EPA Region 5 Records Ctr.
303052

Revised Groundwater Management Zone Application

Remedial Design

Area 9/10

Southeast Rockford Groundwater Contamination Superfund Site

Rockford, Illinois

CERCLIS ID No. ILD981000417

March 7, 2008

Prepared for:

Hamilton Sundstrand Corporation
4747 Harrison Avenue
Rockford, Illinois 61125

Submitted by:

SECOR

SECOR International Incorporated
446 Eisenhower Lane North
Lombard, Illinois 60148

TABLE OF CONTENTS

SECTION		PAGE NO.
LIST OF ACRONYMNS		**iii**
SECTION 1.0 INTRODUCTION		**1-1**
1.1	PURPOSE OF THE GMZ APPLICATION	1-1
1.2	SITE DESCRIPTION AND BACKGROUND	1-3
	Site Description	
	HS Plant #1 Facility Constituents of Concern	
	Extent of Soil Impact	
	Source Material Soil and Groundwater Remediation	
1.3	DOCUMENT OVERVIEW	1-8
SECTION 2.0 GMZ APPLICATION		**2-1**
2.1	GENERAL FACILITY INFORMATION	2-1
2.2	RELEASE INFORMATION	2-4
2.3	GMZ HORIZONTAL AND VERTICAL EXTENT	2-10
2.4	PLANNED REMEDIAL ACTION	2-11
2.5	POINT OF COMPLIANCE	2-13

TABLES

Table 1.1 Soil Analytical Results – Outside Container Storage Area (OSA)
Table 1.2 Soil Analytical Results – HS Plant #1 and Offsite Properties
Table 2.1 Historical Groundwater Analytical Results

FIGURES

Figure 1.1 Area 9/10 and Site Location Map
Figure 1.2 HS Property Ownership Map
Figure 1.3 Soil Boring and Monitoring Well Locations
Figure 1.4 Historical Groundwater Analytical Results
Figure 1.5 Soil Source Material Areas Identified with the Potential to Impact Groundwater
Figure 1.6 Groundwater and Soil Remediation Areas
Figure 1.7 Air Sparge and Soil Vapor Extraction Treatment Zone Details
Figure 2.1 Area 9/10 Cross Section Alignments
Figure 2.2 West-East Cross Section A-A'
Figure 2.3 North-South Cross Section B-B'
Figure 2.4 Groundwater Potentiometric Surface Map March 23, 2006
Figure 2.5 GMZ Monitoring Well Network and Screen Depths
Figure 2.6 GMZ and Air Sparge Wells Cross Section
Figure 2.7 SWMUs and Areas of Concern

APPENDICES

Appendix A Soil Analytical Results – 2000 LUST Incident

List of Acronyms

1,1,1-TCA	1,1,1 Trichloroethane
1,1,2-TCA	1,1,2 Trichloroethane
1,1-DCE	1,1-Dichloroethene
1,2-DCA	1,2-Dichloroethane
1,2-DCE	1,2-Dichloroethene
Agency	United States or Illinois Environmental Protection Agency
AOC	Administrative Order on Consent
Area	Area 9/10
AS	Air Sparge
BGS	Below Ground Surface
CDM	Camp Dresser McKee
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
City	City of Rockford
cm	Centimeter
COC	Constituent of Concern
FESOP	Federally Enforceable State Operating Permit
FFS	Focused Feasability Study
ft	Foot or Feet
GMZ	Groundwater Management Zone
HRC-X	Hydrogen Release Compound Extended Release Formula
HS	Hamilton Sundstrand
IAC	Illinois Administrative Code
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
JP-4	Jet Propellant 4
MC	Methylene Chloride
MCL	Maximum Containment Level
MEK	Methyl Ethyl Ketone or 2-Butanone
NEMA	National Electrical Manufacturers Association
OM&M	Operation, Maintenance, and Monitoring
OSA	Outside Container Storage Area
OU	Operable Unit
PCE	Tetrachloroethene
PDI	Pre-Design Investigation
ppm	Parts Per Million
PRG	Preliminary Remediation Goals
RA	Remedial Action
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RI	Remedial Investigation
ROD	Record of Decision
Sec	Second
SECOR	SECOR International Incorporated

List of Acronyms (Cont.)

SER	Southeast Rockford Groundwater Contamination Superfund Site
SIC	Standard Industrial Code
Site	Hamilton Sundstrand Plant #1
SVE	Soil Vapor Extraction
TACO	Tiered Approach to Corrective Action Objectives
TCE	Trichloroethene
TPH	Total Petroleum Hydrocarbons
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
VC	Vinyl Chloride
VOC	Volatile Organic Compound

1.0 INTRODUCTION

This document provides the necessary technical information for the establishment of a Groundwater Management Zone (GMZ) for the Remedial Design for Source Control for the Area 9/10 portion of the Southeast Rockford Groundwater Contamination Superfund Site (CERCLIS ID No. ILD981000417) located in the City of Rockford, Winnebago County, Illinois.

Hamilton Sundstrand Corporation (HS) entered into an Administrative Order on Consent (AOC) with the United States Environmental Protection Agency (USEPA or Agency) on January 13, 2003 for the completion of a Remedial Design (RD) for source control for Area 9/10. Establishing a GMZ for Area 9/10 was identified as part of the Source Control Record of Decision (ROD) activities for Operable Unit Three (OU-3) dated May 2002. Establishing a GMZ for the HS Plant #1 facility (the Site) within Area 9/10 is part of the Remedial Design activities.

1.1 PURPOSE OF THE GMZ APPLICATION

The purpose of this document is to provide the necessary information for USEPA approval (with concurrence from the Illinois Environmental Agency, to establish a three dimensional region containing groundwater being managed to mitigate impairment caused by a release of contaminants from the Site in general accordance with 35 Illinois Administrative Code (IAC) Part 620.250. The selected remedy at Area 9/10 of the Southeast Rockford Groundwater Contamination Site (SER) consists of air sparging and soil vapor extraction to address impacted groundwater (leachate) at the Hamilton Sundstrand Plant # 1 facility within Area 9/10.

For a GMZ to be established, the groundwater within the proposed GMZ must be managed to mitigate impairment caused by the release of contaminants from a site. Source removal actions will occur upon implementation of the remedial action. The RD for Area 9/10 was approved by USEPA on April 26, 2007 and provides for an air sparge and soil vapor extraction system as source control for groundwater (also referred to as leachate in the ROD), along with excavation and offsite disposal of source area soil at the Site.

This application contains the applicable information to determine the adequacy of the controls and the management of the GMZ at the site associated with the RD and future Remedial Action (RA) activities for the Site.

The remedy is described in the June 11, 2002 ROD for OU-3 Source Control. In addition to the selected remedy, soil identified as source material at the Outside Container Storage Area (OSA) will be excavated and disposed offsite along with limited groundwater biological enhancement in this location.

A summary of the selected remediation alternatives, air sparging (AS) and soil vapor extraction (SVE), from the ROD is as follows:

Groundwater (leachate) Source Control Remedy:

- Alternative SCL-9/10E: Enhanced Air Sparging, which consisted of installing injection wells along the boundary of the GMZ and source area, was the selected remedy. Enhanced Air Sparging will involve the placement of air injection wells down gradient and in the more highly-contaminated areas. Air will be injected into the contaminated groundwater, causing the contaminants to volatilize into air pockets in the soil above the water table. The air sparging will have to be operated in conjunction with the Soil Vapor Extraction System SCS-9/10C. Vapors will be collected underground prior to their treatment with activated carbon.

- The leachate remedy also includes institutional controls on groundwater usage within the GMZ, installation of monitoring wells, and implementation of a groundwater (leachate) monitoring program. Groundwater (leachate) will be monitored at predetermined intervals for 30 years, per Resource Conservation and Recovery Act (RCRA) post-closure groundwater monitoring requirements. Monitoring will typically consist of collecting groundwater and analyzing for volatile organic compounds (VOCs) and, where appropriate, parameters that measure biological activity.

Soil Source Control Remedy:

- Alternative SCS-9/10C: Soil Vapor Extraction with vapor treatment using activated carbon was the selected remedy for soils at Area 9/10. Under this alternative, contaminated soils will be remediated in situ via a SVE system. The system will consist of installing a series of wells connected by an underground piping system. A blower will provide a source of negative pressure to extract vapors from the subsurface. Extraction wells will be screened in the vadose zone, where they will remove the contaminants from the unsaturated zone, as well as groundwater (leachate) contaminants that might diffuse from the surface of the water table. A pilot program will be conducted prior to the design of the SVE system to determine well spacing and in situ air permeability. Vapors collected from the SVE unit will be treated through the use of granular activated carbon. Granular activated carbon can be used to treat vapors at this area because of the lower expected concentrations of contaminants from soils.

- The vapor treatment scenario may have to be reevaluated based upon additional data collection from Area 9/10 and the results of the SVE pilot program.

The proposed number of AS wells and SVE wells for soil and groundwater/leachate remediation are 15 and six, respectively.

1.2 SITE DESCRIPTION AND BACKGROUND

Site Description

Area 9/10 (Area) is an industrial area located within the City of Rockford, Winnebago County, Illinois. The Area is bound by Eleventh Street on the east, Twenty-Third Avenue on the north, Harrison Avenue on the south, and Sixth Street on the west. HS was the only potentially responsible party identified by the Illinois Environmental Protection Agency (IEPA or Agency) for Area 9/10. The HS Plant #1 facility is located within Area 9/10. The Site and Area 9/10 locations are shown on Figure 1.1. The address of the facility is 2421 Eleventh Street. The Site is located in the southeast portion of the City of Rockford, Illinois, in Section 36 of Township 44 north, Range 1 east, of Rockford Township in Winnebago County. The HS Plant # 1 facility

within Area 9/10 is a generally rectangular area of approximately 13 acres. The Site is bound on the north by 23rd Avenue and former Mid-States Industrial (2401 Eleventh Street), on the south by the former Nylint/DRB property (2525 Eleventh Street) and the Rockford Products parking lot, to the west by 9th Street, and on the east by 11th Street. The property boundary for the HS Plant #1 facility is shown on Figure 1.2.

The SER site consists of three Operable Units, each with a corresponding ROD. Operable Unit One (Drinking Water Operable Unit) provided some area residents with a safe drinking water supply by connecting 283 homes to the city water supply. Operable Unit Two (Groundwater Operable Unit) addressed the area-wide groundwater contamination. An additional 264 homes were connected to the city water supply and a remedial investigation (RI) was conducted to characterize the nature and extent of the groundwater contamination and to provide information on source areas responsible for contamination. This operable unit identified four source areas (Areas 4, 7, 9/10, and 11). Operable Unit Three (Source Control Operable Unit) began as a State lead action to select remedies for each of the source areas. Based on the field investigation activities conducted by the IEPA at each of the areas, cleanup alternatives and selected remedies were presented in the May 2002 Source Control Remedies ROD issued by the USEPA and the IEPA.

The selected source control remedies for Area 9/10 are enhanced air sparging for leachate, soil vapor extraction with treatment of vapors by granular activated carbon for soil, and institutional controls. The term leachate is defined as water that passed through waste and picked up contaminants present in the waste.

HS Plant # 1 Facility Constituents of Concern

The HS Plant #1 facility was identified during the RI, performed by Camp Dresser McKee (CDM) for IEPA, and the Pre-Design Investigation (PDI), undertaken by HS, as containing groundwater impacted with VOCs above the Preliminary Remediation Goals (PRGs) identified in the ROD. The compounds detected at concentrations above the PRGs are referred to as constituents of concern (COCs). A network of 28 monitoring wells was established at the facility during the PDI. The soil boring and monitoring well locations are shown on Figure 1.3.

The soil COCs for Area 9/10 were identified as: 1,1- dichloroethene; methylene chloride (MC) (possible laboratory artifact); tetrachloroethene; 1,1,1 trichloroethane; 1,1,2 trichloroethane; and trichloroethene as agreed upon with USEPA and IEPA.

The RI also identified COCs in groundwater with concentrations above PRGs. The PRGs were based on 35 IAC Part 620 Groundwater Quality Class I groundwater, 35 IAC Part 742 Tiered Approach to Corrective Action Objectives (TACO), and USEPA maximum contaminant level (MCL) regulations. The groundwater COCs were identified as 1,1-dichloroethene (1,1-DCE); 1,2-dichloroethane (1,2-DCA); 1,2-dichloroethene (1,2-DCE); ethylbenzene; tetrachloroethene (PCE); 1,1,1-trichloroethane (1,1,1-TCA), 1,1,2-trichloroethane (1,1,2-TCA); trichloroethene (TCE); and vinyl chloride (VC), as agreed upon with USEPA and IEPA. The historical groundwater analytical results are shown on Figure 1.4.

The following sections describe the Site conditions considered in the selection and evaluation of the preferred remedy.

Extent of Soil Impact

The initial RI activities completed by CDM in Area 9/10 consisted of soil gas samples and limited soil sampling. A more comprehensive Pre-Design Investigation consisting of 38 soil borings across the Site, including adjacent properties and public right of ways, was completed by HS in 2003 and 2004 as shown on Figure 1.3. This effort identified three areas of soils which exceed the PRG (and TACO) remediation objectives (ROs). These areas were the OSA, the loading dock and former container storage area, and the western part of the South Alley. The ROD requires that source material be addressed in the remedial design.

Soil in the OSA may be considered source material. Concentrations of 1,1,1-TCA, 1,1-DCE, PCE, TCE, mercury, cadmium, and lead were detected in samples S1 through S8 above ROs. A number of the constituents were found in only relatively shallow soil (less than 8 feet bgs). PCE and cadmium were the only constituents detected above ROs in deeper soils. Metals were not specifically identified as COCs in the PRGs in the ROD. However, the OSA is also subject to RCRA regulations, and these metals are of concern from this perspective. The soil analytical

results from sampling conducted at the Outside Container Storage Area (OSA) are summarized in Table 1.1.

In the loading dock and former container storage areas, soil concentrations at four boring locations (S12, S13, S14, and SMW-15) exceeded ROs. The results of soil sampling conducted at the HS Plant 1 facility and at offsite properties are summarized in Table 1.2. The elevated concentrations were all in the shallow soil sample intervals at these locations. There were no RO exceedances in the deeper soil samples analyzed at these locations and the extent of impact is believed to be limited vertically. The soil impact at the SMW-15 location will be addressed as part of the remedial design. This area is presently covered with asphalt.

There was a soil PCE RO exceedance at the SMW-5 location (5 to 7 feet) southwest of the HS Plant # 1 building. There was, however, no PCE detected in the deep soil sample at this location. This area is not considered source material. This location is, however, adjacent to the treatment zone of the air sparge and soil vapor extraction system in the South Alley.

On July 24, 2000 three (#67, #69, and #70) of six underground storage tanks (USTs) that were discovered and removed from beneath the concrete floor within the building south of the loading dock were determined to be leaking. A release was reported to the Illinois Emergency Management Agency (IEMA) and Incident #20001409 was assigned to this event. The approximate location of the former USTs is shown on Figure 1.5. Soil samples were collected from the excavation which indicated that soil in the vicinity of the USTs was impacted. As these tanks were found during a construction project additional investigation to determine the vertical extent of the contamination was not able to be completed at that time. As there is no vertical delineation it is assumed that there is the potential that contaminants in soil at this location could impact groundwater. At the time of the UST removal approximately 50 cubic yards of impacted soil and backfill was removed and disposed offsite. This area was not accessible during the PDI activities. The soil analytical results from sampling conducted during the 2000 LUST Incident are summarized in tables included in Appendix A.

There is also some hydrocarbon that has been observed on the water table in the eastern portion of the South Alley. A definitive source of the Jet Propellant 4 (JP-4) in this area has not been identified. There are a number of current and former USTs and piping in this area. There

are three hydrocarbon recovery wells (RW-1, RW-2 and RW-3R) that were installed in the early 1990's. In 2004 the existing hydrocarbon recovery pumps were replaced with pneumatic skimmer pumps. The skimmer pump operation, maintenance, and monitoring is ongoing. The location of the South Alley recovery wells is also shown on Figure 1.3.

Source Material Soil and Groundwater Remediation

The Area 9/10 Remedial Design will consist primarily of: 1) soil excavation and associated activities in the OSA and 2) groundwater (leachate) remediation in the western portion of the South Alley via AS and SVE. Additional details regarding each of these planned efforts are provided below.

The VOC impacted soil at the OSA is a 65 foot by 50 foot area of approximately 3,300 square feet. HS plans to address these soils by excavation with offsite soil disposal. The impacted soil is primarily in the soil column from ground surface to six feet in depth. The total estimated in place quantity of impacted soil at the OSA is 550 cubic yards (850 tons). Figure 1.5 illustrates the lateral extent of soil impact above ROs at the OSA. A work plan for the excavation of the source material at the OSA was submitted to USEPA dated April 27, 2005 and was approved with modification on August 15, 2005 and is being incorporated into the Final Remedial Design. There will also likely be some limited soil excavation in the loading dock area in the vicinity of SMW-15. The groundwater and soil remediation areas are shown on Figure 1.6.

The air sparge and soil vapor extraction system will consist of 15 and six wells respectively. The AS and SVE wells will be operated in three banks of five AS wells and two SVE wells as an individual treatment cell. The treatment cells will be operated successively using a timing relay and air solenoid. Each of the banks will be pulsed for a period of four hours initially. The pulse time may be adjusted based on evaluation of the initial removal results. The approximate locations of the proposed wells are shown on Figure 1.7.

1.3 DOCUMENT OVERVIEW

The purpose of this document is to present the technical information for establishing a GMZ for the Site associated with Area 9/10 at the SER Site. Section 2.0 of this document is organized as follows:

- General Facility Information including location, type of facility, geology and hydrogeology, and release history is provided in Section 2.1;
- Release Information including a summary of the COCs, investigation activities, monitoring well network, groundwater monitoring dates and results is provided Section 2.2;
- GMZ region including horizontal and vertical extent is discussed in Section 2.3;
- Planned Remedial Actions are outlined in Section 2.4; and
- Point of Compliance wells are discussed in Section 2.5.

2.0 GMZ APPLICATION

This application Section contains the applicable information to determine the adequacy of the controls and the management of the GMZ at the site. The items presented below are thoroughly addressed and the current information associated with the proposed GMZ is provided.

Per 35 IAC Part 620.250 for a GMZ to be established, the groundwater within the proposed GMZ must be managed to mitigate impairment caused by the release of contaminants from a site. Source removal actions to prevent additional contamination from reaching groundwater must occur along with groundwater management. Groundwater management to mitigate impairment can use various combinations of technology. These include techniques such as groundwater removal and in-situ treatment. However, any action must improve the quality of groundwater caused by the release of contaminants from the site. GMZs can only be approved for areas where groundwater improvement is occurring.

This GMZ application section is presented in the IEPA requested format (Establishing a Groundwater Management Zone at RCRA Facilities, October 12, 2001).

2.1 GENERAL FACILITY INFORMATION

General information regarding the facility:

a. *Facility name;*
   The GMZ is being established associated with the Hamilton Sundstrand Plant #1 facility.

b. *Facility address;*
   The facility address is 2421 11th Street, Rockford, Illinois 61125.

c. *County in which facility is located;*
   The facility is located in Winnebago County.

d. *Illinois EPA, Bureau of Land, and USEPA Identification Numbers;*

The IEPA identification number is 2010300074 and the USEPA identification number is ILD981000417.

e. *A general description of the type of industry, products manufactured, raw materials used, location and size of the facility, including SIC codes;*
Plant #1 is an aeronautic and aerospace manufacturing facility. The facility makes various component parts for jet aircraft. Metal, plastic, rubber and ceramic are the raw materials used in the components. The manufacturing building complex encompasses nearly the entire property of approximately 13 acres. The property is bounded by 9th Street to the west, 23rd Avenue and the former Mid-States Industrial facility (2401 Eleventh Street) to the north, 11th Street to the east, and the former Nylint/DRB property (2525 Eleventh Street), and Rockford Products Incorporated parking lot properties to the south. The standard industrial code (SIC) for the facility is 3724 (Aircraft Engines and Engine Parts).

f. *An identification of specific units (operating or closed) present at the facility for which the GMZ is proposed;*
The GMZ is proposed for the groundwater potential source areas identified at the facility which to date include the following:

- Outside Container Storage Area;
- 2000 LUST incident #20001409; and
- East South Alley – JP-4.

The GMZ would also apply to any additional areas of impact identified at the Site by future investigation activities.

g. *A USGS topographic or county map showing the location of the site and a more detailed scaled map of the facility with each waste management unit identified in Item 1.f above. Map scale must be specific and the location of the facility must be provided with respect to Township, Section, and Range;*

The location of the Site is shown on a United State Geological Survey (USGS) map as Figure 1.1. A more detailed map of the facility which identifies the areas listed in Section 1f above is provided as Figure 1.5. The facility is located in the southeast portion of the City of Rockford, Illinois, in Section 36 of Township 44 north, Range 1 east, of Rockford Township in Winnebago County.

h. *A description of the geology and hydrogeology within the proposed GMZ and the surrounding area;*

The geological profile encountered at the HS Plant #1 Facility generally consists of surface pavement (asphalt, concrete pad, or floor slab) with a gravel fill subbase from ground surface to one to two feet below ground surface (bgs), underlain by silty clay to a depth of four to eight feet bgs, which is underlain by poorly to well graded sand (predominantly fine to medium sand) with some gravelly units to below the maximum depth of the borings at the site (140 feet). The sand and gravel has been reported to extend to a depth of 230 to 250 feet bgs in the vicinity of Area 9/10. This glacial outwash is identified as the Mackinaw Member of the Henry Formation. Bedrock encountered in borings/wells in the area is part of the Ordovician period Ancell Group (sandstone) of the Paleozoic era. Cross section alignments are shown on Figure 2.1 and east-west (A-A') and north south (B-B') cross sections are provided as Figures 2.2 and 2.3, respectively.

The vadose zone extends within the sand to a depth of approximately 30 feet bgs. Within the vadose zone sand there is a discontinuous one to four feet thick silt layer at approximately 18 to 23 feet bgs which was identified in the OSA. This layer was observed only in a limited area in the northwest portion of the Site. No other substantive or continuous fine grained layers or lenses were documented during the PDI investigation activities. At depth within the aquifer some coarser grained gravelly sand and sandy gravel units were observed.

The uppermost aquifer at the Site is the sand and gravel aquifer. The potentiometric surface level ranges between 30 to 35 feet bgs. This level varies somewhat seasonally and appears to mirror the general rainfall pattern of the

area. Over the past several years the water level has typically been approximately 33 feet bgs. The aquifer is greater than 100 feet in thickness at the Site. The groundwater flow is to the west-southwest at a gradient of approximately 0.0008 ft/ft (0.6 ft / 715 ft in March 2006) toward the Rock River. The hydraulic conductivity of the sand aquifer is 1.22 x 10^{-3} cm/sec and the aquifer porosity is assumed to be 0.25 (both from the CDM Focused Feasibility Study [FFS] 2000). Using this data, it is estimated that the average linear velocity (also referred to as groundwater seepage velocity) is likely between 4 and 10 feet per year. The March 2006 Groundwater Potentiometric Surface Map is presented as Figure 2.4.

i. Groundwater classification at the site;

The groundwater in the uppermost aquifer is Class I Groundwater.

j. A description of the circumstances under which the release from each waste management unit identified in Item 1.f above, to groundwater was identified.

Following is a list of the source areas and the circumstances under which a release to groundwater was identified. If a release to groundwater has not been confirmed through investigation then the area is identified as having the potential to impact groundwater.

The areas identified in Item 1f above were identified as follows:

- Outside Container Storage Area;
- 2000 LUST incident #20001409 (potential); and
- East South Alley – JP-4.

2.2 RELEASE INFORMATION

Area 9/10 is part of the larger site-wide Southeast Rockford Groundwater Contamination Superfund Site. This area extends over a large portion of southeast Rockford and has several areas which have been identified for source control activities. Based on the analytical data collected to date it appears there are upgradient facilities and operations that have impacted

groundwater. Prior to discussion of the COCs identified at the Site it is very important to note is that impacted groundwater is and has been migrating onto the HS Plant #1 facility from the Southeast Rockford Groundwater Contamination Superfund Site. The following chemicals have been detected in the Area 9/10 upgradient wells:

Total Petroleum Hydrocarbon (TPH) - Jet Fuel (JP-4)
Tetrachloroethene
1,2-Dichloroethene (total)
Carbon tetrachloride
Acetone
Chloroform
1,1,1-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
Trichloroethene

The following chemicals have been detected in upgradient wells at levels above the Class I groundwater remediation objectives:

Tetrachloroethene
Chloroform
Trichloroethene

Information Regarding the Release, including:

a. *The chemical constituents released to the groundwater;*
   The following chemical constituents have been detected in groundwater at the HS Plant #1 facility within Area 9/10.
   TPH - Jet Fuel (JP4)
   Ethylbenzene
   1,2-Dichloroethane
   Toluene
   Tetrachloroethene

Xylenes (total)
1,2-Dichloroethene (total)
Carbon tetrachloride
Acetone
Chloroform
Benzene
1,1,1-Trichloroethane
Chloroethane
Vinyl chloride
Methylene chloride
1,1-Dichloroethane
1,1-Dichloroethene
2-Butanone (MEK)
1,1,2-Trichloroethane
Trichloroethene

b. *Identification of the chemical constituents detected in groundwater that are above the applicable standard in 35 Ill. Adm. Code Part 620;*

The following chemical constituents have been detected in groundwater at concentrations above the Class I groundwater standards:

1,2-Dichloroethane
Tetrachloroethene
Chloroform
Benzene
1,1,1-Trichloroethane
Vinyl chloride
1,1-Dichloroethane
1,1-Dichloroethene
1,1,2-Trichloroethane
Trichloroethene

c. *A description of how the site has been investigated to determine the source or sources of the release;*

The initial Superfund field work was completed by the IEPA contractor, CDM of Chicago, Illinois, in the form of a RI at the Site over the period of 1993 to 2000. HS performed a more comprehensive Site-wide PDI consisting of 38 borings and installation of a monitoring well network of 21 wells in 2003 and 2004. The groundwater monitoring network established consists of 28 wells (SMW-1 through SMW-22, MW127, MW201, MW202, MW203, MW3-FGA, and MW7-FGA).

d. *A description of how groundwater has been monitored to determine the rate and extent of the release;*

Groundwater monitoring activities from wells at and around the Site have been conducted over the period of 1996 to 2004. Details of the activities completed have been summarized in the following documents:

- Final Remedial Investigation Report for the Southeast Rockford Source Control Operable Unit dated July 25, 2000 prepared by CDM for IEPA:
- Semi-Annual and Annual groundwater reports contracted by the City of Rockford 1999-2002 which were prepared by Nationwide Environmental Services, Inc. of Denver, Colorado; and
- Pre-Design Investigation Report dated April 28, 2006 prepared by SECOR International Incorporated (SECOR) for HS.

e. *A description of the groundwater monitoring network and groundwater sampling protocols in place at the facility;*

The RI groundwater sampling was completed by CDM using a Fultz pump. The City of Rockford groundwater survey sampling method was not documented in the data summary reports.

The Site groundwater monitoring network at the end of the PDI activities consisted of 28 wells. The groundwater sampling protocols used during the PDI activities were identified in the Field Sampling Plan dated March 31, 2003 and consisted of purging and hand bailing the wells with the exception of the four wells monitored by the City of Rockford. These wells were sampled using the

flow through cell purging equipment of the contractor (Eagan and Anderson) to the City of Rockford.

The GMZ monitoring network will consist of thirteen (13) wells. These will include nine (9) existing wells and four wells to be installed. Existing wells SMW-1, SMW-2, SMW-19, MW203, and MW7-FGA will be on the upgradient side of the GMZ and existing wells SMW-4, SMW-8, SMW-20 and SMW-21 and the four (4) new wells (GMZ-1 through GMZ-4) will be on the downgradient side. These new proposed wells will be installed as part of the Remedial Action activities. The locations of the existing and proposed GMZ monitoring wells are shown on Figure 2.5. Each of these wells has or will have a 15 feet long screen and set from approximately 30 feet to 45 feet bgs.

HS may use the purge and bail method of sampling as described in the Field Sampling Plan dated March 31, 2003. The actual protocol to be used will be contained in the Operation, Maintenance, and Monitoring (OM&M) Plan which is being developed as part of the Final Remedial Design.

f. *The schedule for monitoring of the groundwater;*

The schedule for groundwater monitoring will consist of the following:

The actual schedule for the sampling of the GMZ monitoring well network will be contained in the Final OM&M Plan which is being developed as part of the Remedial Action. Monitoring frequency will likely be based in part on the system remediation performance and the actual analytical results obtained from the monitoring effort. Outlined below are some of the considerations that will be incorporated into the decision making on when and how frequently groundwater monitoring will be performed:

- An initial or baseline round of groundwater samples may be collected after construction of the RA infrastructure but prior to implementation of the RA activities.

- Periodic evaluation of groundwater conditions based on the results of the system operation as outlined in the OM&M Plan submitted as part of the Final Design (100% Design) documents. This document will be revised and finalized as a requirement of the RA Statement of Work. This period will likely be at a minimum annually for the initial remediation operation (estimated to be two years).
- The interval period of monitoring after the initial remediation may increase after the remediation system reaches consistent operating performance.

g. *A summary of the results of groundwater monitoring associated with the release at each waste management unit identified in Item 1.f above. The summary of groundwater results should provide the following information:*

i. *Dates of sampling;*

A groundwater sample was collected from the MW127 well on October 11, 1993. Groundwater samples were collected from some or all of the IEPA/City wells (MW201, MW202, and MW203) by CDM as part of the Source Control RI in July 1996.

Samples were also collected from some or all of the IEPA/City wells by the contractor to the City of Rockford, Nationwide Environmental Services of Denver, Colorado, on the following dates:

- October 11, 1993;
- July 1996;
- June 1, 1999;
- October 27, 1999;
- February 15-16, 2000;
- April 18, 2000;
- July 20, 2000;
- November 16, 2000;
- April 13, 2001;
- October 2001;

- October 2002; and
- December 2003.

As part of the PDI two rounds of groundwater samples were collected by SECOR on behalf of HS from the Site monitoring well network in April and November 2004. The historical groundwater analytical data for the site including the dates of sampling are provided in Table 2.1.

ii. *Identification of monitoring wells;*

Following is a list of the monitoring wells grouped by naming convention that have been used in the evaluation of groundwater at the Site:

- SMW-1 through SMW-22;
- MW3-FGA and MW7-FGA; and
- MW127, MW201, MW202, and MW203.

iii. *Chemical constituents analyzed and concentrations in parts per million (ppm) for each monitoring well identified in Item 2.g.ii above;*

The chemical constituents analyzed and the concentrations in ppm for each monitoring well identified in Item 2.g.ii are provided in Table 2.1.

2.3 GMZ HORIZONTAL AND VERTICAL EXTENT

Scaled drawings identifying the horizontal and vertical boundaries of the proposed GMZ.

The GMZ is actually composed of two areas, GMZ 1 and GMZ 2, separated by the Illinois Central Railroad property. The overall horizontal extent of the proposed GMZ is approximately 1235 feet east to west and 530 feet north to south on the western portion of the Site and 350 feet north to south on the eastern portion of the Site. The GMZ extends to a depth of approximately 45 feet bgs which is 685 feet above mean sea level. The average depth to water over the past two years has been approximately 33 feet. The horizontal and vertical extent of the proposed GMZ is shown on Figure 2.2, 2.3, and 2.5. The GMZ and air sparge wells cross

section, which shows the placement of the air sparge wells with respect to the vertical limit of the GMZ, is provided as Figure 2.6.

2.4 PLANNED REMEDIAL ACTION

Information regarding the approved remedial action including:

a. *A description of the approved remedial action;*
HS has received approval of the March 2007 RD in a letter from USEPA dated April 26, 2007. The RD for SER Area 9/10 incorporates the selected remedies in the Source Control ROD, which were the use of AS and SVE technologies. The RD also incorporates excavation of soil at the OSA and Loading Dock areas.

b. *A description of how the approved remedial action has impacted the release;*
The SVE system will remove contaminants from the unsaturated zone, as well as groundwater (leachate) contaminants that diffuse from the surface of the water table due to the action of the AS system, the other principal component of the RA.

The SWMUs and Areas of Concern at the Site will be addressed under the CERCLA or RCRA programs as appropriate. The approximate locations of the SWMUs and Areas of Concern are provided in Figure 2.7. These areas will be investigated when they become accessible. The investigation results will indicate whether or not each area is a likely source of impact to groundwater, or if any could reasonably be assumed to become a source in the future. Source areas will then be addressed as part of the RA process, with proposals for remedial activities made to U.S. EPA and Illinois EPA as necessary.

c. *A description of how the approved remedial action is operated and maintained; A projected schedule for completion of remediation;*
The general operation of the remedial action will be as follows:

AS and SVE systems are planned to be operated in banks of multiple sparge points (5) and SVE wells (2) on a timing system that will pulse each of the three banks periodically.

The initial details of how the system will be operated and maintained are contained in the OM&M Plan, which is part of the approved RD and will be revised and finalized as a requirement of the RA Statement of Work. Presently there is not a projected schedule for the remediation. Completion of remediation will be performance based. It must also be noted that impacted groundwater is migrating onto the Site from other areas within the Southeast Rockford Groundwater Superfund Site outside of Area 9/10.

d. *An identification of any and all permits obtained from the Illinois EPA for the remedial action;*

The remedial action has not yet been implemented and no permits have been obtained for this purpose.

It is important to note that, as identified at Section 121(e) of CERCLA, and in the NCP at 40 CFR 300.400(e), no federal, state, or local permits are required for any remedial actions conducted entirely on-site. However, on-site emissions and/or discharges need to attain a level of treatment and management meeting all substantive technical requirements that may be required if a permit were necessary. Emissions or discharges that leave the site or response actions that are conducted off-site are subject to applicable permitting requirements.

Several activities that are anticipated as part of the RA that will require meeting technical requirements are the following:

- Return of condensate water to the aquifer through an air sparge point -- subject to Class V injection permit requirements
- Placement of HRC-X into the wells in the OSA - subject to Class V injection permit requirements

- SVE air emissions – subject to air permit treatment requirements if over 8 lbs per hour total volatile emissions (also subject to the facility FESOP requirements)

e. *A description of how groundwater at the facility will be monitored following the future completion of the remedy to ensure that the groundwater quality standards have been attained;*

Upon completion of the remedy it will be decided in conjunction with USEPA when, how often, or if groundwater monitoring is necessary.

f. *A discussion addressing the adequacy of the controls and management of the proposed GMZ at the site;*

The groundwater within the GMZ will be actively managed and monitored in accordance with the processes and procedures outlined in the OM&M Plan which is included in the approved RD. This will entail routine operation and maintenance activities, groundwater monitoring, and periodic reporting of the remediation performance and GMZ groundwater analytical results.

g. *Course of action for future activities and/or request for modification in regards to the proposed GMZ at the site.*

It is envisioned that if modifications to the GMZ are necessary that a written plan would be prepared and submitted to USEPA providing the rationale and justification. This may be done either as a stand alone document or as part of a periodic GMZ reevaluation.

2.5 POINT OF COMPLIANCE

In any GMZ, the goal is remediation of the groundwater to the level of the standards applicable to that class of groundwater. This goal does not mean all groundwater within the GMZ must be returned to the groundwater standard. On the other hand, groundwater within the GMZ that is beyond the point of compliance as established under 35 Ill. Adm. Code Part 620.505(a) is to be remediated to the level applicable to that groundwater class. However, groundwater contamination within the three-dimensional zone between the compliance point wells and the

waste management unit could still exceed the applicable standards at completion of the corrective action. If this is the case, post-remediation monitoring may be necessary.

The proposed GMZ monitoring network will consist of thirteen (13) wells: five (5) existing upgradient wells (SMW-1, SMW-2, SMW-19, MW203 and MW7-FGA); four (4) existing downgradient wells (SMW-4, SMW-8, SMW-20 and SMW-21); and four (4) proposed new downgradient wells GMZ-1 through GMZ-4. The point of compliance wells will be the eight (8) downgradient wells noted. The locations of these wells are shown on Figure 2.5.

TABLES

TABLE 1.1
SOIL ANALYTICAL RESULTS – OUTSIDE CONTAINER STORAGE AREA (OSA) (S1-S8) – VOCs, DRO/JP-4, and RCRA METALS
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, IL
S1

Analyte	ROD - Preliminary Remediation Goals and/or Section 742.Table A: Tier 1 Soil Remediation Objectives for Residential Properties: Soil Ingestion (ug/kg)	Soil Inhalation (ug/kg)	Soil Component of Groundwater Class 1 (ug/kg)	ADL (ug/kg)	Units RES	Q	Location Depth Sample Date	SB-S1 2-4' 10/28/2003		SB-S1 4-6' 10/28/2003		SB-S1 6-8' 10/28/2003		SB-S1 8-10' 10/28/2003		SB-S1 10-12' 10/28/2003		SB-S1 12-14' 10/28/2003		SB-S1 14-16' 10/28/2003		SB-S1 16-18' 10/28/2003		SB-S1 18-20' 10/28/2003		SB-S1 20-22' 10/28/2003		SB-S1 22-24' 10/28/2003		SB-S1 24-26' 10/28/2003		SB-S1 26-28' 10/28/2003		SB-S1 28-30' 10/28/2003		SB-S1 30-32' 10/28/2003		SB-S1 32-34' 10/28/2003	
							Units	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
1,1,1-Trichloroethane	NL	1,200,000	2,000	**				220,000	H	140,000		760		83		31		57		65		83		120		410		13		82		11		23		17		8.5	
1,1,2,2-Tetrachloroethane	NL	NL	NL	NL				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
1,1,2-Trichloroethane	310,000	1,800,000	20	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
1,1-Dichloroethane	7,800,000	1,300,000	23,000	**				7,600		11,000		230		5.1	U	4	Ja	11		8.2		7.2	Ja	17		120		5.6	U	15		5.3	U	5.3	U	5.2	U	5.4	U
1,1-Dichloroethene	700,000	1,500,000	60	**				440	U	560		90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
1,2-Dichloroethane	7,000	400	20	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	7.2		5.3	U	5.3	U	5.2	U	5.4	U
1,2-Dichloroethene (total)	NL	NL	NL	NL				12,000		9,400		280		19		6.1		14		12		11		24		130		5.6	U	22		5.3	U	4.5	Ja	3.5	Ja	5.4	U
1,2-Dichloropropane	9,000	15,000	30	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
2-Butanone (MEK)	NL	NL	NL	NL				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
2-Hexanone	NL	NL	NL	NL				440	U	410	U	90	U	5.1	U	5.1	U	32		4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
4-Methyl-2-pentanone (MIBK)	NL	NL	NL	NL				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Acetone	7,800,000	100,000,000	16,000	**				440	U	410	U	90	U	5.1	U	5.1	U	18		4.8	U	13		10	M	5.1	U	5.6	U	9.2		6.8	M	5.3	U	18		12	
Benzene	12,000	800	30	**				110	U	100	U	22	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	4.7	Ja	5.6	U	4.9	U	5.3	U	5.3	U	2.6	Ja	5.4	U
Bromodichloromethane	10,000	3,000,000	600	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	21		5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Bromoform	81,000	53,000	800	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Bromomethane	110,000	10,000	200	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Carbon disulfide	7,800,000	720,000	32,000	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Carbon tetrachloride	5,000	300	70	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Chlorobenzene	1,600,000	130,000	1,000	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Chloroethane	NL	NL	NL	NL				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Chloroform	100,000	300	600	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Chloromethane	NL	NL	NL	NL				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
cis-1,3-Dichloropropene	NL	NL	NL	NL				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Ethylbenzene	7,800,000	400,000	13,000	**				110	U	100	U	22	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	3.1	Ja	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	2.8	Ja
Methylene chloride	85,000	13,000	20	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	6.8	Ja	14		5.1	U	5.9		17		6.6		5.3	U	5.2	U	5.4	U
Styrene	16,000,000	1,500,000	4,000	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Tetrachloroethene	12,000	11,000	60	**				360,000		150,000		2,200		520		62		73		110		180		220		660		38		130		32		46		35		23	
Toluene	16,000,000	650,000	12,000	**				1,700		2,300		22	U	5.1	U	5.1	U	6.4	M	4.8	U	9.4	U	7.2	U	9.6		5.6	U	4.9	U	5.3	U	5.3	U	6.8		7	H
trans-1,3-Dichloropropene	NL	NL	NL	NL				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Trichloroethene	58,000	5,000	60	**				18,000		10,000		90	U	4.5	Ja	3.3	Ja	5.4		6.3		8.1	Ja	12		27		5.6	U	9.8		5.3	U	5.3	U	5.2	U	5.4	U
Vinyl chloride	460	280	10	**				440	U	410	U	90	U	5.1	U	5.1	U	4.7	U	4.8	U	9.4	U	7.2	U	5.1	U	5.6	U	4.9	U	5.3	U	5.3	U	5.2	U	5.4	U
Xylenes (total)	160,000,000	320,000	150,000	**				330	U	310	U	67	U	5.1	U	5.1	U	3.3	Ja	4.8	U	9.4	U	7.2	U	3.9	Ja	5.6	U	4.9	U	5.3	U	5.3	U	3.1	Ja	7.4	
DRO/JP-4								89,000	U	89,000	U	4,800	U	4,700	U	4,300	U	4,200	U	4,200	U	4,300	U	4,200	U	4,800	U	4,300	U	4,300	U	4,300	U	4,200	U	4,300	U	4,200	U
			ug/L					ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Arsenic,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Barium,TCLP			2,000					390	B	390		780	B	500	B	280	B	480	B	360	B	430	B	430	B	500	B	370	B	420	B	350	B	390	B	320	B	320	B
Cadmium,TCLP			5					5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chromium,TCLP			100					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Lead,TCLP			7.5					9.2		7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U
Mercury,TCLP			2					2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Selenium,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Silver,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U

See endnotes for analytical qualifier explanation.

TABLE 1.1
SOIL ANALYTICAL RESULTS – OUTSIDE CONTAINER STORAGE AREA (OSA)
(S1-S8) – VOCs, DRO/JP-4, and RCRA METALS
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, IL
S2

Analyte	ROD - Preliminary Remedation Goals and/or Section 742.Table A: Tier 1 Soil Remediation Objectives for Residential Properties: Soil Ingestion (ug/kg)	Soil Inhalation (ug/kg)	Soil Component of Groundwater Class 1 (ug/kg)	ADL (ug/kg)	Units RES	Q	Location	SB-S2		SB-S2		SB-S2		SB-S2		SB-S2		SB-S2		SB-S2		SB-S2		SB-S2		SB-S2		SB-S2		SB-S2		SB-S2		SB-S2		SB-S2	
							Depth	2-4'		4-6'		6-8'		8-10'		10-12'		12-14'		14-16'		16-18'		18-20'		20-22'		22-24'		24-26'		26-28'		28-30'		30-32'	
							Sample Date	10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003	
					Units			ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
1,1,1-Trichloroethane	NL	1,200,000	2,000	**				240,000		370		43		23	M	17		58		39		38	H	540		330		23	H	13		9.2		22		15	
1,1,2,2-Tetrachloroethane	NL	NL	NL	NL				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
1,1,2-Trichloroethane	310,000	1,800,000	20	**				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
1,1-Dichloroethane	7,800,000	1,300,000	23,000	**				8,100		94	U	6.8		3	Ja	4.6	U	9.7	H	5.8		7.6	U	110		100	U	2.7	Ja	5.1	U	5.1	U	5.2	U	4.9	U
1,1-Dichloroethene	700,000	1,500,000	60	**				1,300		94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
1,2-Dichloroethane	7,000	400	20	**				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
1,2-Dichloroethene (total)	NL	NL	NL	NL				7,200		280		30		13		11		26		16		10		320		210		8.1		5.1	U	5.1	U	5.8		4.9	U
1,2-Dichloropropane	9,000	15,000	30	**				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
2-Butanone (MEK)	NL	NL	NL	NL				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	8.1		5.2	U	4.9	U
2-Hexanone	NL	NL	NL	NL				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
4-Methyl-2-pentanone (MIBK)	NL	NL	NL	NL				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Acetone	7,800,000	100,000,000	16,000	**				170	U	94	U	14		4.8	U	50		4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	48		5.2	U	11	
Benzene	12,000	800	30	**				42	U	23	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	22	U	25	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Bromodichloromethane	10,000	3,000,000	600	**				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Bromoform	81,000	53,000	800	**				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Bromomethane	110,000	10,000	200	**				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Carbon disulfide	7,800,000	720,000	32,000	**				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Carbon tetrachloride	5,000	300	70	**				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Chlorobenzene	1,600,000	130,000	1,000	**				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Chloroethane	NL	NL	NL	NL				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Chloroform	100,000	300	600	**				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Chloromethane	NL	NL	NL	NL				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
cis-1,3-Dichloropropene	NL	NL	NL	NL				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Ethylbenzene	7,800,000	400,000	13,000	**				42	U	23	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	22	U	25	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Methylene chloride	85,000	13,000	20	**				170	U	94	U	12		4.8	U	4.6	U	4.8	U	4.9	U	11		90	U	100	U	9.8		5.1	U	5.1	U	5.2	U	4.9	U
Styrene	16,000,000	1,500,000	4,000	**				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Tetrachloroethene	12,000	11,000	60	**				320,000		1,100		120		120		87		150		140		190		1,800		890		98		55		40		74		48	
Toluene	16,000,000	650,000	12,000	**				540		23	U	4.7	U	4.8	U	9.6		4.8	U	4.9	U	7.6	U	22	U	25	U	5.1	U	5.1	U	11		5.2	U	6.2	
trans-1,3-Dichloropropene	NL	NL	NL	NL				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Trichloroethene	58,000	5,000	60	**				20,000		110		11		7		4.9		13		9.8		8.7		140		100	U	5.4		5.1	U	5.1	U	5.2	U	4.9	U
Vinyl chloride	460	280	10	**				170	U	94	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	90	U	100	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
Xylenes (total)	160,000,000	320,000	150,000	**				130	U	70	U	4.7	U	4.8	U	4.6	U	4.8	U	4.9	U	7.6	U	67	U	75	U	5.1	U	5.1	U	5.1	U	5.2	U	4.9	U
DRO/JP-4								4,900	U	4,700	U	4,500	U	4,400	U	4,300	U	4,200	U	4,300	U	4,400	U	4,800	U	5,100	U	4,300	U	4,200	U	4,200	U	4,300	U	4,200	U
			ug/L					ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Arsenic,TCLP			50					11	B	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Barium,TCLP			2,000					320		320		660	B	200	B	360	B	380	B	370	B	400	B	410	B	470	B	400	B	370	B	350	B	300	B	300	B
Cadmium,TCLP			5					5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	12		4	B	5	U	5	U	5	U	5	U	5	U
Chromium,TCLP			100					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Lead,TCLP			7.5					7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U
Mercury,TCLP			2					2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Selenium,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Silver,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U

See endnotes for analytical qualifier explanation.

TABLE 1.1
SOIL ANALYTICAL RESULTS – OUTSIDE CONTAINER STORAGE AREA (OSA)
(S1-S8) – VOCs, DRO/JP-4, and RCRA METALS
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, IL
S3

Analyte	ROD - Preliminary Remedation Goals and/or Section 742.Table A: Tier 1 Soil Remediation Objectives for Residential Properties: Soil Ingestion (ug/kg)	Soil Inhalation (ug/kg)	Soil Component of Groundwater Class 1 (ug/kg)	ADL (ug/kg)	Units RES	Q	Location	SB-S3		SB-S3		SB-S3		SB-S3		SB-S3		SB-S3		SB-S3		SB-S3		SB-S3		SB-S3		SB-S3		SB-S3		SB-S3		SBD-S3		SB-S3		SB-S3		SB-S3	
							Depth	0-2'		2-4'		4-6'		6-8'		8-10'		10-12'		12-14'		14-16'		16-18'		18-20'		20-22'		22-24'		24-26'		24-26'		26-28'		28-30'		30-32'	
							Sample Date	10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003		10/28/2003	
					Units			ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
1,1,1-Trichloroethane	NL	1,200,000	2,000	**				680		4,800		170		8.1	H	12	H	55		58		29	H	42		480		110		8.6	H	12	H	8.8	M	9.6	H	9.7	H	19	M
1,1,2,2-Tetrachloroethane	NL	NL	NL	NL				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
1,1,2-Trichloroethane	310,000	1,800,000	20	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
1,1-Dichloroethane	7,800,000	1,300,000	23,000	**				100		1,300		58		4.9	U	5	U	10	M	8.2		5.3	U	3.7	Ja	120		36		5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
1,1-Dichloroethene	700,000	1,500,000	60	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
1,2-Dichloroethane	7,000	400	20	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
1,2-Dichloroethene (total)	NL	NL	NL	NL				81	U	750		40		4.9	U	5	U	9.2		8.6		2.7	Ja	4	Ja	110		27		5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
1,2-Dichloropropane	9,000	15,000	30	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
2-Butanone (MEK)	NL	NL	NL	NL				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.4		5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
2-Hexanone	NL	NL	NL	NL				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
4-Methyl-2-pentanone (MIBK)	NL	NL	NL	NL				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Acetone	7,800,000	100,000,000	16,000	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.8		5.3	U	4.9	U	4.5	U	5.1	U
Benzene	12,000	800	30	**				20	U	30	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	23	U	4	Ja	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Bromodichloromethane	10,000	3,000,000	600	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Bromoform	81,000	53,000	800	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Bromomethane	110,000	10,000	200	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Carbon disulfide	7,800,000	720,000	32,000	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Carbon tetrachloride	5,000	300	70	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Chlorobenzene	1,600,000	130,000	1,000	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Chloroethane	NL	NL	NL	NL				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Chloroform	100,000	300	600	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Chloromethane	NL	NL	NL	NL				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
cis-1,3-Dichloropropene	NL	NL	NL	NL				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Ethylbenzene	7,800,000	400,000	13,000	**				20	U	30	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	23	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Methylene chloride	85,000	13,000	20	**				81	U	120	U	4.4	U	4.9	U	5.4		10		7.7		5.3	U	4.9	U	91	U	5	U	14		6.5		5.3	U	4.9	U	4.5	U	11	
Styrene	16,000,000	1,500,000	4,000	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Tetrachloroethene	12,000	11,000	60	**				2,200		20,000		120		12		22		75		82		61		82		800		96		26		32		25		28		21		49	
Toluene	16,000,000	650,000	12,000	**				20	U	30	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	23	U	7.8		5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
trans-1,3-Dichloropropene	NL	NL	NL	NL				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Trichloroethene	58,000	5,000	60	**				81	U	450		9.2		4.9	U	5	U	4	Ja	5		5.3	U	3.8	Ja	91	U	6.2		5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Vinyl chloride	460	280	10	**				81	U	120	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	91	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
Xylenes (total)	160,000,000	320,000	150,000	**				61	U	90	U	4.4	U	4.9	U	5	U	4.7	U	4.9	U	5.3	U	4.9	U	68	U	5	U	5.3	U	5.3	U	5.3	U	4.9	U	4.5	U	5.1	U
DRO/JP-4								4,400	U*	4,900	U*	4,900	U*	4,400	U*	4,400	U*	4,300	U*	4,300	U*	4,200	U*	4,300	U*	4,600	U*	4,800	U*	4,300	U*	4,300	U*	4,300	U*	4,200	U*	4,300	U*	4,200	U*
			ug/L					ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Arsenic,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Barium,TCLP			2,000					700	B	740	B	740		590	B	430	B	410	B	420	B	410	B	410	B	430	B	350	B	370	B	390	B	400	B	330	B	400	B	410	B
Cadmium,TCLP			5					10		4	B	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chromium,TCLP			100					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Lead,TCLP			7.5					7.5	U	7	B	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U
Mercury,TCLP			2					2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Selenium,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Silver,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U

See endnotes for analytical qualifier explanation.

TABLE 1.1
SOIL ANALYTICAL RESULTS – OUTSIDE CONTAINER STORAGE AREA (OSA)
(S1-S8) – VOCs, DRO/JP-4, and RCRA METALS
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, IL
S4

Analyte	ROD - Preliminary Remedation Goals and/or Section 742.Table A: Tier 1 Soil Remediation Objectives for Residential Properties: Soil Ingestion (ug/kg)	Soil Inhalation (ug/kg)	Soil Component of Groundwater Class 1 (ug/kg)	ADL (ug/kg)	Location / Depth / Sample Date / Units: RES	Q	SB-S4 0-2' 10/29/2003 ug/kg		SB-S4 2-4' 10/29/2003 ug/kg		SB-S4 4-6' 10/29/2003 ug/kg		SB-S4 6-8' 10/29/2003 ug/kg		SB-S4 8-10' 10/29/2003 ug/kg		SB-S4 10-12' 10/29/2003 ug/kg		SB-S4 12-14' 10/29/2003 ug/kg		SB-S4 16-18' 10/29/2003 ug/kg		SB-S4 18-20' 10/29/2003 ug/kg		SBD-S4 18-20' 10/29/2003 ug/kg		SB-S4 20-22' 10/29/2003 ug/kg		SB-S4 22-24' 10/29/2003 ug/kg		SB-S4 24-26' 10/29/2003 ug/kg		SB-S4 26-28' 10/29/2003 ug/kg		SB-S4 28-30' 10/29/2003 ug/kg		SB-S4 30-32' 10/29/2003 ug/kg	
1,1,1-Trichloroethane	NL	1,200,000	2,000	**			1,200		1,500		440		130		18		22		45		47		710		600		890		11		7.9		9.4		25		19	
1,1,2,2-Tetrachloroethane	NL	NL	NL	NL			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
1,1,2-Trichloroethane	310,000	1,800,000	20	**			100	U	92	U	8.3	Ja	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
1,1-Dichloroethane	7,800,000	1,300,000	23,000	**			100	U	170		310		32		5.3	U	5.1	U	7.3		5.7	U	130		100		180		5.3	U	5.2	U	4.9	U	5	U	3.4	Ja
1,1-Dichloroethene	700,000	1,500,000	60	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
1,2-Dichloroethane	7,000	400	20	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
1,2-Dichloroethene (total)	NL	NL	NL	NL			300		450		200		78		5.1	Ja	7.1		17		10		310		240		380		3.4	Ja	5.2	U	4.9	U	5.1		6.2	
1,2-Dichloropropane	9,000	15,000	30	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
2-Butanone (MEK)	NL	NL	NL	NL			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
2-Hexanone	NL	NL	NL	NL			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
4-Methyl-2-pentanone (MIBK)	NL	NL	NL	NL			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Acetone	7,800,000	100,000,000	16,000	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	17		4.5	U
Benzene	12,000	800	30	**			25	U	23	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	25	U	23	U	21	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Bromodichloromethane	10,000	3,000,000	600	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	9.3	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Bromoform	81,000	53,000	800	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Bromomethane	110,000	10,000	200	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Carbon disulfide	7,800,000	720,000	32,000	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Carbon tetrachloride	5,000	300	70	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Chlorobenzene	1,600,000	130,000	1,000	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Chloroethane	NL	NL	NL	NL			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Chloroform	100,000	300	600	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Chloromethane	NL	NL	NL	NL			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
cis-1,3-Dichloropropene	NL	NL	NL	NL			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Ethylbenzene	7,800,000	400,000	13,000	**			25	U	23	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	25	U	23	U	21	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Methylene chloride	85,000	13,000	20	**			100	U	92	U	12		11		8.2		5.1	U	9.4		5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	7.5	
Styrene	16,000,000	1,500,000	4,000	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Tetrachloroethene	12,000	11,000	60	**			5,100		4,400		580		110		51		46		100		120		1,600		1400		1,400		40		29		35		67		53	
Toluene	16,000,000	650,000	12,000	**			25	U	23	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	25	U	23	U	21	U	5.3	U	5.2	U	4.9	U	6.3		4.5	U
trans-1,3-Dichloropropene	NL	NL	NL	NL			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Trichloroethene	58,000	5,000	60	**			300		310		120		13		2.7	Ja	3.1	Ja	6.6		7.1		100		91		110		5.3	U	5.2	U	4.9	U	5	U	3	Ja
Vinyl chloride	460	280	10	**			100	U	92	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	100	U	93	U	85	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
Xylenes (total)	160,000,000	320,000	150,000	**			75	U	69	U	9.6	U	4.4	U	5.3	U	5.1	U	5.1	U	5.7	U	75	U	70	U	64	U	5.3	U	5.2	U	4.9	U	5	U	4.5	U
DRO/JP-4							4,600	U*	5,100	U*	4,700	U*	4,600	U*	4,300	U*	4,300	U*	4,300	U*	4,300	U*	4,700	U*	4.4	U*	5,200	U*	4,200	U*	4,300	U*	4,200	U*	4,300	U*	4,300	U*
			ug/L				ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Arsenic,TCLP			50				50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Barium,TCLP			2,000				330	B	840	B	790	B	530	B	530	B	120	B	450	B	310	B	350	B	350	B	460	B	360	B	370	B	360	B	380	B	370	B
Cadmium,TCLP			5				7		5	U	5	U	5	U	5	U	5	U	5	U	160		90		140		2	B	5	U	5	U	5	U	5	U	5	U
Chromium,TCLP			100				50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Lead,TCLP			7.5				5.5	B	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U
Mercury,TCLP			2				2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Selenium,TCLP			50				50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Silver,TCLP			50				50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U

See endnotes for analytical qualifier explanation.

SECOR

TABLE 1.1
SOIL ANALYTICAL RESULTS – OUTSIDE CONTAINER STORAGE AREA (OSA)
(S1-S8) – VOCs, DRO/JP-4, and RCRA METALS
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, IL
S5

Analyte	ROD - Preliminary Remedation Goals and/or Section 742.Table A: Tier 1 Soil Remediation Objectives for Residential Properties: Soil Ingestion (ug/kg)	Soil Inhalation (ug/kg)	Soil Component of Groundwater Class 1 (ug/kg)	ADL (ug/kg)	Units RES	Q	Location	SB-S5		SB-S5		SB-S5		SB-S5		SB-S5		SB-S5		SB-S5		SB-S5		SB-S5		SB-S5		SB-S5		SB-S5		SB-S5		SB-S5		SB-S5	
							Depth	2-4'		4-6'		6-8'		8-10'		10-12'		12-14'		14-16'		16-18'		18-20'		20-22'		22-24'		24-26'		26-28'		28-30'		30-32'	
							Sample Date	10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003	
					Units			ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
1,1,1-Trichloroethane	NL	1,200,000	2,000	**				230		860		130		18	H	100	U	23	H	22	H	35		250		300		23	H	12	H	21	H	20	H	24	H
1,1,2,2-Tetrachloroethane	NL	NL	NL	NL				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
1,1,2-Trichloroethane	310,000	1,800,000	20	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
1,1-Dichloroethane	7,800,000	1,300,000	23,000	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	55		3.4	Ja	4.9	U	5.3		3.9	Ja	4.8	U
1,1-Dichloroethene	700,000	1,500,000	60	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
1,2-Dichloroethane	7,000	400	20	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
1,2-Dichloroethene (total)	NL	NL	NL	NL				90	U	97		77	U	4.3	Ja	100	U	7.1		5.6		6.9		110		130		7.5		4.9	U	11		7.9		9.2	
1,2-Dichloropropane	9,000	15,000	30	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
2-Butanone (MEK)	NL	NL	NL	NL				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
2-Hexanone	NL	NL	NL	NL				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
4-Methyl-2-pentanone (MIBK)	NL	NL	NL	NL				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Acetone	7,800,000	100,000,000	16,000	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	6.8		4.9	U	5	U	4	Ja	4.8	U
Benzene	12,000	800	30	**				23	U	21	U	19	U	5	U	25	U	4.5	U	4.9	U	5.2	U	23	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Bromodichloromethane	10,000	3,000,000	600	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Bromoform	81,000	53,000	800	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Bromomethane	110,000	10,000	200	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Carbon disulfide	7,800,000	720,000	32,000	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Carbon tetrachloride	5,000	300	70	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Chlorobenzene	1,600,000	130,000	1,000	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Chloroethane	NL	NL	NL	NL				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Chloroform	100,000	300	600	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Chloromethane	NL	NL	NL	NL				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
cis-1,3-Dichloropropene	NL	NL	NL	NL				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Ethylbenzene	7,800,000	400,000	13,000	**				23	U	21	U	19	U	5	U	25	U	4.5	U	4.9	U	5.2	U	23	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Methylene chloride	85,000	13,000	20	**				90	U	85	U	77	U	13		100	U	5.5		4.9		11		91	U	5	U	12		7.2		5	U	4.7	U	6.6	
Styrene	16,000,000	1,500,000	4,000	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Tetrachloroethene	12,000	11,000	60	**				1,700		8,100		2,500		930		1,600		100		120		170		1,100		890		58		45		58		51		55	
Toluene	16,000,000	650,000	12,000	**				23	U	21	U	19	U	5	U	25	U	4.5	U	4.9	U	5.2	U	23	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
trans-1,3-Dichloropropene	NL	NL	NL	NL				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Trichloroethene	58,000	5,000	60	**				90	U	190		77	U	5.7		100	U	5.7		5.6		8.2		67	Ja	54		5	U	4.9	U	5	U	4.7	U	4.8	U
Vinyl chloride	460	280	10	**				90	U	85	U	77	U	5	U	100	U	4.5	U	4.9	U	5.2	U	91	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
Xylenes (total)	160,000,000	320,000	150,000	**				68	U	64	U	57	U	5	U	76	U	4.5	U	4.9	U	5.2	U	68	U	5	U	5	U	4.9	U	5	U	4.7	U	4.8	U
DRO/JP-4								5,100	U	4,900	U	4,400	U	4,300	U	4,300	Ua	4,200	U	4,300	U	4,300	Ua	4,600	U	5,000	U	4,300	U	4,200	U	4,500	U	4,300	U	4,200	U
			ug/L					ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Arsenic,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Barium,TCLP			2,000					930	B	930		910	B	680	B	530	B	430	B	490	B	450	B	560	B	470	B	470	B	460	B	430	B	440	B	390	B
Cadmium,TCLP			5					3900		3	B	7		120		310		310		58		48		140		150		8		20		18		5	U	5	U
Chromium,TCLP			100					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Lead,TCLP			7.5					7.5	U	22		12		43		6.3	B	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U
Mercury,TCLP			2					2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Selenium,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Silver,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U

See endnotes for analytical qualifier explanation.

TABLE 1.1
SOIL ANALYTICAL RESULTS – OUTSIDE CONTAINER STORAGE AREA (OSA)
(S1-S8) – VOCs, DRO/JP-4, and RCRA METALS
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, IL
S6

Analyte	ROD - Preliminary Remedation Goals and/or Section 742.Table A: Tier 1 Soil Remediation Objectives for Residential Properties: Soil Ingestion (ug/kg)	Soil Inhalation (ug/kg)	Soil Component of Groundwater Class 1 (ug/kg)	ADL (ug/kg)	Units RES	Q	Location	SB-S6		SB-S6		SB-S6		SB-S6		SB-S6		SB-S6		SB-S6		SB-S6		SB-S6		SB-S6		SB-S6		SB-S6		SB-S6		SB-S6		SB-S6		SB-S6	
							Depth	0-2'		2-4'		4-6'		6-8'		8-10'		10-12'		12-14'		14-16'		16-18'		18-20'		20-22'		22-24'		24-26'		26-28'		28-30'		30-32'	
							Sample Date	10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003		10/29/2003	
					Units			ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
1,1,1-Trichloroethane	NL	1,200,000	2,000	**				11		67		77		8		7.4		15		18		11		21		12		7.5		7.9		8.6		13		9.9		9.3	
1,1,2,2-Tetrachloroethane	NL	NL	NL	NL				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
1,1,2-Trichloroethane	310,000	1,800,000	20	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
1,1-Dichloroethane	7,800,000	1,300,000	23,000	**				5	U	8.9		18		5.2	U	5	U	4.9	U	4.2	Ja	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
1,1-Dichloroethene	700,000	1,500,000	60	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
1,2-Dichloroethane	7,000	400	20	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
1,2-Dichloroethene (total)	NL	NL	NL	NL				5	U	4.7	U	11		5.2	U	5	U	4.9	U	3.3	Ja	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
1,2-Dichloropropane	9,000	15,000	30	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
2-Butanone (MEK)	NL	NL	NL	NL				5	U	4.7	U	4.4	U	5.2	U	5.7		6.1	H	6.9		5.1	U	6.8		6.6		5	U	5.3	U	6.7		6.3		4.9		6.6	
2-Hexanone	NL	NL	NL	NL				5	U	4.7	U*	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
4-Methyl-2-pentanone (MIBK)	NL	NL	NL	NL				5	U	4.7	U*	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Acetone	7,800,000	100,000,000	16,000	**				49		4.7	U	59		43		34		23		34		19		27		28		16		15		24		26		22		25	
Benzene	12,000	800	30	**				5	U	4.7	U	4.4	U	5.2	U	5	U	3.2	Ja	4.4	U	3.4	Ja	3	Ja	3.8	Ja	3.9	Ja	3.4	Ja	5	U	5.4	U	2.5	Ja	5.1	U
Bromodichloromethane	10,000	3,000,000	600	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Bromoform	81,000	53,000	800	**				5	U	4.7	U*	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Bromomethane	110,000	10,000	200	**				5	U	4.7	U*	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Carbon disulfide	7,800,000	720,000	32,000	**				5	U	9.4		4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Carbon tetrachloride	5,000	300	70	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Chlorobenzene	1,600,000	130,000	1,000	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Chloroethane	NL	NL	NL	NL				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Chloroform	100,000	300	600	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Chloromethane	NL	NL	NL	NL				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
cis-1,3-Dichloropropene	NL	NL	NL	NL				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Ethylbenzene	7,800,000	400,000	13,000	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Methylene chloride	85,000	13,000	20	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Styrene	16,000,000	1,500,000	4,000	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Tetrachloroethene	12,000	11,000	60	**				44		140		80		6.8		13		21		21		20		41		24		20		19		21		30		19		22	
Toluene	16,000,000	650,000	12,000	**				5	U	4.7	U	4.4	U	5.2	U	7.9		8.9		7.1		9.2		8.1		10		9.8		8.6		7.8		8.2		6.5		8.3	
trans-1,3-Dichloropropene	NL	NL	NL	NL				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Trichloroethene	58,000	5,000	60	**				5	U	4.7	U	3.8	Ja	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Vinyl chloride	460	280	10	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
Xylenes (total)	160,000,000	320,000	150,000	**				5	U	4.7	U	4.4	U	5.2	U	5	U	4.9	U	4.4	U	5.1	U	5	U	5.6	U	5	U	5.3	U	5	U	5.4	U	4.2	U	5.1	U
DRO/JP-4								5,000	U*	5,000	U*	4,600	U*	4,400	U*	4,300	U*	4,300	U*	4,300	U*	4,200	U*	4,300	U*	4,700	U*	4,300	U*	4,400	U*	4,300	U*	4,300	U*	4,200	U*	4,200	U*
			ug/L					ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Arsenic,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Barium,TCLP			2,000					390	B	810	B	810		540	B	390	B	390	B	400	B	360	B	450	B	380	B	370	B	330	B	330	B	320	B	420	B	460	B
Cadmium,TCLP			5					5	U	8		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chromium,TCLP			100					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Lead,TCLP			7.5					7.5	U	110		7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U
Mercury,TCLP			2					2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2.3		2	U	2	U	2	U
Selenium,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Silver,TCLP			50					50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U

See endnotes for analytical qualifier explanation.

TABLE 1.1
SOIL ANALYTICAL RESULTS – OUTSIDE CONTAINER STORAGE AREA (OSA)
(S1-S8) – VOCs, DRO/JP-4, and RCRA METALS
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, IL
S7

Analyte	ROD - Preliminary Remedation Goals and/or Section 742.Table A: Tier 1 Soil Remediation Objectives for Residential Properties: Soil Ingestion (ug/kg)	Soil Inhalation (ug/kg)	Soil Component of Groundwater Class 1 (ug/kg)	ADL (ug/kg)	Location / Depth / Sample Date / Units: RES	Q	SB-S7 2-4' 10/30/2003 ug/kg		SBD-S7 2-4' 10/30/2003 ug/kg		SB-S7 4-6' 10/30/2003 ug/kg		SB-S7 6-8' 10/30/2003 ug/kg		SB-S7 8-10' 10/30/2003 ug/kg		SB-S7 10-12' 10/30/2003 ug/kg		SB-S7 12-14' 10/30/2003 ug/kg		SB-S7 14-16' 10/30/2003 ug/kg		SB-S7 16-18' 10/30/2003 ug/kg		SB-S7 18-20' 10/30/2003 ug/kg		SB-S7 20-22' 10/30/2003 ug/kg		SB-S7 22-24' 10/30/2003 ug/kg		SB-S7 24-26' 10/30/2003 ug/kg		SBD-S7 24-26' 10/30/2003 ug/kg		SB-S7 26-28' 10/30/2003 ug/kg		SB-S7 28-30' 10/30/2003 ug/kg		SB-S7 30-32' 10/30/2003 ug/kg	
1,1,1-Trichloroethane	NL	1,200,000	2,000	**			12,000		4400		130		15		14		50		14		6.8		11		210		6.8		18	H	7.2		10		7.7	H	14	H	19	H
1,1,2,2-Tetrachloroethane	NL	NL	NL	NL			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
1,1,2-Trichloroethane	310,000	1,800,000	20	**			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
1,1-Dichloroethane	7,800,000	1,300,000	23,000	**			370		130		20		4.7	U	5.3	U	5.4		5	U	5.2	U	5.3	U	48		5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
1,1-Dichloroethene	700,000	1,500,000	60	**			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
1,2-Dichloroethane	7,000	400	20	**			95	U	110	U	5.8	U*	4.7	U*	5.3	U*	5.3	U*	5	U	5.2	U*	5.3	U*	5.4	U	5.2	U*	5.5	U	5.3	U*	5.2	U*	5.4	U	5.3	U	5.2	U
1,2-Dichloroethene (total)	NL	NL	NL	NL			220		94	J	23		3.3	Ja	5.3	U	6.3		5	U	5.2	U	5.3	U	52		5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	3.8	Ja
1,2-Dichloropropane	9,000	15,000	30	**			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
2-Butanone (MEK)	NL	NL	NL	NL			95	U	110	U	5.8	U*	4.7	U*	5.3	U*	5.3	U*	5	U	5.2	U*	5.3	U*	5.4	U	5.2	U*	5.5	U	5.3	U*	5.2	U*	5.4	U	5.3	U	5.2	U
2-Hexanone	NL	NL	NL	NL			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U*	5.2	U	5.3	U	5.4	U*	5.2	U	5.5	U*	5.3	U	5.2	U	5.4	U*	5.3	U*	5.2	U*
4-Methyl-2-pentanone (MIBK)	NL	NL	NL	NL			95	U	110	U	5.8	U*	4.7	U*	5.3	U*	5.3	U*	5	U*	5.2	U*	5.3	U*	5.4	U*	5.2	U*	5.5	U*	4.3	U*	5.2	U*	5.4	U*	5.3	U*	5.2	U*
Acetone	7,800,000	100,000,000	16,000	**			95	U	110	U	71	*	44	*	36	*	25	*	10		5.2	U*	5.3	U*	5.4	U	18	*	13		14	*	20	*	14		17		20	
Benzene	12,000	800	30	**			24	U	29	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.2	Ja	5.2	U	5.5	U	3.4	U	5.2	U	5.4	U	5.3	U	5.2	U
Bromodichloromethane	10,000	3,000,000	600	**			95	U	110	U	5.8	U*	4.7	U*	5.3	U*	5.3	U*	5	U	5.2	U*	5.3	U*	5.4	U	5.2	U*	5.5	U	5.3	U*	5.2	U*	5.4	U	5.3	U	5.2	U
Bromoform	81,000	53,000	800	**			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U*	5.2	U	5.3	U	5.4	U*	5.2	U	5.5	U*	5.3	U	5.2	U	5.4	U*	5.3	U*	5.2	U*
Bromomethane	110,000	10,000	200	**			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U*	5.2	U	5.3	U	5.4	U*	5.2	U	5.5	U*	5.3	U	5.2	U	5.4	U*	5.3	U*	5.2	U*
Carbon disulfide	7,800,000	720,000	32,000	**			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
Carbon tetrachloride	5,000	300	70	**			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
Chlorobenzene	1,600,000	130,000	1,000	**			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
Chloroethane	NL	NL	NL	NL			95	U	110	U	5.8	U*	4.7	U*	5.3	U*	5.3	U*	5	U	5.2	U*	5.3	U*	5.4	U	5.2	U*	5.5	U	5.3	U*	5.2	U*	5.4	U	5.3	U	5.2	U
Chloroform	100,000	300	600	**			95	U	110	U	5.8	U*	4.7	U*	5.3	U*	5.3	U*	5	U	5.2	U*	5.3	U*	5.4	U	5.2	U*	5.5	U	5.3	U*	5.2	U*	5.4	U	5.3	U	5.2	U
Chloromethane	NL	NL	NL	NL			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
cis-1,3-Dichloropropene	NL	NL	NL	NL			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
Ethylbenzene	7,800,000	400,000	13,000	**			24	U	29	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
Methylene chloride	85,000	13,000	20	**			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	11		5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
Styrene	16,000,000	1,500,000	4,000	**			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
Tetrachloroethene	12,000	11,000	60	**			49,000		17,000		84		18		28		60		34		30		47		590		16		42		25		24		24		34		40	
Toluene	16,000,000	650,000	12,000	**			24	U	29	U	5.8	U	4.7	U	5.3	U	5.3	U	7.4		5.2	U	5.3	U	9.7		6.7		7.6		8.5		6.5		7.3		7.2		7.5	H
trans-1,3-Dichloropropene	NL	NL	NL	NL			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
Trichloroethene	58,000	5,000	60	**			670		270		6		4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	15		5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
Vinyl chloride	460	280	10	**			95	U	110	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
Xylenes (total)	160,000,000	320,000	150,000	**			71	U	86	U	5.8	U	4.7	U	5.3	U	5.3	U	5	U	5.2	U	5.3	U	5.4	U	5.2	U	5.5	U	5.3	U	5.2	U	5.4	U	5.3	U	5.2	U
DRO/JP-4							4,900	U	4,900	U	4,900	U	4,400	U	4,400	U	4,400	U	4,200	U	4,300	U	4,300	U	5,000	U	4,200	U	4,300	U	4,200	U	4,200	U	4,200	U	4,500	U	4,200	U
			ug/L				ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Arsenic,TCLP			50				50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Barium,TCLP			2,000				460		510		690	B	610	B	530	B	650	B	420	B	130	B	130	B	390	B	410	B	340	B	420	B	330	B	360	B	350	B	380	B
Cadmium,TCLP			5				5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chromium,TCLP			100				50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Lead,TCLP			7.5				28		7.5		7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U
Mercury,TCLP			2				2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Selenium,TCLP			50				50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Silver,TCLP			50				50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U

See endnotes for analytical qualifier explanation.

TABLE 1.1
SOIL ANALYTICAL RESULTS – OUTSIDE CONTAINER STORAGE AREA (OSA)
(S1-S8) – VOCs, DRO/JP-4, and RCRA METALS
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, IL
S8

Analyte	ROD - Preliminary Remedation Goals and/or Section 742.Table A: Tier 1 Soil Remediation Objectives for Residential Properties: Soil Ingestion (ug/kg)	Soil Inhalation (ug/kg)	Soil Component of Groundwater Class 1 (ug/kg)	ADL (ug/kg)	Units RES	Q	Location / Depth / Sample Date: SB-S8 2-4' 10/30/2003		SB-S8 4-6' 10/30/2003		SB-S8 6-8' 10/30/2003		SB-S8 8-10' 10/30/2003		SBD-S8 8-10' 10/30/2003		SB-S8 10-12' 10/30/2003		SB-S8 12-14' 10/30/2003		SB-S8 14-16' 10/30/2003		SB-S8 16-18' 10/30/2003		SB-S8 18-20' 10/30/2003		SBD-S8 18-20' 10/30/2003		SB-S8 20-22' 10/30/2003		SB-S8 22-24' 10/30/2003		SB-S8 24-26' 10/30/2003		SB-S8 26-28' 10/30/2003		SB-S8 28-30' 10/30/2003		SB-S8 30-32' 10/30/2003	
							ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
1,1,1-Trichloroethane	NL	1,200,000	2,000	**			500		120		31		10		7.8		24		8.3		12		11		48		110		16		23		6.2		26		7.8		8.9	
1,1,2,2-Tetrachloroethane	NL	NL	NL	NL			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
1,1,2-Trichloroethane	310,000	1,800,000	20	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
1,1-Dichloroethane	7,800,000	1,300,000	23,000	**			92	U	13		3.9	Ja	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	3.9	Ja	5.2	U	5.3	U	2.9	Ja	5.1	U	5.2	U
1,1-Dichloroethene	700,000	1,500,000	60	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
1,2-Dichloroethane	7,000	400	20	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
1,2-Dichloroethene (total)	NL	NL	NL	NL			92	U	21		6.8		5.1	U	4.8	U	4.5		4.9	U	5	U	5.2	U	13		28		7		3.2	Ja	5.3	U	6		5.1	U	5.2	U
1,2-Dichloropropane	9,000	15,000	30	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
2-Butanone (MEK)	NL	NL	NL	NL			92	U	5.3		4.8		5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
2-Hexanone	NL	NL	NL	NL			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
4-Methyl-2-pentanone (MIBK)	NL	NL	NL	NL			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Acetone	7,800,000	100,000,000	16,000	**			92	U	52		30		5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Benzene	12,000	800	30	**			23	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	3.0	J	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Bromodichloromethane	10,000	3,000,000	600	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Bromoform	81,000	53,000	800	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Bromomethane	110,000	10,000	200	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Carbon disulfide	7,800,000	720,000	32,000	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Carbon tetrachloride	5,000	300	70	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Chlorobenzene	1,600,000	130,000	1,000	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Chloroethane	NL	NL	NL	NL			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Chloroform	100,000	300	600	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Chloromethane	NL	NL	NL	NL			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
cis-1,3-Dichloropropene	NL	NL	NL	NL			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Ethylbenzene	7,800,000	400,000	13,000	**			23	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Methylene chloride	85,000	13,000	20	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Styrene	16,000,000	1,500,000	4,000	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Tetrachloroethene	12,000	11,000	60	**			2,800		150		39		38		29		57		32		53		46		110		630		45		72		25		65		30		33	
Toluene	16,000,000	650,000	12,000	**			23	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	6.1		4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
trans-1,3-Dichloropropene	NL	NL	NL	NL			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Trichloroethene	58,000	5,000	60	**			110		12		3	Ja	5.1	U	4.8	U	3.9	Ja	4.9	U	5	U	5.2	U	7.2		13		2.7	Ja	3.7	Ja	5.3	U	4.2	Ja	5.1	U	5.2	U
Vinyl chloride	460	280	10	**			92	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
Xylenes (total)	160,000,000	320,000	150,000	**			69	U	4.7	U	4.5	U	5.1	U	4.8	U	4.3	U	4.9	U	5	U	5.2	U	5.5	U	4.6	U	4.1	U	5.2	U	5.3	U	4.9	U	5.1	U	5.2	U
DRO/JP-4							5,000	U	4,800	U	4,700	U	4,200	U	4,300	U	4,400	U	4,300	U	4,300	U	4,300	U	5,000	U	4200	U	4,200	U	4,300	U	4,400	U	4,300	U	4,400	U	4,200	U
			ug/L				ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Arsenic,TCLP			50				50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Barium,TCLP			2,000				380		890	B	620	B	390	B	430	B	390	B	530	B	200	B	410	B	390	B	350	B	140	B	440	B	410	B	390	B	380	B	460	B
Cadmium,TCLP			5				20		12		4	B	5	U	5	U	5	U	5	U	4	B	5	U	47		5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chromium,TCLP			100				50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Lead,TCLP			7.5				7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U	7.5	U
Mercury,TCLP			2				2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Selenium,TCLP			50				50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Silver,TCLP			50				50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U

See endnotes for analytical qualifier explanation.

TABLE 1.1
SOIL ANALYTICAL RESULTS – OUTSIDE CONTAINER STORAGE AREA (OSA)
(S1-S8) – VOCs, DRO/JP-4, and RCRA METALS
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, IL
ENDNOTES

Analytical Table Notes:

Sample Collection Method
SB - Soil Boring
GW - Groundwater

General Abbreviations and Symbols
NL - Not Listed
Res - Result or Reporting Limit
RO - Remediation Objective
Q - Qualifier
** - Less than or equal to specified RO

Data Presentation

0.005	U	Not detected at specified Reporting Limit
0.005	**U**	(Bold) Detection limit above lowest specified RO
0.005		(Bold, Italic) Indicates compound detected but below lowest specified RO
0.005		(Bold, Italic, Shaded) Indicates compound detected above lowest specified RO
		(Blank) Indicates no analytical data for compound

Analytical Data Qualifiers
B - (Metals) Results less than reporting limit but greater than or equal to Method Detection Limit
E - Result exceeds calibration range, secondary dilution required
U - Not Detected
J - Estimated value below the Reporting Limit
a - Concentration is below the Method Reporting Limit
* - Batch QC exceeded the upper or lower control limits
H - Result based on an alternative peak selection upon analytical review
M - Manually Integrated Compound
- Concentration above Background Level but below lowest RO

TABLE 1.2
SOIL ANALYTICAL RESULTS - HS PLANT #1 AND OFFSITE PROPERTIES-
VOCs and DRO/JP-4
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS
S9 - S15 and SMW SAMPLES

Analyte	ROD - Preliminary Remediation Goals and/or Section 742.Table A: Tier 1 Soil Remediation Objectives for Residential Properties: Soil Ingestion (ug/kg)	Soil Inhalation (ug/kg)	Soil Component of Groundwater Class 1 (ug/kg)	ADL (ug/kg)	Location / Depth / Sample Date / Units: RES	Q	SB-S9 8-10' 10/27/2003 ug/kg		SB-S9 17.5-18.5' 11/12/2003 ug/kg		SB-S9 26-28' 10/27/2003 ug/kg		SB-S10 10-11' 11/12/2003 ug/kg		SB-S10 22-23' 11/12/2003 ug/kg		SB-S11 10-12' 10/27/2003 ug/kg		SB-S11 26-28' 10/27/2003 ug/kg		SB-S12 2-4' 10/27/2003 ug/kg		SB-S12 26-28' 10/27/2003 ug/kg		SB-S13 2-4' 10/27/2003 ug/kg		SB-S13 24-26' 10/27/2003 ug/kg		SB-S14 8-10' 10/27/2003 ug/kg		SB-S14 24-26' 10/27/2003 ug/kg		SBD-S14 24-26' 10/27/2003 ug/kg		SB-S15 10-12' 3/8/2004 ug/kg		SB-S15 22-24' 3/8/2004 ug/kg		SB-SMW-1 10-12' 10/22/2003 ug/kg		SB-SMW-1 28-30' 10/22/2003 ug/kg	
1,1,1-Trichloroethane	NL	1,200,000	2,000	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	48		4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U*	5.1	U*	4.8	U	4.8	U
1,1,2,2-Tetrachloroethane	NL	NL	NL	NL			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
1,1,2-Trichloroethane	310,000	1,800,000	20	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
1,1-Dichloroethane	7,800,000	1,300,000	23,000	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U*	5.1	U*	4.8	U	4.8	U
1,1-Dichloroethene	700,000	1,500,000	60	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
1,2-Dichloroethane	7,000	400	20	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
1,2-Dichloroethene (total)	NL	NL	NL	NL			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
1,2-Dichloropropane	9,000	15,000	30	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
2-Butanone (MEK)	NL	NL	NL	NL			4.8	U	6		5.1	U	9.1		5.2		5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
2-Hexanone	NL	NL	NL	NL			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
4-Methyl-2-pentanone (MIBK)	NL	NL	NL	NL			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
Acetone	7,800,000	100,000,000	16,000	**			9.3		19		16		32		19		19		4.6	U	13		15		96	U	28	M	96	U	15		14		4.5	U	5.1	U	17	B	18	B
Benzene	12,000	800	30	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	3.4	Ja	24	U	5	U	24	U	3.0	U	4.9	U	4.5	U	5.1	U	4.8	U	3	Ja
Bromodichloromethane	10,000	3,000,000	600	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
Bromoform	81,000	53,000	800	**			4.8	U	5.1	U*	5.1	U	4.4	U*	5	U*	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
Bromomethane	110,000	10,000	200	**			4.8	U	5.1	U*	5.1	U	4.4	U*	5	U*	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
Carbon disulfide	7,800,000	720,000	32,000	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U*	5.1	U*	4.8	U	4.8	U
Carbon tetrachloride	5,000	300	70	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U*	5.1	U*	4.8	U	4.8	U
Chlorobenzene	1,600,000	130,000	1,000	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
Chloroethane	NL	NL	NL	NL			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
Chloroform	100,000	300	600	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U*	5.1	U*	4.8	U	4.8	U
Chloromethane	NL	NL	NL	NL			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
cis-1,3-Dichloropropene	NL	NL	NL	NL			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
Ethylbenzene	7,800,000	400,000	13,000	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	2.7	Ja	24	U	5	U	24	U	2.8	Ja	4.9	U	4.5	U	5.1	U	2.4	Ja	2.9	Ja
Methylene chloride	85,000	13,000	20	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	130		5	U	140		5.1	U	4.9	U	5.7		6.8		4.8	U	4.8	U
Styrene	16,000,000	1,500,000	4,000	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
Tetrachloroethene	12,000	11,000	60	**			4.8	U	5.7		6.8		24		4.6	Ja	40		49		29,000		27		1,500		11		96	U	5.4		5.8		4.5	U	5.1	U	4.8	U	4.8	U
Toluene	16,000,000	650,000	12,000	**			7.5		9.6		8		7.6		9.7		7.5		7	H	4.8	U	7.9		24	U	3.9	Ja	24	U	7.8		7.1		4.5	U	5.1	U	6.5		7.3	
trans-1,3-Dichloropropene	NL	NL	NL	NL			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
Trichloroethene	58,000	5,000	60	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	27		4.8	U	180		5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
Vinyl chloride	460	280	10	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	4.8	U	96	U	5	U	96	U	5.1	U	4.9	U	4.5	U	5.1	U	4.8	U	4.8	U
Xylenes (total)	160,000,000	320,000	150,000	**			4.8	U	5.1	U	5.1	U	4.4	U	5	U	5	U	4.6	U	4.8	U	3.6	Ja	72	U	5	U	72	U	3.7	Ja	4.9	U	4.5	U	5.1	U	3.3	Ja	3.8	Ja
DRO/JP-4							4,300	U	4,300	U	4,300	U	4,300	U	4,400	U	4,300	U	4,300	U	4,700	U	4,400	U	5,100	U	4,400	U	4,500	U	4,400	U	4,400	U	4,300		4,300	U	4,200	U	4,200	U

See Endnotes for analytical qualifier explanation.

TABLE 1.2
SOIL ANALYTICAL RESULTS - HS PLANT #1 AND OFFSITE PROPERTIES-
VOCs and DRO/JP-4
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS
S9 - S15 and SMW SAMPLES

Analyte	ROD - Preliminary Remediation Goals and/or Section 742.Table A: Tier 1 Soil Remediation Objectives for Residential Properties: Soil Ingestion (ug/kg)	Soil Inhalation (ug/kg)	Soil Component of Groundwater Class 1 (ug/kg)	ADL (ug/kg)	Location / Depth / Sample Date / Units: RES	Q	SB-SMW-2 9-11' 10/21/2003 ug/kg		SB-SMW-2 27-29' 10/21/2003 ug/kg		SB-SMW-4 5-7' 10/23/2003 ug/kg		SB-SMW-4 27-29' 10/23/2003 ug/kg		SB-SMW-5 5-7' 10/23/2003 ug/kg		SB-SMW-5 27-29' 10/23/2003 ug/kg		SB-SMW-6 12-14' 3/8/2004 ug/kg		SB-SMW-6 25-27' 3/8/2004 ug/kg		SB-SMW-7 10-12' 3/9/2004 ug/kg		SB-SMW-7 24-25' 3/9/2004 ug/kg		SB-SMW-8 9-11' 10/25/2003 ug/kg		SB-SMW-8 29-31' 10/25/2003 ug/kg		SB-SMW-10 5-7' 3/4/2004 ug/kg		SB-SMW-10 10-12' 3/4/2004 ug/kg		SB-SMW-10 24-25' 3/4/2004 ug/kg		SB-SMW-12 2-3' 11/5/2003 ug/kg		SB-SMW-12 27-28' 11/5/2003 ug/kg	
1,1,1-Trichloroethane	NL	1,200,000	2,000	**			5	U	4.6	U	4.3	U	5.1	U	9.7		5	U	5	U	5.2	U*	5	U*	4.9	U*	5.2	U	2.7	Ja	4.3	Ja	4.5	U	5.4	U	7.5	U	5.1	U
1,1,2,2-Tetrachloroethane	NL	NL	NL	NL			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
1,1,2-Trichloroethane	310,000	1,800,000	20	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
1,1-Dichloroethane	7,800,000	1,300,000	23,000	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U*	5	U*	4.9	U*	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
1,1-Dichloroethene	700,000	1,500,000	60	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
1,2-Dichloroethane	7,000	400	20	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
1,2-Dichloroethene (total)	NL	NL	NL	NL			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	5.1		4.5	U	5.4	U	7.5	U	5.1	U
1,2-Dichloropropane	9,000	15,000	30	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
2-Butanone (MEK)	NL	NL	NL	NL			5	U	4.6	U	5		5.6		3.9	Ua	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.6	Ja	4.5	U	5.4	U	7.5	U	6.7	
2-Hexanone	NL	NL	NL	NL			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	2.4	Ja	5.4	U	7.5	U	5.1	U
4-Methyl-2-pentanone (MIBK)	NL	NL	NL	NL			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Acetone	7,800,000	100,000,000	16,000	**			17	B	14	B	43	B	29	B	21	B	10	B	18	M	5.2	U	5	U	4.9	U	16		16		54		19	M	12		18		28	
Benzene	12,000	800	30	**			3	Ja	2.4	Ja	4.3	U	5.1	U	3.9	U	2.8	Ja	2.7	Ja	5.2	U	5	U	4.9	U	2.7	Ja	2.5	Ja	4.7	U	3.5	Ja	3	Ja	7.5	U	5.1	U
Bromodichloromethane	10,000	3,000,000	600	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Bromoform	81,000	53,000	800	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U*
Bromomethane	110,000	10,000	200	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U*
Carbon disulfide	7,800,000	720,000	32,000	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U*	5	U*	4.9	U*	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Carbon tetrachloride	5,000	300	70	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U*	5	U*	4.9	U*	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Chlorobenzene	1,600,000	130,000	1,000	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Chloroethane	NL	NL	NL	NL			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Chloroform	100,000	300	600	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U*	5	U*	4.9	U*	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Chloromethane	NL	NL	NL	NL			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
cis-1,3-Dichloropropene	NL	NL	NL	NL			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Ethylbenzene	7,800,000	400,000	13,000	**			2.7	Ja	2.7	Ja	4.3	U	5.1	U	3.9	U	2.9	Ja	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	2.4	Ja	2.8	Ja	7.5	U	5.1	U
Methylene chloride	85,000	13,000	20	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5		4.1	Ja	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Styrene	16,000,000	1,500,000	4,000	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Tetrachloroethene	12,000	11,000	60	**			5	U	4.6	U	4.3	U	5.1	U	110		5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	6.3		4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Toluene	16,000,000	650,000	12,000	**			7.2		6.6		4.3	U	5.2		3.9	U	7.5		7.5		5.2	U	5	U	4.9	U	7.1		6.2		4.7	U	7.7		7.9		7.5	U	7.8	
trans-1,3-Dichloropropene	NL	NL	NL	NL			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Trichloroethene	58,000	5,000	60	**			5	U	4.6	U	4.3	U	5.1	U	9.4		5	U	5	U	3.1	Ja	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Vinyl chloride	460	280	10	**			5	U	4.6	U	4.3	U	5.1	U	3.9	U	5	U	5	U	5.2	U	5	U	4.9	U	5.2	U	5	U	4.7	U	4.5	U	5.4	U	7.5	U	5.1	U
Xylenes (total)	160,000,000	320,000	150,000	**			3.6	Ja	3.4	Ja	4.3	U	5.1	U	3.9	U	3.6	Ja	3.7	Ja	5.2	U	5	U	4.9	U	3.4	Ja	3.2	Ja	4.7	U	3.6	Ja	4.1	Ja	7.5	U	5.1	U
DRO/JP-4							4,300	U*	4,200	U	4,600	U	4,200	U	4,500	U	4,300	U	4,400	U	4,300	U	4,300	U	4,300	U	4,300	U	4,300	U	8,200		6,800		4,200	U	39,000		4,200	U

See Endnotes for analytical qualifier explanation.

TABLE 1.2
SOIL ANALYTICAL RESULTS - HS PLANT #1 AND OFFSITE PROPERTIES-
VOCs and DRO/JP-4
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS
S9 - S15 and SMW SAMPLES

Analyte	ROD - Preliminary Remediation Goals and/or Section 742.Table A: Tier 1 Soil Remediation Objectives for Residential Properties: Soil Ingestion (ug/kg)	Soil Inhalation (ug/kg)	Soil Component of Groundwater Class 1 (ug/kg)	ADL (ug/kg)	Units RES	Q	Location	Depth	Sample Date	SB-SMW-14		SB-SMW-14		SB-SMW-15		SB-SMW-15		SB-SMW16		SB-SMW16		SBD-SMW16		SB-SMW-16A		SB-SMW-16A		SB-SMW-17		SB-SMW-17		SB-SMW-18		SB-SMW-18		SB-SMW-18		SB-SMW-19		SB-SMW-19	
										6-7'		27-28'		3-5'		29-31'		2-4'		22-24'		22-24'		16-18'		24-26'		14-16'		26-28'		1-2'		12-14'		24-25'		8-10'		28-30'	
										11/5/2003		11/5/2003		10/24/2003		10/24/2003		3/3/2004		3/3/2004		3/3/2004		3/22/2004		3/22/2004		3/22/2004		3/22/2004		3/3/2004		3/3/2004		3/3/2004		11/3/2004		11/3/2004	
										ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
1,1,1-Trichloroethane	NL	1,200,000	2,000	**						4.6	U	4.9	U	6.8	M	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	160		2.4	Ja	5.5	U	6.4	U	4.9	U
1,1,2,2-Tetrachloroethane	NL	NL	NL	NL						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
1,1,2-Trichloroethane	310,000	1,800,000	20	**						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
1,1-Dichloroethane	7,800,000	1,300,000	23,000	**						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	13		4.4	U	5.5	U	6.4	U	4.9	U
1,1-Dichloroethene	700,000	1,500,000	60	**						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
1,2-Dichloroethane	7,000	400	20	**						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
1,2-Dichloroethene (total)	NL	NL	NL	NL						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
1,2-Dichloropropane	9,000	15,000	30	**						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
2-Butanone (MEK)	NL	NL	NL	NL						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
2-Hexanone	NL	NL	NL	NL						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
4-Methyl-2-pentanone (MIBK)	NL	NL	NL	NL						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
Acetone	7,800,000	100,000,000	16,000	**						52		20		24	B	14	B	180	U	5.5	U	6.1		4.3	U	5	U	220	U	4.4	U	27	M	6.2		5.5	U	19		20	
Benzene	12,000	800	30	**						4.6	U	4.9	U	4.9	U	2.6	Ja	23	U	5.5	U	2.7	Ja	4.3	U	5	U	27	U	4.4	U	8.5	U	5.3		5.5	U	6.4	U	4.9	U
Bromodichloromethane	10,000	3,000,000	600	**						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
Bromoform	81,000	53,000	800	**						4.6	U*	4.9	U*	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
Bromomethane	110,000	10,000	200	**						4.6	U*	4.9	U*	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
Carbon disulfide	7,800,000	720,000	32,000	**						4.6	U	4.9	U	5.2		4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	5.5	Ja	4.4	U	5.5	U	6.4	U	4.9	U
Carbon tetrachloride	5,000	300	70	**						4.6	U	4.9	U	4.9	U	4.8	UM	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
Chlorobenzene	1,600,000	130,000	1,000	**						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
Chloroethane	NL	NL	NL	NL						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
Chloroform	100,000	300	600	**						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
Chloromethane	NL	NL	NL	NL						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
cis-1,3-Dichloropropene	NL	NL	NL	NL						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
Ethylbenzene	7,800,000	400,000	13,000	**						4.6	U	4.9	U	4.9	U	2.7	Ja	23	U	5.5	U	5.2	U	4.3	U	5	U	27	U	4.4	U	8.5	U	3.4	Ja	5.5	U	6.4	U	4.9	U
Methylene chloride	85,000	13,000	20	**						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	17		20	
Styrene	16,000,000	1,500,000	4,000	**						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
Tetrachloroethene	12,000	11,000	60	**						4.6	U	4.9	U	550,000		20		91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	10		4.4	U	5.5	U	6.4	U	4.9	U
Toluene	16,000,000	650,000	12,000	**						4.6	U	4.9	U	4.9	U	7.3	M	23	U	6		7.3		4.3	U	5	U	27	U	4.4	U	8.5	U	11		6.1		6.4	U	4.9	U
trans-1,3-Dichloropropene	NL	NL	NL	NL						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
Trichloroethene	58,000	5,000	60	**						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	11		4.4	U	5.5	U	7.7		4.9	U
Vinyl chloride	460	280	10	**						4.6	U	4.9	U	4.9	U	4.8	U	91	U	5.5	U	5.2	U	4.3	U	5	U	110	U	4.4	U	8.5	U	4.4	U	5.5	U	6.4	U	4.9	U
Xylenes (total)	160,000,000	320,000	150,000	**						4.6	U	4.9	U	4.9	U	3.6	Ja	68	U	5.5	Ua	5.2	Ua	4.3	U	5	U	81	U	4.4	U	8.5	U	4.5		5.5	Ua	6.4	U	4.9	U
DRO/JP-4										4,600	U	4,500	U	4,800	U	4,100	U	4,900	U	4,300	U	4,300	U	4,400	U	4,200	U	4,800	U	4,400	U	5,000	U	4,400		4,300	U	22,000	U	4,200	U

See Endnotes for analytical qualifier explanation.

TABLE 1.2
SOIL ANALYTICAL RESULTS - HS PLANT #1 AND OFFSITE PROPERTIES-
VOCs and DRO/JP-4
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS
S9 - S15 and SMW SAMPLES

	ROD - Preliminary Remediation Goals and/or Section 742.Table A: Tier 1 Soil Remediation Objectives for Residential Properties				Location		SB-SMW-20		SB-SMW-20		SB-SMW-21		SB-SMW-21		SB-SMW-22		SB-SMW-22	
					Depth		8-10'		26-28'		10-12'		26-28'		8-10'		26-28'	
					Sample Date		11/2/2004		11/2/2004		11/2/2004		11/2/2004		11/2/2004		11/2/2004	
	Soil Ingestion	Soil Inhalation	Soil Component of Groundwater Class 1	ADL	Units		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	RES	Q												
1,1,1-Trichloroethane	NL	1,200,000	2,000	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
1,1,2,2-Tetrachloroethane	NL	NL	NL	NL			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
1,1,2-Trichloroethane	310,000	1,800,000	20	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
1,1-Dichloroethane	7,800,000	1,300,000	23,000	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
1,1-Dichloroethene	700,000	1,500,000	60	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
1,2-Dichloroethane	7,000	400	20	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
1,2-Dichloroethene (total)	NL	NL	NL	NL			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
1,2-Dichloropropane	9,000	15,000	30	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
2-Butanone (MEK)	NL	NL	NL	NL			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
2-Hexanone	NL	NL	NL	NL			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
4-Methyl-2-pentanone (MIBK)	NL	NL	NL	NL			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Acetone	7,800,000	100,000,000	16,000	**			***22***		***10***		***31***		***21***		***17***		***9.3***	
Benzene	12,000	800	30	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Bromodichloromethane	10,000	3,000,000	600	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Bromoform	81,000	53,000	800	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Bromomethane	110,000	10,000	200	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Carbon disulfide	7,800,000	720,000	32,000	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Carbon tetrachloride	5,000	300	70	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Chlorobenzene	1,600,000	130,000	1,000	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Chloroethane	NL	NL	NL	NL			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Chloroform	100,000	300	600	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Chloromethane	NL	NL	NL	NL			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
cis-1,3-Dichloropropene	NL	NL	NL	NL			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Ethylbenzene	7,800,000	400,000	13,000	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Methylene chloride	85,000	13,000	20	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Styrene	16,000,000	1,500,000	4,000	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Tetrachloroethene	12,000	11,000	60	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Toluene	16,000,000	650,000	12,000	**			4.5	U	***6.2***		3.9	U	5.1	U	***5.1***	***H***	***5***	
trans-1,3-Dichloropropene	NL	NL	NL	NL			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Trichloroethene	58,000	5,000	60	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Vinyl chloride	460	280	10	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
Xylenes (total)	160,000,000	320,000	150,000	**			4.5	U	4.8	U	3.9	U	5.1	U	3.8	U	4.4	U
DRO/JP-4							4,300	U	4,100	U*	4,400	U*	4,400	U	4,200	U*	4,300	U

See Endnotes for analytical qualifier explanation.

TABLE 1.2
SOIL ANALYTICAL RESULTS - HS PLANT #1 AND OFFSITE PROPERTIES-
VOCs and DRO/JP-4
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS

ENDNOTES

Analytical Table Notes:

Sample Collection Method
SB - Soil Boring
GW - Groundwater

General Abbreviations and Symbols
NL - Not Listed
Res - Result or Reporting Limit
RO - Remediation Objective
Q - Qualifier
** - Less than or equal to specified RO

Data Presentation

0.005	U	Not detected at specified Reporting Limit
0.005	**U**	(Bold) Detection limit above lowest specified RO
0.005		(Bold, Italic) Indicates compound detected but below lowest specified RO
0.005		(Bold, Italic, Shaded) Indicates compound detected above lowest specified RO
		(Blank) Indicates no analytical data for compound

Analytical Data Qualifiers
B - (Metals) Results less than reporting limit but greater than or equal to Method Detection Limit
E - Result exceeds calibration range, secondary dilution required
U - Not Detected
J - Estimated value below the Reporting Limit
a - Concentration is below the Method Reporting Limit
* - Batch QC exceeded the upper or lower control limits
H - Result based on an alternative peak selection upon analytical review
M - Manually Integrated Compound
- Concentration above Background Level but below lowest RO

TABLE 2.1
Historical Groundwater Analytical Results - VOCs, DRO/JP-4

Area 9/10
Southeast Rockford Groundwater Contamination Superfund Site
Rockford, Illinois

Analyte	ROD - Preliminary Remediation Goals and/or Class 1- Groundwater Remediation Objectives for TACO Chemicals (ug/L)	Location Sample Date	Units		GW-SMW-1 4/26/2004 ug/L		GW-SMW-1 11/16/2004 ug/L		GW-SMW-2 4/26/2004 ug/L		GW-SMW-2 11/16/2004 ug/L		GW-SMW-3 4/26/2004 ug/L		GW-SMW-3 11/16/2004 ug/L		GW-SMW-4 4/26/2004 ug/L		GW-SMW-4 11/16/2004 ug/L		GW-SMW-5 4/26/2004 ug/L		GW-SMW-5 11/16/2004 ug/L		GW-SMW-6 4/27/2004 ug/L		GW-SMW-6 11/17/2004 ug/L		GW-SMW-7 4/27/2004 ug/L		GW-SMW-7 11/16/2004 ug/L		GW-SMW-8 4/26/2004 ug/L		GW-SMW-8 11/16/2004 ug/L		GW-SMW-9 4/27/2004 ug/L	
1,1,1-Trichloroethane	200				6.1		7.7		1	U	1	U	1	U	1	U	12		11		15		13		1,100		640		10,000		9,900		6.3		320		52	
1,1,2,2-Tetrachloroethane	NL				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
1,1,2-Trichloroethane	5				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	14	Ja	1	U	1	U	1	U
1,1-Dichloroethane	700				1	U	1	U	1	U	1	U	1	U	0.8	Ja	6.7		3.5		11		7.6		16,000		22,000		340		220		1.9		63		69	
1,1-Dichloroethene	7				1	U	1	U	1	U	1	U	1	U	1	U	1	U	0.7	Ja	2.2		2.7		470		550		310		230		1	U	2.5		3.8	
1,2-Dichloroethane	5				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
1,2-Dichloroethene (total)	NL				1	U	1	U	4.4		1	U	1	U	1	U	21		20		38		26		16,000		23,000		1,700		1,400		38		88		55	
1,2-Dichloropropane	5				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
2-Butanone (MEK)	NL				5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	500	U	500	U	500	U	100	U	5	U	5	U	5	U
2-Hexanone	NL				5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	500	U	500	U	500	U	100	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	NL				5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	500	U	500	U	500	U	100	U	5	U	5	U	5	U
Acetone	700				5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	500	U	500	U	500	U	100	U	5	U	5	U	4.1	J
Benzene	5				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
Bromodichloromethane	0.2				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
Bromoform	1				1	U	1	U*	1	U	1	U*	1	U	1	U*	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U*	1	U
Bromomethane	9.8				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
Carbon disulfide	700				5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	500	U	500	U	500	U	100	U	5	U	5	U	5	U
Carbon tetrachloride	5				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U*	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
Chlorobenzene	100				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
Chloroethane	NL				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	0.98	J	3		100	U	300		100	U	20	U	1	U	1	U	1	U
Chloroform	0.2				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
Chloromethane	NL				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U*	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
cis-1,2-Dichloroethene	70																																							
cis-1,3-Dichloropropene	NL				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
Dibromochloromethane	140				1	U	1	U*	1	U	1	U*	1	U	1	U*	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U*	1	U
Ethylbenzene	700				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	58	Ja	170		150		1	U	1	U	1	U
Methylene chloride	5				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	2		1	U	1.1	
Styrene	100				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
Tetrachloroethene	5				2.4	H	3.6		1.3		0.71	Ja	1	U	0.98	Ja	71		77		34		14		100	U	100	U	69	J	88		12		260		3.3	
Toluene	1,000				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	310		290		100	U	11	Ja	1	U	1	U	1	U
trans-1,2-Dichloroethene	100																																							
trans-1,3-Dichloropropene	NL				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	100	U	100	U	100	U	20	U	1	U	1	U	1	U
Trichloroethene	5				1	U	1	U	1	U	1	U	1	U	1	U	6		4.3		30		16		100	U	100	U	53	JM	32		6.8		32		2.4	
Vinyl chloride	2				1	U	1	U	1	U	1	U	1	U	1	U	1	U	7.4		31		14		1,800		2,100		46	Ja	14	Ja	1	U	1		1	U
Xylenes (total)	10,000				1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	250		390		1,000		920		1	U	1	U	1	U
TPH - Jet Fuel (JP4)					120	U	120	U	120	U	120	U	130	Ua	120	U	130	U	130	U	120	Ua	140	U	880		1600		1100		1700		120	U	120	U	130	U

See separate analytical notes page for table explanation.

TABLE 2.1
Historical Groundwater Analytical Results - VOCs, DRO/JP-4

Area 9/10
Southeast Rockford Groundwater Contamination Superfund Site
Rockford, Illinois

Analyte	ROD - Preliminary Remediation Goals and/or Class 1- Groundwater Remediation Objectives for TACO Chemicals (ug/L)	Location Sample Date Units RES	Q	GW-SMW-9 11/17/2004 ug/L		GW-SMW-10 4/27/2004 ug/L		GW-SMW-10 11/17/2004 ug/L		GW-SMW-11R 4/26/2004 ug/L		GW-SMW-11R 11/16/2004 ug/L		GW-SMW-12 4/26/2004 ug/L		GWD-SMW-12 11/16/2004 ug/L		GW-SMW-13 4/26/2004 ug/L		GW-SMW-13 11/17/2004 ug/L		GW-SMW-14 4/26/2004 ug/L		GW-SMW-14 11/17/2004 ug/L		GW-SMW-15 4/26/2004 ug/L		GW-SMW-15 11/17/2004 ug/L		GW-SMW-16A 4/27/2004 ug/L		GW-SMW-16A 11/16/2004 ug/L	
1,1,1-Trichloroethane	200			24		19		16		1.4		5.1		8		10		1.7		3.2		9.1		10		69		92		14		12	
1,1,2,2-Tetrachloroethane	NL			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	5			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	700			6.7		5.9		4.8		2.1		1.3		3.5		4.3		1	U	1	U	2.7		2.3		15		18		1	U	1	U
1,1-Dichloroethene	7			3.5		2.5		2.2		1	U	1	U	0.95	J	1		1	U	1	U	1.6		1.3		1.3		1.4		1	U	1	U
1,2-Dichloroethane	5			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethene (total)	NL			2.9		1.6	a	1.3	a	2.1		1.2	a	2.8		3.8		1	U	1	U	1.6	a	1.1	a	1.3	a	2.1		1	U	1	U
1,2-Dichloropropane	5			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Butanone (MEK)	NL			5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	NL			5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	NL			5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Acetone	700			5	U	5	U	5	U	2.1	J	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Benzene	5			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	0.2			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromoform	1			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U*	1	U	1	U*	1	U	1	U*	1	U	1	U*
Bromomethane	9.8			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	700			5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	5			1	U	1	U	1	U	1	U*	1	U	1	U	1	U	1		1.9		1	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	100			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chloroethane	NL			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chloroform	0.2			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	0.7	Ja	1	U	1	U	1	U	1	U	1	U	1	U
Chloromethane	NL			1	U	1	U	1	U	1	U*	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
cis-1,2-Dichloroethene	70																																
cis-1,3-Dichloropropene	NL			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	140			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U*	1	U	1	U*	1	U	1	U	1	U	1	U*
Ethylbenzene	700			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	5			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Styrene	100			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5			7.6		5.9		4.7		1.3		1.6		4.6		8.3		15		24		5.8		7.5		53		56		4.5		4.2	
Toluene	1,000			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	100																																
trans-1,3-Dichloropropene	NL			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethene	5			3.7		3.4		2.6		1.8		1.1		2.9		3.4		14		20		4.2		3.1		7.4		5.3		1	U	0.64	Ja
Vinyl chloride	2			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	0.81	Ja	1	U	1	U
Xylenes (total)	10,000			1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
TPH - Jet Fuel (JP4)				120	U	130	U	120	U	120	U	120	U	120	U	120	U	120	U	130	U	120	U	130	U	120	Ua	120	Ua	130	U	120	U

See separate analytical notes page for table explanation.

TABLE 2.1
Historical Groundwater Analytical Results - VOCs, DRO/JP-4

Area 9/10
Southeast Rockford Groundwater Contamination Superfund Site
Rockford, Illinois

Analyte	ROD - Preliminary Remediation Goals and/or Class 1- Groundwater Remediation Objectives for TACO Chemicals (ug/L)	Location Sample Date Units RES	Q	GW-SMW-17 4/27/2004 ug/L		GW-SMW-17 11/16/2004 ug/L		GW-SMW-18 4/27/2004 ug/L		GW-SMW-18 11/16/2004 ug/L		GW-SMW-19 11/17/2004 ug/L		GW-SMW-20 11/16/2004 ug/L		GW-SMW-21 11/16/2004 ug/L		GW-SMW-22 11/16/2004 ug/L		GW-MW-3FGA 4/26/2004 ug/L		GW-MW-3FGA 11/17/2004 ug/L		GW-MW-7FGA 4/26/2004 ug/L		GW-MW-7FGA 11/16/2004 ug/L		GW-MW127 10/11/1993 ug/L		GW-MW127 4/27/2004 ug/L		GW-MW127 11/16/2004 ug/L		GW-MW201^ 7/19/1996 ug/L		GW-MW201 2/16/2000 ug/L	
1,1,1-Trichloroethane	200			1	U	1	U	1	U	5	U	1	U	6,900		34,000		110		1	U	1	U	1	U	1.8				5	U	1	U	12,000		4.5	J
1,1,2,2-Tetrachloroethane	NL			1	U	1	U	1	U	5	U	1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
1,1,2-Trichloroethane	5			1	U	1	U	1	U	5	U	1	U	200	U	200	U	11		1	U	1	U	1	U	1	U			5	U	1	U				
1,1-Dichloroethane	700			5.3		3.6		15		25		1	U	30,000		770		340		1	U	1	U	1	U	1	U	15.0		55		9.2		690.0		48.0	
1,1-Dichloroethene	7			1	U	1	U	3.8		9.4		1	U	750		1,700		8.7		1	U	1	U	1	U	1	U			5	U	1	U	850.0		1.1	J
1,2-Dichloroethane	5			1	U	1	U	1	U	5	U	1	U	200	U	200	U	6.1		1	U	1	U	1	U	1	U			5	U	7.7					
1,2-Dichloroethene (total)	NL			1	U	1	U	9.7		49		8.7		28,000		1,800		250		1	U	1	U	1	U	1	U			5	U	1	U				
1,2-Dichloropropane	5			1	U	1	U	1	U	5	U	1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
2-Butanone (MEK)	NL			5	U	5	U	5	U	25	U	5	U	1,000	U	1,000	U	5	U	5	U	5	U	5	U	5	U			25	U	5	U				
2-Hexanone	NL			5	U	5	U	5	U	25	U	5	U	1,000	U	1,000	U	5	U	5	U	5	U	5	U	5	U			25	U	5	U				
4-Methyl-2-pentanone (MIBK)	NL			5	U	5	U	5	U	25	U	5	U	1,000	U	1,000	U	5	U	5	U	5	U	5	U	5	U			25	U	5	U				
Acetone	700			5	U	5	U	9.8		25	U	5	U	1,000	U	1,000	U	5	U	5	U	5	U	5	U	5	U			25	U	5	U				
Benzene	5			11		8.4		310		220		1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U	92.0		98		30					
Bromodichloromethane	0.2			1	U	1	U	1	U	5	U	1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
Bromoform	1			1	U	1	U	1	U	5	U	1	U*	200	U	200	U	1	U	1	U	1	U*	1	U	1	U			5	U	1	U*				
Bromomethane	9.8			1	U	1	U	1	U	5	U	1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
Carbon disulfide	700			5	U	5	U	5	U	25	U	5	U	1,000	U	1,000	U	5	U	5	U	5	U	5	U	5	U			25	U	5	U				
Carbon tetrachloride	5			1	U	1	U	1	U	5	U	1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
Chlorobenzene	100			1	U	1	U	1	U	5	U	1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
Chloroethane	NL			1	U	1	U	180		190		1	U	590		200	U	4		1	U	1	U	1	U	1	U	59.0		1,500		900					
Chloroform	0.2			1	U	1	U	1	U	5	U	1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
Chloromethane	NL			1	U	1	U	1	U	5	U	1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
cis-1,2-Dichloroethene	70																																	4,500		85.0	
cis-1,3-Dichloropropene	NL			1	U	1	U	1	U	5	U	1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
Dibromochloromethane	140			1	U	1	U	1	U	5	U	1	U*	200	U	200	U	1	U	1	U	1	U*	1	U	1	U			5	U	1	U*				
Ethylbenzene	700			1	U	1	U	250		290		1	U	200	U	150	Ja	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
Methylene chloride	5			1	U	1	U	1.5		5	U	1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
Styrene	100			1	U	1	U	1	U	5	U	1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
Tetrachloroethene	5			1	U	1	U	1	U	5	U	2.2		200	U	200	U	290		1.9		1.7		1	U	3.3				9.4		1	U	68.0	J		
Toluene	1,000			1	U	1	U	450		160		1	U	530		200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U	94.0	J		
trans-1,2-Dichloroethene	100																																				
trans-1,3-Dichloropropene	NL			1	U	1	U	1	U	5	U	1	U	200	U	200	U	1	U	1	U	1	U	1	U	1	U			5	U	1	U				
Trichloroethene	5			1.1		1	U	1	U	5	U	57		200	U	200	Ja	120		6.7		3.9		1	U	2.5				5	U	1	U			8.3	
Vinyl chloride	2			1	U	1	U	2.7		5	U	1	U	3,500		200	U	3.2		1	U	1	U	1	U	1	U			5	U	1	U				
Xylenes (total)	10,000			0.88	Ja	1	U	880		750		1	U	750		2,100		6.9		1	U	1	U	1	U	1	U			5	U	2.1		76.0	J		
TPH - Jet Fuel (JP4)				130	Ua	120	Ua	7200		3600		160	U	2600		1300		120	Ua	140	U	160	U	170		1200	U			120	Ua	120	U				

See separate analytical notes page for table explanation.

TABLE 2.1
Historical Groundwater Analytical Results - VOCs, DRO/JP-4

Area 9/10
Southeast Rockford Groundwater Contamination Superfund Site
Rockford, Illinois

Analyte	ROD - Preliminary Remediation Goals and/or Class 1- Groundwater Remediation Objectives for TACO Chemicals (ug/L)	Location Sample Date Units RES	Q	GW-MW201 4/18/2000 ug/L		GW-MW201 7/25/2000 ug/L		GW-MW201 11/16/2000 ug/L		GW-MW201 4/13/2001 ug/L		GW-MW201 10/1/2001 ug/L		GW-MW201 10/1/2002 ug/L		GW-MW201 12/1/2003 ug/L		GW-MW201 4/27/2004 ug/L		GW-MW201 11/18/2004 ug/L		GW-MW202 7/1/1996 ug/L		GW-MW202 6/1/1999 ug/L		GW-MW202 10/27/1999 ug/L		GW-MW202 2/16/2000 ug/L		GW-MW202 4/18/2000 ug/L		GW-MW202 7/25/2000 ug/L		GW-MW202 11/16/2000 ug/L		GW-MW202 4/13/2001 ug/L		GW-MW202 10/1/2001 ug/L		GW-MW202 10/1/2002 ug/L	
1,1,1-Trichloroethane	200			4.9	J	110.0		39.0		12.0		55.0		970.0				86		47		5.0	J	2.0		2.2		0.77	J	0.65	J	0.72	J	0.11	J	0.078	J	0.063	J		
1,1,2,2-Tetrachloroethane	NL																	50	U	10	U																				
1,1,2-Trichloroethane	5																	50	U	10	U																				
1,1-Dichloroethane	700			120.0		330.0		340.0		43.0		150.0		7,100		6,480		8,000		1,700																					
1,1-Dichloroethene	7			1.9	J	6.8	J	5.2	J	1.6	J	3.6	J	480.0	J			50	U	10	U					0.18	J														
1,2-Dichloroethane	5																	50	U	10	U																				
1,2-Dichloroethene (total)	NL																	51		30																					
1,2-Dichloropropane	5																	50	U	10	U																				
2-Butanone (MEK)	NL																	250	U	50	U																				
2-Hexanone	NL																	250	U	50	U																				
4-Methyl-2-pentanone (MIBK)	NL																	250	U	50	U																				
Acetone	700																	250	U	50	U																				
Benzene	5																	50	U	10	U																				
Bromodichloromethane	0.2																	50	U	10	U																				
Bromoform	1																	50	U	10	U																				
Bromomethane	9.8																	50	U	10	U																				
Carbon disulfide	700																	250	U	50	U																				
Carbon tetrachloride	5																	50	U	10	U																				
Chlorobenzene	100																	50	U	10	U																				
Chloroethane	NL																	50	U	30																					
Chloroform	0.2																	50	U	10	U									0.25	J	0.48	J								
Chloromethane	NL																	50	U	10	U																				
cis-1,2-Dichloroethene	70			87.0		220.0		180.0		60.0		120.0		2,200										0.81	J	0.68	J														
cis-1,3-Dichloropropene	NL																	50	U	10	U																				
Dibromochloromethane	140																	50	U	10	U																				
Ethylbenzene	700																	50	U	10	U																				
Methylene chloride	5																	50	U	10	U																			0.5	J
Styrene	100																	50	U	10	U																				
Tetrachloroethene	5																	50	U	10	U	12.0		4.6		5.0		3.6		3.1		3.5		14.0		13.0		12.0		12.0	
Toluene	1,000																	50	U	10	U																				
trans-1,2-Dichloroethene	100			0.78	J					0.64	J																														
trans-1,3-Dichloropropene	NL																	50	U	10	U																				
Trichloroethene	5			15.0		4.5	J	4.9	J	19.0		25.0						26	J	23				2.1		2.1		0.5	J	0.55	J	0.75	J	0.19	J	0.11	J				
Vinyl chloride	2																	44	J	8.1	Ja																				
Xylenes (total)	10,000																	50	U	10	U																				
TPH - Jet Fuel (JP4)																		150	Ua	130	U																				

See separate analytical notes page for table explanation.

TABLE 2.1
Historical Groundwater Analytical Results - VOCs, DRO/JP-4

Area 9/10
Southeast Rockford Groundwater Contamination Superfund Site
Rockford, Illinois

Analyte	ROD - Preliminary Remediation Goals and/or Class 1- Groundwater Remediation Objectives for TACO Chemicals (ug/L)	Location Sample Date / Units RES	Q	GW-MW202 12/1/2003 ug/L		GW-MW202 4/27/2004 ug/L		GW-MW202 11/18/2004 ug/L		GW-MW203 7/1/1996 ug/L		GW-MW203 6/1/1999 ug/L		GW-MW203 10/27/1999 ug/L		GW-MW203 2/15/2000 ug/L		GW-MW203 4/18/2000 ug/L		GW-MW203 7/25/2000 ug/L		GW-MW203 11/16/2000 ug/L		GW-MW203 4/13/2001 ug/L		GW-MW203 10/1/2001 ug/L		GW-MW203 10/1/2002 ug/L		GW-MW203 12/1/2003 ug/L		GW-MW203 4/27/2004 ug/L		GW-MW203 11/18/2004 ug/L	
1,1,1-Trichloroethane	200					0.37	Ja	1	U	2.0	J	0.92	J	2.7		0.26	J	0.14	J	0.2	J	0.66	J	0.81	J	0.76	J					1	U	1	U
1,1,2,2-Tetrachloroethane	NL					1	U	1	U																							1	U	1	U
1,1,2-Trichloroethane	5					1	U	1	U																							1	U	1	U
1,1-Dichloroethane	700					1	U	1	U					0.28	J											0.19	J					1	U	1.6	
1,1-Dichloroethene	7			0.542	J	1	U	1	U					0.42	J																	1	U	1	U
1,2-Dichloroethane	5					1	U	1	U																							1	U	1	U
1,2-Dichloroethene (total)	NL					1	U	1	U																							1	U	1	U
1,2-Dichloropropane	5					1	U	1	U																							1	U	1	U
2-Butanone (MEK)	NL					5	U	5	U																							5	U	5	U
2-Hexanone	NL					5	U	5	U																							5	U	5	U
4-Methyl-2-pentanone (MIBK)	NL					5	U	5	U																							5	U	5	U
Acetone	700					5	U	5	U																							5	U	5	U
Benzene	5					1	U	1	U																							1	U	1	U
Bromodichloromethane	0.2					1	U	1	U																							1	U	1	U
Bromoform	1					1	U	1	U																							1	U	1	U
Bromomethane	9.8					1	U	1	U																							1	U	1	U
Carbon disulfide	700					5	U	5	U																							5	U	5	U
Carbon tetrachloride	5					1	U	1	U																							1	U	1	U
Chlorobenzene	100					1	U	1	U																							1	U	1	U
Chloroethane	NL					1	U	1	U																							1	U	1	U
Chloroform	0.2					1	U	1	U													0.82	J	1.8		4.3		1.0				1	U	1	U
Chloromethane	NL					1	U	1	U																							1	U	1	U
cis-1,2-Dichloroethene	70											0.67	J	1.5		0.13	J	0.074	J																
cis-1,3-Dichloropropene	NL					1	U	1	U																							1	U	1	U
Dibromochloromethane	140					1	U	1	U																							1	U	1	U
Ethylbenzene	700					1	U	1	U																							1	U	1	U
Methylene chloride	5					1	U	1	U																							1	U	1	U
Styrene	100					1	U	1	U																							1	U	1	U
Tetrachloroethene	5			2.78		2		2.1		7.0	J	14.0		15.0		8.6		11.0		13.0		3.5		3.2		3.1		3.0		8.43		7.6		8.9	
Toluene	1,000					1	U	1	U																							1	U	1	U
trans-1,2-Dichloroethene	100																																		
trans-1,3-Dichloropropene	NL					1	U	1	U																							1	U	1	U
Trichloroethene	5			1.11		0.64	J	1	U			1.2		2.6		0.24	J	0.17	J	0.21	J	0.81	J	0.76	J	0.84	J	0.7	J			1	U	1	U
Vinyl chloride	2					1	U	1	U																							1	U	1	U
Xylenes (total)	10,000					1	U	1	U																							1	U	1	U
TPH - Jet Fuel (JP4)						140	U	130	U																							130	U	120	U

See separate analytical notes page for table explanation.

TABLE 2.1
Historical Groundwater Analytical Results - VOCs, DRO/JP-4

Area 9/10
Southeast Rockford Groundwater Contamination Superfund Site
Rockford, Illinois

Analytical Table Notes:

General Abbreviations and Symbols
NL - Not Listed
MSA - Metropolitan Statistical Area
Res - Result or Reporting Limit
RO - Remediation Objective
Q - Qualifier
** - Less than or equal to specified RO

Data Presentation

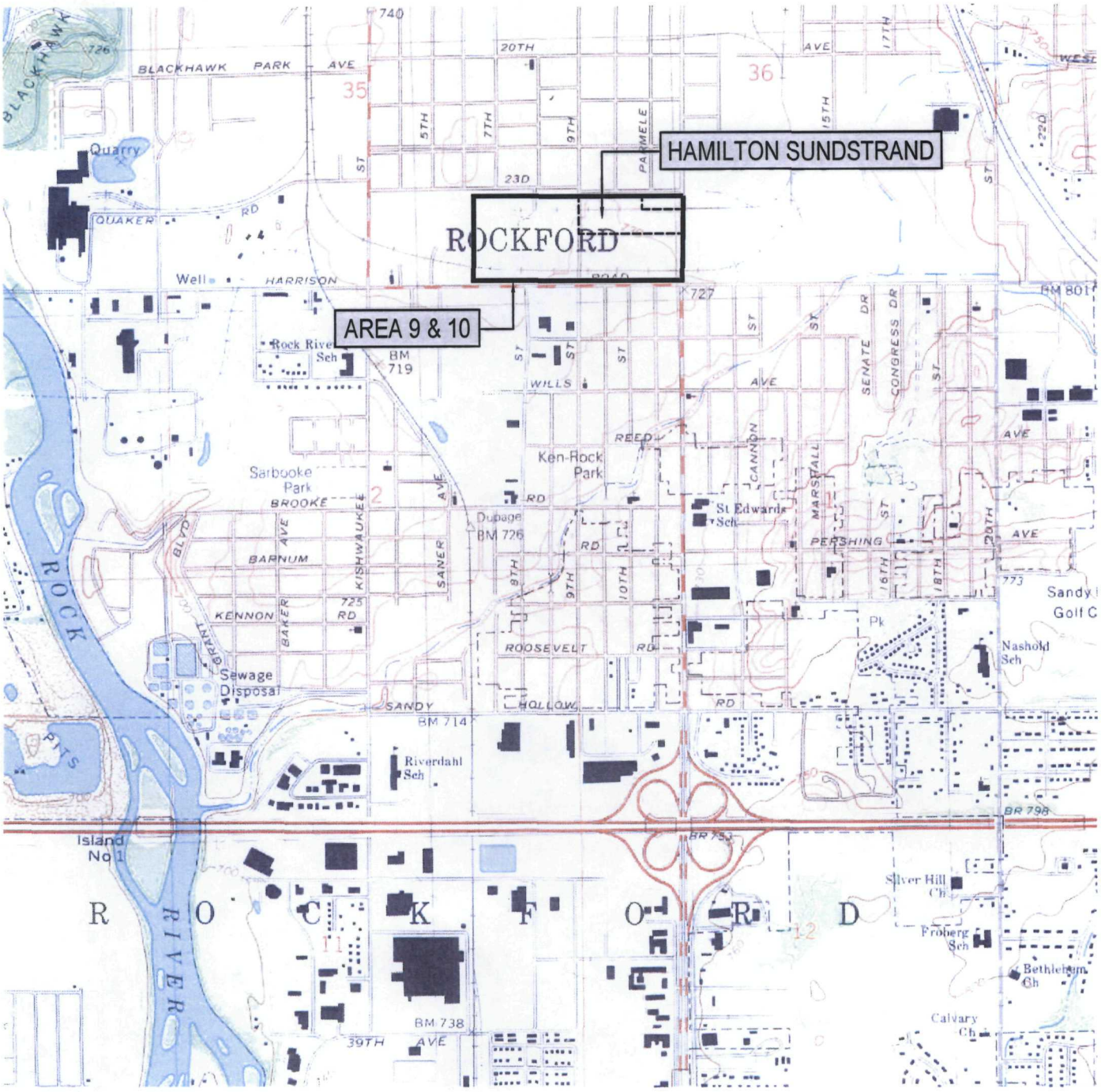
0.005	U	Not detected at specified Reporting Limit
0.005	**U**	(Bold) Detection limit above lowest specified RO
0.005		(Bold, Italic) Indicates compound detected but below lowest specified RO
0.005		(Bold, Italic, Shaded) Indicates compound detected above lowest specified RO
		(Blank) Indicates no analytical data for compound

Analytical Data Qualifiers
B - (Metals) Results less than reporting limit but greater than or equal to Method Detection Limit
E - Result exceeds calibration range, secondary dilution required
U - Not Detected
J - Estimated value below the Reporting Limit
a - Concentration is below the Method Reporting Limit
* - Batch QC exceeded the upper or lower control limits
H - Result based on an alternative peak selection upon analytical review
M - Manually Integrated Compound
- Concentration above Background Level but below lowest RO

Note: Pre-2004 historical groundwater analytical data shows only detected compounds

^ - MW-201 original well was lost and replaced

FIGURES



N

1 1/2 0 1

SCALE IN MILES

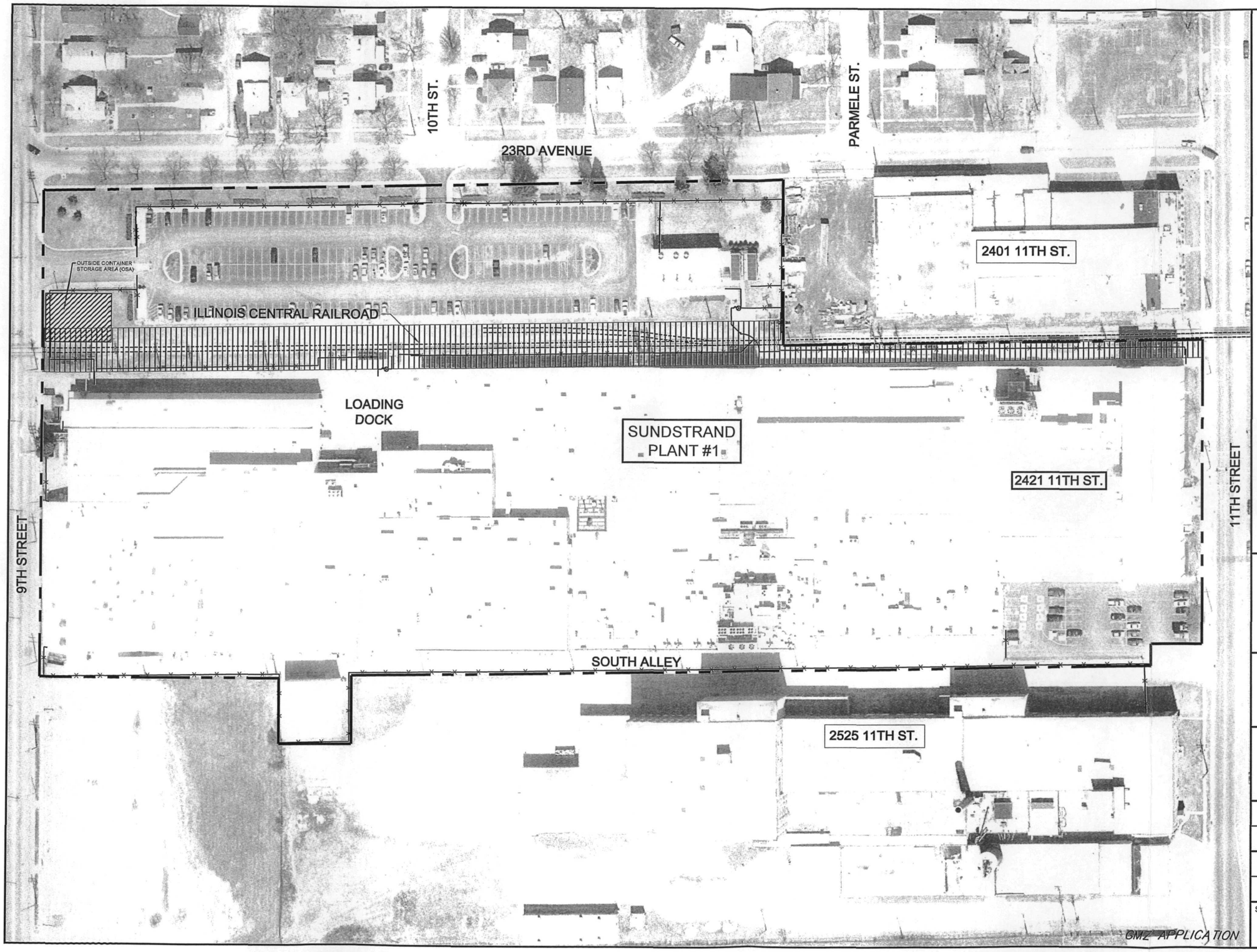
1000 0 1000 2000 3000 4000 5000 6000 7000

SCALE IN FEET

REFERENCE: USGS 7.5 MINUTE QUADRANGLE; ROCKFORD SOUTH

SECOR 446 EISENHOWER LANE NORTH LOMBARD, ILLINOIS 60148 PHONE: (630) 792-1680 FAX: (630) 792-1691	FOR: AREA 9/10 REMEDIAL DESIGN SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE ROCKFORD, ILLINOIS	AREA 9/10 AND SITE LOCATION MAP			FIGURE 1.1
	JOB NUMBER: 13UN.02072.07.0001	DRAWN BY: GH	CHECKED BY: JD	APPROVED BY: KTW	DATE: 4/5/08

FILEPATH:F:\Work\Autocad\Figures\UTC\061 figure 1 site location.dwg|jcastro|Mar 05, 2008 at 9:41|Layout: figure 1



N

LEGEND:

- PROPERTY BOUNDARY
- RAILROAD PROPERTY (LEASED)
- OUTSIDE CONTAINER STORAGE AREA (OSA) SOIL REMEDIATION AREA

NOTE:

HS LEASES LAND IDENTIFIED WITHIN THE PROPERTY BOUNDARY FROM ILLINOIS CENTRAL RAILROAD (OWNED BY CANADIAN NATIONAL RAILROAD) LEASE NO. 8565.

0 100 200

APPROXIMATE SCALE (FEET)

PREPARED BY:

SECOR
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS 60148
PHONE: (630) 792-1680/792-1691 (FAX)

FOR:

AREA 9/10 REMEDIAL DESIGN
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS

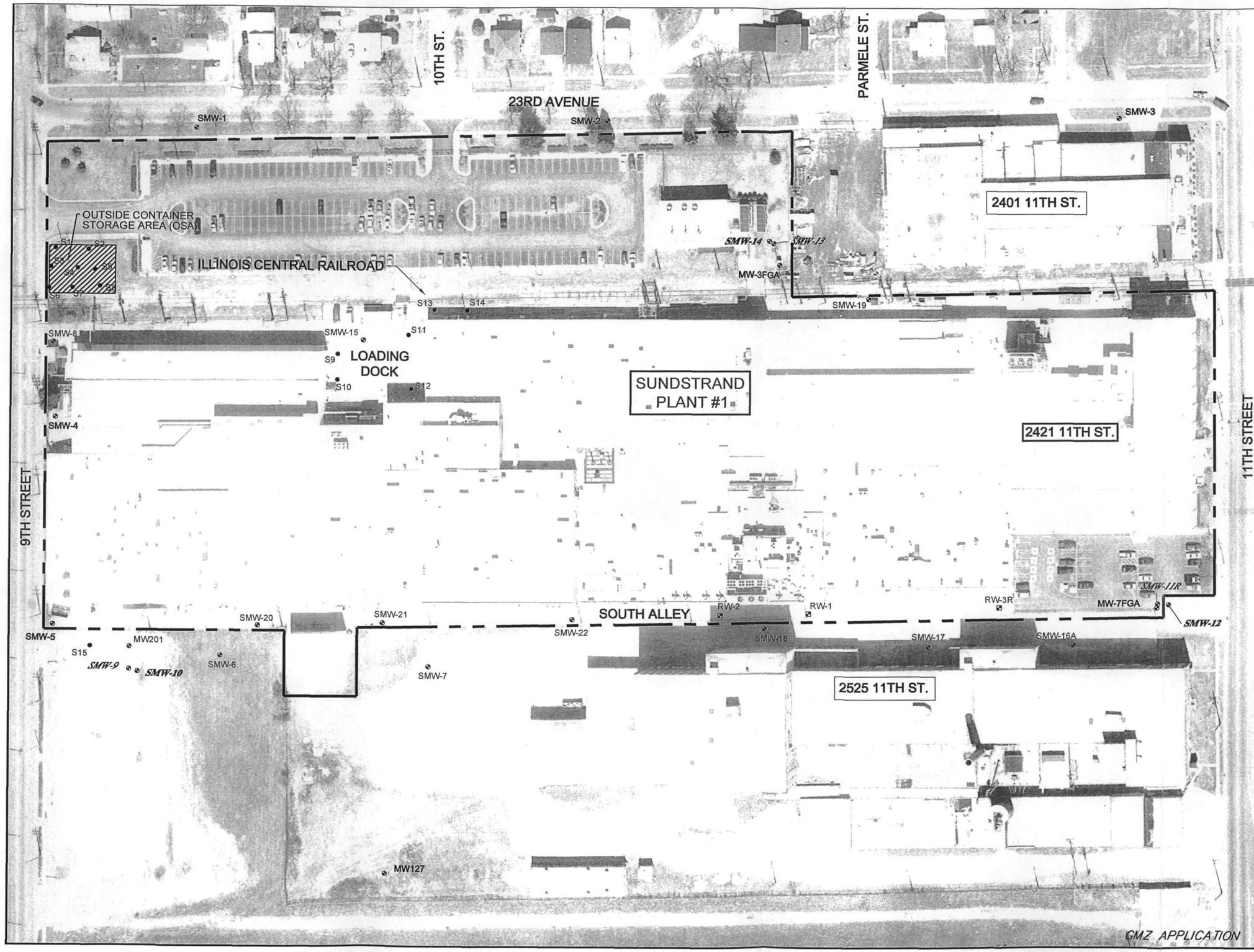
TITLE:

HS PROPERTY OWNERSHIP MAP

DRAWN BY: JC	DESIGNED BY: JTD
CHECKED BY: JTD	APPROVED BY: KTW
PROJECT NUMBER: 13UN.02072.08	SCALE: AS SHOWN
DATE: 3/5/08	FILE PATH: F:\WORK\AUTOCAD\FIGURES\UTC

SHEET: 1.2

02072F05.dwg



LEGEND:

- PROPERTY BOUNDARY
- MONITORING WELL
- RECOVERY WELL
- SOIL BORING
- OUTSIDE CONTAINER STORAGE AREA (OSA) SOIL REMEDIATION AREA

NOTE:

1) WATER TABLE SCREENS 30-45 FT BGS
2) MIDLEVEL WELL SCREENS 80-100 FT BGS *(SMW-9, SMW-11R, AND SMW-13)*
3) DEEP WELL SCREENS 120-140 FT BGS *(SMW-10, SMW-12, AND SMW-14)*
4) SCREEN INTERVAL DEPTHS ARE APPROXIMATE

0 100 200

APPROXIMATE SCALE (FEET)

PREPARED BY:

SECOR
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS 60148
PHONE: (630) 792-1680/792-1691 (FAX)

FOR:

AREA 9/10 REMEDIAL DESIGN
SOUTHEAST ROCKFORD GROUNDWATER
CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS

TITLE:

SOIL BORING AND MONITORING WELL LOCATIONS

DRAWN BY: JC	DESIGNED BY: JD
CHECKED BY: JD	APPROVED BY: KTW
PROJECT NUMBER: 13UN.02072.08	SCALE: AS SHOWN
DATE: 3/5/08	FILE PATH: F:\WORK\AUTOCAD\FIGURES\UTC

FIGURE: 1.3

02072F05.dwg

SDMS US EPA Region V

Imagery Insert Form

Some images in this document may be illegible or unavailable in SDMS.
Please see reason(s) indicated below:

Illegible due to bad source documents. Image(s) in SDMS is equivalent to hard copy.

Specify Type of Document(s) / Comments:

Includes ___ COLOR or RESOLUTION variations.
Unless otherwise noted, these pages are available in monochrome. The source document page(s) is more legible than the images. The original document is available for viewing at the Superfund Records Center.

Specify Type of Document(s) / Comments:

Confidential Business Information (CBI).
This document contains highly sensitive information. Due to confidentiality, materials with such information are not available in SDMS. You may contact the EPA Superfund Records Manager if you wish to view this document.

Specify Type of Document(s) / Comments:

x

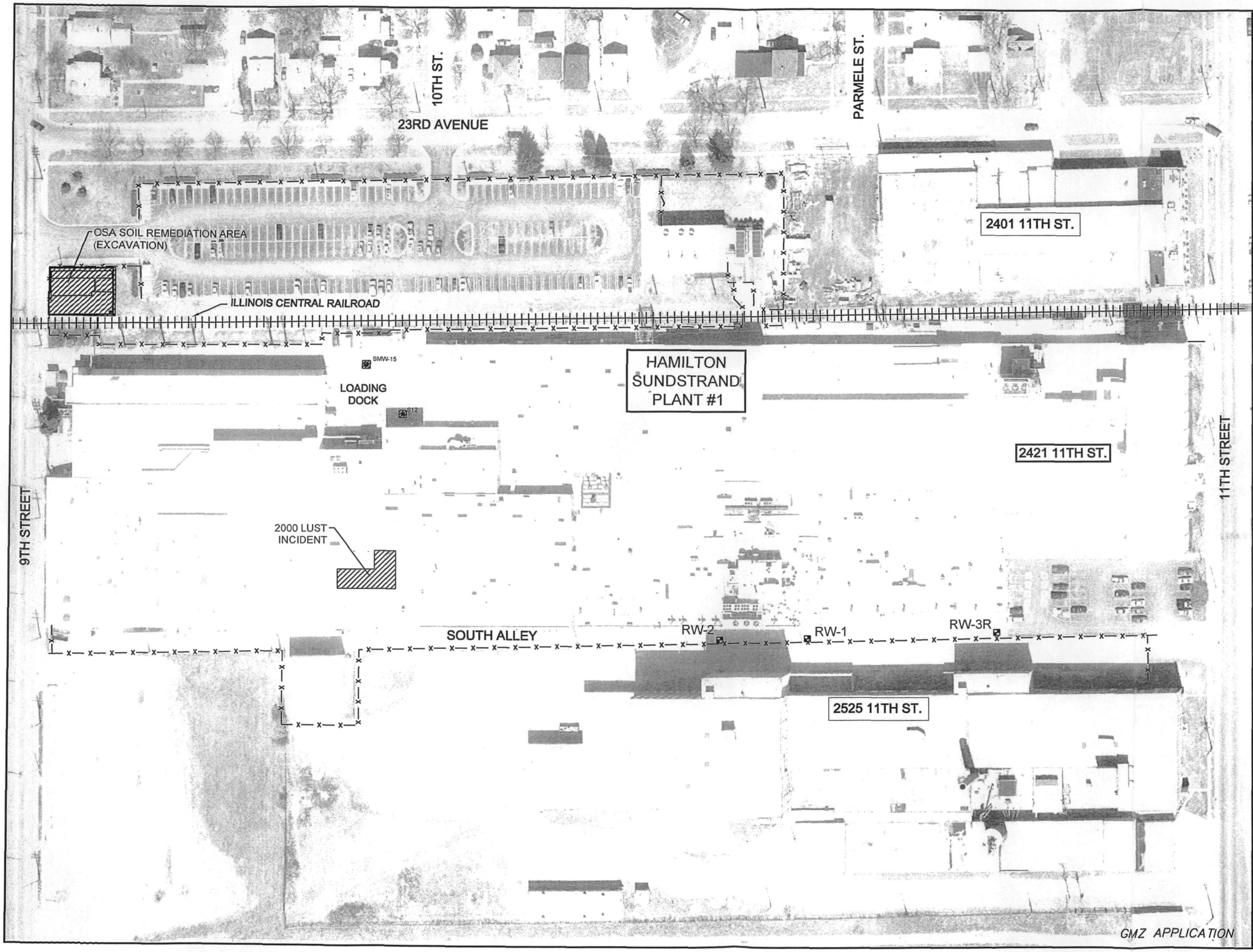
Unscannable Material:
Oversized __x__ or ___ Format.
Due to certain scanning equipment capability limitations, the document page(s) is not available in SDMS.

Specify Type of Document(s) / Comments:

FIGURE 1.4 – HISTORICAL GROUNDWATER ANALYTICAL RESULTS

Document is available at the EPA Region 5 Records Center.

Specify Type of Document(s) / Comments:



N

LEGEND

- FENCE LINE
- SOIL REMEDIATION AREA
- JP4 RECOVERY WELL
- MONITORING WELL
- SOIL BORING

0 60 120

APPROXIMATE SCALE (FEET)

PREPARED BY:

SECOR
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS 60148
PHONE: (630) 792-1680/792-1691 (FAX)

FOR:

AREA 9/10 REMEDIAL DESIGN
SOUTHEAST ROCKFORD GROUNDWATER
CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS

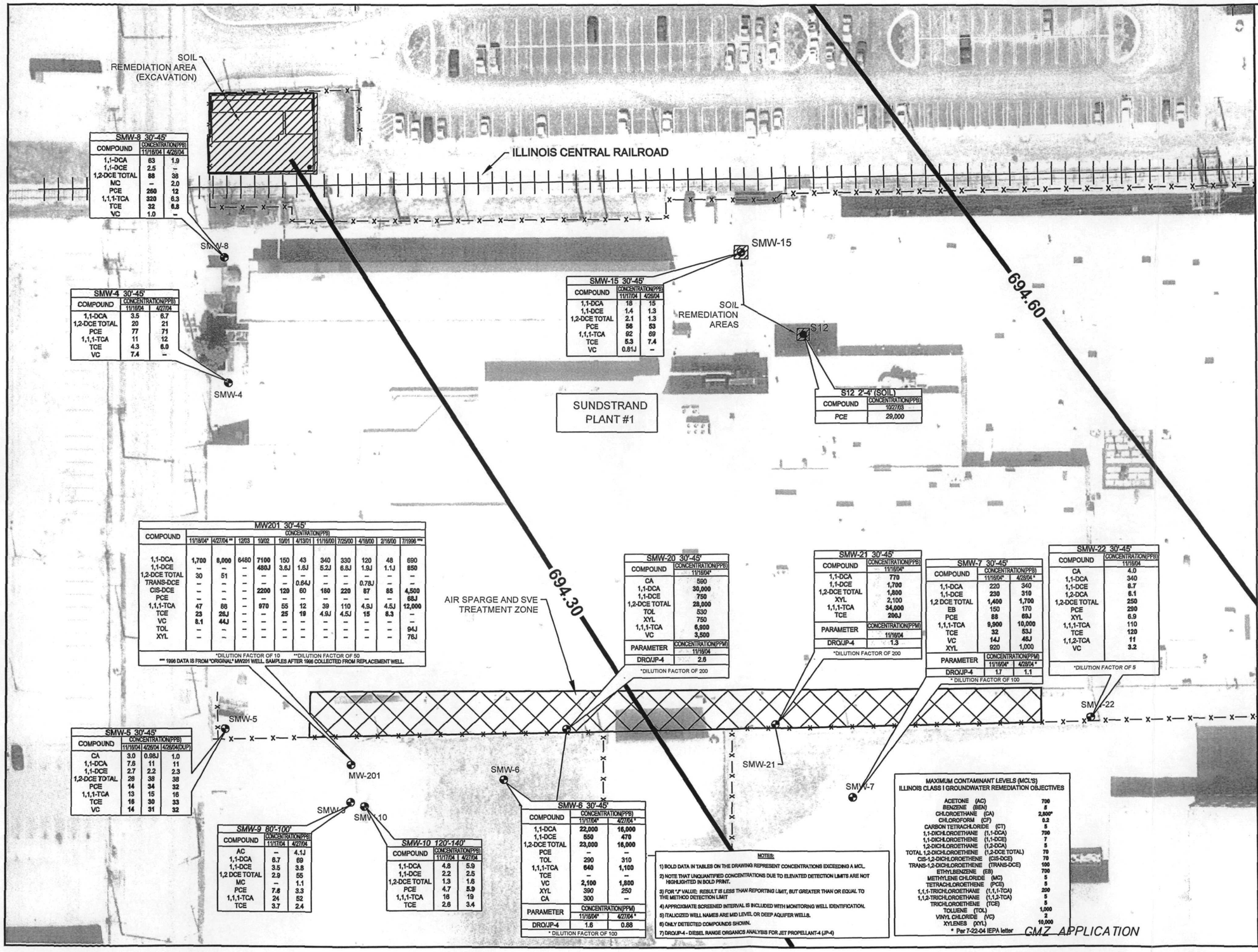
TITLE:

SOIL SOURCE MATERIAL AREAS IDENTIFIED WITH THE POTENTIAL TO IMPACT GROUNDWATER

DRAWN BY: JC	DESIGNED BY: JTD
CHECKED BY: JTD	APPROVED BY: KTW
PROJECT NUMBER: 13UN.02072.04	SCALE: AS SHOWN
DATE: 3/05/08	FILE PATH: F:\WORK\AUTOCAD\FIGURES\UC

FIGURE: 1.5

02072F18.dwg



SMW-8 30'-45'		
COMPOUND	CONCENTRATION(PPB)	
	11/18/04	4/26/04
1,1-DCA	63	1.9
1,1-DCE	2.5	--
1,2-DCE TOTAL	88	38
MC	--	2.0
PCE	260	12
1,1,1-TCA	320	6.3
TCE	32	6.8
VC	1.0	--

SMW-4 30'-45'		
COMPOUND	CONCENTRATION(PPB)	
	11/18/04	4/27/04
1,1-DCA	3.5	6.7
1,2-DCE TOTAL	20	21
PCE	77	71
1,1,1-TCA	11	12
TCE	4.3	6.0
VC	7.4	--

SMW-15 30'-45'		
COMPOUND	CONCENTRATION(PPB)	
	11/17/04	4/26/04
1,1-DCA	18	15
1,1-DCE	1.4	1.3
1,2-DCE TOTAL	2.1	1.3
PCE	56	53
1,1,1-TCA	92	69
TCE	5.3	7.4
VC	0.81J	--

S12 2'-4' (SOIL)	
COMPOUND	CONCENTRATION(PPB)
	10/27/03
PCE	29,000

MW201 30'-45'											
COMPOUND	CONCENTRATION(PPB)										
	11/18/04*	4/27/04 **	12/03	10/02	10/01	4/13/01	11/16/00	7/25/00	4/18/00	2/16/00	7/1996 ***
1,1-DCA	1,700	8,000	6480	7100	150	43	340	330	120	48	690
1,1-DCE	--	--	--	480J	3.6J	1.6J	5.2J	6.8J	1.9J	1.1J	850
1,2-DCE TOTAL	30	51	--	--	--	--	--	--	--	--	--
TRANS-DCE	--	--	--	--	--	0.64J	--	--	0.78J	--	--
CIS-DCE	--	--	--	2200	120	60	180	220	87	85	4,500
PCE	--	--	--	--	--	--	--	--	--	--	68J
1,1,1-TCA	47	88	--	970	55	12	39	110	4.9J	4.5J	12,000
TCE	23	26J	--	--	25	19	4.9J	4.5J	15	8.3	--
VC	8.1	44J	--	--	--	--	--	--	--	--	--
TOL	--	--	--	--	--	--	--	--	--	--	94J
XYL	--	--	--	--	--	--	--	--	--	--	76J

*DILUTION FACTOR OF 10 **DILUTION FACTOR OF 50
*** 1996 DATA IS FROM "ORIGINAL" MW201 WELL. SAMPLES AFTER 1996 COLLECTED FROM REPLACEMENT WELL.

SMW-20 30'-45'	
COMPOUND	CONCENTRATION(PPB)
	11/16/04*
CA	590
1,1-DCA	30,000
1,1-DCE	750
1,2-DCE TOTAL	28,000
TOL	530
XYL	750
1,1,1-TCA	6,900
VC	3,500
PARAMETER	CONCENTRATION(PPM)
	11/16/04
DRO/JP-4	2.6

*DILUTION FACTOR OF 200

SMW-21 30'-45'	
COMPOUND	CONCENTRATION(PPB)
	11/16/04*
1,1-DCA	770
1,1-DCE	1,700
1,2-DCE TOTAL	1,800
XYL	2,100
1,1,1-TCA	34,000
TCE	200J
PARAMETER	CONCENTRATION(PPM)
	11/16/04
DRO/JP-4	1.3

*DILUTION FACTOR OF 200

SMW-7 30'-45'		
COMPOUND	CONCENTRATION(PPB)	
	11/16/04*	4/28/04*
1,1-DCA	220	340
1,1-DCE	230	310
1,2 DCE TOTAL	1,400	1,700
EB	150	170
PCE	88	69J
1,1,1-TCA	9,900	10,000
TCE	32	53J
VC	14J	46J
XYL	920	1,000
PARAMETER	CONCENTRATION(PPM)	
	11/16/04*	4/28/04*
DRO/JP-4	1.7	1.1

* DILUTION FACTOR OF 100

SMW-22 30'-45'	
COMPOUND	CONCENTRATION(PPB)
	11/16/04
CA	4.0
1,1-DCA	340
1,1-DCE	8.7
1,2-DCA	6.1
1,2-DCE TOTAL	250
PCE	290
XYL	6.9
1,1,1-TCA	110
TCE	120
1,1,2-TCA	11
VC	3.2

*DILUTION FACTOR OF 5

SMW-5 30'-45'			
COMPOUND	CONCENTRATION(PPB)		
	11/16/04	4/26/04	4/26/04(DUP)
CA	3.0	0.98J	1.0
1,1-DCA	7.6	11	11
1,1-DCE	2.7	2.2	2.3
1,2-DCE TOTAL	26	38	38
PCE	14	34	32
1,1,1-TCA	13	15	16
TCE	16	30	33
VC	14	31	32

SMW-9 80'-100'		
COMPOUND	CONCENTRATION(PPB)	
	11/17/04	4/27/04
AC	--	4.1J
1,1-DCA	6.7	69
1,1-DCE	3.5	3.8
1,2 DCE TOTAL	2.9	55
MC	--	1.1
PCE	7.6	3.3
1,1,1-TCA	24	52
TCE	3.7	2.4

SMW-10 120'-140'		
COMPOUND	CONCENTRATION(PPB)	
	11/17/04	4/27/04
1,1-DCA	4.8	5.9
1,1-DCE	2.2	2.5
1,2-DCE TOTAL	1.3	1.6
PCE	4.7	5.9
1,1,1-TCA	16	19
TCE	2.6	3.4

SMW-6 30'-45'		
COMPOUND	CONCENTRATION(PPB)	
	11/17/04*	4/27/04*
1,1-DCA	22,000	16,000
1,1-DCE	550	470
1,2-DCE TOTAL	23,000	16,000
PCE	--	--
TOL	290	310
1,1,1-TCA	640	1,100
TCE	--	--
VC	2,100	1,800
XYL	390	250
CA	300	--
PARAMETER	CONCENTRATION(PPM)	
	11/16/04*	4/27/04*
DRO/JP-4	1.6	0.88

* DILUTION FACTOR OF 100

NOTES:

1) BOLD DATA IN TABLES ON THE DRAWING REPRESENT CONCENTRATIONS EXCEEDING A MCL.
2) NOTE THAT UNQUANTIFIED CONCENTRATIONS DUE TO ELEVATED DETECTION LIMITS ARE NOT HIGHLIGHTED IN BOLD PRINT.
3) FOR "J" VALUE: RESULT IS LESS THAN REPORTING LIMIT, BUT GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT
4) APPROXIMATE SCREENED INTERVAL IS INCLUDED WITH MONITORING WELL IDENTIFICATION.
5) ITALICIZED WELL NAMES ARE MID LEVEL OR DEEP AQUIFER WELLS.
6) ONLY DETECTED COMPOUNDS SHOWN.
7) DRO/JP-4 - DIESEL RANGE ORGANICS ANALYSIS FOR JET PROPELLANT-4 (JP-4)

MAXIMUM CONTAMINANT LEVELS (MCL'S) ILLINOIS CLASS I GROUNDWATER REMEDIATION OBJECTIVES	
ACETONE (AC)	700
BENZENE (BEN)	5
CHLOROETHANE (CA)	2,800*
CHLOROFORM (CF)	0.2
CARBON TETRACHLORIDE (CT)	5
1,1-DICHLOROETHANE (1,1-DCA)	700
1,1-DICHLOROETHENE (1,1-DCE)	7
1,2-DICHLOROETHANE (1,2-DCA)	5
TOTAL 1,2-DICHLOROETHENE (1,2-DCE TOTAL)	70
CIS-1,2-DICHLOROETHENE (CIS-DCE)	70
TRANS-1,2-DICHLOROETHENE (TRANS-DCE)	100
ETHYLBENZENE (EB)	700
METHYLENE CHLORIDE (MC)	5
TETRACHLOROETHENE (PCE)	5
1,1,1-TRICHLOROETHANE (1,1,1-TCA)	200
1,1,2-TRICHLOROETHANE (1,1,2-TCA)	5
TRICHLOROETHENE (TCE)	5
TOLUENE (TOL)	1,000
VINYL CHLORIDE (VC)	2
XYLENES (XYL)	10,000

* Per T-22-04 IEPA letter

GMZ APPLICATION

LEGEND

- FENCE LINE
- GROUNDWATER POTENTIOMETRIC CONTOUR LINE
- MONITORING WELL
- SOIL REMEDIATION AREA
- AIR SPARGE AND SVE GROUNDWATER REMEDIATION TREATMENT ZONE

0 60 120

APPROXIMATE SCALE (FEET)

PREPARED BY:

SECOR
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS 60148
PHONE: (630) 792-1680/792-1691 (FAX)

FOR:

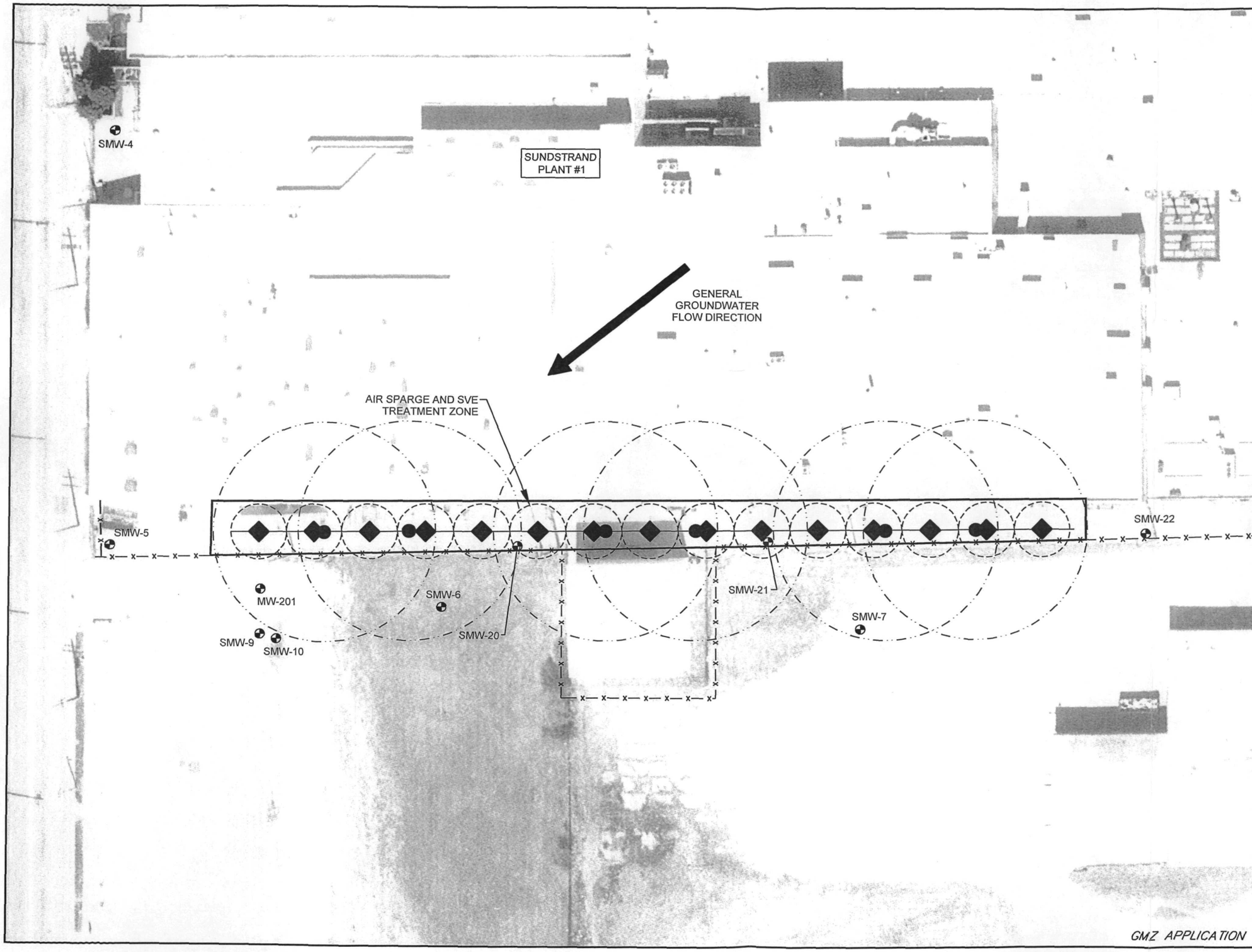
AREA 9/10 REMEDIAL DESIGN
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS

TITLE:

GROUNDWATER AND SOIL REMEDIATION AREAS

DRAWN BY: JC	DESIGNED BY: JD
CHECKED BY: JD	APPROVED BY:
PROJECT NUMBER: 13UN.02072.04	SCALE: AS SHOWN
DATE: 3/05/08	FILE PATH: F:\WORK\AUTOCAD\FIGURES\UTC
FIGURE: 1.6	

02072F06.dwg



N

LEGEND

- MONITORING WELL
- FENCE LINE
- SVE WELL
- AIR SPARGE WELL
- SVE RADIUS OF INFLUENCE
- AIR SPARGE RADIUS OF INFLUENCE
- AIR SPARGE AND SVE GROUNDWATER REMEDIATION TREATMENT ZONE

0 50 100

APPROXIMATE SCALE (FEET)

PREPARED BY:

SECOR
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS 60148
PHONE: (630) 792-1680/792-1691 (FAX)

FOR:

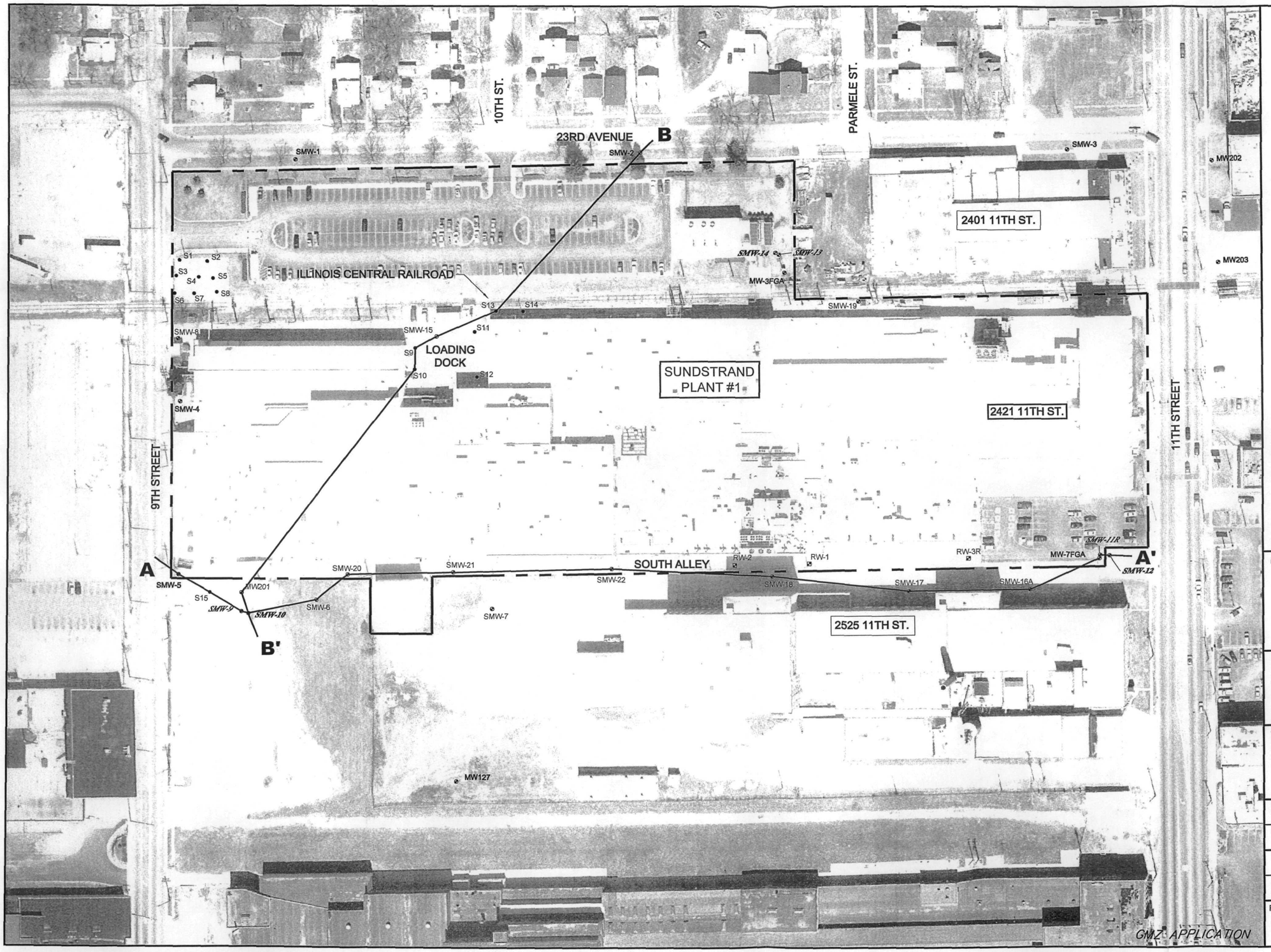
AREA 9/10 REMEDIAL DESIGN
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS

TITLE:

AIR SPARGE AND SOIL VAPOR EXTRACTION TREATMENT ZONE DETAILS

DRAWN BY: JC	DESIGNED BY: JD
CHECKED BY: JD	APPROVED BY: KTW
PROJECT NUMBER: 13UN.02072.04	SCALE: AS SHOWN
DATE: 3/05/08	FILE PATH: F:\WORK\AUTOCAD\FIGURES\UTC
SHEET: 1.7	

02072F18.dwg



N

LEGEND:

- PROPERTY BOUNDARY
- MONITORING WELL
- RECOVERY WELL
- SOIL BORING
- CROSS SECTION A-A'

0 120 240

APPROXIMATE SCALE (FEET)

PREPARED BY:

SECOR
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS 60148
PHONE: (630) 792-1680/792-1691 (FAX)

FOR:

AREA 9/10 REMEDIAL DESIGN
SOUTHEAST ROCKFORD GROUNDWATER
CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS

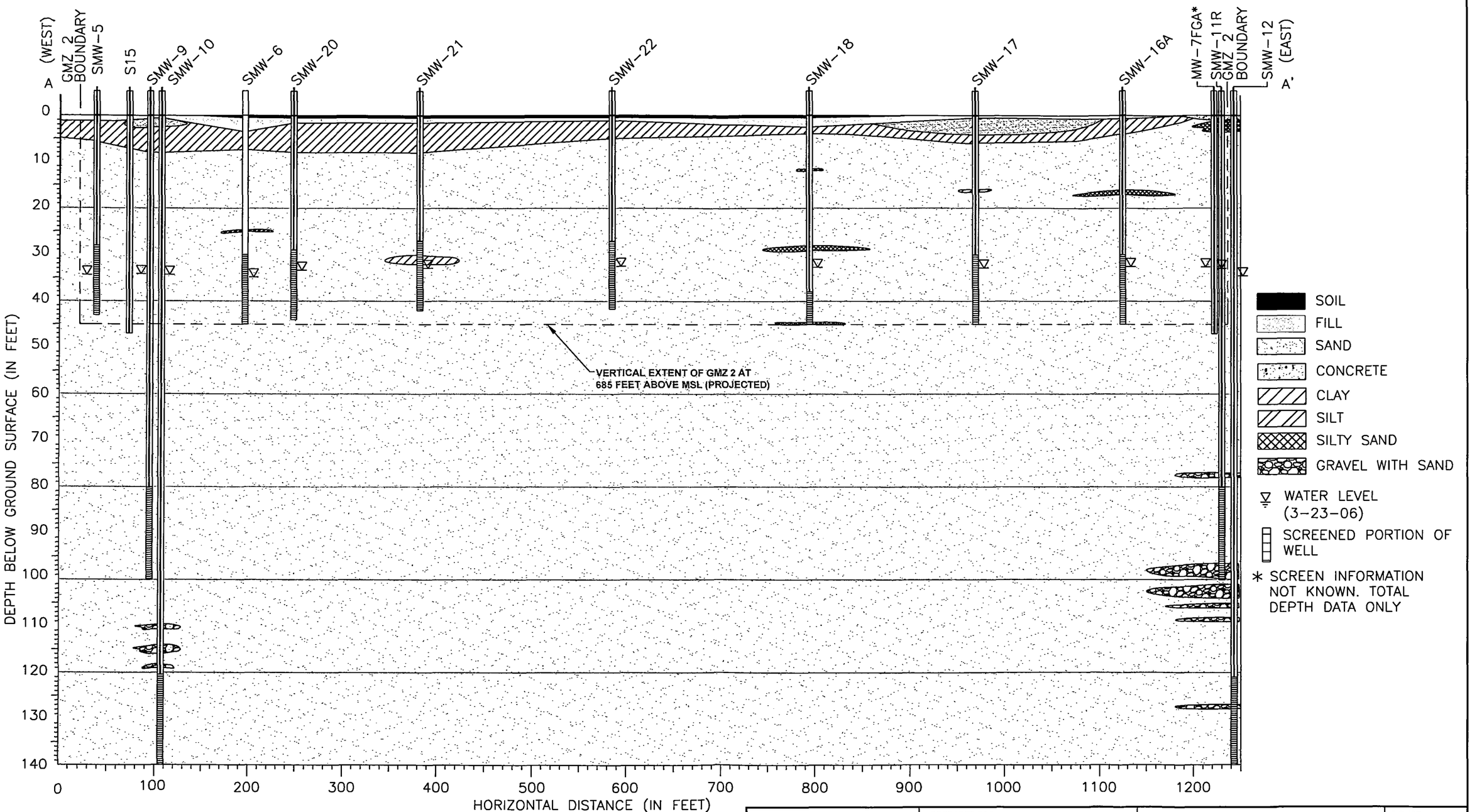
TITLE:

AREA 9/10
CROSS SECTION ALIGNMENTS

DRAWN BY: JC	DESIGNED BY: JD
CHECKED BY: JD	APPROVED BY: KTW
PROJECT NUMBER: 13UN.02072.04	SCALE: AS SHOWN
DATE: 3/05/08	FILE PATH: F:\WORK\AUTOCAD\FIGURES\UTC

FIGURE: 2.1

02072F05.dwg



NOTE:
GROUND SURFACE ELEVATION APPROXIMATELY 729 FT ABOVE MEAN SEA LEVEL (VARIES +/- 1.5 FEET ACROSS AREA)

GMZ APPLICATION

SECOR
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS
PH:(630)792-1680 / FAX:(630)792-1691

PREPARED FOR:
AREA 9/10 REMEDIAL DESIGN
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLNOIS

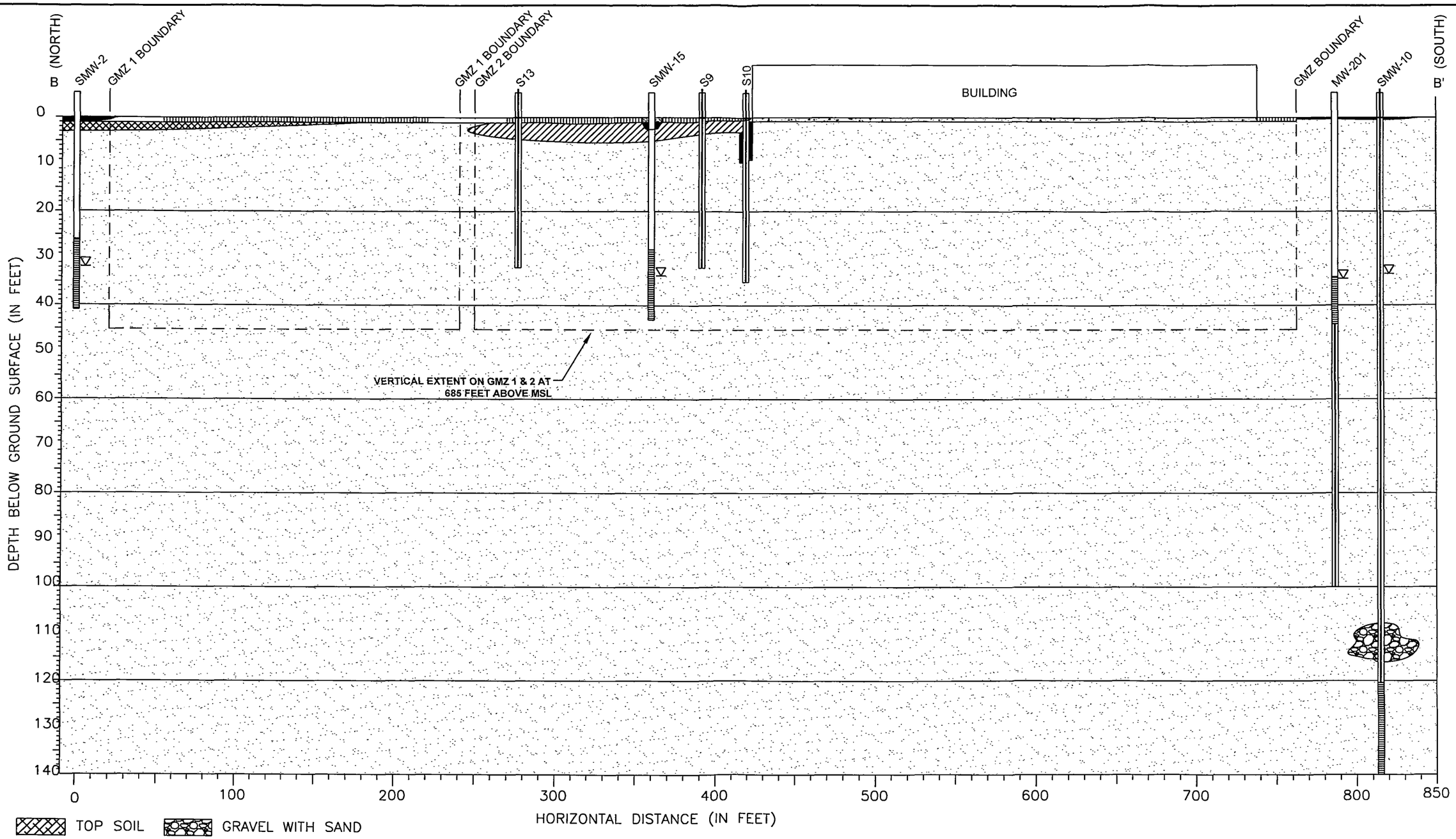
WEST - EAST CROSS SECTION A-A'

FIGURE: 2.2

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
13UN.02072.04.0001	JC	JD	KTW	3/05/08

F:\WORK\AUTOCAD\FIGURES\UTC

02072F11



TOP SOIL
FILL
SAND
CLAY
CONCRETE
SILTY SAND
GRAVEL WITH SAND
GRAVEL W/ SILTY CLAY
ASPHALT
WATER LEVEL (3/23/06)
SCREENED PORTION OF WELL

NOTE:
GROUND SURFACE ELEVATION APPROXIMATELY 729 FT ABOVE MEAN SEA LEVEL
(VARIES +/- 1.5 FEET ACROSS AREA)

GMZ APPLICATION

SECOR
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS
PH:(630)792-1680 / FAX:(630)792-1691

PREPARED FOR:
AREA 9/10 REMEDIAL DESIGN
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS

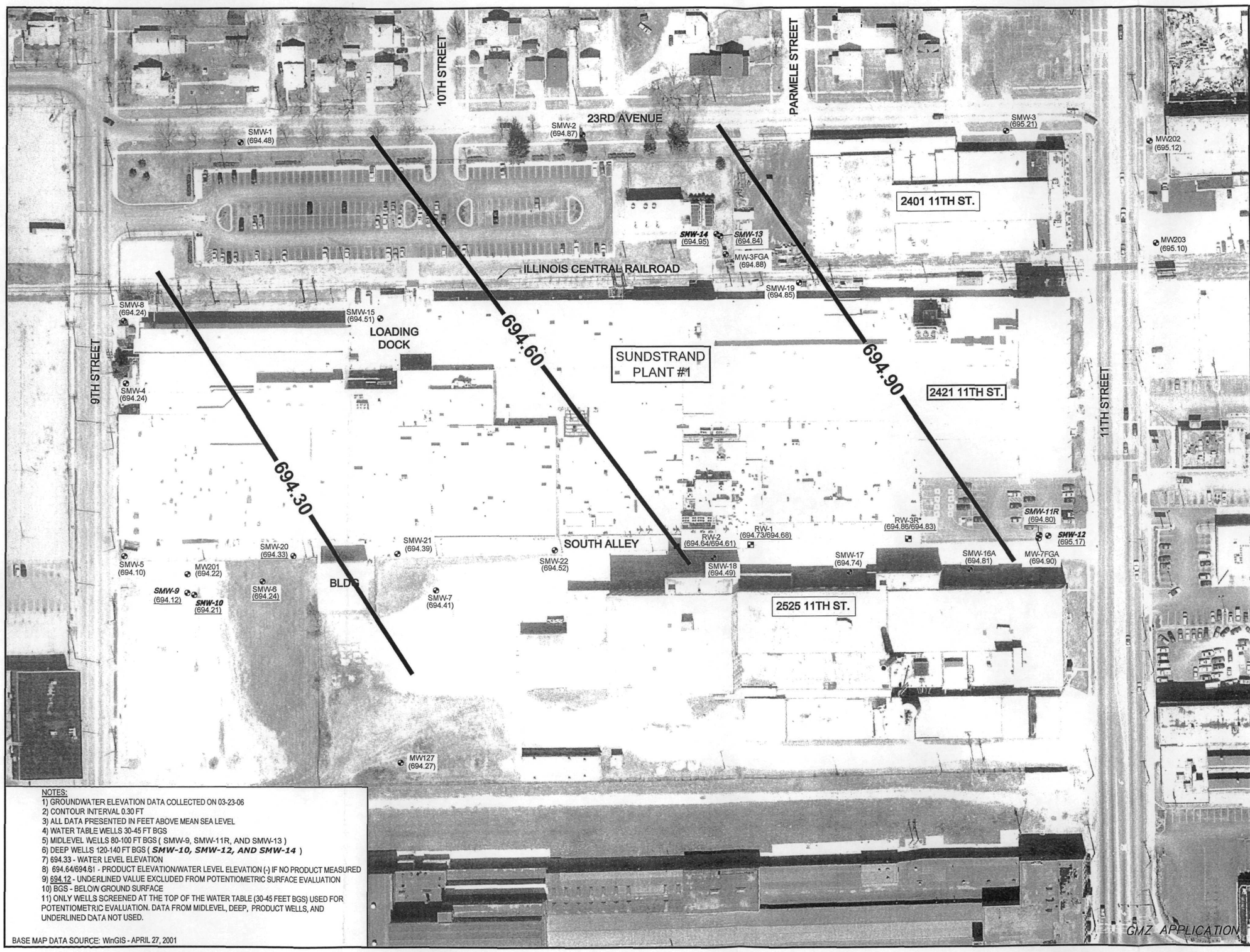
NORTH - SOUTH CROSS SECTION B-B'

FIGURE: 2.3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
13UN.02072.04	JC	JD	KTW	3/05/08

F:\WORK\AUTOCAD\FIGURES\UTC

02072F11.DWG



NOTES:
1) GROUNDWATER ELEVATION DATA COLLECTED ON 03-23-06
2) CONTOUR INTERVAL 0.30 FT
3) ALL DATA PRESENTED IN FEET ABOVE MEAN SEA LEVEL
4) WATER TABLE WELLS 30-45 FT BGS
5) MIDLEVEL WELLS 80-100 FT BGS (SMW-9, SMW-11R, AND SMW-13)
6) DEEP WELLS 120-140 FT BGS (***SMW-10, SMW-12, AND SMW-14***)
7) 694.33 - WATER LEVEL ELEVATION
8) 694.64/694.61 - PRODUCT ELEVATION/WATER LEVEL ELEVATION (-) IF NO PRODUCT MEASURED
9) 694.12 - UNDERLINED VALUE EXCLUDED FROM POTENTIOMETRIC SURFACE EVALUATION
10) BGS - BELOW GROUND SURFACE
11) ONLY WELLS SCREENED AT THE TOP OF THE WATER TABLE (30-45 FEET BGS) USED FOR POTENTIOMETRIC EVALUATION. DATA FROM MIDLEVEL, DEEP, PRODUCT WELLS, AND UNDERLINED DATA NOT USED.

BASE MAP DATA SOURCE: WinGIS - APRIL 27, 2001

LEGEND:

- MONITORING WELL
- RECOVERY WELL
- PROPERTY BOUNDARY
- 694.90 CONTOUR LINE
- * BASED ON RW-3 SURVEY DATA

0 120 240

APPROXIMATE SCALE (FEET)

PREPARED BY:

SECOR
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS 60148
PHONE: (630) 792-1680/792-1691 (FAX)

FOR:

AREA 9/10 REMEDIAL DESIGN
SOUTHEAST ROCKFORD GROUNDWATER
CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS

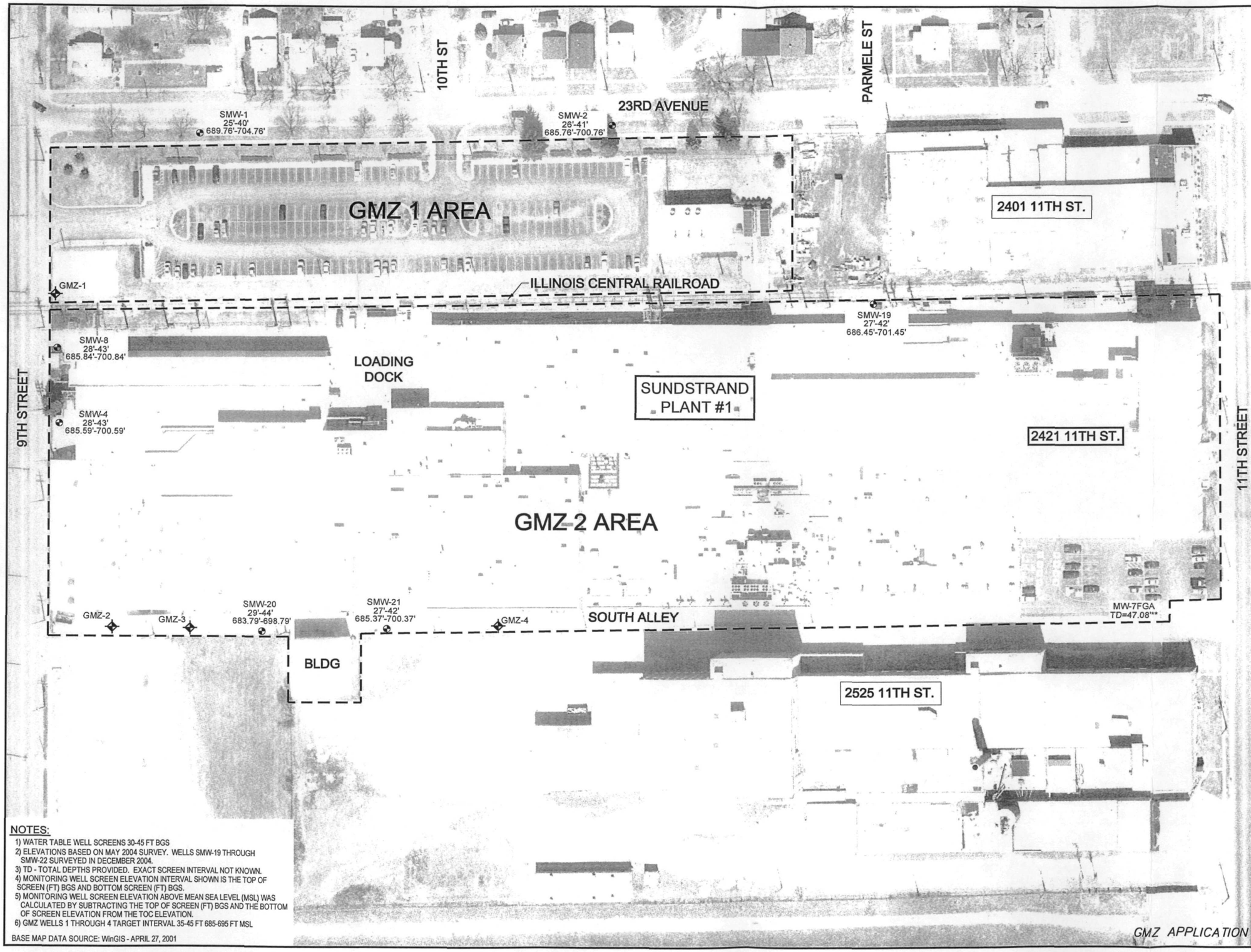
TITLE:

GROUNDWATER POTENTIOMETRIC SURFACE MAP
MARCH 23, 2006

DRAWN BY: JC	DESIGNED BY: JD
CHECKED BY: JD	APPROVED BY: KTW
PROJECT NUMBER: 13UN.02072.04	SCALE: AS SHOWN
DATE: 3/05/08	FILE PATH: F:\WORK\AUTOCAD\FIGURES\UC

FIGURE: 2.4

02072F9.dwg



NOTES:

1) WATER TABLE WELL SCREENS 30-45 FT BGS
2) ELEVATIONS BASED ON MAY 2004 SURVEY. WELLS SMW-19 THROUGH SMW-22 SURVEYED IN DECEMBER 2004.
3) TD - TOTAL DEPTHS PROVIDED. EXACT SCREEN INTERVAL NOT KNOWN.
4) MONITORING WELL SCREEN ELEVATION INTERVAL SHOWN IS THE TOP OF SCREEN (FT) BGS AND BOTTOM SCREEN (FT) BGS.
5) MONITORING WELL SCREEN ELEVATION ABOVE MEAN SEA LEVEL (MSL) WAS CALCULATED BY SUBTRACTING THE TOP OF SCREEN (FT) BGS AND THE BOTTOM OF SCREEN ELEVATION FROM THE TOC ELEVATION.
6) GMZ WELLS 1 THROUGH 4 TARGET INTERVAL 35-45 FT 685-695 FT MSL

BASE MAP DATA SOURCE: WinGIS - APRIL 27, 2001

LEGEND:

◕	MONITORING WELL
■	RECOVERY WELL
◆	PROPOSED WELL
— — —	GMZ BOUNDARY
31.16'-46.16'	MONITORING WELL SCREEN ELEVATION INTERVAL BELOW TOP OF CASING (feet)
681.88'-696.88'	MONITORING WELL SCREEN ELEVATION (feet) MEAN SEA LEVEL
*	BASED ON RW-3 SURVEY DATA
**	TOTAL DEPTH WAS MEASURED ON JANUARY 14-15, 2004

0 100 200

APPROXIMATE SCALE (FEET)

PREPARED BY:

SECOR
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS 60148
PHONE: (630) 792-1680/792-1691 (FAX)

FOR:

AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS

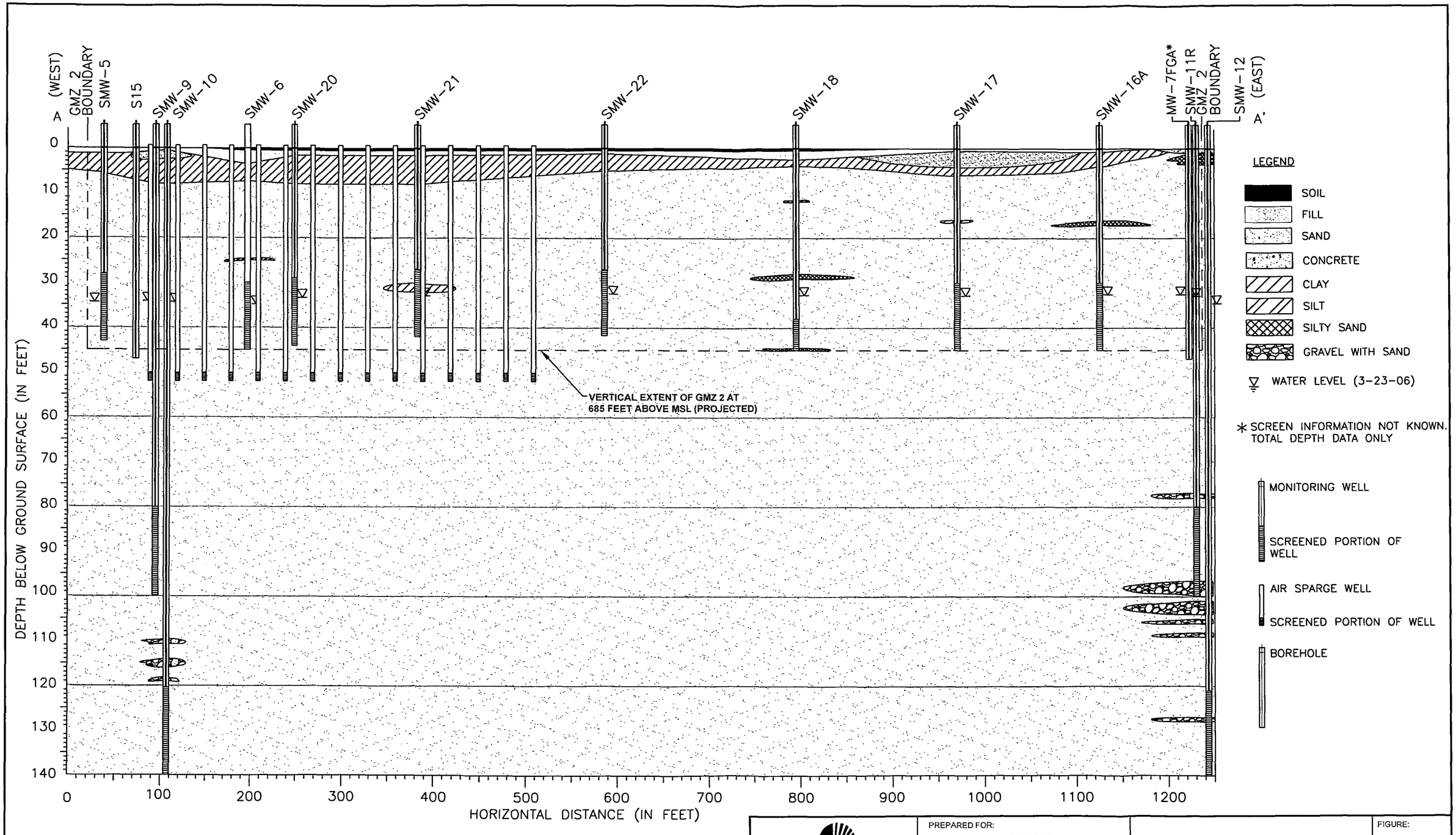
TITLE:

GMZ MONITORING WELL NETWORK AND SCREEN DEPTHS

DRAWN BY: JC	DESIGNED BY: JD
CHECKED BY: JD	APPROVED BY: KTW
PROJECT NUMBER: 13UN.02072.04	SCALE: AS SHOWN
DATE: 3/05/08	FILE PATH: F:\WORK\AUTOCAD\FIGURES\UTC

FIGURE: 2.5

02072F10.dwg



NOTE:
GROUND SURFACE ELEVATION APPROXIMATELY 729 FT ABOVE MEAN SEA LEVEL (VARIES +/- 1.5 FEET ACROSS AREA)

GMZ APPLICATION

SECOR
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS
PH:(630)792-1680 / FAX:(630)792-1691

PREPARED FOR:
AREA 9/10
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLNOIS

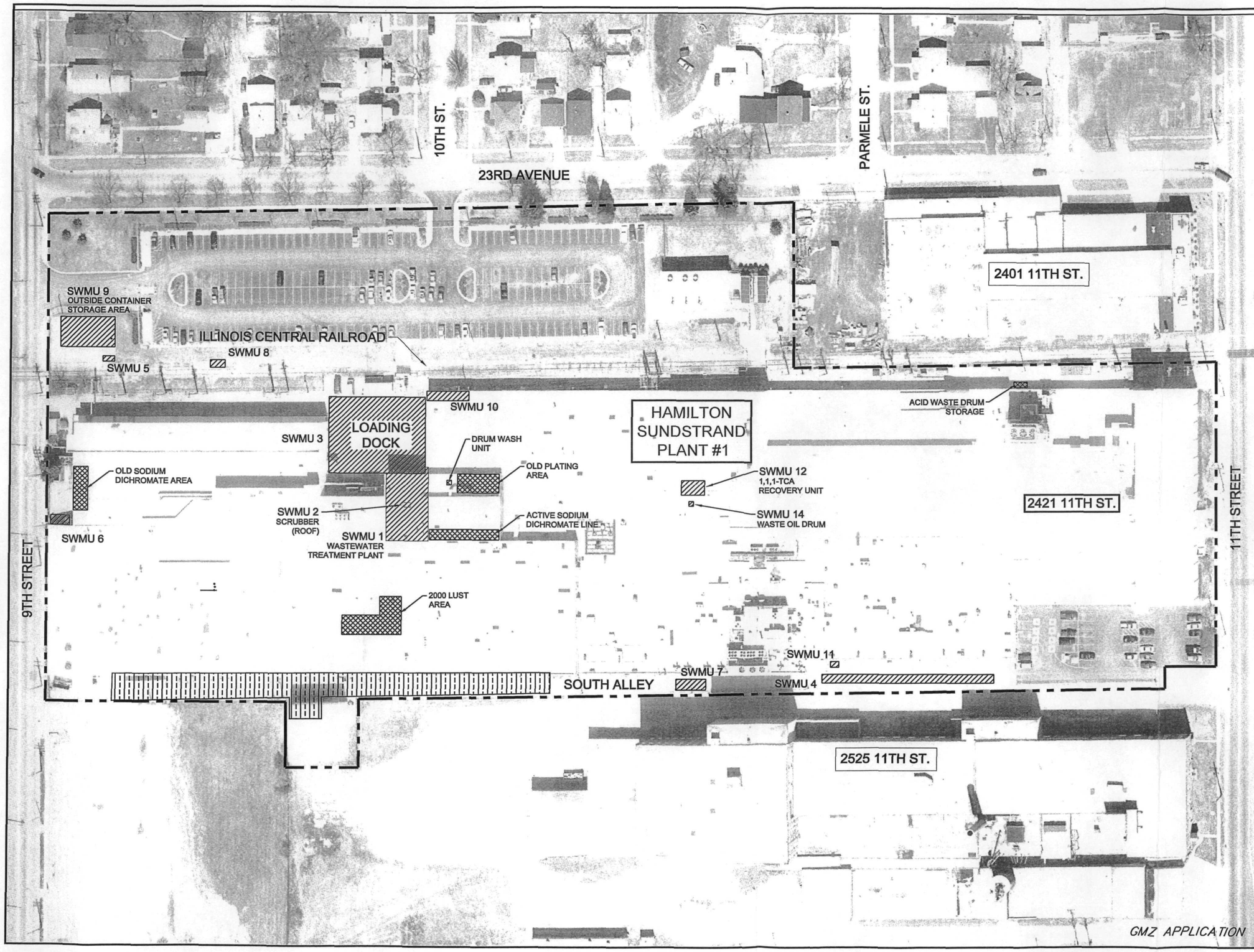
GMZ AND AIR SPARGE WELLS CROSS SECTION

FIGURE: 2.6

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
13UN.02072.07.0001	JC	JD	KTW	3/05/08

F:\WORK\AUTOCAD\FIGURES\UTC

02072F11



N

LEGEND:

- PROPERTY BOUNDARY
- SWMU LOCATION
- AREA OF CONCERN (AOC)
- PLANNED SVE AND AIR SPARGE REMEDIATION SYSTEM TO ADDRESS SWMU 13 (ONSITE GROUNDWATER CONTAMINATION)

NOTE:
SWMU AND AOC LOCATIONS ARE APPROXIMATE

0 100 200
APPROXIMATE SCALE (FEET)

PREPARED BY:

SECOR
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS 60148
PHONE: (630) 792-1680/792-1691 (FAX)

FOR:
AREA 9/10 REMEDIAL DESIGN
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
ROCKFORD, ILLINOIS

TITLE:
SWMUs AND AREAS OF CONCERN

DRAWN BY: JC	DESIGNED BY: JD
CHECKED BY: JD	APPROVED BY: KTW
PROJECT NUMBER: 13UN.02072.04	SCALE: AS SHOWN
DATE: 3/05/08	FILE PATH: F:\WORK\AUTOCAD\FIGURES\UTC

SHEET: 2.7

02072F16.dwg

APPENDIX A

Soil Analytical Results - 2000 LUST Incident

Hamilton Sundstrand
LUST Area
Volatiles by GC/MS

Sample Description	EXC-SW	WW-S	EW-S	WW-N	EW-N	EXC-NW	TACO
Sample Depth	6 - 8'	6 - 8'	6 - 8'	6 - 8'	6 - 8'	6 - 8'	Cleanup
PID Reading (ppm)	9.1	26.3	15.1	11.7	32.9	13.0	Objectives
1,1,1-Trichloroethane	0.017	**7.130**	0.036	0.016	0.0705	0.042	2
1,1,2-Trichloroethane	0.017	**0.523**	0.0034	0.0016	0.006	<0.0009	0.02
1,1-Dichloroethene	<0.0011	0.0465	<0.0011	<0.0011	0.0011	<0.0011	0.06
1,2-Dichloroethane	<0.0012	**0.108**	<0.0012	<0.0012	0.004	<0.0012	0.02
1,2-Dichloropropane	<0.0008	<0.0216	<0.0008	<0.0008	<0.0008	<0.0008	0.03
Benzene	0.0017	**0.259**	0.0019	0.0021	0.0019	0.0012	0.03
Bromodichloromethane	<0.0007	<0.0189	<0.0007	<0.0007	<0.0007	<0.0007	0.6
Bromoform	<0.005	<0.135	<0.005	<0.005	<0.005	<0.005	0.8
Carbon tetrachloride	<0.0017	<0.046	<0.0017	<0.0017	<0.0017	<0.0017	0.07
Chloroform	<0.0013	<0.0352	<0.0013	<0.0013	<0.0013	<0.0013	0.6
cis-1,2-Dichloroethene	0.0111	**3.180**	0.012	0.0141	0.0237	<0.0011	0.4
cis-1,3-Dichloropropene	<0.0007	<0.0189	<0.0007	<0.0007	<0.0007	<0.0007	0.004
Ethylbenzene	<0.0014	0.203	<0.0014	0.0018	0.0018	<0.0014	13
Methylene chloride	<0.0027	**0.155**	<0.0027	<0.0027	<0.0027	<0.0027	0.02
Styrene	<0.0011	<0.0298	<0.0011	<0.0011	<0.0011	<0.0011	4
Tetrachloroethene	<0.0016	**4.220**	**3.460**	**0.965**	**4.640**	0.0293	0
Toluene	0.0026	0.678	0.0046	0.005	0.0047	0.0026	12
trans-1,2-Dichloroothene	<0.0011	0.0465	<0.0011	<0.0011	<0.0011	<0.0011	0.7
trans-1,3-Dichloropropene	<0.0006	<0.0162	<0.0006	<0.0006	<0.0006	<0.0006	0.004
Trichloroethene	0.0188	**4.580**	0.0547	0.0251	**0.0702**	0.0012	0.06
Vinyl chloride	<0.0013	<0.0352	<0.0013	<0.0013	<0.0013	<0.0013	0.01
Xylenes, Total	<0.005	0.534	<0.005	<0.005	0.0058	<0.005	150

All results reported in mg/kg or parts per million (ppm)
Bold print signifies an exceedence of the TACO cleanup objective.
**TACO 6-5-97 Final Order, Appendix B: Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties, Migration to Groundwater (GW) portion of the GW Ingestion Exposure Route Values, Class I GW.*

Hamilton Sundstrand
LUST Area
Semivolatile Organic Compounds GC/MS

Sample Description	EXC-SW	WW-S	EW-S	WW-N	EW-N	EXC-NW	TACO
Sample Depth	6 - 8'	6 - 8'	6 - 8'	6 - 8'	6 - 8'	6 - 8'	Cleanup
PID Reading (ppm)	9.1	26.3	15.1	11.7	32.9	11.0	Objectives
1,2,4-Trichlorobenzene	<0.041	<0.240	<0.051	<0.051	<0.041	<0.041	5
1,2-Dichlorobenzene	<0.033	<0.190	<0.041	<0.040	<0.033	<0.033	17
1,4-Dichlorobenzene	<0.039	<0.220	<0.048	<0.047	<0.039	<0.039	2
2,4,6-Trichlorophenol	<0.024	<0.140	<0.030	<0.030	<0.024	<0.024	0.2
Acenaphthylene	<0.023	<0.130	<0.028	<0.028	<0.023	<0.023	0.570
Anthracene	<0.016	<0.092	0.087	<0.020	0.024	<0.016	12,000
Benz(a) anthracene	0.041	<0.140	0.530	<0.030	0.120	<0.025	2
Brnzo(a) pyrene	0.091	<0.180	0.590	<0.038	0.220	<0.031	8
Benzo(b) fluoranthene	<0.043	<0.250	<0.054	<0.053	0.480	<0.043	5
Benzo(g,h,i) perylene	0.036	<0.110	0.270	0.047	0.180	<0.020	
Benzo (k) fluoranthene	<0.043	<0.250	<0.054	<0.053	<0.054	<0.043	49
Bis(2-chloroethyl) ether	<0.039	<0.230	<0.049	<0.048	<0.040	<0.040	0.0004
Bis(2-ethylhexyl) phthalate	0.072	0.580	0.350	0.045	<0.027	0.038	3,600
Chrysene	0.056	0.230	0.560	<0.031	0.180	<0.025	160
Dibenz(a,h) anthracene	<0.026	<0.150	<0.033	<0.032	<0.033	<0.026	2
Fluoranthene	0.022	0.140	0.790	<0.019	0.079	<0.016	4,300
Fluorene	<0.022	<0.130	0.034	<0.027	<0.022	<0.022	560
Hexachlorobenzene	<0.018	<0.100	<0.022	<0.022	<0.018	<0.018	2
Hexachlorocyclopentadiene	<0.047	<0.270	<0.059	<0.058	<0.048	<0.048	400
Indeno(1,2,3-cd) pyrene	0.040	<0.140	0.250	0.053	0.120	<0.024	14
N-Nitrosodi-n-propylamine	<0.051	<0.290	<0.064	<0.063	<0.051	<0.051	0.00005
N-Nitrosodiphenylamine	<0.062	<0.350	<0.077	<0.076	<0.062	<0.062	1
Naphthalene	<0.033	<0.190	<0.041	<0.041	<0.033	<0.033	84
Pentachlorophenol	<0.050	<0.280	<0.062	<0.061	<0.050	<0.050	0.03
Phenanthrene	<0.022	<0.120	0.460	<0.026	0.061	0.022	
Phenol	<0.030	<0.170	<0.038	<0.037	<0.030	<0.030	100
Pyrene	0.061	0.260	1.0	0.024	0.190	<0.013	4,200

All results reported in mg/kg or parts per million (ppm)

**TACO 6-5-97 Final Order, Appendix B: Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties, Migration to Groundwater (GW) portion of the GW Ingestion Exposure Route Values, Class I GW.*

Hamilton Sundstrand
LUST Area
Heavy Metals

Sample Description	EXC-SW	WW-S	EW-S	WW-N	EW-N	EXC-NW	TACO
Sample Depth	6 - 8'	6 - 8'	6 - 8'	6 - 8'	6 - 8'	6 - 8'	Cleanup
PID Reading (ppm)	9.1	26.3	15.1	11.7	32.9	11.0	Objectives
Arsenic	<0.577	<0.577	<0.577	<0.577	<0.577	<0.577	0.05
Barium	0.443	3.59	0.981	0.625	1.38	0.092	2.0
Cadmium	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	0.005
Chromium	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	0.1
Lead	<0.309	<0.309	<0.309	<0.309	<0.309	<0.309	0.0075
Selenium	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	0.05
Mercury	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.002

All results reported in mg/kg or parts per million (ppm)

**TACO 6-5-97 Final Order, Appendix B: Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties, Migration to Groundwater (GW) portion of the GW Ingestion Exposure Route Values, Class I GW.*

Hamilton Sundstrand
LUST Area
Polychlorinated Biphenyls (PCBs)

Sample Description	EXC-SW	WW-S	EW-S	WW-N	EW-N	EXC-NW
Sample Depth	6 - 8'	6 - 8'	6 - 8'	6 - 8'	6 - 8'	6 - 8'
PID Reading (ppm)	9.1	26.3	15.1	11.7	32.9	11.0
Aroclor 1016	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
Aroclor 1221	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
Aroclor 1232	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
Aroclor 1242	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
Aroclor 1248	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
Aroclor 1254	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
Aroclor 1260	<0.080	0.890	<0.080	<0.080	<0.080	<0.080

All results reported in mg/kg or parts per million (ppm)

**TACO 6-5-97 Final Order, Appendix B: Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties, Migration to Groundwater (GW) portion of the GW Ingestion Exposure Route Values, Class I GW.*

Hamilton Sundstrand
6,000 - Gallon UST
Volatiles by GC/MS

Sample Description	WB	EB	NW	WW	SW	TACO
Sample Depth	12'	12'	8-10'	8-10'	8-10'	Cleanup
PID Reading (ppm)	76.3	122	80.2	88.6	134	Objectives
1,1,1-Trichloroethane	0.034	0.0648	0.003	0.0086	0.0033	2
1,1,2-Trichloroethane	0.0047	0.0045	<0.0009	0.0013	<0.0009	0.02
1,1-Dichloroethene	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.06
1,2-Dichloroethane	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.02
1,2-Dichloropropane	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.03
Benzene	0.002	0.0026	0.0031	0.0029	0.0015	0.03
Bromodichloromethane	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	0.6
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	0.8
Carbon tetrachloride	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	0.07
Chloroform	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.6
cis-1,2-Dichloroethene	0.0662	0.0696	0.002	0.0096	0.0035	0.4
cis-1,3-Dichloropropene	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	0.004
Ethylbenzene	0.0022	0.0028	0.0029	0.002	<0.0014	13
Methylene chloride	<0.0027	<0.0027	<0.0027	<0.0027	0.0035	0.02
Styrene	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	4
Tetrachloroethene	**1.740**	**3.260**	0.0296	0.0562	0.0425	0.06
Toluene	0.0052	0.0075	0.0069	0.0061	0.0032	12
trans-1,2-Dichloroethene	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.7
trans-1,3-Dichloropropene	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.004
Trichloroethene	0.0396	0.0496	0.0011	0.0043	0.0014	0.06
Vinyl chloride	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.01
Xylenes, Total	0.0082	0.0089	0.0055	<0.005	<0.005	150

All results reported in mg/kg or parts per million (ppm)
Bold print signifies the exceedence of TACO cleanup objectives.
**TACO 6-5-97 Final Order, Appendix B: Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties, Migration to Groundwater (GW) portion of the GW Ingestion Exposure Route Values, Class I GW.*

Hamilton Sundstrand
6,000 - Gallon UST
Semivolatile Organic Compounds GC/MS

Sample Description	WB	EB	NW	WW	SW	TACO
Sample Depth	12'	12'	8 - 10'	8 - 10'	8 - 10'	Cleanup
PID Reading (ppm)	76.3	122	30.2	88.6	134	Objectives
1,2,4-Trichlorobenzene	<0.062	<0.300	<0.041	<0.041	<0.041	5
1,2-Dichlorobenzene	<0.049	<0.230	<0.033	<0.033	<0.033	17
1,4-Dichlorobenzene	<0.058	<0.280	<0.039	<0.039	<0.039	2
2,4,6-Trichlorophenol	<0.036	<0.180	<0.024	<0.024	<0.024	0.2
Acenaphthylene	<0.034	<0.160	<0.023	<0.023	<0.023	0.570
Anthracene	0.062	0.340	<0.016	<0.016	0.043	12,000
Benz(a) anthracene	0.320	1.100	<0.025	<0.025	0.032	2
Bmzo(a) pyrene	0.400	1.600	<0.031	<0.031	<0.045	8
Benzo(b) fluoranthene	<0.064	<0.310	<0.043	<0.043	<0.064	5
Benzo(g,h,i) perylene	0.330	1.700	<0.020	<0.020	<0.029	
Benzo (k) fluoranthene	<0.064	<0.310	<0.043	<0.043	<0.064	49
Bis(2-chloroethyl) ether	<0.059	<0.280	<0.040	<0.040	<0.040	0.0004
Bis(2-ethylhexyl) phthalate	0.140	0.290	<0.027	<0.027	0.073	3,600
Chrysene	0.360	1.100	<0.025	<0.025	0.071	160
Dibenz(a,h) anthracene	<0.039	<0.190	<0.026	<0.026	<0.039	2
Fluoranthene	0.420	2.100	<0.016	<0.016	0.077	4,300
Fluorene	<0.033	<0.160	<0.022	<0.022	<0.022	560
Hexachlorobenzene	<0.027	<0.130	<0.018	<0.018	<0.018	2
Hexachlorocyclopentadiene	<0.071	<0.340	<0.048	<0.048	<0.048	400
Indeno(1,2,3-cd) pyrene	0.270	0.990	<0.024	<0.024	<0.036	14
N-Nitrosodi-n-propylamine	<0.076	<0.370	<0.051	<0.051	<0.051	0.00005
N-Nitrosodiphenylamine	<0.092	<0.440	<0.062	<0.062	<0.062	1
Naphthalene	<0.050	<0.240	<0.033	<0.033	<0.033	84
Pentachlorophenol	<0.074	<0.360	<0.050	<0.050	<0.050	0.03
Phenanthrene	0.130	0.510	<0.022	<0.022	0.040	
Phenol	<0.045	<0.220	<0.030	<0.030	<0.030	100
Pyrene	0.520	2.300	<0.013	<0.013	0.082	4,200

All results reported in mg/kg or parts per million (ppm)

**TACO 6-5-97 Final Order, Appendix B: Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties, Migration to Groundwater (GW) portion of the GW Ingestion Exposure Route Values, Class I GW.*