
IT-7D	03/16/98	-	-	-	-	NA	-	-	-	-	-	-
IT-7D	06/15/98	-	-	-	-	NA	-	-	-	-	-	-
IT-7D	09/22/98	-	-	-	-	NA	-	-	-	-	-	-
IT-7D	12/14/98	-	-	-	-	NA	-	-	-	-	-	-
IT-7D	03/29/99	-	-	-	-	NA	-	-	-	-	-	-
IT-7D	03/16/00	-	-	-	-	NA	-	-	-	-	-	-
IT-7D D	03/16/00	-	-	-	-	NA	-	-	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
On-Site												
IT-1S	05/08/91	5@	70@	65	-	1000	-	-	NA	120	2800	-
IT-1S	11/06/91	-	-	27	-	490	-	-	NA	75	1300	4
IT-1S	11/10/93	11	110	89	-	3600	-	-	NA	150	4300	16
IT-1S	03/08/96	-	-	-	-	2300	-	-	NA	290	7000	-
IT-1S	06/18/97	-	110	160	-	NA	-	-	2900	120	3200	42
IT-1S	09/24/97	-	80	150	-	NA	-	-	2400	52	2700	-
IT-1S	12/16/97	-	80	140	-	NA	-	-	2200	75	2600	-
IT-1S	03/18/98	-	-	53	-	NA	-	-	840	33	1400	-
IT-1S	06/17/98	-	82	160	-	NA	-	-	600	76	620	-
IT-1S	09/24/98	-	-	100	-	NA	-	-	1700	36	2000	-
IT-1S	12/16/98	-	80	140	-	NA	-	-	1900	54	2700	-
IT-1S	03/31/99	-	-	62	-	NA	-	-	1200	38	1500	-
IT-1S	06/29/99	-	-	84	-	NA	-	-	2200	41	2200	-
IT-1S	09/23/99	-	-	120	-	NA	-	-	2700	58	2700	-
IT-1S	12/15/99	-	72	230	-	NA	-	-	4000	110	2400	23
IT-1S	03/21/00	-	-	110	-	NA	-	-	1800	36	1100	23
IT-1S	06/07/00	-	-	100	-	NA	-	-	2000	53	2000	17
IT-1S D	06/07/00	-	-	110	-	NA	-	-	1900	54	1800	18

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
IT-II	05/08/91	-	-	33	-	1400	-	-	NA	60	1400	7
IT-II	11/06/91	-	-	24	-	520	-	-	NA	62	1200	5
IT-II	11/10/93	-	-	26	-	1200	-	-	NA	44	1700	6.8
IT-II	03/08/96	-	180	230	-	3500	-	-	NA	310	6500	-
IT-II	11/19/96	7.6	110	150	-	2900	-	-	NA	100	3200	32
IT-II	11/24/96	-	93	130	-	2100	-	-	NA	87	2900	-
IT-II	12/04/96	5.6	91	130	-	2400	-	-	NA	74	3000	32
IT-II	06/18/97	-	-	88	-	NA	-	-	1600	-	1500	32
IT-II	09/30/97	-	-	-	-	NA	-	-	1800	-	1300	-
IT-II	12/17/97	-	-	40	-	NA	-	-	770	-	650	-
IT-II	04/15/98	-	-	26	-	NA	-	-	510	-	550	-
IT-II	06/17/98	-	-	34	-	NA	-	-	600	-	620	-
IT-II	09/24/98	-	-	26	-	NA	-	-	490	-	450	-
IT-II	12/16/98	-	-	26	-	NA	-	-	460	-	450	-
IT-II	03/31/99	-	-	7.1	-	NA	-	-	170	-	170	-
IT-II	08/18/99	-	-	-	-	NA	-	-	460	-	260	-
IT-II	09/23/99	-	-	-	-	NA	-	-	590	-	340	-
IT-II	12/15/99	-	-	37	-	NA	-	-	1300	10	480	9.3
IT-II	03/21/00	-	-	12	-	NA	-	-	250	4	120	4.4
IT-II	03/21/00	-	-	8.9	-	NA	-	-	330	3@	150	3
IT-II	06/07/00	-	-	18	-	NA	-	-	570	4	280	6.8

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
IT-1D	05/08/91	-	-	15	-	470	-	-	NA	3@	450	24
IT-1D	11/06/91	-	-	22	-	550	-	-	NA	4	370	42
IT-1D	11/10/93	-	-	8	-	160	-	-	NA	-	180	15
IT-1D	03/08/96	-	-	-	-	230	-	-	NA	-	240	20
IT-1D	06/18/97	-	-	-	-	NA	-	-	96	-	65	4.1
IT-1D	09/24/97	-	-	-	-	NA	-	-	74	-	68	5.9
IT-1D	12/16/97	-	-	-	-	NA	-	-	85	-	62	9.6
IT-1D	03/18/98	-	-	-	-	NA	-	-	110	-	89	3.8
IT-1D	06/17/98	-	-	7.1	-	NA	-	-	140	-	310	9.2
IT-1D	09/24/98	-	-	-	-	NA	-	-	140	-	240	13
IT-1D	12/16/98	-	-	-	-	NA	-	-	120	-	200	10
IT-1D	03/31/99	-	-	-	-	NA	-	-	120	-	140	12
IT-1D	06/29/99	-	-	-	-	NA	-	-	130	-	170	14
IT-1D	09/23/99	-	-	-	-	NA	-	-	100	-	120	7.4
IT-1D	12/15/99	-	-	-	-	NA	-	-	84	-	65	8.2
IT-1D	03/21/00	-	-	-	-	NA	-	-	-	-	9.5	2
IT-1D	06/07/00	-	-	-	-	NA	-	-	82	-	87	7.1
IT-13I	04/19/91	-	-	-	-	-	-	-	NA	-	-	-
IT-13I	10/25/91	-	-	-	-	-	-	-	NA	-	-	-
IT-13I	12/19/91	-	-	-	-	-	-	-	NA	-	-	-
IT-13I	06/17/97	-	-	-	-	NA	-	-	-	-	-	-
IT-13I	09/22/97	-	-	-	-	NA	-	-	-	-	-	-
IT-13I	12/15/97	-	-	-	-	NA	-	-	-	-	-	-
IT-13I	03/16/98	-	-	-	-	NA	-	-	-	-	-	-
IT-13I	06/15/98	-	-	-	-	NA	1.2	-	-	-	-	-
IT-13I	09/22/98	-	-	-	-	NA	-	-	-	-	-	-
IT-13I	12/14/98	-	-	-	-	NA	-	-	-	-	-	-
IT-13I	03/29/99	-	-	-	-	NA	-	-	-	-	-	-
IT-13I	06/28/99	-	-	-	-	NA	-	-	-	-	-	-
IT-13I	09/22/99	-	-	-	-	NA	-	-	-	-	-	-
IT-13I	12/14/99	-	-	-	-	NA	-	-	-	-	-	-
IT-13I	03/20/00	-	-	-	-	NA	-	-	-	-	-	-
IT-13I	06/06/00	-	-	-	-	NA	-	-	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
IT-14S	11/06/91	-	-	-	-	-	-	-	NA	-	-	-
IT-14S	03/07/96	-	-	-	-	-	-	-	NA	-	-	-
IT-14S	06/17/97	-	-	-	-	NA	-	-	-	-	-	-
IT-14S	09/22/97	-	-	-	-	NA	-	-	-	-	-	-
IT-14S	12/15/97	-	-	-	-	NA	-	-	-	-	-	-
IT-14S	03/16/98	-	-	-	-	NA	-	-	-	-	-	-
IT-14S	06/15/98	-	-	-	-	NA	-	-	-	-	-	-
IT-14S	09/22/98	-	-	-	-	NA	-	-	-	-	-	-
IT-14S	12/14/98	-	-	-	-	NA	-	-	-	-	-	-
IT-14S	03/29/99	-	-	-	-	NA	-	-	-	-	-	-
IT-14S	06/28/99	-	-	-	-	NA	-	-	-	-	-	-
IT-14S	09/22/99	-	-	-	-	NA	-	-	-	-	-	-
IT-14S	12/14/99	-	-	-	-	NA	-	-	-	-	-	-
IT-14S	03/20/00	-	-	-	-	NA	-	-	-	-	-	-
IT-14S	06/06/00	-	-	-	-	NA	-	-	-	-	-	-
YTA-1	03/07/96	-	-	-	-	190	-	-	NA	-	150	22
YTA-1	06/08/97	-	-	-	-	NA	-	-	180	-	160	30
YTA-1	09/23/97	-	-	-	-	NA	-	-	180	-	140	24
YTA-1	12/17/97	-	-	-	-	NA	-	-	230	-	120	33
YTA-1	03/17/98	-	-	-	-	NA	-	-	240	-	130	43
YTA-1	06/17/98	-	-	-	-	NA	-	-	240	-	120	32
YTA-1	09/23/98	-	-	-	-	NA	-	-	230	-	71	24
YTA-1	12/16/98	-	-	-	-	NA	-	-	320	-	95	51
YTA-1	03/30/99	-	-	-	-	NA	-	-	340	-	76	37
YTA-1	06/28/99	-	-	-	-	NA	-	-	360	-	93	51
YTA-1	09/22/99	-	-	-	-	NA	-	-	420	-	84	42
YTA-1	12/14/99	-	-	-	-	NA	-	-	550	-	82	39
YTA-1 D	12/14/99	-	-	-	-	NA	-	-	560	-	97	46
YTA-1	03/21/00	-	-	-	-	NA	-	-	700	-	79	87
YTA-1 D	03/21/00	-	-	-	-	NA	-	-	460	-	86	89
YTA-1	06/08/00	-	-	-	-	NA	-	-	330	-	59	45

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
YTA-2	03/07/96	-	-	-	-	-	-	-	NA	-	4.1	-
YTA-2	03/22/96	-	-	-	-	-	-	-	NA	-	17	-
YTA-2	06/18/97	-	-	-	-	NA	-	-	-	-	6.4	-
YTA-2	09/23/97	-	-	-	-	NA	-	-	-	-	7.2	1.1
YTA-2	12/17/97	-	-	-	-	NA	-	-	-	-	13	2.2
YTA-2	03/17/98	-	-	-	-	NA	-	-	-	-	9	1.3
YTA-2	06/17/98	-	-	-	-	NA	-	-	-	-	8.7	1.2
YTA-2	09/23/98	-	-	-	-	NA	-	-	-	-	12	2
YTA-2	12/16/98	-	-	-	-	NA	-	-	-	-	12	1.4
YTA-2	03/30/99	-	-	-	-	NA	-	-	-	-	-	-
YTA-2	06/28/99	-	-	-	-	NA	-	-	-	-	-	-
YTA-2	09/22/99	-	-	-	-	NA	-	-	-	-	-	1.1
YTA-2	12/14/99	-	-	-	-	NA	-	-	-	-	4.5	1.9
YTA-2	03/21/00	-	-	-	-	NA	-	-	-	-	-	-
YTA-2	06/28/00	-	-	-	-	NA	-	-	-	-	-	-
M-1R	03/08/96	-	-	-	-	250	-	-	NA	-	340	2.2
M-1R	06/18/97	-	-	-	-	NA	-	-	320	-	81	52
M-1R	09/24/97	-	-	-	-	NA	-	-	460	-	190	-
M-1R	12/16/97	-	-	-	-	NA	-	-	460	-	92	20
M-1R	03/17/98	-	-	-	-	NA	-	-	330	-	32	25
M-1R	06/17/98	-	-	-	-	NA	-	-	520	-	87	12
M-1R	09/24/98	-	-	-	-	NA	-	-	430	-	56	14
M-1R	12/16/98	-	-	-	-	NA	-	-	600	-	78	16
M-1R	03/30/99	-	-	-	-	NA	-	-	640	-	67	15
M-1R	06/29/99	-	-	-	-	NA	-	-	520	-	50	15
M-1R	09/23/99	-	-	-	-	NA	-	-	620	-	53	16
M-1R	12/16/99	-	-	-	-	NA	-	-	850	-	43	11
M-1R	03/21/00	-	-	-	-	NA	-	-	690	-	44	28
M-1R	06/07/00	-	-	-	-	NA	-	-	590	-	44	17

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
RW-1	03/08/96	-	-	14	-	300	-	-	NA	-	350	-
RW-1	11/19/96	-	-	20	-	590	-	-	NA	8.8	490	17
RW-1	11/25/96	-	-	11	-	280	-	-	NA	-	200	8.8
RW-1	12/04/96	-	-	13	-	280	-	-	NA	-	260	10
RW-1	12/10/96	-	-	14	-	310	-	-	NA	4.7	280	9.4
RW-1	06/19/97	-	-	9	-	NA	-	-	180	-	150	5.2
RW-1	09/24/97	-	-	9.6	-	NA	-	-	200	-	150	6.6
RW-1	12/17/97	-	-	-	-	NA	-	-	98	-	750	-
RW-1	04/15/98	-	-	-	-	NA	-	-	75	-	80	-
RW-1	06/17/98	-	-	-	-	NA	-	-	-	-	68	-
RW-1	09/24/98	-	-	-	-	NA	-	-	-	-	39	-
RW-1	12/16/98	-	-	-	-	NA	-	-	-	-	50	3.4
RW-1	03/31/99	-	-	-	-	NA	-	-	-	-	41	2
RW-1	06/29/99	-	-	-	-	NA	-	-	70@	-	59	2.7
RW-1	09/23/99	-	-	-	-	NA	-	-	-	-	28	1.7
RW-1	12/15/99	-	-	-	-	NA	-	-	-	-	26	-
RW-1	06/22/00	-	-	-	-	NA	-	-	-	-	-	-
RW-1	06/07/00	-	-	-	-	NA	-	-	-	-	19	-
RW-1 D	06/07/00	-	-	-	-	NA	-	-	-	-	19	-
RW-3R	04/15/98	-	-	-	-	NA	-	-	-	-	110	-
RW-3R	06/17/98	-	-	-	-	NA	-	-	79	-	200	6.3
RW-3R	09/24/98	-	-	-	-	NA	-	-	-	-	75	7.6
RW-3R	12/16/98	-	-	-	-	NA	-	-	-	-	94	8.1
RW-3R	03/31/99	-	-	-	-	NA	-	-	-	-	64	4.9
RW-3R	06/28/99	-	-	-	-	NA	-	-	-	-	72	5.5
RW-3R	09/23/99	-	-	-	-	NA	-	-	-	-	45	4.3
RW-3R	12/15/99	-	-	-	-	NA	-	-	-	-	25	2.4
RW-3R	03/22/00	-	-	-	-	NA	-	-	-	-	-	-
RW-3R	06/07/00	-	-	-	-	NA	-	-	-	-	25	2.4

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
RW-3	11/19/96	-	-	-	-	-	83	-	-	-	130	15
RW-3	11/25/96	-	-	-	-	-	-	-	-	-	100	9.4
RW-3	12/04/96	-	-	-	-	-	-	-	-	-	82	11
RW-3	12/10/96	-	-	-	-	-	-	2	-	-	95	9.1
RW-3	06/19/97	-	-	-	-	-	NA	-	-	-	110	9.3
RW-3	09/30/97	-	-	-	-	-	NA	-	-	-	81	-
RW-3	12/17/97	-	-	-	-	-	NA	-	-	-	64	9.8
RW-3	03/18/98	-	-	-	-	-	NA	-	-	-	48	4.5
Private												
PW-32 C.Bochina	03/25/95	-	-	-	-	-	-	-	-	-	-	-
PW-32 C.Bochina	06/15/95	-	-	-	-	-	-	-	-	-	-	-
PW-32 C.Bochina	09/08/95	-	-	-	-	-	-	-	-	-	-	-
PW-32 C.Bochina	12/21/95	-	-	-	-	-	-	-	-	-	-	-
PW-32 C.Bochina	03/18/96	-	-	-	-	-	-	-	-	-	-	-
PW-32 C.Bochina	06/10/98	-	-	-	-	-	-	-	-	-	-	-
PW-32 C.Bochina	09/05/96	-	-	-	-	-	-	-	-	-	-	-
PW-32 C.Bochina	12/09/96	-	-	-	-	-	-	-	-	-	-	-
PW-32 C.Bochina	03/17/97	-	-	-	-	-	-	-	-	-	-	-
PW-32 C.Bochina	06/18/97	-	-	-	-	-	NA	-	-	-	-	-
PW-32 C.Bochina	06/15/98	-	-	-	-	-	NA	-	-	-	-	-
PW-32 C.Bochina	06/28/99	-	-	-	-	-	NA	-	-	-	-	-
PW-32 C.Bochina	03/22/00	-	-	-	-	-	NA	-	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
PW-34 Horne	03/29/95	-	-	-	-	-	-	-	NA	-	-	-
PW-34 Horne	06/15/95	-	-	-	-	-	-	-	NA	-	-	-
PW-34 Horne	09/08/98	-	-	-	-	-	-	-	NA	-	-	-
PW-34 Horne	12/21/95	-	-	-	-	-	-	-	NA	-	-	-
PW-34 Horne	03/18/96	-	-	-	-	-	-	-	NA	-	-	-
PW-34 Horne	06/10/96	-	-	-	-	-	-	-	NA	-	-	-
PW-34 Horne	09/05/96	-	-	-	-	-	-	-	NA	-	-	-
PW-34 Horne	12/09/96	-	-	-	-	-	-	-	NA	-	-	-
PW-34 Horne	03/17/97	-	-	-	-	-	-	-	NA	-	-	-
PW-34 Horne	06/17/97	-	-	-	-	NA	-	-	-	-	-	-
PW-34 Horne	06/15/98	-	-	-	-	NA	-	-	-	-	-	-
PW-34 Horne	06/28/99	-	-	-	-	NA	-	-	-	-	-	-
PW-34 Horne	03/22/00	-	-	-	-	NA	-	-	-	-	-	-
PW-32 F.Bochina	03/29/95	-	-	-	-	-	-	-	NA	-	3.1	-
PW-32 F.Bochina	01/22/96	-	-	-	-	-	-	-	NA	-	4.5	1.2
PW-32 F.Bochina	03/18/96	-	-	-	-	-	-	-	NA	-	5	-
PW-32 F.Bochina	06/10/96	-	-	-	-	-	-	-	NA	-	6	1.7
PW-32 F.Bochina	09/05/96	-	-	-	-	-	-	-	NA	-	5.7	1.6
PW-32 F.Bochina	12/09/96	-	-	-	-	-	-	-	NA	-	4.6	1.8
PW-32 F.Bochina	03/17/97	-	-	-	-	-	-	-	NA	-	-	-
PW-32 F.Bochina	06/18/97	-	-	-	-	NA	-	-	-	-	3.2	-
PW-32 F.Bochina	09/22/97	-	-	-	-	NA	-	-	-	-	3@	-
PW-32 F.Bochina	12/15/97	-	-	-	-	NA	-	-	-	-	-	-
PW-32 F.Bochina	03/16/98	-	-	-	-	NA	-	-	-	-	3.6	-
PW-32 F.Bochina	06/15/98	-	-	-	-	NA	-	-	-	-	3.5	-
PW-32 F.Bochina	09/22/98	-	-	-	-	NA	-	-	-	-	3.3	-
PW-32 F.Bochina	12/14/98	-	-	-	-	NA	-	-	-	-	4	-
PW-32 F.Bochina	03/29/99	-	-	-	-	NA	-	-	-	-	3.7	-
PW-32 F.Bochina	06/28/99	-	-	-	-	NA	-	-	-	-	3.6	-
PW-32 F.Bochina	12/14/98	-	-	-	-	NA	-	-	-	-	-	-
PW-32 F.Bochina	03/22/00	-	-	-	-	NA	-	-	-	-	-	-
PW-32 F.Bochina	06/06/00	-	-	-	-	NA	-	-	-	-	-	1@

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
PW-37 Browing	03/29/95	-	-	-	-	-	-	-	NA	-	-	-
PW-37 Browing	06/15/95	-	-	-	-	-	-	-	NA	-	-	-
PW-37 Browing	09/08/95	-	-	-	-	-	-	-	NA	-	-	-
PW-37 Browing	12/21/95	-	-	-	-	-	-	-	NA	-	-	-
PW-37 Browing	03/18/96	-	-	-	-	-	-	-	NA	-	-	-
PW-37 Browing	06/10/96	-	-	-	-	-	-	-	NA	-	-	-
PW-37 Browing	09/05/96	-	-	-	-	-	-	-	NA	-	-	-
PW-37 Browing	12/09/96	-	-	-	-	-	-	-	NA	-	-	-
PW-37 Browing	03/17/97	-	-	-	-	-	-	-	NA	-	-	-
PW-37 Browing	06/17/97	-	-	-	-	NA	-	-	-	-	-	-
PW-37 Browing	06/15/98	-	-	-	-	NA	-	-	-	-	-	-
PW-37 Browing	06/28/99	-	-	-	-	NA	-	-	-	-	-	-
PW-37 Browing	03/22/00	-	-	-	-	NA	-	-	-	-	-	-
PW-89 Donaldson	03/29/95	-	-	-	-	-	-	-	NA	-	-	-
PW-89 Donaldson	06/15/95	-	-	-	-	-	-	-	NA	-	3.6	-
PW-89 Donaldson	09/08/95	-	-	-	-	-	-	-	NA	-	3.1	-
PW-89 Donaldson	12/21/95	-	-	-	-	-	-	-	NA	-	3.6	-
PW-89 Donaldson	03/18/96	-	-	-	-	-	-	-	NA	-	3.2	-
PW-89 Donaldson	06/10/96	-	-	-	-	-	-	-	NA	-	-	-
PW-89 Donaldson	09/05/96	-	-	-	-	-	-	-	NA	-	3.4	-
PW-89 Donaldson	12/09/96	-	-	-	-	-	-	-	NA	-	3.1	-
PW-89 Donaldson	03/17/97	-	-	-	-	-	-	-	NA	-	-	-
PW-89 Donaldson	06/18/97	-	-	-	-	NA	-	-	-	-	-	-
PW-89 Donaldson	09/22/97	-	-	-	-	NA	-	-	-	-	-	-
PW-89 Donaldson	12/15/97	-	-	-	-	NA	-	-	-	-	-	-
PW-89 Donaldson	03/16/98	-	-	-	-	NA	-	-	-	-	-	-
PW-89 Donaldson	06/15/98	-	-	-	-	NA	-	-	-	-	-	-
PW-89 Donaldson	09/22/98	-	-	-	-	NA	-	-	-	-	-	-
PW-89 Donaldson	12/14/98	-	-	-	-	NA	-	-	-	-	-	-
PW-89 Donaldson	06/28/99	-	-	-	-	NA	-	-	-	-	-	-
PW-89 Donaldson	03/22/00	-	-	-	-	NA	-	-	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
QAQC												
EQUBLK	12/15/99	-	-	-	-	NA	-	-	-	-	-	-
EQUBLK	06/08/88	-	-	-	-	NA	-	-	-	-	-	-
									-	-	-	-
EQUBLK1	03/16/00	-	-	-	-	NA	-	-	-	-	-	-
					-				-	-	-	-
EQUBLK2	03/22/00	-	-	-	-	NA	-	5	-	-	20	3.5
									-	-	-	-
TRIP1	12/15/99	-	-	-	-	NA	-	-	-	-	-	-
TRIP1	03/16/00	-	-	-	-	NA	-	-	-	-	-	-
TRIP1	06/07/00	-	-	-	-	NA	-	-	-	-	-	-
									-	-	-	-
TRIP2	12/16/99	-	-	-	-	NA	-	-	-	-	-	-
TRIP2	03/21/00	-	-	-	-	NA	-	-	-	-	-	-
TRIP2	06/08/00	-	-	-	-	NA	-	-	-	-	-	-
									-	-	-	-
TRIP3	03/22/00	-	-	-	-	NA	-	-	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
Treatment System												
INF-1	03/13/96	-	-	-	-	NA	-	NA	350	-	450	-
INF-2	03/14/96	-	-	-	-	NA	-	NA	280	-	330	-
INF-3	03/15/96	-	-	-	-	NA	-	NA	330	-	390	-
INF-4	03/16/96	-	-	-	-	NA	-	NA	250	-	290	-
INF-5	03/17/96	-	-	-	-	NA	-	NA	250	-	300	-
INF-6	11/19/96	-	-	12	-	NA	-	NA	360	5.7	340	13
INF-7	11/20/96	-	-	16	-	NA	-	NA	350	6.4	310	18
INF-8	11/21/96	-	-	14	-	NA	-	NA	310	6.2	370	12
INF-9	11/22/96	-	-	11	-	NA	-	NA	220	-	260	11
INF-10	11/23/96	-	-	12	-	NA	-	NA	220	-	230	10
INF-11	11/24/96	-	-	10	-	NA	-	NA	210	-	250	10
INF-12	11/25/96	-	-	10	-	NA	-	NA	230	-	240	9.2
INF-13	11/26/96	-	-	10	-	NA	-	NA	160	6.7	190	13
INF-14	11/27/96	-	-	10	-	NA	-	NA	230	-	190	14
INF-15	12/03/96	-	-	13	-	NA	-	NA	220	-	250	13

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
INF-16	12/04/96	-	-	11	-	NA	-	NA	220	-	230	10
INF-17	12/05/96	-	-	10	-	NA	-	NA	210	-	230	10
INF-18	12/06/96	-	-	11	-	NA	-	NA	210	3.5	210	11
INF-19	12/07/96	-	-	11	-	NA	-	NA	210	3.4	200	10
INF-20	12/08/96	-	-	9.9	-	NA	-	NA	210	3.2	210	9
INF-21	12/10/96	-	-	10	-	NA	-	NA	230	3.1	220	10
INF-22	12/12/96	-	-	10	-	NA	-	NA	230	3.2	210	9.1
INF-23	12/14/96	-	-	11	-	NA	-	NA	280	3.3	260	9*.2
INF-24	12/16/96	-	-	9.3	-	NA	-	NA	300	-	290	7.8
INF-25	12/18/96	-	-	10	-	NA	-	NA	250	3.3	250	7.9
INF-26	12/20/96	-	-	10	-	NA	-	NA	180	3@	170	8
INF-27	05/21/97	-	-	12	-	NA	-	NA	290	3.3	240	9.8
INF-28	06/19/97	-	-	10	-	NA	-	NA	190	-	170	7.3
INF-29	09/24/97	-	-	9.6	-	NA	-	NA	170	-	170	6.1
INF-30	12/17/97	-	-	7.2	-	NA	-	NA	150	-	120	5.8
INF-31	04/15/98	-	-	-	-	NA	-	NA	72	-	120	2.3

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
INF-32	06/16/98	-	-	-	3.3	NA	-	NA	76	-	140	3.7
INF-33	09/24/98	-	-	-	-	NA	-	NA	-	-	74	4.1
INF-34	12/16/98	-	-	-	-	NA	-	NA	-	-	81	5.8
INF-35	03/31/99	-	-	-	-	NA	-	NA	-	-	54	3.4
INF-36	06/30/99	-	-	-	-	NA	-	NA	-	-	59	4.2
INF-38	12/16/99	-	-	-	-	NA	-	-	-	-	37	2.6
INF-39	03/22/00	-	-	-	-	NA	-	-	-	-	27	3.9
INF-40	06/07/00	-	-	-	-	NA	-	-	-	-	26	1.6
EFFA-1	03/13/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-2	03/14/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-3	03/15/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-4	03/16/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-5	03/17/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-6	11/19/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-7	11/20/96	-	-	-	-	NA	-	NA	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
EFFA-8	11/21/96	-	-	-	-	NA	-	NA	-	-	4.2	-
EFFA-9	11/22/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-10	11/23/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-11	11/24/96	-	-	-	-	NA	-	NA	-	-	3@	-
EFFA-12	11/25/96	-	-	-	-	NA	-	NA	-	-	3.1	-
EFFA-13	11/26/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-14	11/27/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-15	12/03/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-16	12/04/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-17	12/05/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-18	12/06/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-19	12/07/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-20	12/08/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-21	12/10/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-22	12/12/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-23	12/14/96	-	-	-	-	NA	-	NA	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
EFFA-24	12/16/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-25	12/18/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-26	12/20/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-27	05/21/97	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-28	06/19/97	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-29	09/24/97	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-30	12/17/97	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-31	04/15/98	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-32	06/16/98	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-33	09/24/98	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-34	12/16/98	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-35	03/31/99	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-36	06/30/99	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-38	12/16/99	-	-	-	-	NA	-	NA	-	-	-	-
EFFA-39	03/22/00	-	-	-	-	NA	-	NA	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
EFFA-40	06/07/00	-	-	-	-	NA	-	-	-	-	-	-
EFFG-1	03/13/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-2	03/14/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-3	03/15/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-4	03/16/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-5	03/17/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-6	11/19/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-7	11/20/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-8	11/21/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-9	11/22/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-10	11/23/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-11	11/24/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-12	11/25/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-13	11/26/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-14	11/27/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-15	12/03/96	-	-	-	-	NA	-	NA	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
EFFG-16	12/04/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-17	12/05/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-18	12/06/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-19	12/07/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-20	12/08/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-21	12/10/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-22	12/12/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-23	12/14/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-24	12/16/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-25	12/18/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-26	12/20/96	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-27	05/21/97	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-28	06/19/97	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-29	09/24/97	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-30	12/17/97	-	-	-	-	NA	-	NA	-	-	-	-

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD		5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*
EFFG-31	04/15/98	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-32	06/16/98	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-33	09/24/98	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-34	12/16/98	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-35	03/31/99	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-36	06/30/99	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-38	12/16/99	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-39	03/22/00	-	-	-	-	NA	-	NA	-	-	-	-
EFFG-40	06/07/00	-	-	-	-	NA	-	NA	-	-	-	-

LEGEND

*	= Primary Drinking Water Standard
**	= Secondary Drinking Water Standard
***	= Florida Groundwater Guidance Concentration
@	= Analysis Result is at Groundwater Standard or Florida Groundwater Guidance Concentration
-	= Analysis Result is not at or outside Groundwater Standard or Florida Groundwater Guidance Concentration
NS	= Not Sampled
NA	= Not Analyzed

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER	1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD	5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*

SELECTED ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER	1,1,2-TRI-CHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	BENZENE	CHLORO METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHENE	TETRA-CHLORO-ETHENE	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD	5 µg/L*	70 µg/L***	7 µg/L*	3 µg/L*	70 µg/L*	1 µg/L*	2.7 µg/L***	70 µg/L*	3 µg/L*	3 µg/L*	1 µg/L*

ATTACHMENT 5

HISTORICAL DATA TABLE

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD		(1)	6.5-8.5 S.U.**	(1)	(1)	6.5-8.5 S.U.**	500 mg/L**	(1)	(1)	(1)	300 µg/L**	200 µg/L*	5 µg/L*	70 µg/L***	7 µg/L*
UNITS		umhos/cm	S.U.	deg C	mg/L	S.U.	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Off-Site															
IT-3S	04/24/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-3S	10/29/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-3S	06/18/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3S	09/23/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3S	12/16/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3S	03/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3S	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3S	09/22/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3S	12/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3S	03/29/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3S	03/16/00	295	7.47	21.9	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3I	04/24/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-3I	10/30/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-3I	06/18/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3I	09/23/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3I	12/16/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3I	03/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3I	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3I	09/22/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3I	12/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3I	03/29/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3I	03/16/00	301	7.54	21.6	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3D	04/24/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-3D	10/30/91	-	-	-	-	-	-	-	-	-	-	<0.6	<0.2	<0.7	<1.3
IT-3D	06/18/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3D	09/23/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3D	12/16/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3D	03/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3D	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3D	09/22/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3D	12/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3D	03/29/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3D	06/28/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3D	09/22/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3D	12/14/99	308	7.69	21.2	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-3D	03/20/00	305	7.42	22.0	-	-	-	-	-	-	-	<1	<1	2.5	<1
IT-3D	06/06/00	306	7.53	22.5	-	-	-	-	-	-	-	<1	<1	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD		3 µg/L*	70 µg/L*	1 µg/L***	1 µg/L*	9.8 µg/L***	12 µg/L***	5.7 µg/L***	2.7 µg/L***	70 µg/L*	700 µg/L*	5 µg/L*	3 µg/L*	1000 µg/L*	100 µg/L*
UNITS		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Off-Site															
IT-3S	04/24/91	<0.3	<1.0	-	NA	<1.2	<5.2	<0.5	<0.8	-	NA	<5	<0.3	NA	-
IT-3S	10/29/91	<0.3	<1.0	-	NA	<1.2	<5.2	<0.5	<0.8	-	NA	<5	<0.3	NA	-
IT-3S	06/18/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-3S	09/23/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-3S	12/16/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-3S	03/16/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-3S	06/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-3S	09/22/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-3S	12/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-3S	03/29/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-3S	03/16/00	<1	-	<10	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-3I	04/24/91	<0.3	<1.0	-	NA	<1.2	<5.2	0.5	<0.8	-	NA	<5	<0.3	NA	-
IT-3I	10/30/91	<0.3	<1.0	-	NA	<1.2	<5.2	<0.5	<0.8	-	NA	<5	<0.3	NA	-
IT-3I	06/18/97	<1	-	-	<1	<1	<5.2	<5.2	<1	<1	<1	<5	<1	<1	<1
IT-3I	09/23/97	<1	-	-	<1	<1	<5.2	<5.2	<1	1.5	<1	<5	<1	<1	<1
IT-3I	12/16/97	<1	-	-	<1	<1	<5.2	<5.2	<1	<1	<1	<5	<1	<1	<1
IT-3I	03/16/98	<1	-	-	<1	<1	<5.2	<5.2	<1	<1	<1	<5	<1	<1	<1
IT-3I	06/15/98	<1	-	-	<1	<1	<5.2	<5.2	<1	<1	<1	<5	<1	<1	<1
IT-3I	09/22/98	<1	-	-	<1	<1	<5.2	<5.2	<1	<1	<1	<5	<1	<1	<1
IT-3I	12/15/98	<1	-	-	<1	<1	<5.2	<5.2	<1	<1	<1	<5	<1	<1	<1
IT-3I	03/29/99	<1	-	-	<1	<1	<5.2	<5.2	<1	1.7	<1	<5	<1	<1	<1
IT-3I	03/16/00	<1	-	<10	<1	<1	<5.2	<5.2	<1	1.8	<1	<5	<2	<1	<1
IT-3D	04/24/91	<0.3	<1.0	-	NA	<1.2	<5.2	<0.5	<0.8	-	NA	<5	<0.3	NA	-
IT-3D	10/30/91	<0.3	<1.0	-	NA	<1.2	<5.2	<0.5	<0.8	-	NA	<5	<0.3	NA	-
IT-3D	06/18/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-3D	09/23/97	<1	-	-	<1	<1	<1	<1	<1	1.9	<1	<5	<1	<1	<1
IT-3D	12/16/97	<1	-	-	<1	<1	<1	<1	<1	1.8	<1	<5	<1	<1	<1
IT-3D	03/16/98	<1	-	-	<1	<1	<1	<1	<1	2.0	<1	<5	<1	<1	<1
IT-3D	06/15/98	<1	-	-	<1	<1	<1	<1	<1	1.9	<1	<5	<1	<1	<1
IT-3D	09/22/98	<1	-	-	<1	<1	<1	<1	<1	1.9	<1	<5	<1	<1	<1
IT-3D	12/15/98	<1	-	-	<1	<1	<1	<1	<1	2.0	<1	<5	<1	<1	<1
IT-3D	03/29/99	<1	-	-	<1	<1	<1	<1	<1	2.2	<1	<5	<1	<1	<1
IT-3D	06/28/99	<1	-	-	<1	<1	<1	<1	<1	2.7	<1	<5	<1	<1	<1
IT-3D	09/22/99	<1	-	-	<1	<1	<1	<1	<1	2.6	<1	<5	<1	<1	<1
IT-3D	12/14/99	<1	-	-	<1	<1	<1	<1	<1	2.6	<1	<5	<1	<1	<1
IT-3D	03/20/00	<1	-	<10	<1	<2	<1	<1	<1	4.6	<1	<3	<2	<1	<1
IT-3D	06/06/00	<1	-	<10	<1	<2	<1	<1	<1	1.7	<1	<3	<2	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD		3 µg/L*	2100 µg/L***	1 µg/L*	(1)
UNITS		µg/L	µg/L	µg/L	µg/L
Off-Site					
IT-3S	04/24/91	<1.2	<2.0	<1.8	-
IT-3S	10/29/91	<1.2	<2.0	<1.8	-
IT-3S	06/18/97	<1	<1	<1	-
IT-3S	09/23/97	<1	<1	<1	-
IT-3S	12/16/97	<1	<1	<1	-
IT-3S	03/16/98	<1	<1	<1	-
IT-3S	06/15/98	<1	<1	<1	-
IT-3S	09/22/98	<1	<1	<1	-
IT-3S	12/15/98	<1	<1	<1	-
IT-3S	03/29/99	<1	<1	<1	-
IT-3S	03/16/00	1.3	<1	<1	-
IT-3I	04/24/91	<1.2	<2.0	<1.8	0.5
IT-3I	10/30/91	<1.2	<2.0	<1.8	0.5
IT-3I	06/18/97	<1	<1	<1	-
IT-3I	09/23/97	<1	<1	<1	-
IT-3I	12/16/97	1.8	<1	<1	3.3
IT-3I	03/16/98	1.2	<1	<1	1.2
IT-3I	06/15/98	<1	<1	<1	-
IT-3I	09/22/98	1.2	<1	<1	1.2
IT-3I	12/15/98	<1	<1	<1	-
IT-3I	03/29/99	2.2	<1	<1	3.9
IT-3I	03/16/00	2.3	<1	<1	4.1
IT-3D	04/24/91	<1.2	<2.0	<1.8	-
IT-3D	10/30/91	<1.2	<2.0	<1.8	-
IT-3D	06/18/97	1.2	<1	<1	1.2
IT-3D	09/23/97	2.7	<1	<1	4.6
IT-3D	12/16/97	2.6	<1	<1	4.4
IT-3D	03/16/98	3.6	<1	<1	5.6
IT-3D	06/15/98	3.2	<1	<1	5.1
IT-3D	09/22/98	2.8	<1	<1	4.7
IT-3D	12/15/98	3.2	<1	<1	5.2
IT-3D	03/29/99	3.1	<1	<1	5.3
IT-3D	06/28/99	3.1	<1	<1	5.8
IT-3D	09/22/99	3.1	<1	<1	5.7
IT-3D	12/14/99	2.9	<1	<1	5.5
IT-3D	03/20/00	2.6	<1	<1	9.7
IT-3D	06/06/00	2.2	<1	<1	3.9

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
IT-4S	04/22/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-4S	11/04/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-4S	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4S	09/23/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4S	12/16/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4S	03/17/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4S	06/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4S	09/23/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4S	12/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4S	03/30/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4S	03/15/00	60	5.55	22.2	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4I	04/24/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-4I	11/04/91	-	-	-	-	-	-	-	-	-	-	0.4	<0.2	<0.7	<1.3
IT-4I	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4I	09/23/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4I	12/16/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4I	03/17/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4I	06/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4I	09/23/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4I	12/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4I	03/30/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4I	03/15/00	310	7.48	21.9	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4D	04/22/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-4D	11/04/91	-	-	-	-	-	-	-	-	-	-	0.4	<0.2	<0.7	<1.3
IT-4D	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4D	09/23/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4D	12/16/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	2.7
IT-4D	03/17/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4D	06/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4D	09/23/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4D	12/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4D	03/30/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-4D	03/15/00	326	7.42	22	-	-	-	-	-	-	-	<1	<1	2.4	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD		3 µg/L*	70 µg/L*	1 µg/L***	1 µg/L*	9.8 µg/L***	12 µg/L***	5.7 µg/L***	2.7 µg/L***	70 µg/L*	700 µg/L*	5 µg/L*	3 µg/L*	1000 µg/L*	100 µg/L*
UNITS		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
IT-4S	04/22/91	<0.3	-	-	NA	<1.2	<5.2	0.5	<0.8	<1	NA	<5	<0.3	NA	<1
IT-4S	11/04/91	<0.3	-	-	NA	<1.2	<5.2	<0.5	<0.8	<1	NA	<5	<0.3	NA	<1
IT-4S	06/17/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4S	09/23/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4S	12/16/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4S	03/17/98	<1	-	-	<1	<1	<1	<1	<1	2	<1	<5	<1	<1	<1
IT-4S	06/16/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4S	09/23/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4S	12/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4S	03/30/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4S	03/15/00	<1	-	<10	<1	<2	<2	<1	<1	<1	<1	<5	<2	<1	<1
IT-4I	04/24/91	<0.3	1.2	-	NA	<1.2	<5.2	1.2	<0.8	-	NA	<5	<0.3	NA	<1
IT-4I	11/04/91	<0.3	<1.0	-	NA	<1.2	<5.2	0.9	<0.8	-	NA	<5	<0.3	NA	<1
IT-4I	06/17/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4I	09/23/97	<1	-	-	<1	<1	<1	<1	<1	2.8	<1	<5	<1	<1	<1
IT-4I	12/16/97	<1	-	-	<1	<1	<1	<1	<1	1.1	<1	<5	<1	<1	<1
IT-4I	03/17/98	<1	-	-	<1	<1	<1	<1	<1	1.8	<1	<5	<1	<1	<1
IT-4I	06/16/98	<1	-	-	<1	<1	<1	<1	<1	1.6	<1	<5	<1	<1	<1
IT-4I	09/23/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4I	12/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4I	03/30/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4I	03/15/00	<1	-	<10	<1	<2	<2	<1	<1	5.3	<1	<5	<2	<1	2.5
IT-4D	04/22/91	<0.3	1.8	-	NA	<1.2	<5.2	0.8	<0.8	-	NA	<5	<0.3	NA	-
IT-4D	11/04/91	<0.3	2.4	-	NA	<1.2	<5.2	0.6	<0.8	-	NA	<5	<0.3	NA	-
IT-4D	06/17/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4D	09/23/97	<1	-	-	<1	<1	<1	<1	<1	3.9	<1	<5	<1	<1	<1
IT-4D	12/16/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4D	03/17/98	<1	-	-	<1	<1	<1	<1	<1	1.7	<1	<5	<1	<1	<1
IT-4D	06/16/98	<1	-	-	<1	<1	<1	<1	<1	2.0	<1	<5	<1	<1	<1
IT-4D	09/23/98	<1	-	-	<1	<1	<1	<1	<1	1.2	<1	<5	<1	<1	<1
IT-4D	12/15/98	<1	-	-	<1	<1	<1	<1	<1	1.4	<1	<5	<1	<1	<1
IT-4D	03/30/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-4D	03/15/00	<1	-	<10	<1	<2	<2	<1	<1	4	<1	<5	<2	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD		3 µg/L*	2100 µg/L***	1 µg/L*	(1)
UNITS		µg/L	µg/L	µg/L	µg/L
IT-4S	04/22/91	<1.2	<2	<1.8	0.5
IT-4S	11/04/91	<1.2	<2	<1.8	1
IT-4S	06/17/97	2.1	<1	<1	2.1
IT-4S	09/23/97	<1	<1	<1	-
IT-4S	12/16/97	<1	<1	<1	-
IT-4S	03/17/98	1.8	<1	<1	3.8
IT-4S	06/16/98	<1	<1	<1	-
IT-4S	09/23/98	<1	<1	<1	-
IT-4S	12/15/98	<1	<1	<1	-
IT-4S	03/30/99	<1	<1	<1	-
IT-4S	03/15/00	<1	<1	<1	-
IT-4I	04/24/91	<1.2	<2	<1.8	2.4
IT-4I	11/04/91	<1.2	<2	<1.8	1.3
IT-4I	06/17/97	<1	<1	<1	-
IT-4I	09/23/97	2.0	<1	<1	4.8
IT-4I	12/16/97	<1	<1	<1	1.1
IT-4I	03/17/98	1.3	<1	<1	3.1
IT-4I	06/16/98	1.2	<1	<1	2.8
IT-4I	09/23/98	<1	<1	<1	-
IT-4I	12/15/98	<1	<1	<1	-
IT-4I	03/30/99	<1	<1	<1	-
IT-4I	03/15/00	1.6	<1	<1	11.8
IT-4D	04/22/91	1.2	<2.0	<1.8	3.8
IT-4D	11/04/91	2.2	<2.0	<1.8	5.6
IT-4D	06/17/97	<1	<1	<1	-
IT-4D	09/23/97	1.9	<1	<1	5.8
IT-4D	12/16/97	1.0	<1	<1	3.7
IT-4D	03/17/98	<1	<1	<1	1.7
IT-4D	06/16/98	1.1	<1	<1	3.1
IT-4D	09/23/98	<1	<1	<1	1.2
IT-4D	12/15/98	<1	<1	<1	1.4
IT-4D	03/30/99	<1	<1	<1	-
IT-4D	03/15/00	<1	<1	<1	6.4

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
IT-6S	04/23/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-6S	11/01/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-6S	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6S	09/23/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6S	12/15/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6S	03/17/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6S	06/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6S	09/23/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6S	12/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6S	03/30/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6S	03/15/00	302	7.58	23.5	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6I	04/23/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-6I	11/01/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-6I	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6I	09/23/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6I	12/15/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6I	03/17/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6I	06/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6I	09/23/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6I	12/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6I	03/30/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6I	03/15/00	215	8.79	22.2	-	-	-	-	-	-	-	<1	<1	2.4	<1
IT-6D	04/23/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-6D	11/01/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-6D	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6D	09/23/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6D	12/15/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6D	03/17/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6D	06/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6D	09/23/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6D	12/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6D	03/30/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-6D	03/15/00	189	8.79	22.2	-	-	-	-	-	-	-	<1	<1	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD		3 µg/L*	70 µg/L*	1 µg/L***	1 µg/L*	9.8 µg/L***	12 µg/L***	5.7 µg/L***	2.7 µg/L***	70 µg/L*	700 µg/L*	5 µg/L*	3 µg/L*	1000 µg/L*	100 µg/L*
UNITS		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
IT-6S	04/23/91	<0.3	-	-	NA	<1.2	<5.2	1.2	<0.8	<1	NA	<5	<0.3	NA	<1
IT-6S	11/01/91	<0.3	-	-	NA	<1.2	<5.2	0.5	<0.8	<1	NA	<5	<0.3	NA	<1
IT-6S	06/17/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1
IT-6S	09/23/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6S	12/15/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6S	03/17/98	<1	-	-	<1	<1	<1	<1	<1	1.0	<1	<5	<1	<1	<1
IT-6S	06/16/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6S	09/23/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6S	12/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6S	03/30/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6S	03/15/00	<1	-	<10	<1	<2	<2	<1	<1	2.4	<1	<5	<2	<1	<1
IT-6I	04/23/91	<0.3	-	-	NA	<1.2	<5.2	1.0	<0.8	<1	NA	<5	<0.3	NA	<1
IT-6I	11/01/91	<0.3	-	-	NA	<1.2	<5.2	0.7	<0.8	<1	NA	<5	<0.3	NA	<1
IT-6I	06/17/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1
IT-6I	09/23/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6I	12/15/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6I	03/17/98	<1	-	-	<1	<1	<1	<1	<1	1.0	<1	<5	<1	<1	<1
IT-6I	06/16/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6I	09/23/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6I	12/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6I	03/30/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6I	03/15/00	<1	-	20	<1	<2	<2	<1	<1	26	<1	<5	<2	<1	<1
IT-6D	04/23/91	<0.3	-	-	NA	<1.2	<5.2	<0.5	<0.8	<1	NA	<5	<0.3	NA	<1
IT-6D	11/01/91	<0.3	-	-	NA	<1.2	<5.2	<0.5	<0.8	<1	NA	<5	<0.3	NA	<1
IT-6D	06/17/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1
IT-6D	09/23/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6D	12/15/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6D	03/17/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6D	06/16/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6D	09/23/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6D	12/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6D	03/30/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-6D	03/15/00	<1	-	<10	<1	<2	<2	<1	<1	2.9	<1	<5	<2	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD		3 µg/L*	2100 µg/L***	1 µg/L*	(1)
UNITS		µg/L	µg/L	µg/L	µg/L
IT-6S	04/23/91	<1.2	<2	<1.8	1.2
IT-6S	11/01/91	<1.2	<2	<1.8	0.8
IT-6S	06/17/97	<1	<1	<1	-
IT-6S	09/23/97	<1	<1	<1	-
IT-6S	12/15/97	1.1	<1	<1	1.1
IT-6S	03/17/98	1.4	<1	<1	2.4
IT-6S	06/16/98	<1	<1	<1	-
IT-6S	09/23/98	<1	<1	<1	-
IT-6S	12/15/98	<1	<1	<1	-
IT-6S	03/30/99	<1	<1	<1	-
IT-6S	03/15/00	<1	<1	<1	2.4
IT-6I	04/23/91	<1.2	<2	<1.8	1
IT-6I	11/01/91	<1.2	<2	<1.8	0.7
IT-6I	06/17/97	1.1	<1	<1	1.1
IT-6I	09/23/97	<1	<1	<1	-
IT-6I	12/15/97	<1	<1	<1	-
IT-6I	03/17/98	1.2	<1	<1	1.2
IT-6I	06/16/98	<1	<1	<1	-
IT-6I	09/23/98	<1	<1	<1	-
IT-6I	12/15/98	<1	<1	<1	-
IT-6I	03/30/99	<1	<1	<1	-
IT-6I	03/15/00	<1	<1	<1	25
IT-6D	04/23/91	<1.2	<2	<1.8	-
IT-6D	11/01/91	<1.2	<2	<1.8	-
IT-6D	06/17/97	<1	<1	<1	-
IT-6D	09/23/97	<1	<1	<1	-
IT-6D	12/15/97	<1	<1	<1	-
IT-6D	03/17/98	<1	<1	<1	-
IT-6D	06/16/98	<1	<1	<1	-
IT-6D	09/23/98	<1	<1	<1	-
IT-6D	12/15/98	<1	<1	<1	-
IT-6D	03/30/99	<1	<1	<1	-
IT-6D	03/15/00	<1	<1	<1	2.9

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
IT-7S	04/18/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-7S	11/01/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-7S	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7S	09/22/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7S	12/15/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7S	03/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7S	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7S	09/22/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7S	12/14/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7S	03/29/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7I	04/18/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-7I	11/01/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-7I	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7I	09/22/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7I	12/15/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7I	03/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7I	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7I	09/22/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7I	12/14/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7I	03/29/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7I	03/16/00	284	7.48	22.0	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7D	04/23/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-7D	10/25/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-7D	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7D	09/22/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7D	12/15/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7D	03/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7D	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7D	09/22/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7D	12/14/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7D	03/29/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7D	03/16/00	248	7.95	23.5	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-7D	03/16/00	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD UNITS		3 µg/L* µg/L	70 µg/L* µg/L	1 µg/L*** µg/L	1 µg/L* µg/L	9.8 µg/L*** µg/L	12 µg/L*** µg/L	5.7 µg/L*** µg/L	2.7 µg/L*** µg/L	70 µg/L* µg/L	700 µg/L* µg/L	5 µg/L* µg/L	3 µg/L* µg/L	1000 µg/L* µg/L	100 µg/L* µg/L
IT-7S	04/18/91	<0.3	-	-	NA	<1.2	<5.2	0.6	<0.8	<1	NA	<5	<0.3	NA	<1
IT-7S	11/01/91	<0.63	-	-	NA	<1.2	<5.2	0.6	<0.8	<1	NA	<5	<0.3	NA	<1
IT-7S	06/17/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7S	09/22/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7S	12/15/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7S	03/16/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7S	06/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7S	09/22/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7S	12/14/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7S	03/29/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7I	04/18/91	<0.3	-	-	NA	<1.2	<5.2	0.6	<0.8	<1	NA	<5	<0.3	NA	<1
IT-7I	11/01/91	<0.63	-	-	NA	<1.2	<5.2	0.6	<0.8	<1	NA	<5	<0.3	NA	<1
IT-7I	06/17/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7I	09/22/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7I	12/15/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7I	03/16/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7I	06/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7I	09/22/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7I	12/14/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7I	03/29/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7I	03/16/00	<1	-	<10	<1	<2	<2	<1	<1	<1	<1	<5	<1	<1	<1
IT-7D	04/23/91	<0.3	-	-	NA	<1.2	<5.2	0.6	<0.8	<1	NA	<5	<0.3	NA	<1
IT-7D	10/25/91	<0.63	-	-	NA	<1.2	<5.2	0.6	<0.8	<1	NA	<5	<0.3	NA	<1
IT-7D	06/17/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7D	09/22/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7D	12/15/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7D	03/16/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7D	06/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7D	09/22/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7D	12/14/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7D	03/29/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-7D	03/16/00	<1	-	<10	<1	<2	<2	<1	<1	<1	<1	<5	<1	<1	<1
IT-7D	03/16/00	<1	-	<10	<1	<2	<2	<1	<1	<1	<1	<5	<1	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD UNITS		3 µg/L* µg/L	2100 µg/L*** µg/L	1 µg/L* µg/L	(1) µg/L
IT-7S	04/18/91	<1.2	<2	<1.8	0.6
IT-7S	11/01/91	<1.2	<2	<1.8	0.6
IT-7S	06/17/97	<1	<1	<1	1.4
IT-7S	09/22/97	<1	<1	<1	1.4
IT-7S	12/15/97	<1	<1	<1	1.4
IT-7S	03/16/98	<1	<1	<1	1.9
IT-7S	06/15/98	<1	<1	<1	2
IT-7S	09/22/98	<1	<1	<1	-
IT-7S	12/14/98	<1	<1	<1	-
IT-7S	03/29/99	<1	<1	<1	-
IT-7I	04/18/91	<1.2	<2	<1.8	-
IT-7I	11/01/91	<1.2	<2	<1.8	-
IT-7I	06/17/97	<1	<1	<1	-
IT-7I	09/22/97	<1	<1	<1	-
IT-7I	12/15/97	<1	<1	<1	-
IT-7I	03/16/98	<1	<1	<1	-
IT-7I	06/15/98	<1	<1	<1	-
IT-7I	09/22/98	<1	<1	<1	-
IT-7I	12/14/98	<1	<1	<1	-
IT-7I	03/29/99	<1	<1	<1	-
IT-7I	03/16/00	<1	<1	<1	-
IT-7D	04/23/91	<1.2	<2	<1.8	0.5
IT-7D	10/25/91	<1.2	<2	<1.8	-
IT-7D	06/17/97	<1	<1	<1	-
IT-7D	09/22/97	<1	<1	<1	-
IT-7D	12/15/97	<1	<1	<1	-
IT-7D	03/16/98	<1	<1	<1	-
IT-7D	06/15/98	<1	<1	<1	-
IT-7D	09/22/98	<1	<1	<1	-
IT-7D	12/14/98	<1	<1	<1	-
IT-7D	03/29/99	<1	<1	<1	-
IT-7D	03/16/00	<1	<1	<1	-
IT-7D	03/16/00	<1	<1	<1	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD		(1)	6.5-8.5 S.U.**	(1)	(1)	6.5-8.5 S.U.**	500 mg/L**	(1)	(1)	(1)	300 µg/L**	200 µg/L*	5 µg/L*	70 µg/L***	7 µg/L*
UNITS		umhos/cm	S.U.	deg C	mg/L	S.U.	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L
On-Site															
IT-1S	05/06/91	-	-	-	-	-	-	-	-	-	-				
IT-1S	11/06/91	-	-	-	-	-	-	-	-	-	-				
IT-1S	11/10/93	-	-	-	-	-	-	-	-	-	-				
IT-1S	03/08/96	-	-	-	-	-	-	-	-	-	-				
IT-1S	06/18/97	-	-	-	-	-	-	-	-	-	-				
IT-1S	09/24/97	-	-	-	-	-	-	-	-	-	-				
IT-1S	12/16/97	-	-	-	-	-	-	-	-	-	-				
IT-1S	03/18/98	-	-	-	-	-	-	-	-	-	-				
IT-1S	06/17/98	-	-	-	-	-	-	-	-	-	-				
IT-1S	09/24/98	-	-	-	-	-	-	-	-	-	-				
IT-1S	16/16/98	-	-	-	-	-	-	-	-	-	-				
IT-1S	03/31/99	-	-	-	-	-	-	-	-	-	-				
IT-1S	06/29/99	-	-	-	-	-	-	-	-	-	-				
IT-1S	09/23/99	-	-	-	-	-	-	-	-	-	-				
IT-1S	12/15/99	607	6.92	23.2	-	-	-	-	-	-	-				
IT-1S	03/21/00	530	6.95	23.4	-	-	-	-	-	-	-				
IT-1S	06/07/00	598	6.91	25.3	-	-	-	-	-	-	-				
IT-1S	06/07/00	-	-	-	-	-	-	-	-	-	-				

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD		3 µg/L*	70 µg/L*	1 µg/L***	1 µg/L*	9.8 µg/L***	12 µg/L***	5.7 µg/L***	2.7 µg/L***	70 µg/L*	700 µg/L*	5 µg/L*	3 µg/L*	1000 µg/L*	100 µg/L*
UNITS		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
On-Site															
IT-1S	05/06/91	<5.0	1000	-	<5.0	<10	<10	<5.0	<10	-	<5.0	2.0	120	<5.0	-
IT-1S	11/06/91	<5.0	490	-	<5.0	<10	<10	<5.0	<10	-	<5.0	1.0	75	<5.0	-
IT-1S	11/10/93	1.2	3600	-	<1.0	<2.0	<2.0	1.8	<2.0	-	1.2	<1.0	150	1.2	-
IT-1S	03/08/96	<250	2300	-	<250	<250	<250	<250	<250	-	<250	<250	290	<250	-
IT-1S	06/18/97	<25	-	-	<25	<25	<25	<25	<25	2900	<25	<120	120	<25	<25
IT-1S	09/24/97	<50	-	-	<50	<50	<50	<50	<50	2400	<50	<250	52	<50	<50
IT-1S	12/16/97	<50	-	-	<50	<50	<50	<50	<50	2200	<50	<250	75	<50	<50
IT-1S	03/18/98	<25	-	-	<25	<25	<25	<25	<25	840	<25	<120	33	<25	<25
IT-1S	06/17/98	<25	-	-	<25	<25	<25	<25	<25	600	<25	<120	76	<25	<25
IT-1S	09/24/98	<25	-	-	<25	<25	<25	<25	<25	1700	<25	<120	36	<25	<25
IT-1S	16/16/98	<25	-	-	<25	<25	<25	<25	<25	1900	<25	<120	54	<25	<25
IT-1S	03/31/99	<25	-	-	<25	<25	<25	<25	<25	1200	<25	<120	38	<25	<25
IT-1S	06/29/99	<25	-	-	<25	<25	<25	<25	<25	2200	<25	<120	41	<25	<25
IT-1S	09/23/99	<25	-	-	<25	<25	<25	<25	<25	2700	<25	<120	58	<25	<25
IT-1S	12/15/99	<1	-	-	<1	<1	<1	<1	<1	4000	<1	<1	110	<1	1.7
IT-1S	03/21/00	<1	-	<10	<1	<1	<2	<1	<1	1800	<1	<1	36	<1	15
IT-1S	06/07/00	<1	-	<10	<1	<1	<2	<1	<1	2000	<1	<1	53	<1	1.6
IT-1S	06/07/00	<1	-	<10	<1	<1	<2	<1	<1	1900	<1	<1	54	<1	1.3

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD		3 µg/L*	2100 µg/L***	1 µg/L*	(1)
UNITS		µg/L	µg/L	µg/L	µg/L
On-Site					
IT-1S	05/06/91	2800	NA	<10	4076
IT-1S	11/06/91	1300	NA	4	1950
IT-1S	11/10/93	4300	<1.0	16	8295
IT-1S	03/08/96	7000	<250	<250	9590
IT-1S	06/18/97	3200	<25	42	6532
IT-1S	09/24/97	2700	<50	<50	5382
IT-1S	12/16/97	2600	<50	<50	5095
IT-1S	03/18/98	1400	<25	<25	2358
IT-1S	06/17/98	620	<25	<25	1538
IT-1S	09/24/98	3000	<25	<25	3899
IT-1S	16/16/98	2700	<25	<25	4874
IT-1S	03/31/99	1500	<25	<25	2837
IT-1S	06/29/99	2200	<25	<25	4575
IT-1S	09/23/99	2700	<25	<25	5647
IT-1S	12/15/99	2400	<1	23	6836.7
IT-1S	03/21/00	1100	<1	23	3156.8
IT-1S	06/07/00	2000	<1	17	4225.8
IT-1S	06/07/00	1800	<1	18	3941.2

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD		(1)	6.5-8.5 S.U.**	(1)	(1)	6.5-8.5 S.U.**	500 mg/L**	(1)	(1)	(1)	300 µg/L**	200 µg/L*	5 µg/L*	70 µg/L***	7 µg/L*
UNITS		umhos/cm	S.U.	deg C	mg/L	S.U.	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L
IT-1I	05/08/91	-	-	-	-	-	-	-	-	-	-	8.0	<5.0	40	33
IT-1I	11/06/91	-	-	-	-	-	-	-	-	-	-	11.0	3.0	35	24
IT-1I	11/10/93	-	-	-	-	-	-	-	-	-	-	5.3	3.9	43	26
IT-1I	03/08/96	-	-	-	-	-	-	-	-	-	-	28	<25	180	230
IT-1I	11/19/96	-	-	-	-	-	-	-	-	-	-	5.5	7.6	110	150
IT-1I	11/24/96	-	-	-	-	-	-	-	-	-	-	<50	<50	93	130
IT-1I	12/04/96	-	-	-	-	-	-	-	-	-	-	5.2	5.6	91	130
IT-1I	06/18/97	-	-	-	-	-	-	-	-	-	-	<25	<25	63	88
IT-1I	09/30/97	-	-	-	-	-	-	-	-	-	-	<100	<100	<100	<100
IT-1I	12/17/97	-	-	-	-	-	-	-	-	-	-	<25	<25	26	40
IT-1I	04/15/98	-	-	-	-	-	-	-	-	-	-	<25	<25	<25	26
IT-1I	06/17/98	-	-	-	-	-	-	-	-	-	-	<25	<25	<25	34
IT-1I	09/24/98	-	-	-	-	-	-	-	-	-	-	<25	<25	<25	26
IT-1I	12/16/98	-	-	-	-	-	-	-	-	-	-	<25	<25	<25	26
IT-1I	03/31/99	-	-	-	-	-	-	-	-	-	-	<5	<5	5.4	7.1
IT-1I	08/18/99	-	-	-	-	-	-	-	-	-	-	<25	<25	<25	<25
IT-1I	09/23/99	-	-	-	-	-	-	-	-	-	-	<25	<25	<25	<25
IT-1I	12/15/99	510	7.27	21.7	-	-	-	-	-	-	-	<1	<1	18	37
IT-1I	03/21/00	373	7.15	22.6	-	-	-	-	-	-	-	<1	<1	11	12
IT-1I D	03/21/00	373	7.15	22.6	-	-	-	-	-	-	-	<1	<1	9.3	8.9
IT-1I	06/07/00	492	1.02	24.1	-	-	-	-	-	-	-	<1	<1	11	18
IT-1D	05/08/91	-	-	-	-	-	-	-	-	-	-	20.0	<5	13.0	15
IT-1D	11/06/91	-	-	-	-	-	-	-	-	-	-	20.0	<5	30.0	22
IT-1D	11/10/93	-	-	-	-	-	-	-	-	-	-	3.6	<1	7.7	8
IT-1D	03/08/96	-	-	-	-	-	-	-	-	-	-	<10	<10	11.0	<10
IT-1D	06/18/97	-	-	-	-	-	-	-	-	-	-	<1.0	<1.0	5.1	3.7
IT-1D	09/24/97	-	-	-	-	-	-	-	-	-	-	<1.0	<1.0	3.2	3.0
IT-1D	12/16/97	-	-	-	-	-	-	-	-	-	-	<1.0	<1.0	3.1	3.1
IT-1D	03/18/98	-	-	-	-	-	-	-	-	-	-	<1.0	<1.0	5.1	4.3
IT-1D	06/17/98	-	-	-	-	-	-	-	-	-	-	<1.0	<1.0	6.1	7.1
IT-1D	09/24/98	-	-	-	-	-	-	-	-	-	-	3.5	<1.0	5.3	5.3
IT-1D	12/16/98	-	-	-	-	-	-	-	-	-	-	2.0	<1.0	5.4	5.4
IT-1D	03/31/99	-	-	-	-	-	-	-	-	-	-	1.3	<1.0	4.7	4.3
IT-1D	06/29/99	-	-	-	-	-	-	-	-	-	-	1.6	<1.0	4.3	4.4
IT-1D	09/23/99	-	-	-	-	-	-	-	-	-	-	1.5	<1.0	3.6	3.4
IT-1D	12/15/99	592	7.07	21.7	-	-	-	-	-	-	-	<1	<1	2.4	<1
IT-1D	03/21/00	409	7.19	22.3	-	-	-	-	-	-	-	<1	<1	3.1	<1
IT-1D	06/07/00	620	6.86	23.1	-	-	-	-	-	-	-	<1	<1	2.7	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD		3 µg/L*	70 µg/L*	1 µg/L***	1 µg/L*	9.8 µg/L***	12 µg/L***	5.7 µg/L***	2.7 µg/L***	70 µg/L*	700 µg/L*	5 µg/L*	3 µg/L*	1000 µg/L*	100 µg/L*
UNITS		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
IT-1I	05/08/91	<5.0	1400	-	<5.0	<10	<10	<5.0	<10	-	<5.0	<5.0	60	<5.0	-
IT-1I	11/06/91	<5.0	520	-	<5.0	<10	<10	<5.0	<10	-	<5.0	<1.0	62	<5.0	-
IT-1I	11/10/93	<1.0	1200	-	<1.0	<2.0	<2.0	<1.0	<2.0	-	<1.0	<1.0	44	<1.0	-
IT-1I	03/08/96	<25	3500	-	<25	<25	<25	<25	<25	-	<25	<25	310	<25	-
IT-1I	11/19/96	1.1	2900	-	<1	<1	<1	<1	<1	-	<1	<5	100	<1	-
IT-1I	11/24/96	<50	2100	-	<50	<50	<50	<50	<50	-	<50	<250	87	<50	-
IT-1I	12/04/96	<1	2400	-	<1	<1	<1	<1	<1	-	<1	<5	74	<1	-
IT-1I	06/18/97	<25	-	-	<25	<25	<25	<25	<25	1600	<25	<120	<25	<25	<25
IT-1I	09/30/97	<100	-	-	<100	<100	<100	<100	<100	1800	<100	<500	<100	<100	<100
IT-1I	12/17/97	<25	-	-	<25	<25	<25	<25	<25	770	<25	<120	<25	<25	<25
IT-1I	04/15/98	<25	-	-	<25	<25	<25	<25	<25	510	<25	<120	<25	<25	<25
IT-1I	06/17/98	<25	-	-	<25	<25	<25	<25	<25	600	<25	<120	<25	<25	<25
IT-1I	09/24/98	<25	-	-	<25	<25	<25	<25	<25	490	<25	<120	<25	<25	<25
IT-1I	12/16/98	<25	-	-	<25	<25	<25	<25	<25	460	<25	<120	<25	<25	<25
IT-1I	03/31/99	<25	-	-	<5	<5	<5	<5	<5	170	<5	<25	<5	<5	<5
IT-1I	08/18/99	<25	-	-	<25	<25	<25	<25	<25	460	<25	<120	<25	<25	<25
IT-1I	09/23/99	<25	-	-	<25	<25	<25	<25	<25	590	<25	<120	<25	<25	<25
IT-1I	12/15/99	<1	-	-	<1	<1	<1	<1	<1	1300	<1	<5	<1	<1	<1
IT-1I	03/21/00	<1	-	<10	<1	<2	<2	<1	<1	250	<1	<5	<1	<1	3.3
IT-1I D	03/21/00	<1	-	<10	<!	<2	<2	<1	<1	330	<!	<5	<1	<!	3.8
IT-1I	06/07/00	<1	-	<10	<1	<2	<2	<1	<1	570	<1	<5	<1	<1	<1
IT-1D	05/08/91	<5	470	-	<5	<10	<10	<5	<10	-	<5	1.0	3.0	<5	-
IT-1D	11/06/91	<5	550	-	<5	<10	<10	<5	<10	-	<5	<5	4.0	<5	-
IT-1D	11/10/93	<1	160	-	<1	<2.0	<2.0	<1	<2.0	-	<1	<1	<1	<1	-
IT-1D	03/08/96	<10	230	-	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	-
IT-1D	06/18/97	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	96	<1.0	<5.0	1.7	<1.0	<1
IT-1D	09/24/97	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	74	<1.0	<5.0	<1.0	<1.0	<1.0
IT-1D	12/16/97	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	85	<1.0	<1.0	<1.0	<1.0	<1.0
IT-1D	03/18/98	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	110	<1.0	<5.0	2.3	<1.0	<1.0
IT-1D	06/17/98	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	140	<1.0	<5.0	<1.0	<1.0	<1.0
IT-1D	09/24/98	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	1470	<1.0	<5.0	<1.0	<1.0	<1.0
IT-1D	12/16/98	<1.0	-	-	<1.0	1.6	<1.0	<1.0	<1.0	120	<1.0	<5.0	<1.0	<1.0	<1.0
IT-1D	03/31/99	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	120	<1.0	<5.0	<1.0	<1.0	<1.0
IT-1D	06/29/99	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	130	<1.0	<5.0	<1.0	<1.0	<1.0
IT-1D	09/23/99	<1.0	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	100	<1.0	<5.0	<1.0	<1.0	<1.0
IT-1D	12/15/99	<1	-	-	<1	<2	<1	<1	<1	84	<1	<5	<1	<1	<1
IT-1D	03/21/00	<1	-	<10	<1	<2	<2	<1	<1	39	<1	<5	<2	<1	2.5
IT-1D	06/07/00	<1	-	<10	<1	<2	<2	<1	<1	82	<1	<5	<2	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD		3 µg/L*	2100 µg/L***	1 µg/L*	(1)
UNITS		µg/L	µg/L	µg/L	µg/L
IT-1I	05/08/91	1400	NA	7.0	2948
IT-1I	11/06/91	1200	NA	5.0	1861
IT-1I	11/10/93	1700	<1.0	6.8	3029
IT-1I	03/08/96	6500	<25	<25	10748
IT-1I	11/19/96	3200	<1	32.0	6506.2
IT-1I	11/24/96	2900	<50	<50	5310
IT-1I	12/04/96	3000	<1	32	5738.8
IT-1I	06/18/97	1500	<25	32	3283
IT-1I	09/30/97	1300	<100	<100	3100
IT-1I	12/17/97	650	<25	<25	1486
IT-1I	04/15/98	550	<25	<25	1086
IT-1I	06/17/98	620	<25	<25	1254
IT-1I	09/24/98	450	<25	<25	966
IT-1I	12/16/98	450	<25	<25	936
IT-1I	03/31/99	170	<5	<5	352.5
IT-1I	08/18/99	260	<25	<25	720
IT-1I	09/23/99	340	<25	<25	930
IT-1I	12/15/99	480	<1	9.3	1854.3
IT-1I	03/21/00	120	<1	4.4	404.7
IT-1I D	03/21/00	150	<1	3	508
IT-1I	06/07/00	280	<1	6.8	889.8
IT-1D	05/08/91	450	NA	24	996
IT-1D	11/06/91	370	NA	42	1038
IT-1D	11/10/93	180	<1	15	374.3
IT-1D	03/08/96	240	<10	20	501
IT-1D	06/18/97	65	<1.0	4.1	175.6
IT-1D	09/24/97	68	<1.0	5.9	154.1
IT-1D	12/16/97	62	<1.0	9.6	162.8
IT-1D	03/18/98	89	<1.0	3.8	214.5
IT-1D	06/17/98	310	<1.0	9.2	472.4
IT-1D	09/24/98	240	<1.0	13.0	407.1
IT-1D	12/16/98	200	<1.0	10	344.4
IT-1D	03/31/99	140	<1.0	12	282.3
IT-1D	06/29/99	170	<1.0	14	324.3
IT-1D	09/23/99	120	<1.0	7.4	235.9
IT-1D	12/15/99	65	<1	8.2	159.6
IT-1D	03/21/00	9.5	<1	2	56.1
IT-1D	06/07/00	87	<1	7.1	178.8

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
IT-13I	04/19/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	<0.7	<1.3
IT-13I	10/25/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	2.0	<1.3
IT-13I	12/19/91	-	-	-	-	-	-	-	-	-	-	<0.3	<0.2	1.0	<1.3
IT-13I	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-13I	09/22/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-13I	12/15/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-13I	03/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-13I	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	1.7	<1
IT-13I	09/22/98	-	-	-	-	-	-	-	-	-	-	<1	<1	1.3	<1
IT-13I	12/14/98	-	-	-	-	-	-	-	-	-	-	<1	<1	1.6	<1
IT-13I	03/29/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-13I	06/28/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-13I	09/22/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	1.1
IT-13I	12/14/99	652	6.59	22.1	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-13I	03/20/00	633	6.72	22.6	-	-	-	-	-	-	-	<1	<1	3.7	<1
IT-13I	06/06/00	627	6.58	23.8	-	-	-	-	-	-	-	<1	<1	1.1	<1
IT-14S	11/06/91	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
IT-14S	03/07/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-14S	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-14S	09/22/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-14S	12/15/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-14S	03/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-14S	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-14S	09/22/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-14S	12/14/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-14S	03/29/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-14S	06/28/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-14S	09/22/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-14S	12/14/99	482	6.82	21.8	-	-	-	-	-	-	-	<1	<1	<1	<1
IT-14S	03/20/00	481	6.97	22.6	-	-	-	-	-	-	-	<1	<1	2.6	<1
IT-14S	06/06/00	484	7.04	23.3	-	-	-	-	-	-	-	<1	<1	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD		3 µg/L*	70 µg/L*	1 µg/L***	1 µg/L*	9.8 µg/L***	12 µg/L***	5.7 µg/L***	2.7 µg/L***	70 µg/L*	700 µg/L*	5 µg/L*	3 µg/L*	1000 µg/L*	100 µg/L*
UNITS		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
IT-13I	04/19/91	<0.3	<1.0	-	NA	<1.2	<5.2	<0.5	<0.8	-	NA	<5	<0.3	NA	-
IT-13I	10/25/91	0.3	<1.2	-	NA	<1.2	<5.2	<0.5	<4	-	NA	<5	0.3	NA	-
IT-13I	12/19/91	<0.3	<1.0	-	NA	<1.2	<5.2	<0.5	<0.8	-	NA	<5	<0.3	NA	-
IT-13I	06/17/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-13I	09/22/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-13I	12/15/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-13I	03/16/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-13I	06/15/98	<1	-	-	1.2	<1	1.2	<1	<1	1.7	<1	<5	<1	<1	<1
IT-13I	09/22/98	<1	-	-	<1.0	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-13I	12/14/98	<1	-	-	<1	<1	<1	<1	<1	1.2	<1	<5	<1	<1	<1
IT-13I	03/29/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-13I	06/28/99	<1	-	-	<1	<1	<1	<1	<1	1.1	<1	<5	<1	<1	<1
IT-13I	09/22/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-13I	12/14/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-13I	03/20/00	<1	-	<10	<1	<2	<2	<1	<1	3.1	<1	<5	<1	<1	<1
IT-13I	06/06/00	<1	-	<10	<1	<2	<2	<1	<1	<1	<1	<3	<1	<1	<1
IT-14S	11/06/91	<5	<5	-	<5	<10	<10	<5	<10	-	<5	1.0	<5	<5	-
IT-14S	03/07/96	<1	<1	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-
IT-14S	06/17/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-14S	09/22/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-14S	12/15/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-14S	03/16/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-14S	06/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-14S	09/22/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-14S	12/14/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-14S	03/29/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-14S	06/28/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-14S	09/22/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-14S	12/14/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
IT-14S	03/20/00	<1	-	<10	<1	<2	<2	<1	<1	2.1	<1	<5	<2	<1	<1
IT-14S	06/06/00	<1	-	<10	<1	<2	<2	<1	<1	<1	<1	<3	<2	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD		3 µg/L*	2100 µg/L***	1 µg/L*	(1)
UNITS		µg/L	µg/L	µg/L	µg/L
IT-13I	04/19/91	<1.2	<2.0	<1.8	-
IT-13I	10/25/91	1.8	<2.0	<1.8	4.4
IT-13I	12/19/91	<1.2	3.3	<1.8	4.3
IT-13I	06/17/97	<1	<1	<1	-
IT-13I	09/22/97	<1	<1	<1	-
IT-13I	12/15/97	<1	<1	<1	-
IT-13I	03/16/98	<1	<1	<1	-
IT-13I	06/15/98	2.3	<1	<1	8.1
IT-13I	09/22/98	1.2	<1	<1	2.5
IT-13I	12/14/98	1.6	<1	<1	4.4
IT-13I	03/29/99	<1	<1	<1	-
IT-13I	06/28/99	1.2	<1	<1	2.3
IT-13I	09/22/99	1.2	<1	<1	2.3
IT-13I	12/14/99	1.7	<1	<1	1.7
IT-13I	03/20/00	1	<1	<1	7.8
IT-13I	06/06/00	1.1	<1	<1	2.2
IT-14S	11/06/91	<5	NA	<10	-
IT-14S	03/07/96	<1	<1	<1	-
IT-14S	06/17/97	<1	<1	<1	-
IT-14S	09/22/97	<1	<1	<1	-
IT-14S	12/15/97	<1	<1	<1	-
IT-14S	03/16/98	<1	<1	<1	-
IT-14S	06/15/98	<1	<1	<1	-
IT-14S	09/22/98	<1	<1	<1	-
IT-14S	12/14/98	<1	<1	<1	-
IT-14S	03/29/99	<1	<1	<1	-
IT-14S	06/28/99	<1	<1	<1	-
IT-14S	09/22/99	<1	<1	<1	-
IT-14S	12/14/99	<1	<1	<1	-
IT-14S	03/20/00	<1	<1	<1	4.7
IT-14S	06/06/00	<1	<1	<1	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
YTA-1	03/07/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	4.3
YTA-1	06/18/97	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
YTA-1	09/23/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	4.2
YTA-1	12/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	4.9
YTA-1	03/17/98	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
YTA-1	06/17/98	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
YTA-1	09/23/98	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
YTA-1	12/16/98	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	5.2
YTA-1	03/30/99	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	5.2
YTA-1	06/28/99	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	5.2
YTA-1	09/22/99	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
YTA-1	12/14/99	449	7.37	21.5	-	-	-	-	-	-	-	<1	<1	<1	5.7
YTA-1 D	12/14/99	449	7.37	21.5	-	-	-	-	-	-	-	<1	<1	<1	6.2
YTA-1	03/21/00	305	7.42	22.0	-	-	-	-	-	-	-	<1	<1	2.5	4.9
YTA-1 D	03/21/00	447	7.14	22.0	-	-	-	-	-	-	-	<1	<1	2.5	4.8
YTA-1	06/08/00	445	7.20	23.4	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	03/07/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	03/22/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	06/18/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	09/23/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	12/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	03/17/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	06/17/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	09/23/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	12/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	03/30/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	06/28/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	09/22/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	12/14/99	274	6.90	21.5	-	-	-	-	-	-	-	<1	<1	<1	<1
YTA-2	03/21/00	274	6.86	22.9	-	-	-	-	-	-	-	<1	<1	2.4	<1
YTA-2	06/08/00	279	6.81	23.0	-	-	-	-	-	-	-	<1	<1	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD UNITS		3 µg/L* µg/L	70 µg/L* µg/L	1 µg/L*** µg/L	1 µg/L* µg/L	9.8 µg/L*** µg/L	12 µg/L*** µg/L	5.7 µg/L*** µg/L	2.7 µg/L*** µg/L	70 µg/L* µg/L	700 µg/L* µg/L	5 µg/L* µg/L	3 µg/L* µg/L	1000 µg/L* µg/L	100 µg/L* µg/L
YTA-1	03/07/96	<1	190	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1
YTA-1	06/18/97	<5	-	-	<5	<5	<5	<5	<5	180	<5	<25	<5	<5	<5
YTA-1	09/23/97	<1	-	-	<1	<1	<1	<1	<1	180	<1	<5	<1	<1	1.1
YTA-1	12/17/97	<1	-	-	<1	<1	<1	<1	<1	230	<1	<5	<1	<1	<1
YTA-1	03/17/98	<5	-	-	<5	<5	<5	<5	<5	240	<5	<25	<5	<5	<5
YTA-1	06/17/98	<5	-	-	<5	<5	<5	<5	<5	240	<5	<25	<5	<5	<5
YTA-1	09/23/98	<5	-	-	<5	<5	<5	<5	<5	230	<5	<25	<5	<5	<5
YTA-1	12/16/98	<5	-	-	<5	<5	<5	<5	<5	320	<5	<25	<5	<5	<5
YTA-1	03/30/99	<5	-	-	<5	<5	<5	<5	<5	340	<5	<25	<5	<5	<5
YTA-1	06/28/99	<5	-	-	<5	<5	<5	<5	<5	360	<5	<25	<5	<5	<5
YTA-1	09/22/99	<5	-	-	<5	<5	<5	<5	<5	420	<5	<25	<5	<5	<5
YTA-1	12/14/99	<1	-	-	<1	<1	<1	<1	<1	550	<1	<5	<1	<1	<1
YTA-1 D	12/14/99	<1	-	-	<1	<1	<1	<1	<1	560	<1	<5	<1	<1	<1
YTA-1	03/21/00	<1	-	<10	<1	<2	<2	<1	<1	700	<2	<5	<2	<1	7.8
YTA-1 D	03/21/00	<1	-	<!0	<1	<2	<2	<1	<1	460	<2	<5	<2	<1	5.3
YTA-1	06/08/00	<1	-	<10	<1	<2	<2	<1	<1	330	<2	<5	<2	<1	<1
YTA-2	03/07/96	<1	8.9	-	<!	<!	<!	<!	<!	-	<!	<1	<!	<1	-
YTA-2	03/22/96	<1	16	-	<!	<!	<!	<!	<!	-	<!	<1	<!	<1	-
YTA-2	06/18/97	<1	-	-	<!	<!	<!	<!	<!	18	<!	<5	<!	<1	<1
YTA-2	09/23/97	<1	-	-	<!	<!	<!	<!	<!	15	<!	<5	<!	<1	<1
YTA-2	12/17/97	<1	-	-	<!	<!	<!	<!	<!	28	<!	<5	<!	<1	<1
YTA-2	03/17/98	<1	-	-	<!	<!	<!	<!	<!	19	<!	<5	<!	<1	<1
YTA-2	06/17/98	<1	-	-	<!	<!	<!	<!	<!	19	<!	<5	<!	<1	<1
YTA-2	09/23/98	<1	-	-	<!	<!	<!	<!	<!	22	<!	<5	<!	<1	<1
YTA-2	12/16/98	<1	-	-	<!	<!	<!	<!	<!	21	<!	<5	<!	<1	<1
YTA-2	03/30/99	<1	-	-	<!	<!	<!	<!	<!	10	<!	<5	<!	<1	<1
YTA-2	06/28/99	<1	-	-	<!	<!	<!	<!	<!	4.7	<!	<5	<!	<1	<1
YTA-2	09/22/99	<1	-	-	<!	<!	<!	<!	<!	10	<!	<5	<!	<1	<1
YTA-2	12/14/99	<1	-	-	<!	<!	<!	<!	<!	11	<!	<5	<!	<1	<1
YTA-2	03/21/00	<1	-	<10	<!	<2	<2	<!	<!	13	<2	<5	<2	<1	2.4
YTA-2	06/08/00	<1	-	<10	<!	<2	<2	<!	<!	9.6	<2	<5	<2	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD UNITS		3 µg/L* µg/L	2100 µg/L*** µg/L	1 µg/L* µg/L	(1) µg/L
YTA-1	03/07/96	150	<1	22	366.3
YTA-1	06/18/97	160	<5	30	370
YTA-1	09/23/97	140	<1	24	349.3
YTA-1	12/17/97	120	<1	33	387.9
YTA-1	03/17/98	130	<5	43	413
YTA-1	06/17/98	120	<5	32	392
YTA-1	09/23/98	71	<5	24	325
YTA-1	12/16/98	95	<5	51	471.2
YTA-1	03/30/99	76	<5	37	458.2
YTA-1	06/28/99	93	<5	51	509.2
YTA-1	09/22/99	84	<5	42	546
YTA-1	12/14/99	82	<1	39	676.7
YTA-1 D	12/14/99	97	<1	46	709.2
YTA-1	03/21/00	79	<1	87	881.2
YTA-1 D	03/21/00	86	<1	89	647.6
YTA-1	06/08/00	59	<1	45	434
YTA-2	03/07/96	4.1	<1	<1	13
YTA-2	03/22/96	17	<1	<1	33
YTA-2	06/18/97	6.4	<1	<1	24.4
YTA-2	09/23/97	7.2	<1	1.1	23.3
YTA-2	12/17/97	13	<1	2.2	43.2
YTA-2	03/17/98	9	<1	1.3	29.3
YTA-2	06/17/98	8.7	<1	1.2	28.9
YTA-2	09/23/98	12	<1	2.0	36
YTA-2	12/16/98	12	<1	1.4	34.4
YTA-2	03/30/99	2.9	<1	<1	12.9
YTA-2	06/28/99	1.2	<1	<1	5.9
YTA-2	09/22/99	2.8	<1	1.1	13.9
YTA-2	12/14/99	4.5	2	1.9	19.4
YTA-2	03/21/00	1.6	<1	<1	19.4
YTA-2	06/08/00	2.3	<1	<1	11.9

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
M-1R	03/08/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
M-1R	06/18/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
M-1R	09/24/97	-	-	-	-	-	-	-	-	-	-	<25	<25	<25	<25
M-1R	12/16/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	2.2
M-1R	03/17/98	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	1.6J
M-1R	06/17/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	2.0
M-1R	09/24/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	1.7
M-1R	12/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	2.3
M-1R	03/30/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	1.8
M-1R	06/29/99	-	-	-	-	-	-	-	-	-	-	<2.5	<2.5	<2.5	<2.5
M-1R	09/23/99	-	-	-	-	-	-	-	-	-	-	<2.5	<2.5	<2.5	<2.5
M-1R	12/16/99	696	6.78	21.1	-	-	-	-	-	-	-	<1	<1	<1	3.7
M-1R	03/21/00	681	6.77	21.1	-	-	-	-	-	-	-	<1	<1	3.1	2.2
M-1R	06/07/00	691	6.73	23.1	-	-	-	-	-	-	-	<1	<1	<1	<1
RW-1	03/08/96	-	-	-	-	-	-	-	-	-	-	<10	<10	15	14
RW-1	11/19/96	-	-	-	-	-	-	-	-	-	-	<1	<1	16	20
RW-1	11/25/96	-	-	-	-	-	-	-	-	-	-	<5	<5	8.2	11
RW-1	12/04/96	-	-	-	-	-	-	-	-	-	-	<1	<1	8.9	13
RW-1	12/10/96	-	-	-	-	-	-	-	-	-	-	<1	<1	11	14
RW-1	06/19/97	-	-	-	-	-	-	-	-	-	-	<5	<5	6.6	9
RW-1	09/24/97	-	-	-	-	-	-	-	-	-	-	<5	<5	6.2	9.6
RW-1	12/17/97	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
RW-1	04/15/98	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
RW-1	06/17/98	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
RW-1	09/24/98	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
RW-1	12/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	1.9	2.6
RW-1	03/31/99	-	-	-	-	-	-	-	-	-	-	<1	<1	1.4	1.5
RW-1	06/29/99	-	-	-	-	-	-	-	-	-	-	<1	<1	2.0	2.3
RW-1	09/23/99	-	-	-	-	-	-	-	-	-	-	<1	<1	1.2	1.3
RW-1	12/15/99	381	7.60	21.3	-	-	-	-	-	-	-	<1	<1	1.3	3.6
RW-1	03/22/00	327	7.48	21.7	-	-	-	-	-	-	-	<1	<1	2.4	<1
RW-1	06/07/00	366	7.17	22.0	-	-	-	-	-	-	-	<1	<1	<1	<1
RW-1 D	06/07/00	366	7.17	220	-	-	-	-	-	-	-	<1	<1	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICH/ORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD		3 µg/L*	70 µg/L*	1 µg/L***	1 µg/L*	9.8 µg/L***	12 µg/L***	5.7 µg/L***	2.7 µg/L***	70 µg/L*	700 µg/L*	5 µg/L*	3 µg/L*	1000 µg/L*	100 µg/L*
UNITS		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
M-1R	03/08/96	<1	250	-	<1	<1	<1	<1	<1	-	<1	<5	1.1	<1	-
M-1R	06/18/97	<1	-	-	<1	<1	<1	<1	<1	320	<1	<5	<1	<1	1.3
M-1R	09/24/97	<25	-	-	<25	<25	<25	<25	<25	460	<25	<120	<25	<25	<25
M-1R	12/16/97	<1	-	-	<1	<1	<1	<1	<1	460	<1	<5	<1	<1	2.2
M-1R	03/17/98	<5	-	-	<5	<5	<5	<5	<5	330	<5	<25	<5	<5	1.5J
M-1R	06/17/98	<1	-	-	<1	<1	<1	<1	<1	520	<1	<5	<1	<1	2.0
M-1R	09/24/98	<1	-	-	<1	<1	<1	<1	<1	430	<1	<5	<1	<1	1.9
M-1R	12/16/98	<1	-	-	<1	<1	<1	<1	<1	600	<1	<5	<1	<1	2.7
M-1R	03/30/99	<1	-	-	<1	<1	<1	<1	<1	640	<1	<5	<1	<1	1.8
M-1R	06/29/99	<2.5	-	-	<2.5	<2.5	<2.5	<2.5	<2.5	520	<2.5	<12.0	<2.5	<2.5	<2.5
M-1R	09/23/99	<2.5	-	-	<2.5	<2.5	<2.5	<2.5	<2.5	620	<2.5	<12.0	<2.5	<2.5	<2.5
M-1R	12/16/99	<1	-	-	<1	<1	<1	<1	<1	850	<1	<5	<1	<1	1.4
M-1R	03/21/00	<1	-	<10	<1	<1	<1	<1	<1	690	<1	<5	<2	<1	7.7
M-1R	06/07/00	<1	-	<10	<1	<1	<1	<1	<1	590	<1	<5	<2	<1	1.6
RW-1	03/08/96	<10	300	-	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	-
RW-1	11/19/96	<1	590	-	<1	<1	<1	<1	<1	-	<1	<5	8.8	1.7	-
RW-1	11/25/96	<5	280	-	<5	<5	<5	<5	<5	-	<5	<25	<5	<5	-
RW-1	12/04/96	<1	280	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
RW-1	12/10/96	<1	310	-	<1	<1	<1	<1	<1	-	<1	<5	4.7	<1	-
RW-1	06/19/97	<5	-	-	<5	<5	<5	<5	<5	180	<5	<25	<5	<5	<5
RW-1	09/24/97	<5	-	-	<5	<5	<5	<5	<5	200	<5	<25	<5	<5	<5
RW-1	12/17/97	<5	-	-	<5	<5	<5	<5	<5	98	<5	<25	<5	<5	<5
RW-1	04/15/98	<5	-	-	<5	<5	<5	<5	<5	75	<5	<25	<5	<5	<5
RW-1	06/17/98	<5	-	-	<5	<5	<5	<5	<5	49	<5	<25	<5	<5	<5
RW-1	09/24/98	<5	-	-	<5	<5	<5	<5	<5	39	<5	<25	<5	<5	<5
RW-1	12/16/98	<1	-	-	<1	<1	<1	<1	<1	50	<1	<5	<1	<1	<1
RW-1	03/31/99	<1	-	-	<1	<1	<1	<1	<1	45	<1	<5	<1	<1	<1
RW-1	06/29/99	<1	-	-	<1	<1	<1	<1	<1	70	<1	<5	<1	<1	<1
RW-1	09/23/99	<1	-	-	<1	<1	<1	<1	<1	43	<1	<5	<1	<1	<1
RW-1	12/15/99	<1	-	-	<1	<1	<1	<1	<1	46	<1	<5	<1	<1	<1
RW-1	03/22/00	<1	-	<10	<1	<2	<2	<1	<1	5.3	<1	<5	<2	<1	<1
RW-1	06/07/00	<1	-	<10	<1	<2	<2	<1	<1	30	<1	<5	<2	<1	<1
RW-1 D	06/07/00	<1	-	<10	<1	<2	<2	<1	<1	30	<1	<5	<2	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD		3 µg/L*	2100 µg/L***	1 µg/L*	(1)
UNITS		µg/L	µg/L	µg/L	µg/L
M-1R	03/08/96	340	<1	2.2	594.4
M-1R	06/18/97	81	<1	52	454.3
M-1R	09/24/97	190	<25	<25	650
M-1R	12/16/97	92	<1	20	576.4
M-1R	03/17/98	32	<5	25	390.1
M-1R	06/17/98	87	<1	12	623
M-1R	09/24/98	56	<1	14	503.6
M-1R	12/16/98	78	<1	16	699
M-1R	03/30/99	67	<1	15	725.6
M-1R	06/29/99	50	<2.5	15	585
M-1R	09/23/99	53	<2.5	16	689
M-1R	12/16/99	43	<1	11	909.1
M-1R	03/21/00	44	<1	28	775
M-1R	06/07/00	44	<1	17	652.6
RW-1	03/08/96	350	<10	<10	679
RW-1	11/19/96	490	<1	17	1143.5
RW-1	11/25/96	200	<5	8.8	508
RW-1	12/04/96	260	<1	10	571.9
RW-1	12/10/96	280	<1	9.4	629.1
RW-1	06/19/97	150	<5	5.2	350.8
RW-1	09/24/97	150	<5	6.6	372.4
RW-1	12/17/97	75	<5	<5	173
RW-1	04/15/98	80	<5	<5	155
RW-1	06/17/98	68	<5	<5	117
RW-1	09/24/98	39	<5	<5	78
RW-1	12/16/98	50	<1	3.4	109.9
RW-1	03/31/99	41	<1	2.0	90.9
RW-1	06/29/99	59	<1	2.7	136
RW-1	09/23/99	28	<1	1.7	75.2
RW-1	12/15/99	26	<1	<1	76.9
RW-1	03/22/00	1.9	<1	<1	9.6
RW-1	06/07/00	19	<1	<1	49
RW-1 D	06/07/00	19	<1	<1	49

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
RW-3R	04/15/98	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
RW-3R	06/17/98	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	5.1
RW-3R	09/24/98	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
RW-3R	12/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	2.7
RW-3R	03/31/99	-	-	-	-	-	-	-	-	-	-	<1	<1	1.3	<1
RW-3R	06/28/99	-	-	-	-	-	-	-	-	-	-	<1	<1	1.5	1.9
RW-3R	09/23/99	-	-	-	-	-	-	-	-	-	-	1.0	<1	1.3	1.6
RW-3R	12/15/99	425	7.28	21.4	-	-	-	-	-	-	-	<1	<1	<1	3.2
RW-3R	03/22/00	408	7.14	22.1	-	-	-	-	-	-	-	<1	<1	<1	<1
RW-3R	06/07/00	408	7.04	22.2	-	-	-	-	-	-	-	<1	<1	<1	<1
RW-3	11/19/96	-	-	-	-	-	-	-	-	-	-	1.3	<1	3.3	3.6
RW-3	11/25/96	-	-	-	-	-	-	-	-	-	-	1.2	<1	2.8	3.3
RW-3	12/04/96	-	-	-	-	-	-	-	-	-	-	1.3	<1	2.9	3.4
RW-3	12/10/96	-	-	-	-	-	-	-	-	-	-	1.3	<1	2.6	3.0
RW-3	06/19/97	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
RW-3	09/30/97	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
RW-3	12/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	2.8	3.0
RW-3	03/18/98	-	-	-	-	-	-	-	-	-	-	<1	<1	2.2	2.5

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD		3 µg/L*	70 µg/L*	1 µg/L***	1 µg/L*	9.8 µg/L***	12 µg/L***	5.7 µg/L***	2.7 µg/L***	70 µg/L*	700 µg/L*	5 µg/L*	3 µg/L*	1000 µg/L*	100 µg/L*
UNITS		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
RW-3R	04/15/98	<5	-	-	<5	<5	<5	<5	<5	24	<5	<5	<25	<5	<5
RW-3R	06/17/98	<5	-	-	<5	<5	<5	<5	<5	79	<5	<5	<25	<5	<5
RW-3R	09/24/98	<5	-	-	<5	<5	<5	<5	<5	42	<5	<5	<25	<5	<5
RW-3R	12/16/98	<1	-	-	<1	<1	<1	<1	<1	52	<1	<1	<5	<1	<1
RW-3R	03/31/99	<1	-	-	<1	<1	<1	<1	<1	40	<1	<1	<5	<1	<1
RW-3R	06/28/99	<1	-	-	<1	<1	<1	<1	<1	50	<1	<1	<5	<1	<1
RW-3R	09/23/99	<1	-	-	<1	<1	<1	<1	<1	42	<1	<1	<5	<1	<1
RW-3R	12/15/99	<1	-	-	<1	<1	<1	<1	<1	34	<1	<1	<5	<1	<1
RW-3R	03/22/00	<1	-	<10	<1	<2	<2	<1	<1	<1	<1	<1	<5	<1	<1
RW-3R	06/07/00	<1	-	<10	<1	<2	<2	<1	<1	25	<1	<1	<5	<1	<1
RW-3	11/19/96	<1	83	-	<1	<1	<1	<1	<1	-	<1	<1	<5	<1	-
RW-3	11/25/96	<1	56	-	<1	<1	<1	<1	<1	-	<1	<1	<5	<1	-
RW-3	12/04/96	<1	52	-	<1	<1	<1	<1	<1	-	<1	<1	<5	<1	-
RW-3	12/10/96	<1	56	-	2.0	<1	<1	<1	<1	-	2.0	<1	<5	<1	-
RW-3	06/19/97	<5	-	-	<5	<5	<5	<5	<5	70	<5	<5	<5	<5	<5
RW-3	09/30/97	<5	-	-	<5	<5	<5	<5	<5	48	<5	<5	<25	<5	<5
RW-3	12/17/97	<1	-	-	<1	<1	<1	<1	<1	77	<1	<1	<5	<1	<1
RW-3	03/18/98	<1	-	-	<1	<1	<1	<1	<1	66	<1	<1	<5	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD		3 µg/L*	2100 µg/L***	1 µg/L*	(1)
UNITS		µg/L	µg/L	µg/L	µg/L
RW-3R	04/15/98	110	<5	<5	134
RW-3R	06/17/98	200	<5	6.3	290.4
RW-3R	09/24/98	75	<5	7.6	124.6
RW-3R	12/16/98	94	<1	8.1	156.8
RW-3R	03/31/99	64	<1	4.9	110.2
RW-3R	06/28/99	72	<1	5.5	130.9
RW-3R	09/23/99	45	<1	4.3	95.2
RW-3R	12/15/99	25	<1	2.4	64.6
RW-3R	03/22/00	<1	<1	<1	-
RW-3R	06/07/00	25	<1	2.4	52.4
RW-3	11/19/96	130	<1	15	236.2
RW-3	11/25/96	100	<1	9.4	172.7
RW-3	12/04/96	82	<1	11.0	152.6
RW-3	12/10/96	95	<1	9.1	169
RW-3	06/19/97	110	<5	9.3	189.3
RW-3	09/30/97	81	<5	<5	129
RW-3	12/17/97	64	<1	9.8	156.6
RW-3	03/18/98	48	<1	4.5	123.2

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
Private															
PW-32 C.BOCHINA	03/25/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-32 C.BOCHINA	06/15/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-32 C.BOCHINA	09/08/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-32 C.BOCHINA	12/21/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-32 C.BOCHINA	03/18/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-32 C.BOCHINA	06/10/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-32 C.BOCHINA	09/05/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-32 C.BOCHINA	12/06/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-32 C.BOCHINA	03/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-32 C.BOCHINA	06/18/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-32 C.BOCHINA	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-32 C.BOCHINA	06/28/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-32 C.BOCHINA	03/22/00	275	7.60	20.6	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	03/29/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	06/15/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	09/08/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	12/21/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	03/18/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	06/10/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	09/05/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	12/09/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	03/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	06/28/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-34 HORNE	03/22/00	284	7.69	20.8	-	-	-	-	-	-	-	<1	<1	2.4	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD UNITS		3 µg/L* µg/L	70 µg/L* µg/L	1 µg/L*** µg/L	1 µg/L* µg/L	9.8 µg/L*** µg/L	12 µg/L*** µg/L	5.7 µg/L*** µg/L	2.7 µg/L*** µg/L	70 µg/L* µg/L	700 µg/L* µg/L	5 µg/L* µg/L	3 µg/L* µg/L	1000 µg/L* µg/L	100 µg/L* µg/L
Private															
PW-32 C.BOCHINA	03/25/95	<1	<1	-	<1	<2	<1	1.2	<1	-	<1	<1	<1	<1	-
PW-32 C.BOCHINA	06/15/95	<1	<1	-	<1	<2	<1	1.1	<1	-	<1	<1	<1	<1	-
PW-32 C.BOCHINA	09/08/95	<1	<1	-	<1	<2	<1	<1	<1	-	<1	<1	<1	<1	-
PW-32 C.BOCHINA	12/21/95	<1	<1	-	<1	<2	<1	<1	<1	-	<1	<1	<1	<1	-
PW-32 C.BOCHINA	03/18/96	<1	<1	-	<1	<1	<1	1.3	<1	-	<1	<1	<1	<1	-
PW-32 C.BOCHINA	06/10/96	<1	<1	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-
PW-32 C.BOCHINA	09/05/96	<1	<1	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-32 C.BOCHINA	12/06/96	<1	<1	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-32 C.BOCHINA	03/17/97	<1	<1	-	<1	<1	<1	1.2	<1	-	<1	<5	<1	<1	-
PW-32 C.BOCHINA	06/18/97	<1	-	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-32 C.BOCHINA	06/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
PW-32 C.BOCHINA	06/28/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
PW-32 C.BOCHINA	03/22/00	<1	-	<10	<1	<2	<2	<1	<1	<1	<1	<5	<2	<1	<1
PW-34 HORNE	03/29/95	<1	2.2	-	<1	<2	<1	2.5	<1	-	<1	<1	<1	<1	-
PW-34 HORNE	06/15/95	<1	2.5	-	<1	<2	<1	2.7	<1	-	<1	<1	<1	<1	-
PW-34 HORNE	09/08/95	<1	1.4	-	<1	<2	<1	1.9	<1	-	<1	<1	<1	<1	-
PW-34 HORNE	12/21/95	<1	1.4	-	<1	<2	<1	1.8	<1	-	<1	<1	<1	<1	-
PW-34 HORNE	03/18/96	<1	1.1	-	<1	<1	<1	1.6	<1	-	<1	<1	<1	<1	-
PW-34 HORNE	06/10/96	<1	1.7	-	<1	<1	<1	1.4	<1	-	<1	<1	<1	<1	-
PW-34 HORNE	09/05/96	<1	1.5	-	<1	<1	<1	1.9	<1	-	<1	<5	<1	<1	-
PW-34 HORNE	12/09/96	<1	1.5	-	<1	<1	<1	1.6	<1	-	<1	<5	<1	<1	-
PW-34 HORNE	03/17/97	<1	1.8	-	<1	<1	<1	1.3	<1	-	<1	<5	<1	<1	-
PW-34 HORNE	06/17/97	<1	-	-	<1	<1	<1	1.8	<1	1.5	<1	<5	<1	<1	<1
PW-34 HORNE	06/15/98	<1	-	-	<1	<1	<1	1.8	<1	<1	<1	<5	<1	<1	<1
PW-34 HORNE	06/28/99	<1	-	-	<1	<1	<1	1.4	<1	1.1	<1	<5	<1	<1	<1
PW-34 HORNE	03/22/00	<1	-	<10	<1	<2	<2	1.4	<1	3.5	<1		<1	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD UNITS		3 µg/L* µg/L	2100 µg/L*** µg/L	1 µg/L* µg/L	(1) µg/L
Private					
PW-32 C.BOCHINA	03/25/95	<1	<1	<1	1.2
PW-32 C.BOCHINA	06/15/95	<1	<1	<1	1.1
PW-32 C.BOCHINA	09/08/95	<1	<1	<1	-
PW-32 C.BOCHINA	12/21/95	<1	<1	<1	-
PW-32 C.BOCHINA	03/18/96	<1	<1	<1	1.3
PW-32 C.BOCHINA	06/10/96	<1	<1	<1	-
PW-32 C.BOCHINA	09/05/96	<1	<1	<1	-
PW-32 C.BOCHINA	12/06/96	<1	<1	<1	-
PW-32 C.BOCHINA	03/17/97	<1	<1	<1	1.2
PW-32 C.BOCHINA	06/18/97	<1	<1	<1	-
PW-32 C.BOCHINA	06/15/98	<1	<1	<1	-
PW-32 C.BOCHINA	06/28/99	<1	<1	<1	-
PW-32 C.BOCHINA	03/22/00	<1	<1	<1	-
PW-34 HORNE	03/29/95	2.4	<1	<1	7.1
PW-34 HORNE	06/15/95	2.4	<1	<1	7.6
PW-34 HORNE	09/08/95	2	<1	<1	5.3
PW-34 HORNE	12/21/95	2	<1	<1	5.2
PW-34 HORNE	03/18/96	1.7	<1	<1	4.4
PW-34 HORNE	06/10/96	2.1	<1	<1	5.2
PW-34 HORNE	09/05/96	2.1	<1	<1	5.5
PW-34 HORNE	12/09/96	2.2	<1	<1	5.3
PW-34 HORNE	03/17/97	2.2	<1	<1	5.3
PW-34 HORNE	06/17/97	2.2	<1	<1	5.5
PW-34 HORNE	06/15/98	1.6	<1	<1	3.4
PW-34 HORNE	06/28/99	1.5	<1	<1	4
PW-34 HORNE	03/22/00	1.2	<1	<1	8.5

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
PW-35 F.BOCHINA	03/29/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	01/22/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	03/18/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	06/10/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	09/05/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	12/09/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	03/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	06/18/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	09/22/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	12/15/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	03/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	09/22/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	12/14/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	03/29/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	06/28/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	12/14/99	382	7.49	20.0	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	03/22/00	373	7.60	20.9	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-35 F.BOCHINA	06/06/00	369	7.26	22.8	-	-	-	-	-	-	-	<1	<1	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICH/ORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD		3 µg/L*	70 µg/L*	1 µg/L***	1 µg/L*	9.8 µg/L***	12 µg/L***	5.7 µg/L***	2.7 µg/L***	70 µg/L*	700 µg/L*	5 µg/L*	3 µg/L*	1000 µg/L*	100 µg/L*
UNITS		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
PW-35 F.BOCHINA	03/29/95	<1	6.7	-	<1	<2	<1	<1	<1	-	<1	<1	<1	<1	-
PW-35 F.BOCHINA	01/22/96	<1	9.6	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-
PW-35 F.BOCHINA	03/18/96	<1	8.5	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-
PW-35 F.BOCHINA	06/10/96	<1	12	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-
PW-35 F.BOCHINA	09/05/96	<1	9.1	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-35 F.BOCHINA	12/09/96	<1	8.4	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-35 F.BOCHINA	03/17/97	<1	2.6	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-35 F.BOCHINA	06/18/97	<1	-	-	<1	<1	<1	<1	<1	4.7	<1	<5	<1	<1	<1
PW-35 F.BOCHINA	09/22/97	<1	-	-	<1	<1	<1	<1	<1	5.4	<1	<5	<1	<1	<1
PW-35 F.BOCHINA	12/15/97	<1	-	-	<1	<1	<1	<1	<1	4.8	<1	<5	<1	<1	<1
PW-35 F.BOCHINA	03/16/98	<1	-	-	<1	<1	<1	<1	<1	5.9	<1	<5	<1	<1	<1
PW-35 F.BOCHINA	06/15/98	<1	-	-	<1	<1	<1	<1	<1	5.6	<1	<5	<1	<1	<1
PW-35 F.BOCHINA	09/22/98	<1	-	-	<1	<1	<1	<1	<1	6.3	<1	<5	<1	<1	<1
PW-35 F.BOCHINA	12/14/98	<1	-	-	<1	<1	<1	<1	<1	7.3	<1	<5	<1	<1	<1
PW-35 F.BOCHINA	03/29/99	<1	-	-	<1	<1	<1	<1	<1	7.9	<1	<5	<1	<1	<1
PW-35 F.BOCHINA	06/28/99	<1	-	-	<1	<1	<1	<1	<1	8.3	<1	<5	<1	<1	<1
PW-35 F.BOCHINA	12/14/99	<1	-	-	<1	<1	<1	<1	<1	5	<1	<5	<1	<1	<1
PW-35 F.BOCHINA	03/22/00	<1	-	<10	<1	<2	<2	<1	2.5	8.2	<1	<5	<2	<1	<1
PW-35 F.BOCHINA	06/06/00	<1	-	<10	<1	<2	<2	<1	<1	7.4	<1	<5	<2	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD UNITS		3 µg/L* µg/L	2100 µg/L*** µg/L	1 µg/L* µg/L	(1) µg/L
PW-35 F.BOCHINA	03/29/95	3.1	<1	<!	9.8
PW-35 F.BOCHINA	01/22/96	4.5	<1	1.2	15.3
PW-35 F.BOCHINA	03/18/96	5	<1	<!	13.5
PW-35 F.BOCHINA	06/10/96	6	<1	1.7	19.7
PW-35 F.BOCHINA	09/05/96	5.7	<1	1.6	16.4
PW-35 F.BOCHINA	12/09/96	4.6	<1	1.8	14.8
PW-35 F.BOCHINA	03/17/97	1.4	<1	<!	4
PW-35 F.BOCHINA	06/18/97	3.2	<1	<!	7.9
PW-35 F.BOCHINA	09/22/97	3.0	<1	<!	8.4
PW-35 F.BOCHINA	12/15/97	2.5	<1	<!	7.3
PW-35 F.BOCHINA	03/16/98	3.6	<1	<!	9.5
PW-35 F.BOCHINA	06/15/98	3.5	<1	<!	9.1
PW-35 F.BOCHINA	09/22/98	3.3	<1	<!	9.6
PW-35 F.BOCHINA	12/14/98	4.0	<1	<!	11.3
PW-35 F.BOCHINA	03/29/99	3.7	<1	<!	11.6
PW-35 F.BOCHINA	06/28/99	3.6	<1	<!	11.9
PW-35 F.BOCHINA	12/14/99	2.2	<1	<!	7.2
PW-35 F.BOCHINA	03/22/00	1.2	<1	<!	14.3
PW-35 F.BOCHINA	06/06/00	2.1	<1	1	10.5

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
PW-37 BROWNING	03/29/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-37 BROWNING	06/15/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-37 BROWNING	09/08/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-37 BROWNING	12/21/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-37 BROWNING	03/18/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-37 BROWNING	06/10/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-37 BROWNING	09/05/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-37 BROWNING	12/09/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-37 BROWNING	03/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1*Q	<1	<1
PW-37 BROWNING	06/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-37 BROWNING	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-37 BROWNING	06/28/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-37 BROWNING	03/22/00	322	7.55	17.7	-	-	-	-	-	-	-	<1	<1	2.4	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD		3 µg/L*	70 µg/L*	1 µg/L***	1 µg/L*	9.8 µg/L***	12 µg/L***	5.7 µg/L***	2.7 µg/L***	70 µg/L*	700 µg/L*	5 µg/L*	3 µg/L*	1000 µg/L*	100 µg/L*
UNITS		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
PW-37 BROWNING	03/29/95	<1	1.6	-	<1	<2	<1	<1	<1	-	<1	<1	<1	<1	-
PW-37 BROWNING	06/15/95	<1	1.9	-	<1	<2	<1	<1	<1	-	<1	<1	<1	<1	-
PW-37 BROWNING	09/08/95	<1	1.1	-	<1	<2	<1	<1	<1	-	<1	<1	<1	<1	-
PW-37 BROWNING	12/21/95	<1	1.6	-	<1	<2	<1	<1	<1	-	<1	1	<1	<1	-
PW-37 BROWNING	03/18/96	<1	<1	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-37 BROWNING	06/10/96	<1	1	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-37 BROWNING	09/05/96	<1	1.1	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-37 BROWNING	12/09/96	<1	<1	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-37 BROWNING	03/17/97	<1	<1	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-37 BROWNING	06/17/97	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
PW-37 BROWNING	06/15/98	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
PW-37 BROWNING	06/28/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
PW-37 BROWNING	03/22/00	<1	-	<10	<1	<2	<2	<1	2.1	2.7	<1	<5	<2	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD UNITS		3 µg/L* µg/L	2100 µg/L*** µg/L	1 µg/L* µg/L	(1) µg/L
PW-37 BROWNING	03/29/95	<1	<1	<1	1.6
PW-37 BROWNING	06/15/95	1.6	<1	<1	3.5
PW-37 BROWNING	09/08/95	<1	<1	<1	1.1
PW-37 BROWNING	12/21/95	1.8	<1	<1	4.4
PW-37 BROWNING	03/18/96	<1	<1	<1	-
PW-37 BROWNING	06/10/96	<1	<1	<1	1
PW-37 BROWNING	09/05/96	<1	<1	<1	.1.1
PW-37 BROWNING	12/09/96	<1	<1	<1	-
PW-37 BROWNING	03/17/97	<1	<1	<1	-
PW-37 BROWNING	06/17/97	<1	<1	<1	-
PW-37 BROWNING	06/15/98	<1	<1	<1	-
PW-37 BROWNING	06/28/99	<1	<1	<1	-
PW-37 BROWNING	03/22/00	<1	<1	<1	7.2

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
PW-89 DONALDSON	03/29/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	06/15/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	09/08/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	12/21/95	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	03/18/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	06/10/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	09/05/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	12/09/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	03/17/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	06/18/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	09/22/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	12/15/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	03/16/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	06/15/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	09/22/98	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	12/14/99	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
PW-89 DONALDSON	03/22/00	267	7.06	21.0	-	-	-	-	-	-	-	<1	<1	2.4	<1
Treatment System															
INF-1	03/13/96	-	6.9	-	-	-	320	250	16	81	0.38	<25	<25	<25	<25
INF-2	03/14/96	-	7.2	-	-	-	270	260	10	83	0.31	<25	<25	<25	<25
INF-3	03/15/96	-	6.9	-	-	-	310	270	38	87	0.78	<25	<25	<25	<25
INF-4	03/16/96	-	7	-	-	-	300	290	68	95	1.9	<25	<25	<25	<25

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD UNITS		3 µg/L* µg/L	70 µg/L* µg/L	1 µg/L*** µg/L	1 µg/L* µg/L	9.8 µg/L*** µg/L	12 µg/L*** µg/L	5.7 µg/L*** µg/L	2.7 µg/L*** µg/L	70 µg/L* µg/L	700 µg/L* µg/L	5 µg/L* µg/L	3 µg/L* µg/L	1000 µg/L* µg/L	100 µg/L* µg/L
PW-89 DONALDSON	03/29/95	<1	4.2	-	<1	<2	<1	<1	<1	-	<1	<1	<1	<1	-
PW-89 DONALDSON	06/15/95	<1	5.7	-	<1	<2	<1	<1	<1	-	<1	<1	<1	<1	-
PW-89 DONALDSON	09/08/95	<1	3.7	-	<1	<2	<1	<1	<1	-	<1	<1	<1	<1	-
PW-89 DONALDSON	12/21/95	<1	4.2	-	<1	<2	<1	<1	<1	-	<1	<1	<1	<1	-
PW-89 DONALDSON	03/18/96	<1	3.6	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-
PW-89 DONALDSON	06/10/96	<1	4	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	-
PW-89 DONALDSON	09/05/96	<1	4.1	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-89 DONALDSON	12/09/96	<1	3.8	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-89 DONALDSON	03/17/97	<1	3.4	-	<1	<1	<1	<1	<1	-	<1	<5	<1	<1	-
PW-89 DONALDSON	06/18/97	<1	-	-	<1	<1	<1	<1	<1	2.7	<1	<5	<1	<1	<1
PW-89 DONALDSON	09/22/97	<1	-	-	<1	<1	<1	<1	<1	2.7	<1	<5	<1	<1	<1
PW-89 DONALDSON	12/15/97	<1	-	-	<1	<1	<1	<1	<1	2.4	<1	<5	<1	<1	<1
PW-89 DONALDSON	03/16/98	<1	-	-	<1	<1	<1	<1	<1	1.6	<1	<5	<1	<1	<1
PW-89 DONALDSON	06/15/98	<1	-	-	<1	<1	<1	<1	<1	2.0	<1	<5	<1	<1	<1
PW-89 DONALDSON	09/22/98	<1	-	-	<1	<1	<1	<1	<1	2.6	<1	<5	<1	<1	<1
PW-89 DONALDSON	12/14/98	<1	-	-	<1	<1	<1	<1	<1	2.8	<1	<5	<1	<1	<1
PW-89 DONALDSON	06/28/99	<1	-	-	<1	<1	<1	<1	<1	5.8	<1	<5	<1	<1	<1
PW-89 DONALDSON	03/22/00	<1	-	-	<1	<2	<2	<1	<1	5.3	<1	<5	<2	<1	<1
Treatment System															
INF-1	03/13/96	<25	-	-	<25	-	-	-	-	350	-	-	<25	<25	-
INF-2	03/14/96	<25	-	-	<25	-	-	-	-	280	-	-	<25	<25	-
INF-3	03/15/96	<25	-	-	<25	-	-	-	-	330	-	-	<25	<25	-
INF-4	03/16/96	<25	-	-	<25	-	-	-	-	250	-	-	<25	<25	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD		3 µg/L*	2100 µg/L***	1 µg/L*	(1)
UNITS		µg/L	µg/L	µg/L	µg/L
PW-89 DONALDSON	03/29/95	2.8	<1	<1	7
PW-89 DONALDSON	06/15/95	3.6	<1	<1	9.3
PW-89 DONALDSON	09/08/95	3.1	<1	<1	6.8
PW-89 DONALDSON	12/21/95	3.6	<1	<1	7.8
PW-89 DONALDSON	03/18/96	3.2	<1	<1	6.8
PW-89 DONALDSON	06/10/96	2.9	<1	<1	6.9
PW-89 DONALDSON	09/05/96	3.4	<1	<1	7.5
PW-89 DONALDSON	12/09/96	3.1	<1	<1	6.9
PW-89 DONALDSON	03/17/97	2.5	<1	<1	5.9
PW-89 DONALDSON	06/18/97	2.2	<1	<1	4.9
PW-89 DONALDSON	09/22/97	1.9	<1	<1	4.6
PW-89 DONALDSON	12/15/97	1.4	<1	<1	3.8
PW-89 DONALDSON	03/16/98	1.3	<1	<1	2.9
PW-89 DONALDSON	06/15/98	1.5	<1	<1	3.5
PW-89 DONALDSON	09/22/98	1.5	<1	<1	4.1
PW-89 DONALDSON	12/14/98	1.7	<1	<1	4.5
PW-89 DONALDSON	06/28/99	2.3	<1	<1	8.1
PW-89 DONALDSON	03/22/00	<1	<1	<1	7.7
Treatment System					
INF-1	03/13/96	450	-	<25	800
INF-2	03/14/96	330	-	<25	610
INF-3	03/15/96	390	-	<25	720
INF-4	03/16/96	290	-	<25	540

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD		(1)	6.5-8.5 S.U.**	(1)	(1)	6.5-8.5 S.U.**	500 mg/L**	(1)	(1)	(1)	300 µg/L**	200 µg/L*	5 µg/L*	70 µg/L***	7 µg/L*
UNITS		umhos/cm	S.U.	deg C	mg/L	S.U.	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L
INF-5	03/17/96	-	7.1	-	-	-	300	270	20	88	0.47	<25	<25	<25	<25
INF-6	11/19/96	-	7.8	-	-	-	310	270	<5	89	0.8	1	1	10	12
INF-7	11/20/96	-	-	-	-	-	-	-	-	-	-	1	1	11	16
INF-8	11/21/96	-	7.2	-	-	-	290	270	<5	87	0.57	<5	<5	11	14
INF-9	11/22/96	-	-	-	-	-	-	-	-	-	-	<5	<5	8.7	11
INF-10	11/23/96	-	7.3	-	-	-	290	240	<5	79	0.47	<5	<5	8.4	12
INF-11	11/24/96	-	-	-	-	-	-	-	-	-	-	<5	<5	8.2	10
INF-12	11/25/96	-	7.2	-	-	-	280	240	5	78	0.47	<5	<5	8.2	10
INF-13	11/26/96	-	-	-	-	-	-	-	-	-	-	<5	<5	8.3	10
INF-14	11/27/96	-	7.2	-	-	-	280	240	<5	78	0.36	<5	<5	6.4	10
INF-15	12/03/96	-	7.4	-	-	-	270	240	<5	78	0.56	<1	<1	9	13
INF-16	12/04/96	-	-	-	-	-	-	-	-	-	-	<1	<1	8	11
INF-17	12/05/96	-	7.5	-	-	-	270	230	V	75	0.45	<1	<1	8	10
V18	12/06/96	-	-	-	-	-	-	-	-	-	-	<1	<1	7.8	11
INF-19	12/07/96	-	7.4	-	-	-	280	230	<5	74	0.37	<1	<1	8.5	11
INF-20	12/08/96	-	-	-	-	-	-	-	-	-	-	<1	<1	7.8	9.9
INF-21	12/10/96	-	7.3	-	-	-	260	240	<5	75	0.47	<1	<1	7.7	10
INF-22	12/12/96	-	7.4	-	-	-	250	230	5	73	0.54	<1	<1	7.5	10
INF-23	12/14/96	-	-	-	-	-	-	-	-	-	-	<1	<1	8.1	11
INF-24	12/16/96	-	-	-	-	-	-	-	-	-	-	<1	<1	7	9.3
INF-25	12/18/96	-	-	-	-	-	-	-	-	-	-	<1	<1	7.5	10
INF-26	12/20/96	-	7.2	-	-	-	260	240	<5	76	0.38	<1	<1	8	10
INF-27	05/21/97	-	7.2	-	-	-	-	-	-	-	-	<1	<1	8.9	12
INF-28	06/19/97	-	7.4	-	-	-	270	-	-	77	0.45	<1	<1	7	10
INF-29	09/24/97	-	7.3	-	-	-	210	220	<5	69	0.16	<1	<1	5.8	9.6

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICH/ORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD UNITS		3 µg/L* µg/L	70 µg/L* µg/L	1 µg/L*** µg/L	1 µg/L* µg/L	9.8 µg/L*** µg/L	12 µg/L*** µg/L	5.7 µg/L*** µg/L	2.7 µg/L*** µg/L	70 µg/L* µg/L	700 µg/L* µg/L	5 µg/L* µg/L	3 µg/L* µg/L	1000 µg/L* µg/L	100 µg/L* µg/L
INF-5	03/17/96	<25	-	-	<25	-	-	-	-	250	-	-	<25	<25	-
INF-6	11/19/96	1	-	-	1	-	-	-	-	360	-	-	5.7	1	-
INF-7	11/20/96	1	-	-	1	-	-	-	-	350	-	-	6.4	1	-
INF-8	11/21/96	<5	-	-	<5	-	-	-	-	310	-	-	6.2	<5	-
INF-9	11/22/96	<5	-	-	<5	-	-	-	-	220	-	-	<5	<5	-
INF-10	11/23/96	<5	-	-	<5	-	-	-	-	220	-	-	<5	<5	-
INF-11	11/24/96	<5	-	-	<5	-	-	-	-	210	-	-	<5	<5	-
INF-12	11/25/96	<5	-	-	<5	-	-	-	-	230	-	-	<5	<5	-
INF-13	11/26/96	<5	-	-	<5	-	-	-	-	160	-	-	6.7	4.3	-
INF-14	11/27/96	<5	-	-	<5	-	-	-	-	230	-	-	<5	<5	-
INF-15	12/03/96	<1	-	-	<1	-	-	-	-	220	-	-	<1	<1	-
INF-16	12/04/96	<1	-	-	<1	-	-	-	-	220	-	-	<1	<1	-
INF-17	12/05/96	<1	-	-	<1	-	-	-	-	210	-	-	<1	<1	-
V18	12/06/96	<1	-	-	<1	-	-	-	-	210	-	-	3.5	<1	-
INF-19	12/07/96	<1	-	-	<1	-	-	-	-	210	-	-	3.4	<1	-
INF-20	12/08/96	<1	-	-	<1	-	-	-	-	210	-	-	3.2	<1	-
INF-21	12/10/96	<1	-	-	<1	-	-	-	-	230	-	-	3.1	<1	-
INF-22	12/12/96	<1	-	-	<1	-	-	-	-	230	-	-	3.2	<1	-
INF-23	12/14/96	<1	-	-	<1	-	-	-	-	280	-	-	3.3	<1	-
INF-24	12/16/96	<1	-	-	<1	-	-	-	-	300	-	-	2.9	<1	-
INF-25	12/18/96	<1	-	-	<1	-	-	-	-	250	-	-	3.3	<1	-
INF-26	12/20/96	<1	-	-	<1	-	-	-	-	180	-	-	3	<1	-
INF-27	05/21/97	<1	-	-	<1	-	-	-	-	290	-	-	3.3	<1	-
INF-28	06/19/97	<1	-	-	<1	-	-	-	-	190	-	-	<1	<1	-
INF-29	09/24/97	<1	-	-	<1	-	-	-	-	170	-	-	1.5	<1	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD UNITS		3 µg/L* µg/L	2100 µg/L*** µg/L	1 µg/L* µg/L	(1) µg/L
INF-5	03/17/96	300	-	<25	550
INF-6	11/19/96	340	-	13	741.7
INF-7	11/20/96	310	-	18	712.4
INF-8	11/21/96	370	-	12	723..2
INF-9	11/22/96	260	-	11	510.7
INF-10	11/23/96	230	-	10	480.4
INF-11	11/24/96	250	-	10	488.2
INF-12	11/25/96	240	-	9.2	497.4
INF-13	11/26/96	190	-	13	392.3
INF-14	11/27/96	190	-	14	450.4
INF-15	12/03/96	250	-	13	505
INF-16	12/04/96	230	-	10	479
INF-17	12/05/96	230	-	10	468
V18	12/06/96	210	-	11	453.3
INF-19	12/07/96	200	-	10	442.9
INF-20	12/08/96	210	-	9	449.9
INF-21	12/10/96	220	-	10	480.8
INF-22	12/12/96	210	-	9.1	469.8
INF-23	12/14/96	260	-	9.2	571.6
INF-24	12/16/96	290	-	7.8	617
INF-25	12/18/96	250	-	8	528.7
INF-26	12/20/96	170	-	9.8	379
INF-27	05/21/97	240	-	9.8	564
INF-28	06/19/97	170	-	7.3	384.3
INF-29	09/24/97	170	-	6.1	363

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
INF-30	12/17/97	-	7.3	-	-	-	240	210	<5	66	0.25	<1	<1	4.2	7.2
INF-31	04/15/98	-	7	-	-	-	250	210	-	68	11	1.2	<1	2.8	3.9
INF-32	06/16/98	-	7	-	-	-	250	210	<5	65	0.3	<1	<1	<1	5.1
INF-33	09/24/98	-	74	-	-	-	250	210	<5	64	0.34	<1	<1	2.3	3
INF- 34	12/16/98	-	7.8	-	-	-	250	200	<5	64	0.45	<1	<1	2.5	3.3
INF- 35	03/31/99	-	7.2	-	-	-	210	190	6	58	2.1	<1	<1	1.5	1.7
INF- 36	06/30/99	-	8.1	-	-	-	210	190	<5	59	0.33	<1	<1	1.7	2.4
INF- 38	12/16/99	404	7.40	20.6	-	-	230	190	<1	62	240	<1	<1	1.2	3.2
INF- 39	03/22/00	403	7.13	22.1	-	-	210	190	<1	42	230	<1	<1	3.6	1.6
INF-40	06/07/00	380	7.03	21.7	160	7.6	230	180	3	64	160	<1	<1	1.1	<1
EFFA-1	03/13/96	-	8.1	-	-	-	310	260	16	85	0.5	<1	<1	<1	<1
EFFA-2	03/14/96	-	8.2	-	-	-	310	250	16	82	0.39	<1	<1	<1	<1
EFFA-3	03/15/96	-	8	-	-	-	310	280	32	91	0.92	<1	<1	<1	<1
EFFA-4	03/16/96	-	8.1	-	-	-	300	270	26	87	1.2	<1	<1	<1	<1
EFFA-5	03/17/96	-	8.1	-	-	-	300	270	18	87	0.56	<1	<1	<1	<1
EFFA-6	11/19/96	-	8	-	-	-	300	270	<5	89	0.52	<1	<1	<1	<1
EFFA-7	11/20/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFA-8	11/21/96	-	8.3	-	-	-	290	270	<5	87	0.7	<1	<1	<1	<1
EFFA-9	11/22/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFA-10	11/23/96	-	8.2	-	-	-	290	250	<5	79	0.46	<1	<1	<1	<1
EFFA-11	11/24/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFA-12	11/25/96	-	8.2	-	-	-	280	240	<5	76	0.37	<1	<1	<1	<1
EFFA-13	11/26/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFA-14	11/27/96	-	8.2	-	-	-	280	240	<5	78	0.25	<1	<1	<1	<1
EFFA-15	12/03/96	-	8.3	-	-	-	280	250	<5	81	0.39	<1	<1	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD UNITS		3 µg/L* µg/L	70 µg/L* µg/L	1 µg/L*** µg/L	1 µg/L* µg/L	9.8 µg/L*** µg/L	12 µg/L*** µg/L	5.7 µg/L*** µg/L	2.7 µg/L*** µg/L	70 µg/L* µg/L	700 µg/L* µg/L	5 µg/L* µg/L	3 µg/L* µg/L	1000 µg/L* µg/L	100 µg/L* µg/L
INF-30	12/17/97	<1	-	-	<1	-	-	-	-	150	-	-	1.3	<1	-
INF-31	04/15/98	<1	-	-	<1	-	-	-	-	72	-	-	1.3	<1	-
INF-32	06/16/98	3.3	-	-	<1	-	-	-	-	76	-	-	1.1	<1	-
INF-33	09/24/98	<1	-	-	<1	-	-	-	-	63	-	-	<1	<1	-
INF- 34	12/16/98	<1	-	-	<1	-	-	-	-	64	-	-	<1	<1	-
INF- 35	03/31/99	<1	-	-	<1	-	-	-	-	46	-	-	<1	<1	-
INF- 36	06/30/99	<1	-	-	<1	-	-	-	-	58	-	-	<1	<1	-
INF- 38	12/16/99	<1	-	-	<1	<1	<1	<1	<1	60	<1	<5	<1	<1	<1
INF- 39	03/22/00	<1	-	<10	<1	<2	<2	<1	<1	53	<1	<5	<2	<1	2.6
INF-40	06/07/00	<1	-	<10	<1	<2	<2	<1	<1	38	<1	<5	<2	<1	<1
EFFA-1	03/13/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-2	03/14/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-3	03/15/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-4	03/16/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-5	03/17/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-6	11/19/96	<1	-	-	<1	-	-	-	-	5.7	-	-	<1	<1	-
EFFA-7	11/20/96	<1	-	-	<1	-	-	-	-	5.5	-	-	<1	<1	-
EFFA-8	11/21/96	<1	-	-	<1	-	-	-	-	7.2	-	-	<1	<1	-
EFFA-9	11/22/96	<1	-	-	<1	-	-	-	-	4.7	-	-	<1	<1	-
EFFA-10	11/23/96	<1	-	-	<1	-	-	-	-	4.5	-	-	<1	<1	-
EFFA-11	11/24/96	<1	-	-	<1	-	-	-	-	6.4	-	-	<1	10	-
EFFA-12	11/25/96	<1	-	-	<1	-	-	-	-	7	-	-	<1	<1	-
EFFA-13	11/26/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-14	11/27/96	<1	-	-	<1	-	-	-	-	5.3	-	-	<1	<1	-
EFFA-15	12/03/96	<1	-	-	<1	-	-	-	-	4.5	-	-	<1	<1	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD UNITS		3 µg/L* µg/L	2100 µg/L*** µg/L	1 µg/L* µg/L	(1) µg/L
INF-30	12/17/97	120	-	5.8	288.5
INF-31	04/15/98	120	-	2.3	203.5
INF-32	06/16/98	140	-	3.7	229.2
INF-33	09/24/98	74	-	4.1	146.4
INF- 34	12/16/98	81	-	5.8	156.6
INF- 35	03/31/99	54	-	3.4	106.6
INF- 36	06/30/99	59	-	4.2	125.3
INF- 38	12/16/99	37	<1	2.6	104
INF- 39	03/22/00	27	<1	3.9	91.7
INF-40	06/07/00	26	<1	1.6	66.7
EFFA-1	03/13/96	<1	-	<1	-
EFFA-2	03/14/96	<1	-	<1	-
EFFA-3	03/15/96	<1	-	<1	-
EFFA-4	03/16/96	<1	-	<1	-
EFFA-5	03/17/96	<1	-	<1	-
EFFA-6	11/19/96	2.8	-	<1	8.5
EFFA-7	11/20/96	2.8	-	<1	8.3
EFFA-8	11/21/96	4.2	-	<1	11.4
EFFA-9	11/22/96	2.6	-	<1	7.3
EFFA-10	11/23/96	2.8	-	<1	7.3
EFFA-11	11/24/96	3	-	<1	19.4
EFFA-12	11/25/96	3.1	-	<1	10.1
EFFA-13	11/26/96	<1	-	<1	-
EFFA-14	11/27/96	2.5	-	<1	7.8
EFFA-15	12/03/96	2.5	-	<1	7

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
EFFA-16	12/04/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFA-17	12/05/96	-	8.3	-	-	-	280	240	<5	78	032	<1	<1	<1	<1
EFFA-18	12/06/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFA-19	12/07/96	-	8.4	-	-	-	270	230	<5	74	0.24	<1	<1	<1	<1
EFFA-20	12/08/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFA-21	12/10/96	-	8.2	-	-	-	270	240	<5	75	0.27	<1	<1	<1	<1
EFFA-22	12/12/96	-	8.3	-	-	-	230	240	7	76	0.28	<1	<1	<1	<1
EFFA-23	12/14/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFA-24	12/16/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFA-25	12/18/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFA-26	12/20/96	-	8.3	-	-	-	260	240	<5	76	0.24	<1	<1	<1	<1
EFFA-27	05/21/97	-	8.1	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFA-28	06/19/97	-	9.4	-	-	-	260	-	-	77	0.29	<1	<1	<1	<1
EFFA-29	09/24/97	-	8.4	-	-	-	250	220	<5	70	0.23	<1	<1	<1	<1
EFFA-30	12/17/97	-	8.3	-	-	-	240	210	<5	66	0.12	<1	<1	<1	<1
EFFA-31	04/15/98	-	8.1	-	-	-	240	240	<5	77	0.69	<1	<1	<1	<1
EFFA-32	06/16/98	-	8.2	-	-	-	250	210	<5	64	0.33	<1	<1	<1	<1
EFFA-33	09/24/98	-	8.5	-	-	-	250	210	<5	64	0.55	<1	<1	<1	<1
EFFA-34	12/16/98	-	8.2	-	-	-	260	210	<5	66	0.58	<1	<1	<1	<1
EFFA-35	03/31/99	-	8.3	-	-	-	210	190	7	58	2.4	<1	<1	<1	<1
EFFA-36	06/30/99	-	8.4	-	-	-	220	200	<5	61	0.25	<1	<1	<1	<1
EFFA-38	12/16/99	391	8.23	20.1	-	-	210	190	<1	60	260	<1	<1	<1	<1
EFFA-39	03/22/00	378/	8.31	21.7	-	-	190	190	4	41	1100	<1	<1	<1	<1
EFFA-40	06/07/00	375	7.85	7.85	180	8.2	230	180	<1	63	120	<1	<1	<1	<1
EFFG-1	03/13/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD UNITS		3 µg/L* µg/L	70 µg/L* µg/L	1 µg/L*** µg/L	1 µg/L* µg/L	9.8 µg/L*** µg/L	12 µg/L*** µg/L	5.7 µg/L*** µg/L	2.7 µg/L*** µg/L	70 µg/L* µg/L	700 µg/L* µg/L	5 µg/L* µg/L	3 µg/L* µg/L	1000 µg/L* µg/L	100 µg/L* µg/L
EFFA-16	12/04/96	<1	-	-	<1	-	-	-	-	3.8	-	-	<1	<1	-
EFFA-17	12/05/96	<1	-	-	<1	-	-	-	-	3.9	-	-	<1	<1	-
EFFA-18	12/06/96	<1	-	-	<1	-	-	-	-	4.2	-	-	<1	<1	-
EFFA-19	12/07/96	<1	-	-	<1	-	-	-	-	4.1	-	-	<1	<1	-
EFFA-20	12/08/96	<1	-	-	<1	-	-	-	-	3.9	-	-	<1	<1	-
EFFA-21	12/10/96	<1	-	-	<1	-	-	-	-	3.4	-	-	<1	<1	-
EFFA-22	12/12/96	<1	-	-	<1	-	-	-	-	3.5	-	-	<1	<1	-
EFFA-23	12/14/96	<1	-	-	<1	-	-	-	-	3.6	-	-	<1	<1	-
EFFA-24	12/16/96	<1	-	-	<1	-	-	-	-	4	-	-	<1	<1	-
EFFA-25	12/18/96	<1	-	-	<1	-	-	-	-	1.9	-	-	<1	<1	-
EFFA-26	12/20/96	<1	-	-	<1	-	-	-	-	1.5	-	-	<1	<1	-
EFFA-27	05/21/97	<1	-	-	<1	-	-	-	-	2.3	-	-	<1	<1	-
EFFA-28	06/19/97	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-29	09/24/97	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-30	12/17/97	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-31	04/15/98	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-32	06/16/98	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-33	09/24/98	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-34	12/16/98	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-35	03/31/99	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-36	06/30/99	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFA-38	12/16/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1		<1
EFFA-39	03/22/00	<1	-	<10	<1	<2	<2	<2	<2	<1	<1	<5	<2		<1
EFFA-40	06/07/00	<1	-	<10	<1	<2	<2	<1	<1	<1	<1	<5	<2		<1
EFFG-1	03/13/96	<1	-	-	<1	-	-	-	--	<1	-	-	<1	<1	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD UNITS		3 µg/L* µg/L	2100 µg/L*** µg/L	1 µg/L* µg/L	(1) µg/L
EFFA-16	12/04/96	2.1	-	<1	5.9
EFFA-17	12/05/96	2.2	-	<1	6.1
EFFA-18	12/06/96	2.3	-	<1	6.5
EFFA-19	12/07/96	2.6	-	<1	6.7
EFFA-20	12/08/96	2	-	<1	5.9
EFFA-21	12/10/96	2.1	-	<1	5.5
EFFA-22	12/12/96	2.2	-	<1	5.7
EFFA-23	12/14/96	2.1	-	<1	5.7
EFFA-24	12/16/96	2.1	-	<1	6.1
EFFA-25	12/18/96	1.1	-	<1	3
EFFA-26	12/20/96	<1	-	<1	1.5
EFFA-27	05/21/97	1.2	-	<1	3.5
EFFA-28	06/19/97	<1	-	<1	-
EFFA-29	09/24/97	<1	-	<1	-
EFFA-30	12/17/97	<1	-	<1	-
EFFA-31	04/15/98	<1	-	<1	-
EFFA-32	06/16/98	<1	-	<1	-
EFFA-33	09/24/98	<1	-	<1	-
EFFA-34	12/16/98	<1	-	<1	-
EFFA-35	03/31/99	<1	-	<1	-
EFFA-36	06/30/99	<1	-	<1	-
EFFA-38	12/16/99	1.1	<1	<1	1.1
EFFA-39	03/22/00	<1	<1	<1	-
EFFA-40	06/07/00	<1	<1	<1	-
EFFG-1	03/13/96	<1	-	<1	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD		(1)	6.5-8.5 S.U.**	(1)	(1)	6.5-8.5 S.U.**	500 mg/L**	(1)	(1)	(1)	300 µg/L**	200 µg/L*	5 µg/L*	70 µg/L***	7 µg/L*
UNITS		umhos/cm	S.U.	deg C	mg/L	S.U.	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EFFG-2	03/14/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-3	03/15/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-4	03/16/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-5	03/17/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-6	11/19/96	-	8.2	-	-	-	310	260	<5	85	0.61	<1	<1	<1	<1
EFFG-7	11/20/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-8	11/21/96	-	8.3	-	-	-	290	260	<5	86	0.47	<1	<1	<1	<1
EFFG-9	11/22/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-10	11/23/96	-	8.1	-	-	-	290	240	<5	77	0.36	<1	<1	<1	<1
EFFG-11	11/24/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-12	11/25/96	-	8.2	-	-	-	280	230	<5	74	0.18	<1	<1	<1	<1
EFFG-13	11/26/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-14	11/27/96	-	8.2	-	-	-	280	240	5.5	78	0.13	<1	<1	<1	<1
EFFG-15	12/03/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-16	12/04/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-17	12/05/96	-	8.3	-	-	-	270	240	<5	78	0.084	<1	<1	<1	<1
EFFG-18	12/06/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-19	12/07/96	-	8.63	-	-	-	270	220	<5	73	0.063	<1	<1	<1	<1
EFFG-20	12/08/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-21	12/10/96	-	8.2	-	-	-	250	240	<5	76	0.12	<1	<1	<1	<1
EFFG-22	12/12/96	-	8.3	-	-	-	260	230	<5	72	0.2	<1	<1	<1	<1
EFFG-23	12/14/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-24	12/16/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-25	12/18/96	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG-26	12/20/96	-	8.2	-	-	-	260	230	<5	74	0.13	<1	<1	<1	<1

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICH/ORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD		3 µg/L*	70 µg/L*	1 µg/L***	1 µg/L*	9.8 µg/L***	12 µg/L***	5.7 µg/L***	2.7 µg/L***	70 µg/L*	700 µg/L*	5 µg/L*	3 µg/L*	1000 µg/L*	100 µg/L*
UNITS		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EFFG-2	03/14/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-3	03/15/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-4	03/16/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-5	03/17/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-6	11/19/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-7	11/20/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-8	11/21/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-9	11/22/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-10	11/23/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-11	11/24/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-12	11/25/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-13	11/26/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-14	11/27/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-15	12/03/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-16	12/04/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-17	12/05/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-18	12/06/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-19	12/07/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-20	12/08/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-21	12/10/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-22	12/12/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-23	12/14/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-24	12/16/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-25	12/18/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG-26	12/20/96	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD UNITS		3 µg/L* µg/L	2100 µg/L*** µg/L	1 µg/L* µg/L	(1) µg/L
EFFG-2	03/14/96	<1	-	<1	-
EFFG-3	03/15/96	<1	-	<1	-
EFFG-4	03/16/96	<1	-	<1	-
EFFG-5	03/17/96	<1	-	<1	-
EFFG-6	11/19/96	<1	-	<1	-
EFFG-7	11/20/96	<1	-	<1	-
EFFG-8	11/21/96	<1	-	<1	-
EFFG-9	11/22/96	<1	-	<1	-
EFFG-10	11/23/96	2.6	-	<1	6.1
EFFG-11	11/24/96	<1	-	<1	-
EFFG-12	11/25/96	<1	-	<1	-
EFFG-13	11/26/96	<1	-	<1	-
EFFG-14	11/27/96	<1	-	<1	-
EFFG-15	12/03/96	<1	-	<1	-
EFFG-16	12/04/96	<1	-	<1	-
EFFG-17	12/05/96	<1	-	<1	-
EFFG-18	12/06/96	<1	-	<1	-
EFFG-19	12/07/96	<1	-	<1	-
EFFG-20	12/08/96	<1	-	<1	-
EFFG-21	12/10/96	<1	-	<1	-
EFFG-22	12/12/96	<1	-	<1	-
EFFG-23	12/14/96	<1	-	<1	-
EFFG-24	12/16/96	<1	-	<1	-
EFFG-25	12/18/96	<1	-	<1	-
EFFG-26	12/20/96	<1	-	<1	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		CONDUC-TIVITY (FIELD)	pH (FIELD)	TEMPER-ATURE (FIELD)	ALKALINITY AS CaCO3	pH (LAB)	TOTAL DISSOLVED SOLIDS	TOTAL HARDNESS	TOTAL SUSPENDED SOLIDS	CALCIUM	IRON	1,1,1-TRICHLORO-ETHANE	1,1,2-TRICHLORO-ETHANE	1,1-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE
STANDARD UNITS		(1) umhos/cm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) mg/L	6.5-8.5 S.U.** S.U.	500 mg/L** mg/L	(1) mg/L	(1) mg/L	(1) mg/L	300 µg/L** µg/L	200 µg/L* µg/L	5 µg/L* µg/L	70 µg/L*** µg/L	7 µg/L* µg/L
EFFG-27	05/21/97	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
EFFG- 28	06/19/97	-	8.2	-	-	-	280	-	-	73	0.28	<1	<1	<1	<1
EFFG- 29	09/24/97	-	8.2	-	-	-	240	220	<5	69	0.13	<1	<1	<1	<1
EFFG- 30	12/17/97	-	8.2	-	-	-	280	210	<5	67	0.26	<1	<1	<1	<1
EFFG- 31	04/15/98	-	8.1	-	-	-	250	220	<5	71	0.15	<1	<1	<1	<1
EFFG- 32	06/16/98	-	7.9	-	-	-	230	210	<5	65	0.097	<1	<1	<1	<1
EFFG- 33	09/24/98	-	8.3	-	-	-	230	210	<5	64	<0.5	<1	<1	<1	<1
EFFG- 34	12/16/98	-	8	-	-	-	260	220	<5	69	0.14	<1	<1	<1	<1
EFFG- 35	03/31/99	-	8.1	-	-	-	220	190	<5	57	0.26	<1	<1	<1	<1
EFFG- 36	06/30/99	-	8.3	-	-	-	210	200	<5	61	<0.5	<1	<1	<1	<1
EFFG- 38	12/16/99	394	8.06	20.1	-	-	200	190	<1	59	<100	<1	<1	<1	<1
EFFG- 39	03/22/00	573	7.4	20.6	-	-	310	270	<1	56	<100	<1	<1	<1	<1
EFFG- 40	06/07/00	371	7.85	21.4	160	8.1	220	180	<1	64	<100	<1	<1	<1	<1

LEGEND

*	= Primary Drinking Water Standard	NK	= Not Known
**	= Secondary Drinking Water Standard	ND	= Not Detected
***	= Florida Groundwater Guidance Concentration		
(1)	= No Standard		
S	= Not Analyzed		

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		1,2-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE	ACRYLO-NITRILE	BENZENE	BROMO-METHANE (METHYL BROMIDE)	CHLORO-ETHANE	CHLORO-FORM	CHLORO-METHANE (METHYL CHLORIDE)	CIS-1,2-DICHLORO-ETHYLENE	ETHYL-BENZENE	METHYLENE CHLORIDE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DICHLORO-ETHENE
STANDARD UNITS		3 µg/L* µg/L	70 µg/L* µg/L	1 µg/L*** µg/L	1 µg/L* µg/L	9.8 µg/L*** µg/L	12 µg/L*** µg/L	5.7 µg/L*** µg/L	2.7 µg/L*** µg/L	70 µg/L* µg/L	700 µg/L* µg/L	5 µg/L* µg/L	3 µg/L* µg/L	1000 µg/L* µg/L	100 µg/L* µg/L
EFFG-27	05/21/97	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG- 28	06/19/97	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG- 29	09/24/97	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG- 30	12/17/97	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG- 31	04/15/98	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG- 32	06/16/98	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG- 33	09/24/98	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG- 34	12/16/98	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG- 35	03/31/99	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG- 36	06/30/99	<1	-	-	<1	-	-	-	-	<1	-	-	<1	<1	-
EFFG- 38	12/16/99	<1	-	-	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1
EFFG- 39	03/22/00	<1	-	<10	<1	<2	<2	<2	<2	<1	<1	<5	<2	<1	<1
EFFG- 40	06/07/00	<1	-	<10	<1	<2	<2	<1	<1	<1	<1	<5	<2	1.2	<1

LEGEND

*	= Primary Drinking Water Standard	NK	= Not Known
**	= Secondary Drinking Water Standard	ND	= Not Detected
***	= Florida Groundwater Guidance Concentration		
(3)	= No Standard		
S	= Not Analyzed		

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
MADISON COUNTY LANDFILL SUPERFUND SITE
APRIL 1991 THROUGH JUNE 2000

PARAMETER		TRICHLORO-ETHENE	TRICHLOR-FLUORO-METHANE	VINYL CHLORIDE	TOTAL VOCS
STANDARD UNITS		3 µg/L* µg/L	2100 µg/L*** µg/L	1 µg/L* µg/L	(1) µg/L
EFFG-27	05/21/97	<1	-	<1	-
EFFG- 28	06/19/97	<1	-	<1	-
EFFG- 29	09/24/97	<1	-	<1	-
EFFG- 30	12/17/97	<1	-	<1	-
EFFG- 31	04/15/98	<1	-	<1	-
EFFG- 32	06/16/98	<1	-	<1	-
EFFG- 33	09/24/98	<1	-	<1	-
EFFG- 34	12/16/98	<1	-	<1	-
EFFG- 35	03/31/99	<1	-	<1	-
EFFG- 36	06/30/99	<1	-	<1	-
EFFG- 38	12/16/99	<1	<1	<1	-
EFFG- 39	03/22/00	<1	<1	<1	-
EFFG- 40	06/07/00	<1	<1	<1	1.2

LEGEND

*	= Primary Drinking Water Standard	NK	= Not Known
**	= Secondary Drinking Water Standard	ND	= Not Detected
***	= Florida Groundwater Guidance Concentration		
(5)	= No Standard		
S	= Not Analyzed		

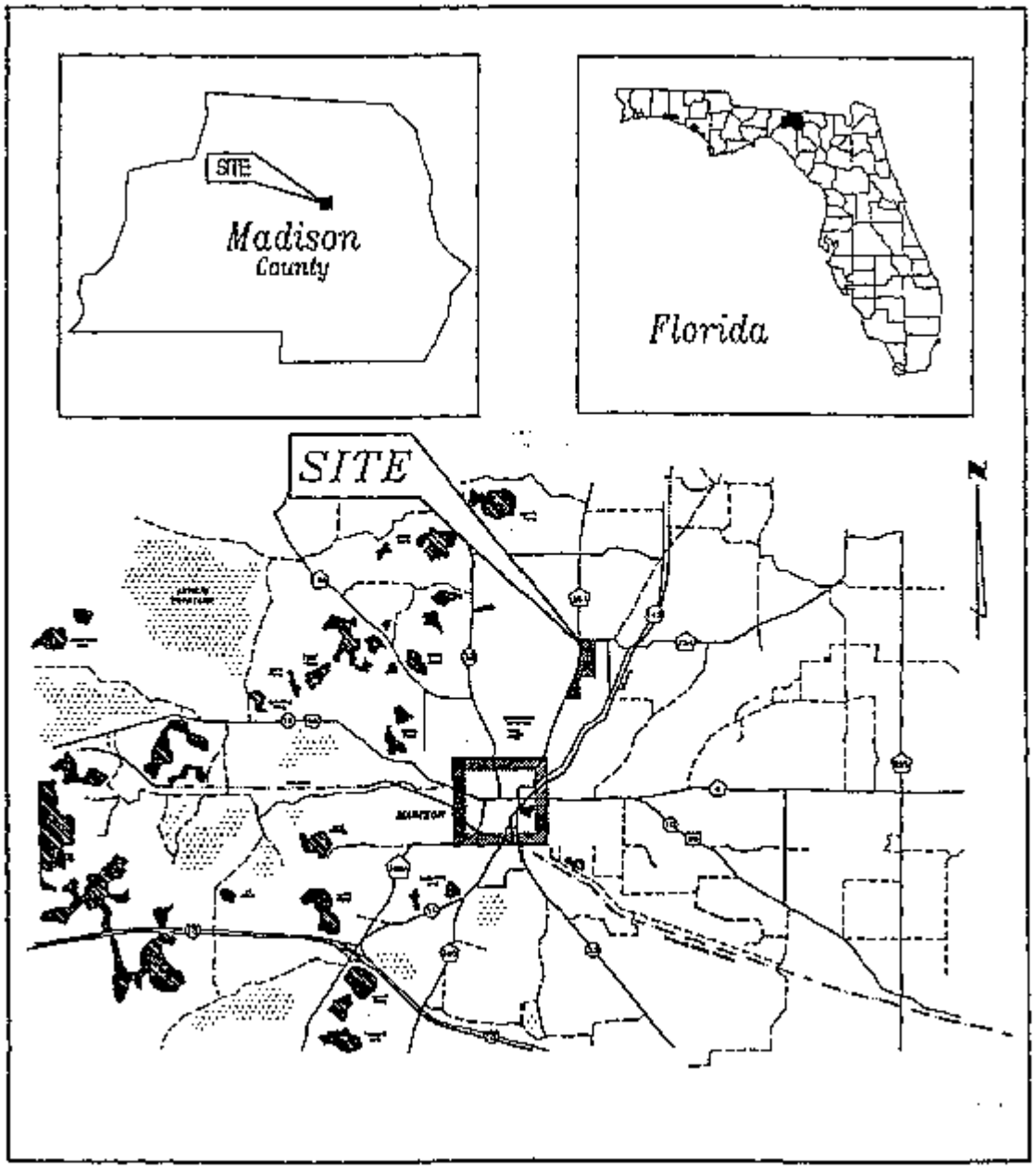


Figure 1: Location Map, Madison County Landfill Superfund Site

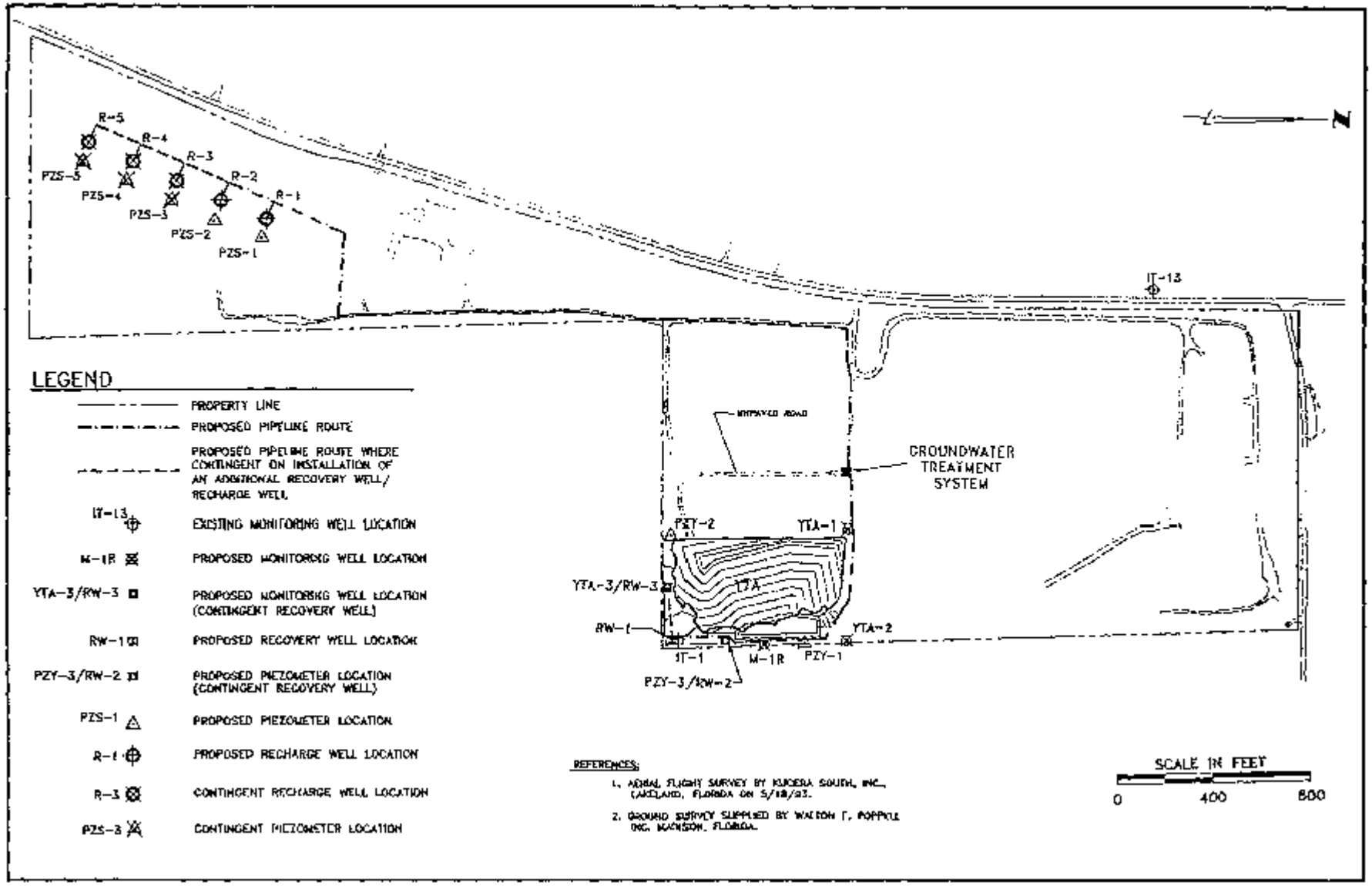


Figure 2: Site Map

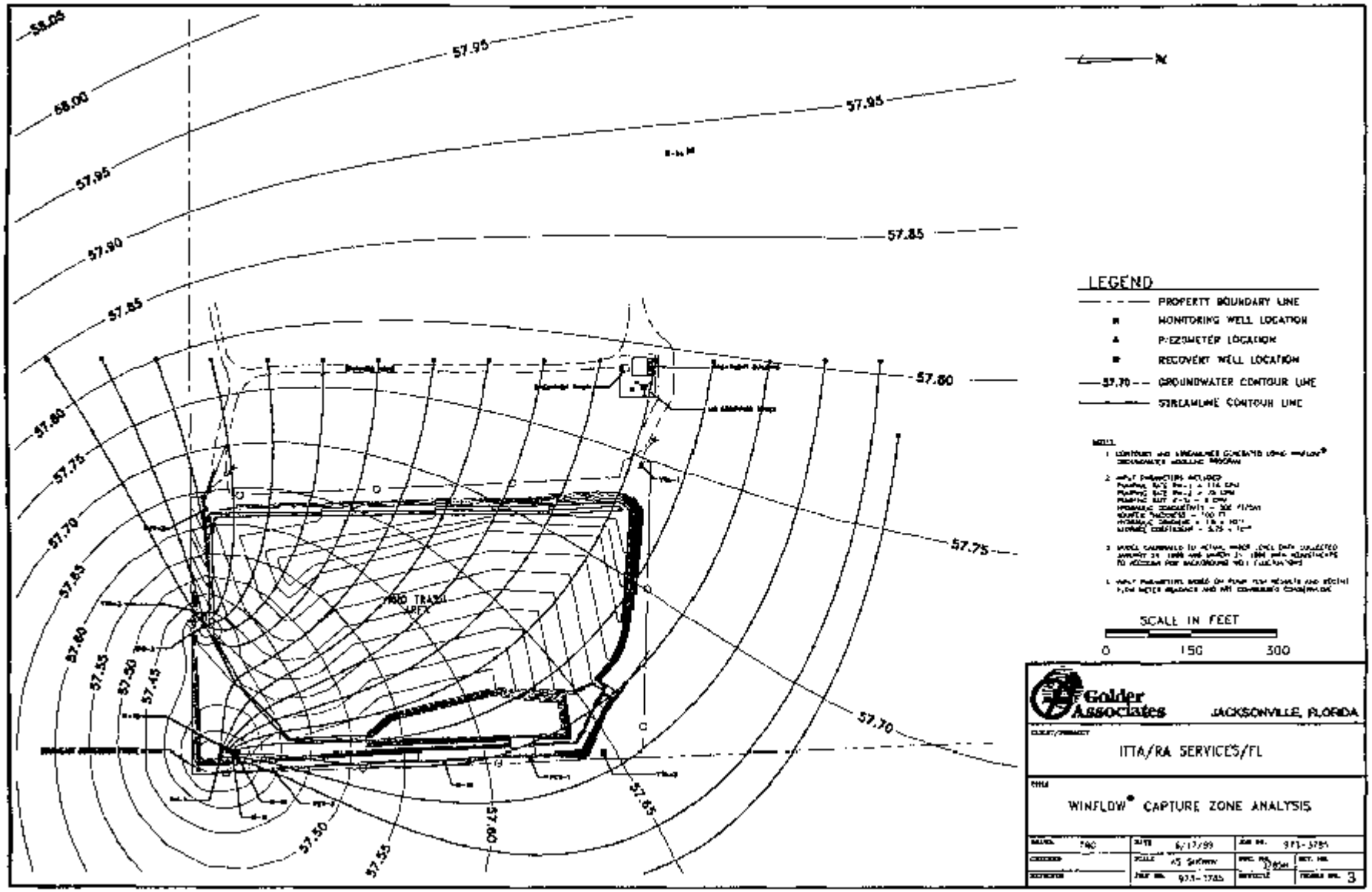


Figure 3: WinFlow Capture Zone

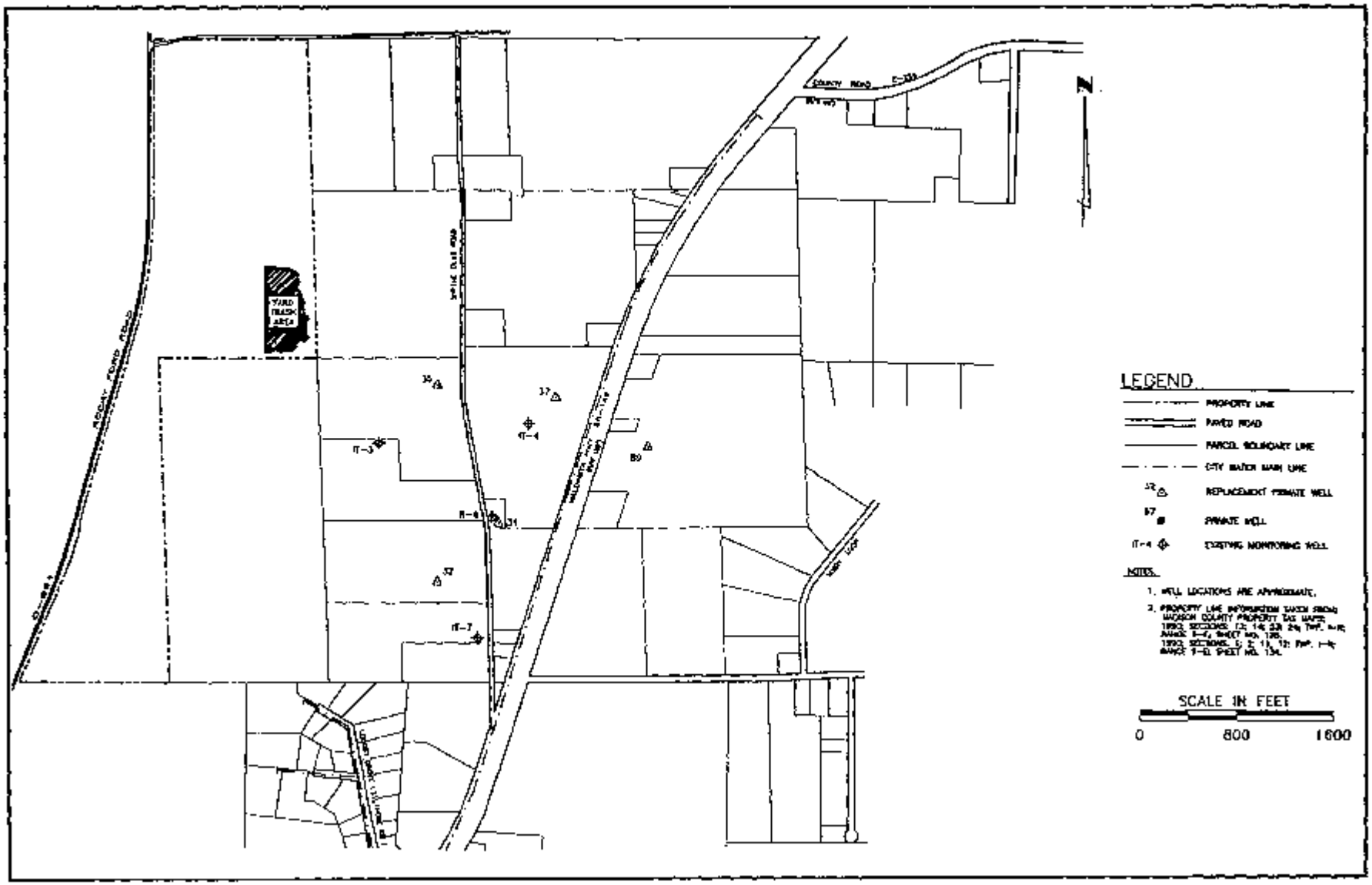


Figure 4: Offsite Well Locations

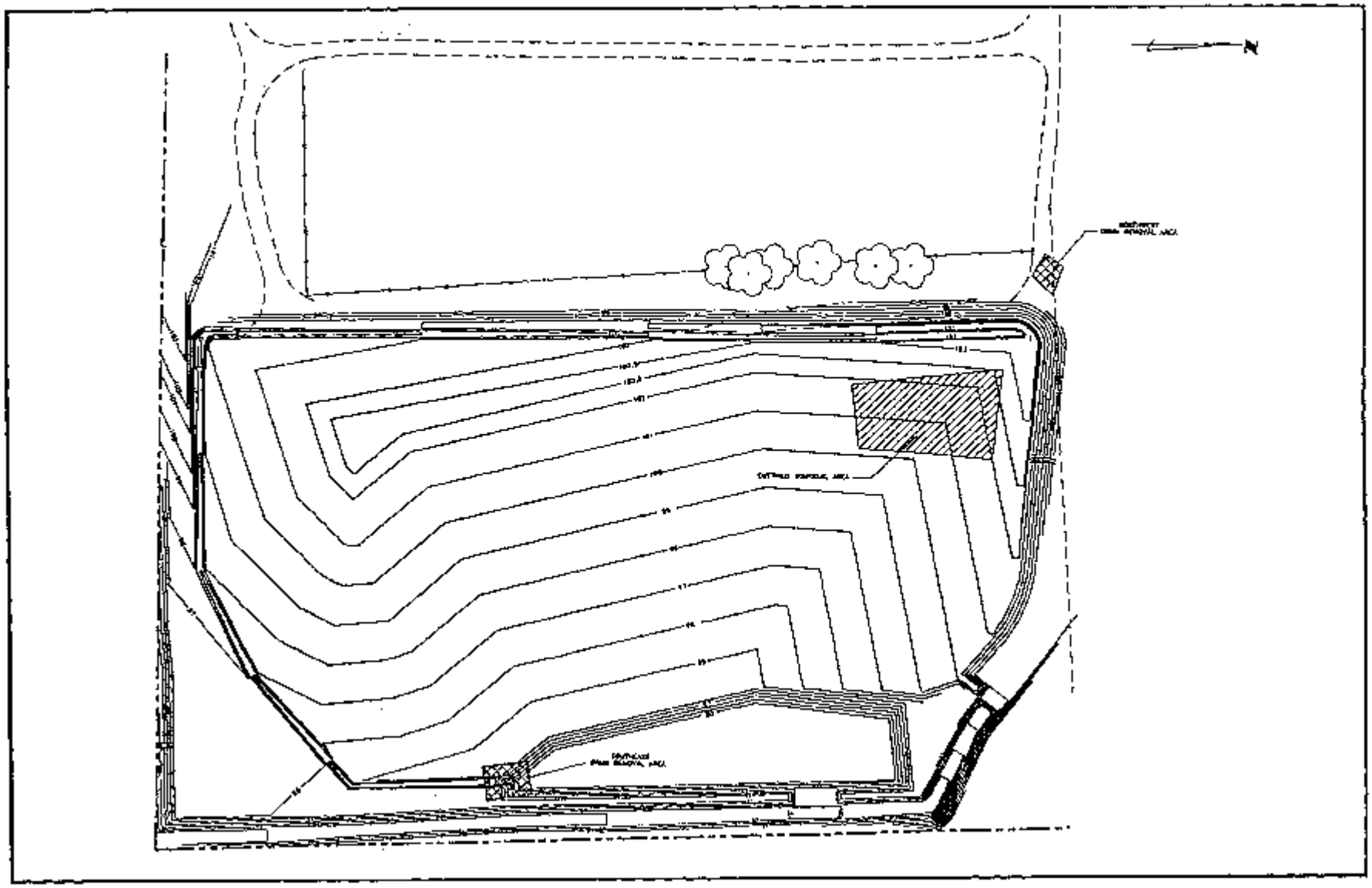


Figure 6: Yard Trash Area Drum Removal Areas