**Modification actions taken after continuing obligations were applied. Refer to BOTW for further information.**

## GIS REGISTRY INFORMATION

| | | | |
|---|---|---|---|
| **SITE NAME:** | THILMANY - SOLVENT TANKS | | |
| **BRRTS #:** | 02-45-000484 | **FID # (**if appropriate**):** | |
| **COMMERCE # (**if appropriate**):** | | | |
| **CLOSURE DATE:** | 02/10/2005 | | |
| **STREET ADDRESS:** | 600 THILMANY ROAD | | |
| **CITY:** | KAUKAUNA | | |
| **SOURCE PROPERTY GPS COORDINATES** (meters in WTM91 projection)**:** | **X=** 659495 | **Y=** 424959 | |
| **CONTAMINATED MEDIA:** | Groundwater | Soil | Both X |
| **OFF-SOURCE GW CONTAMINATION >ES:** | Yes | X No | |
| **IF YES, STREET ADDRESS 1:** | | | |
| **GPS COORDINATES** (meters in WTM91 projection)**:** | **X=** | **Y=** | |
| **OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):** | Yes | X No | |
| **IF YES, STREET ADDRESS 1:** | | | |
| **GPS COORDINATES** (meters in WTM91 projection)**:** | **X=** | **Y=** | |
| **CONTAMINATION IN RIGHT OF WAY:** | Yes | X No | |

**DOCUMENTS NEEDED:**

| | |
|---|---|
| **Closure Letter, and any conditional closure letter issued** | X |
| **Copy of most recent deed, including legal description, for all affected properties** | X |
| **Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties** | X |
| **County Parcel ID number, *if used for county*, for all affected properties** | X |
| **Location Map** which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site. | X |
| **Detailed Site Map(s) for all affected properties,** showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs. | X |
| **Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)** | X |
| **Tables of Latest Soil Analytical Results (no shading or cross-hatching)** | X |
| **Isoconcentration map(s), *if required for site investigation (SI) (***8.5x14" if paper copy*)*.** The isoconcentration map should have flow direction and extent of groundwater contamination defined. **If not available, include the latest extent of contaminant plume map.** | X |
| **GW: Table of water level elevations, with sampling dates, and free product noted if present** | X |
| **GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)** | X |
| **SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour** | X |
| **Geologic cross-sections, *if required for SI.*** (8.5x14' if paper copy**)** | X |
| **RP certified statement that legal descriptions are complete and accurate** | X |
| **Copies of off-source notification letters (if applicable)** | NA |
| **Letter informing ROW owner of residual contamination (if applicable**)(public, highway or railroad ROW) | NA |
| **Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure*** | X |

**State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES**

WISCONSIN
DEPT. OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald W. Kaczmierczak, Regional Director

Oshkosh Service Center
625 East County Road Y, STE. 700
Oshkosh, WI 54901-9731
TELEPHONE 920-424-3050
FAX 920-424-4404

February 10, 2005

Tom Jayne
International Paper – Kaukauna Division
600 Thilmany Road
PO Box 600
Kaukauna, WI 54130

Subject: Final Case Closure By Closure Committee With Conditions Met
Thilmany – Solvent Tanks, 600 Thilmany Road, Kaukauna, Wisconsin
WDNR BRRTS # 02-45-000484

Dear Mr. Jayne:

On April 26, 2004, your request for closure of the case described above was reviewed by the Northeast Regional Closure Committee. The Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. On May 11, 2004, you were notified that the Closure Committee had granted conditional closure to this case.

On February 7, 2005 the Department received correspondence indicating that you have complied with the conditions of closure. An approved deed restriction was filed with Outagamie County Register of Deeds and all monitoring points have been abandoned. Please note that responsibility for maintenance of MW-104 has been transferred to WDNR ERP Case #: 02-45-000194, WDNR Case Name: Thilmany Pulp and Paper (a.k.a. Solvent Spill).

Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit http://dnr.wi.gov/org/aw/rr/gis/index.htm. If your property is listed on the GIS Registry due to groundwater contamination exceeding ch. NR 140 standards at the time of closure, and you intend to construct or reconstruct a well, you will need Department approval. Department approval is required before construction or reconstruction of a well on a property listed on the GIS Registry, in accordance with s. NR 812.09(4)(w). To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at the web address listed above.

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at the number below.

Sincerely,

Jennifer Borski

Jennifer Borski
Hydrogeologist
Bureau for Remediation & Redevelopment
(920) 424-7887

Electronic Copy: Mottl, STS

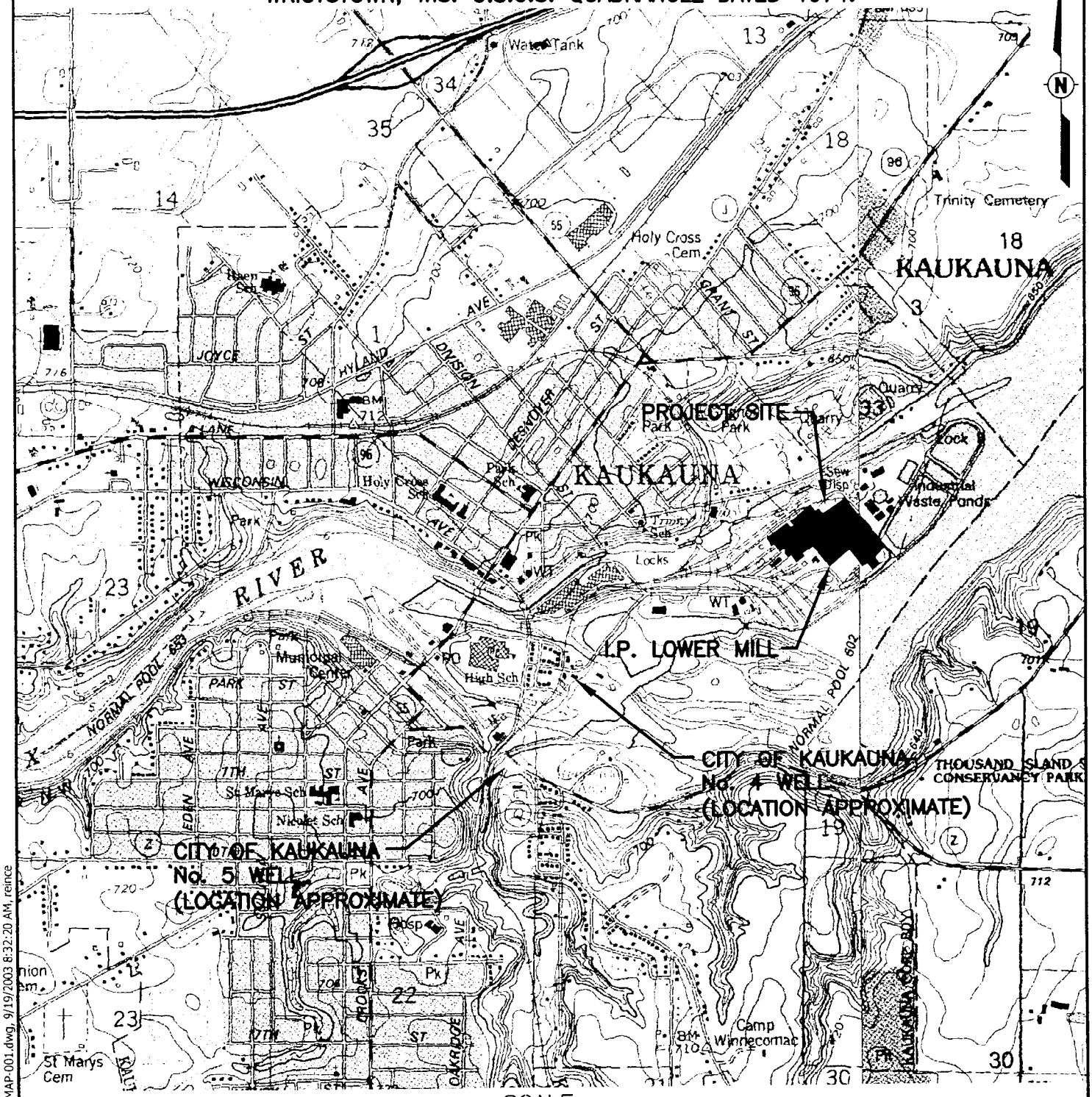
INTERNATIONAL PAPERS – KAUKAUNA DIVISION
SOLVENT TANKS SITE
SITE BOUNDARY DESCRIPTION

A parcel of land located in Private Claim 34, North Side Fox River, City of Kaukauna, Outagamie County, Wisconsin. Being more particularly described as follows:

Commencing at the intersection of the Southwest boundary of Private Claim 34 and the Northwest Right-of-Way of Thilmany Road; Thence along the Southwest boundary of Private Claim 34 N39°52'57"W, 1192.82 feet; Thence N52°18'54"E, 331.97 feet to the Point of Beginning; Thence N52°18'54"E, 99.79 feet; Thence S38°12'52"E, 35.92 feet; Thence N52°30'32"E, 71.67 feet; Thence S38°12'52"E, 24.47 feet; Thence N52°17'20"E, 193.10 feet; Thence N10°27'58"W, 12.09 feet; Thence 117.21 feet along the arc of a curve to the left with a radius of 146.45 feet and a chord bearing S89°45'49"W, 114.10 feet; Thence S65°30'57"W, 48.83 feet; Thence S58°33'01"W, 218.49 feet; Thence S21°59'15"E, 56.58 feet to the Point of Beginning. Said parcel contains 24,989.40 square feet or 0.5737 acres more or less.

WISCONSIN
LAND SURVEYOR

MAP SOURCE: MODIFIED FROM KAUKAUNA & WRIGHTSTOWN, WIS. U.S.G.S. QUADRANGLE DATED 1974.




SCALE

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

STS Consultants Ltd.
Consulting Engineers

SITE LOCATION MAP
INTERNATIONAL PAPERS–KAUKAUNA DIVISION
SOLVENT TANK SITE

| | | |
|---|---|---|
| DRAWN BY | JMR | 09/19/03 |
| CHECKED BY | RJM | 09/19/03 |
| APPROVED BY | | |
| CADFILE G459A001.dwg | SCALE AS SHOWN | |
| STS PROJECT NO. 27463 | FIGURE NO. 1 | |

X:\PROJECTS\Dwg2002\27463\G427463_SITE_LOCATION_MAP-001.dwg, 9/19/2003 8:32:20 AM, reince

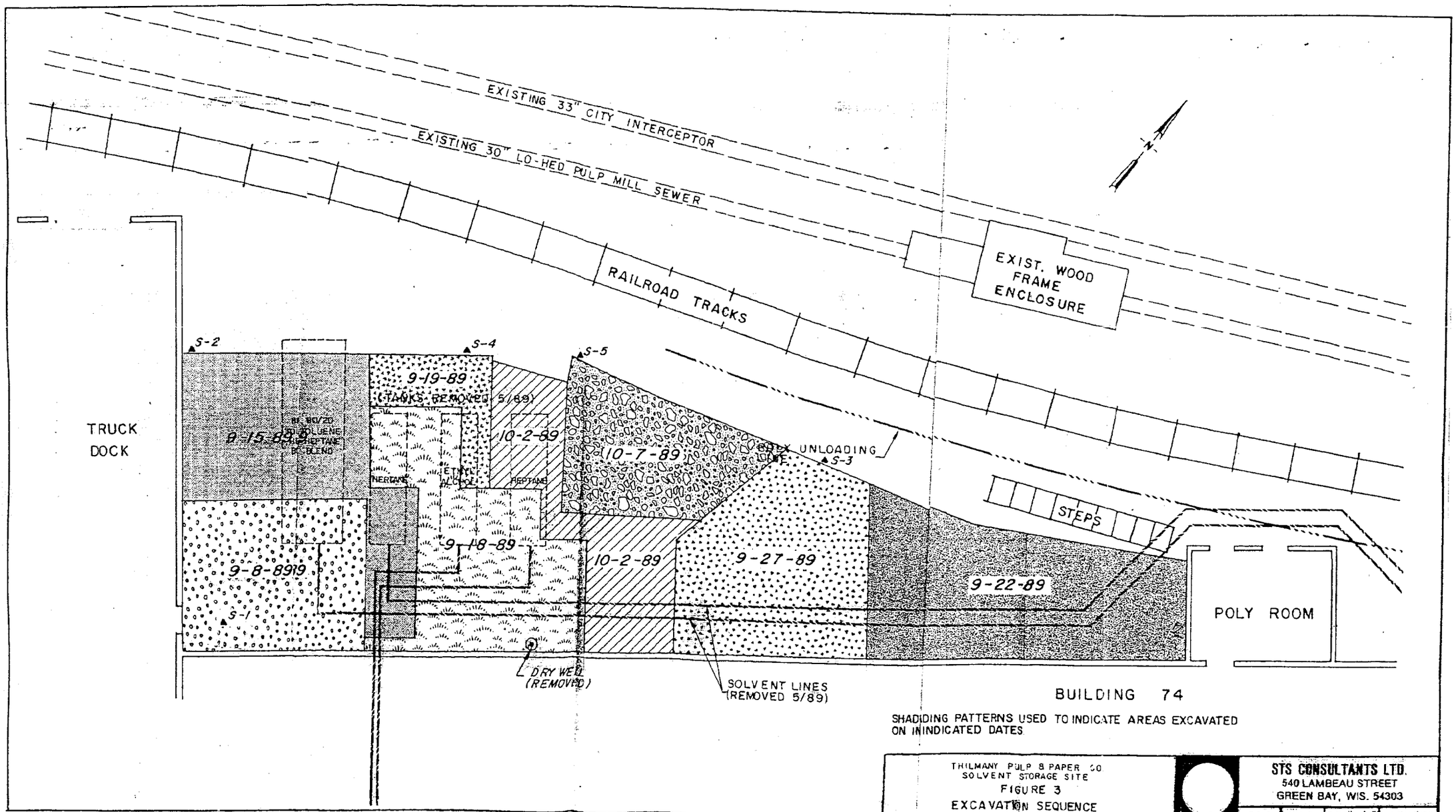

EXISTING 33" CITY INTERCEPTOR
EXISTING 30" LO-HED PULP MILL SEWER
RAILROAD TRACKS
EXIST. WOOD FRAME ENCLOSURE
TRUCK DOCK
S-2
S-4
S-5
S-3
S-1
9-19-89
(TANKS REMOVED 5/89)
9-15-89
80/20 TOLUENE HEPTANE BLEND
10-2-89
10-7-89
HEPTANE
ETHYL ALCOHOL
HEPTANE
9-18-89
9-8-8919
10-2-89
9-27-89
9-22-89
UNLOADING
STEPS
POLY ROOM
DRY WELL (REMOVED)
SOLVENT LINES (REMOVED 5/89)
BUILDING 74
SHADIDING PATTERNS USED TO INDICATE AREAS EXCAVATED ON ININDICATED DATES
THILMANY PULP & PAPER CO
SOLVENT STORAGE SITE
FIGURE 3
EXCAVATION SEQUENCE
STS CONSULTANTS LTD.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303
P.D.P.
M.A.B.
3/32"=1'0"
1716 XF

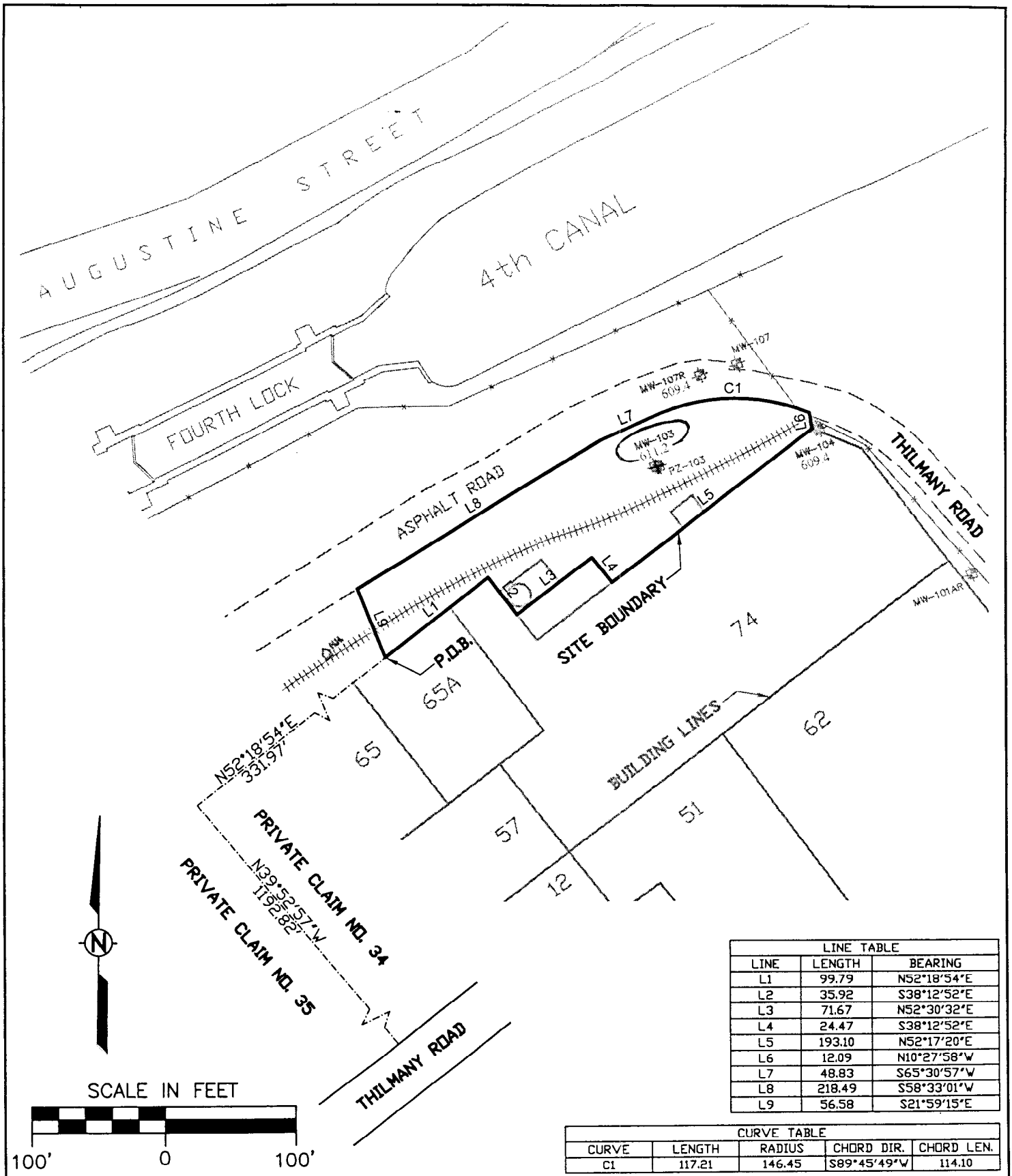
**TABLE 2**
**GROUNDWATER FIELD OBSERVATIONS ANALYTICAL RESULTS**
**SOLVENT TANK SITE**
**INTERNATIONAL PAPERS - KAUKAUNA DIVISION**
**KAUKAUNA, WISCONSIN**

| | Sump-1 (MW-1) | | | Sump-2 (MW-2) | | | Sump-3 (MW-3) | | | Sump-4 (MW-4) | | | MW-103 | | | | | | | PZ-103 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10/22/89 | 1/31/01 | 4/1/02 | 10/22/89 | 1/31/01 | 4/1/02 | 10/22/89 | 1/31/01 | 4/1/02 | 10/22/89 | 1/31/01 | 4/1/02 | 3/28/94 | 2/2/01 | 4/3/02 | 10/14/02 | 1/7/03 | 4/1/03 | 7/15/03 | 7/27/94 | 1/31/01 | 4/3/0 |
| | (abandoned 9-25-02) | | | (abandoned 9-25-02) | | | (abandoned 9-25-02) | | | (abandoned 9-25-02) | | | Well bottom (ft. bgs) - 6.9<br>Well bottom elevation (ft., MSL) - 607.3<br>Screen length (ft.) - 3.0 | | | | | | | (abandoned 9-28-02) | | |
| Groundwater Elevation (ft., MSL) | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 611.11 | 610.44 | 611.21 | 611.17 | – | – | – |
| Temperature (°C) | – | 14.5 | 13.8 | – | 8.3 | 6.3 | – | 9.3 | 10.8 | – | 10.8 | 10.6 | – | 13.7 | 14.4 | 19.7 | 16.0 | 15.3 | 23.9 | – | 16.1 | 16.0 |
| Specific Conductivity (um/cm) | – | 530 | 430 | – | 860 | 610 | – | 470 | 780 | – | 1180 | 1080 | – | 1560 | 1730 | 2210 | 2170 | 2080 | 2080 | – | 1610 | 1800 |
| pH (S.U.) | – | 9.5 | 8.1 | – | 7.1 | 6.4 | – | 7.5 | 6.5 | – | 7.3 | 6.7 | – | 7.0 | 6.3 | 6.9 | 6.6 | 6.7 | 6.6 | – | 7.4 | 6.5 |
| Iron (mg/l) | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 12 | 4.3 | 0.37 | 2.8 | – | – | – |
| Dissolved Oxygen (mg/l) | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2.17 | 1.57 | 1.77 | 1.89 | – | – | – |
| Benzene | 6.3 | <0.15 | <0.15 | 1.9 | <0.15 | <0.15 | 2.0 | <0.15 | <0.15 | 10.5 | <0.15 | <0.15 | 34.2 | 7.47 | 9.43 | 12.0 | 5.66 | 6.63 | 8.24 | <0.2 | <0.15 | <0.1 |
| Bromobenzene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <25.0 | <0.15 | <0.15 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.15 | <0.1 |
| Bromochloromethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <1.0* | <0.1 | <0.1 | NA | NA | NA |
| Bromodichloromethane | NA | <0.13 | <0.06 | NA | <0.13 | <0.06 | NA | <0.13 | <0.06 | NA | <0.13 | <0.06 | <25.0 | <0.06 | <0.06 | <0.1 | <0.1 | <0.1 | <0.1 | 2.1 | <0.06 | <0.0 |
| Bromoform | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.2 | <0.2 | <0.2 | NA | NA | NA |
| Bromomethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <1.0* | <0.1 | <0.1 | NA | NA | NA |
| n-Butylbenzene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <50 | <0.15 | <0.15 | <0.2 | <0.2 | <0.2 | <0.2 | <1.0 | <0.15 | <0.1 |
| sec-Butylbenzene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <50 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <1.0 | <0.15 | <0.1 |
| tert-Butylbenzene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <50 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <1.0 | <0.15 | <0.1 |
| Carbon Tetrachloride | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <25 | <0.15 | <0.15 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.15 | <0.1 |
| Chlorobenzene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <100 | <0.15 | <0.15 | <0.1 | <0.1 | <0.1 | <0.1 | <2.0 | <0.15 | <0.1 |
| Dibromochloromethane | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <0.1 | <0.1 | <0.1 | <0.1 | NA | <0.15 | <0.1 |
| Chloroethane | NA | <0.15 | <0.5 | NA | <0.15 | <0.5 | NA | <0.15 | <0.5 | NA | <0.15 | <0.5 | <100 | <0.5 | <0.5 | <0.6 | <6.0* | <0.6 | <0.6 | <2.0 | <0.5 | <0.5 |
| Chloroform | NA | <0.14 | <0.06 | NA | <0.14 | <0.06 | NA | <0.14 | <0.06 | NA | <0.14 | <0.06 | <25 | <0.06 | <0.06 | <0.1 | <1.0* | <0.1 | <0.1 | 5.0 | <0.06 | <0.0 |
| Chloromethane | NA | <0.15 | <0.17 | NA | <0.15 | <0.17 | NA | <0.15 | <0.17 | NA | <0.15 | <0.17 | <100 | <0.17 | <0.17 | <0.2 | <2.0* | <0.2 | <0.2 | <2.0 | <0.17 | <0.1 |
| 2-Chlorotoluene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <0.1 | <0.1 | <0.1 | <0.1 | <1.0 | <0.15 | <0.1 |
| 4-Chlorotoluene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <0.2 | <0.2 | <0.2 | <0.2 | <1.0 | <0.15 | <0.1 |
| Dibromochloropropane | NA | <0.25 | <0.25 | NA | <0.25 | <0.25 | NA | <0.25 | <0.25 | NA | <0.25 | <0.25 | NA | <0.25 | <0.25 | <0.3 | <0.3 | <0.3 | <0.3 | NA | <0.25 | <0.2 |
| 1,2-Dibromoethane | NA | <0.12 | <0.06 | NA | <0.12 | <0.06 | NA | <0.12 | <0.06 | NA | <0.12 | <0.06 | NA | <0.06 | <0.06 | <0.1 | <0.1 | <0.1 | <0.1 | <1.0 | <0.06 | <0.0 |
| Dibromomethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.1 | <0.1 | <0.1 | NA | NA | NA |
| 1,2-Dichlorobenzene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <50 | <0.15 | <0.15 | <0.2 | <0.2 | <0.2 | <0.2 | <1.0 | <0.15 | <0.1 |
| 1,3-Dichlorobenzene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <50 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <1.0 | <0.15 | <0.1 |
| 1,4-Dichlorobenzene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <25 | 0.283 | <0.15 | 0.265 | 0.287 | 0.235 | <0.15 | <1.0 | 0.213 | <0.1 |
| Dichlorodifluoromethane | NA | <0.25 | <0.15 | NA | <0.25 | <0.15 | NA | <0.25 | <0.15 | NA | <0.25 | <0.15 | <100 | <0.15 | <0.15 | <0.1 | <1.0* | <0.1 | <0.1 | <2.0 | <0.15 | <0.1 |
| 1,1-Dichloroethane | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <25 | <0.15 | <0.15 | <0.1 | <1.0* | <0.1 | <0.1 | <0.5 | 0.29 | 0.19 |
| 1,2-Dichloroethane | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <25 | <0.15 | <0.15 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.15 | <0.1 |
| 1,1-Dichloroethene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <20 | <0.15 | <0.15 | <0.1 | <1.0* | <0.1 | <0.1 | <0.4 | <0.15 | <0.1 |
| is 1,2-Dichloroethene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <25 | <0.15 | <0.15 | <0.1 | <1.0* | <0.1 | <0.1 | <0.5 | <0.15 | <0.1 |
| rans 1,2-Dichloroethene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <25 | <0.15 | <0.15 | <0.1 | <1.0* | <0.1 | <0.1 | <0.5 | <0.15 | <0.1 |
| ,2-Dichloropropane | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <25 | <0.15 | <0.15 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.15 | <0.1 |
| ,3-Dichloropropane | NA | <0.2 | <0.15 | NA | <0.2 | <0.15 | NA | <0.2 | <0.15 | NA | <0.2 | <0.15 | <25 | <0.15 | <0.15 | <0.1 | <0.1 | <0.1 | <0.1 | <0.5 | <0.15 | <0.1 |
| 2,2-Dichloropropane | NA | <0.15 | <0.15 | NA | <0 15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <100 | <0.15 | <0.15 | <0.1 | <1.0* | <0.1 | <0.1 | <2.0 | <0.15 | <0.1 |
| ,1-Dichloropropene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.2 | <0.2 | <0.2 | NA | NA | NA |
| is-1,3-Dichloropropene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.1 | <0.1 | <0.1 | NA | NA | NA |
| rans-1,3-Dichloropropene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.1 | <0.1 | <0.1 | NA | NA | NA |
| thylbenzene | 0.5 | <0.5 | <0.15 | ND | <0.5 | <0.15 | ND | <0.5 | <0.15 | ND | <0.5 | <0.15 | <50 | <0.15 | <0.15 | <0.1 | <0.1 | <0.1 | <0.1 | <1.0 | <0.15 | <0.1 |
| lexachlorobutadiene | NA | <1.0 | <1.0 | NA | <1.0 | <1.0 | NA | <1.0 | <1.0 | NA | <1.0 | <1.0 | <50 | <1.0 | <1.0 | <1.0 | <1.0* | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| sopropylbenzene | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | NA | <0.15 | <0.15 | <50 | <0.15 | <0.15 | <0.1 | <0.1 | <0.1 | <0.1 | <1.0 | <0.15 | <0.1 |
| sopropyl Ether | NA | <0.25 | NA | NA | <0.25 | NA | NA | <0.25 | NA | NA | <0.25 | NA | NA | NA | NA | NA | NA | NA | NA | <1.0 | NA | NA |
| -Isopropyltoluene | NA | <0.3 | NA | NA | <0.3 | NA | NA | <0.3 | NA | NA | <0.3 | NA | NA | NA | NA | NA | NA | NA | NA | <1.0 | NA | NA |

# TABLE 1
## 1989 POST-REMEDIATION SOIL FIELD OBSERVATIONS AND ANALYTICAL RESULTS
## SOLVENT TANK SITE
## INTERNATIONAL PAPERS - KAUKAUNA DIVISION
## KAUKAUNA, WISCONSIN

| Sample No. | Sample Date | Description | PID | Benzene mg/kg | Toluene mg/kg | Ethylbenzene mg/kg | Xylenes mg/kg | Heptane mg/kg |
|---|---|---|---|---|---|---|---|---|
| S-1 | 9/8/1989 | Brown Fine to Medium Sand | ND | NA | <0.5 | NA | NA | NA |
| S-2 | 9/15/1989 | Brown Sand and Gravel | ND | <0.2 | <0.5 | <0.3 | <0.4 | NA |
| S-3 | 9/27/1989 | Brown Hardpan | 400 | <0.2 | 340 | <0.3 | 0.5 | 139 |
| S-4 | 9/19/1989 | Brown Fine Sand | ND | NA | NA | NA | NA | NA |
| S-5 | 10/7/1989 | Black Clay & Hardpan | 200 | NA | NA | NA | NA | NA |
| CS-1 | 9/15/1989 | Silty Sand & Gravel | 2 - 3 | <0.2 | 0.7 | <0.3 | <0.4 | NA |
| CS-2 | 9/18/1989 | Brown Fine Sand, Trace Gravel | 3 - 4 | <0.2 | <0.5 | <0.3 | <0.4 | NA |
| CS-3 | 9/21/1989 | Brown Fine to Coarse Sand, Trace Gravel | ND | <0.2 | 0.6 | <0.3 | <0.4 | NA |
| CS-4 | 9/26/1989 | Brown Silty Sand, Clay, Hardpan | ND | <0.2 | 1.1 | <0.3 | 1.4 | NA |
| CS-5 | 10/2/1989 | Brown Silty Sand & Gravel | 3 - 5 | <0.2 | 7.3 | <0.03 | 0.02 | NA |
| CS-6 | 10/6/1989 | Brown Silty Sand, Clay & Gravel | 3 - 5 | <0.02 | 6.0 | <0.03 | <0.04 | <3.0 |
| CS-7 | 10/12/1989 | Black Clay & Sandy Silt | 3 - 6 | 0.11 | 10.3 | <0.03 | 0.56 | 3.6 |
| MW-103 S-3 (2.5 - 4.0ft) | 3/28/1994 | -- | 34 | ND | 0.06 | ND | ND | NA |
| MW-103 S-4 (5.0 - 6.5ft) | 3/28/1994 | -- | 430 | ND | 177 | ND | ND | NA |
| MW-104 S-4 (7.5 - 7.8ft) | 3/28/1994 | -- | <1 | ND | 1.05 | ND | ND | NA |
| MW-105 S-3 (5.0 - 6.5ft) | 3/28/1994 | -- | <1 | ND | 0.39 | ND | ND | NA |
| WAC NR 720.09 Groundwater Pathway Generic RCL | | | | 0.0055 | 1.5 | 2.9 | 4.1 | -- |
| WAC NR 720.11 Direct Contact Generic RCL | | | | -- | -- | -- | -- | -- |
| WAC NR 746 Table 1 Soil Screening Values | | | | 8.5 | 38 | 4.6 | 42 | -- |
| WAC NR 746 Table 2 Direct Contact Values | | | | 1.1 | -- | -- | -- | -- |
| Site Specific RCL - Non Industrial Ingestion | | | | -- | 3130 | -- | -- | -- |
| Site Specific RCL - Non Industrial Inhalation | | | | -- | 600 | -- | -- | -- |

NOTES:
Data from samples S-1 thru CS-7 obtained from Table 1 in STS November 24, 1989 Report.
"S" Samples collected from excavation perimeter.
"CS" Samples are composite samples collected from treated backfill.
Data from samples MW-103, 105, and 104 obtained from STS May 1994 report.
ND = Reading on PID was less than 1 PID unit or Compound Not Detected with chemical analysis
NA = Sample not analyzed
There are no NR 700 RCLs for Heptane
There were no EPA Soil Screening Levels for Heptane found in the EPA Soil Screening Guidance, 1996 or in EPA Region 9 Preliminary Remediation Goal Tables.
Site specific RCLs for toluene were calculated from EPA Website, "Soil Screening Guidance for Chemicals," (http://risk.lsd.ornl.gov-cgi-bin/epa/ssl2.cgi)
WAC = Wisconsin Administrative Code




| LINE TABLE | | |
|---|---|---|
| LINE | LENGTH | BEARING |
| L1 | 99.79 | N52°18'54"E |
| L2 | 35.92 | S38°12'52"E |
| L3 | 71.67 | N52°30'32"E |
| L4 | 24.47 | S38°12'52"E |
| L5 | 193.10 | N52°17'20"E |
| L6 | 12.09 | N10°27'58"W |
| L7 | 48.83 | S65°30'57"W |
| L8 | 218.49 | S58°33'01"W |
| L9 | 56.58 | S21°59'15"E |

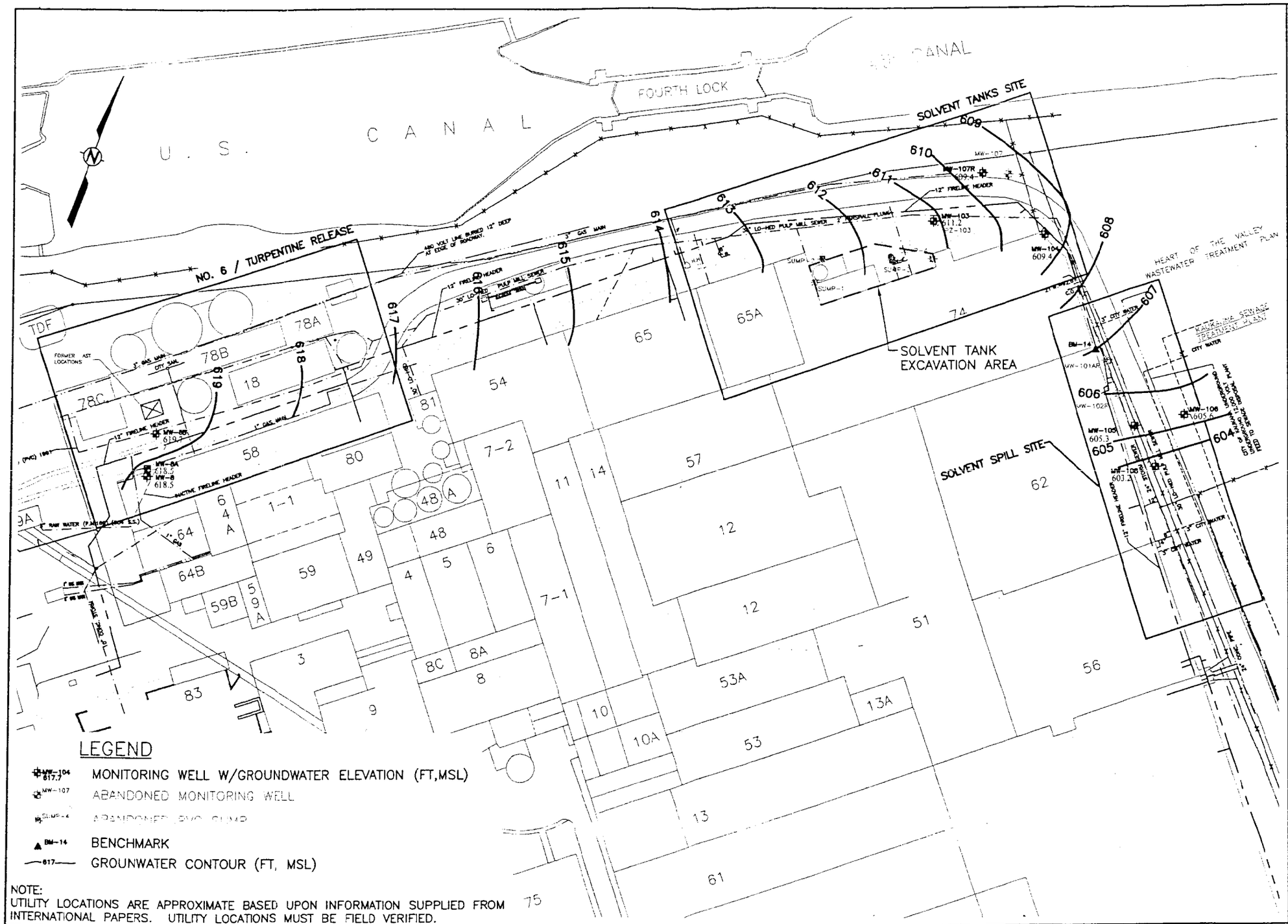
| CURVE TABLE | | | | |
|---|---|---|---|---|
| CURVE | LENGTH | RADIUS | CHORD DIR. | CHORD LEN. |
| C1 | 117.21 | 146.45 | S89°45'49"W | 114.10 |

STS CONSULTANTS
1035 Kepler Drive
Green Bay, WI 54311
920-468-1978
www.stsconsultants.com
Copyright ©2004, By: STS Consultants, Ltd.

INTERNATIONAL PAPER - KAUKAUNA DIVISION
KAUKAUNA, WISCONSIN
SOLVENT TANKS SITE
SITE BOUNDARY DESCRIPTION

| | | |
|---|---|---|
| Drawn: | CDH | 03/18/2004 |
| Checked: | MJO | 03/19/2004 |
| Approved: | RJM | 03/19/2004 |
| PROJECT NUMBER | 427463 | |
| FIGURE NUMBER | 1 | |

X:\PROJECTS\427463\dwg\G427463-SOLVENT_TANK_SITE_DEED_RJSTR.dwg, Layout1, 03/19/2004 08:34:13 AM, hansen, \\04main\04GBHP5000W




NOTE:
UTILITY LOCATIONS ARE APPROXIMATE BASED UPON INFORMATION SUPPLIED FROM INTERNATIONAL PAPERS. UTILITY LOCATIONS MUST BE FIELD VERIFIED.

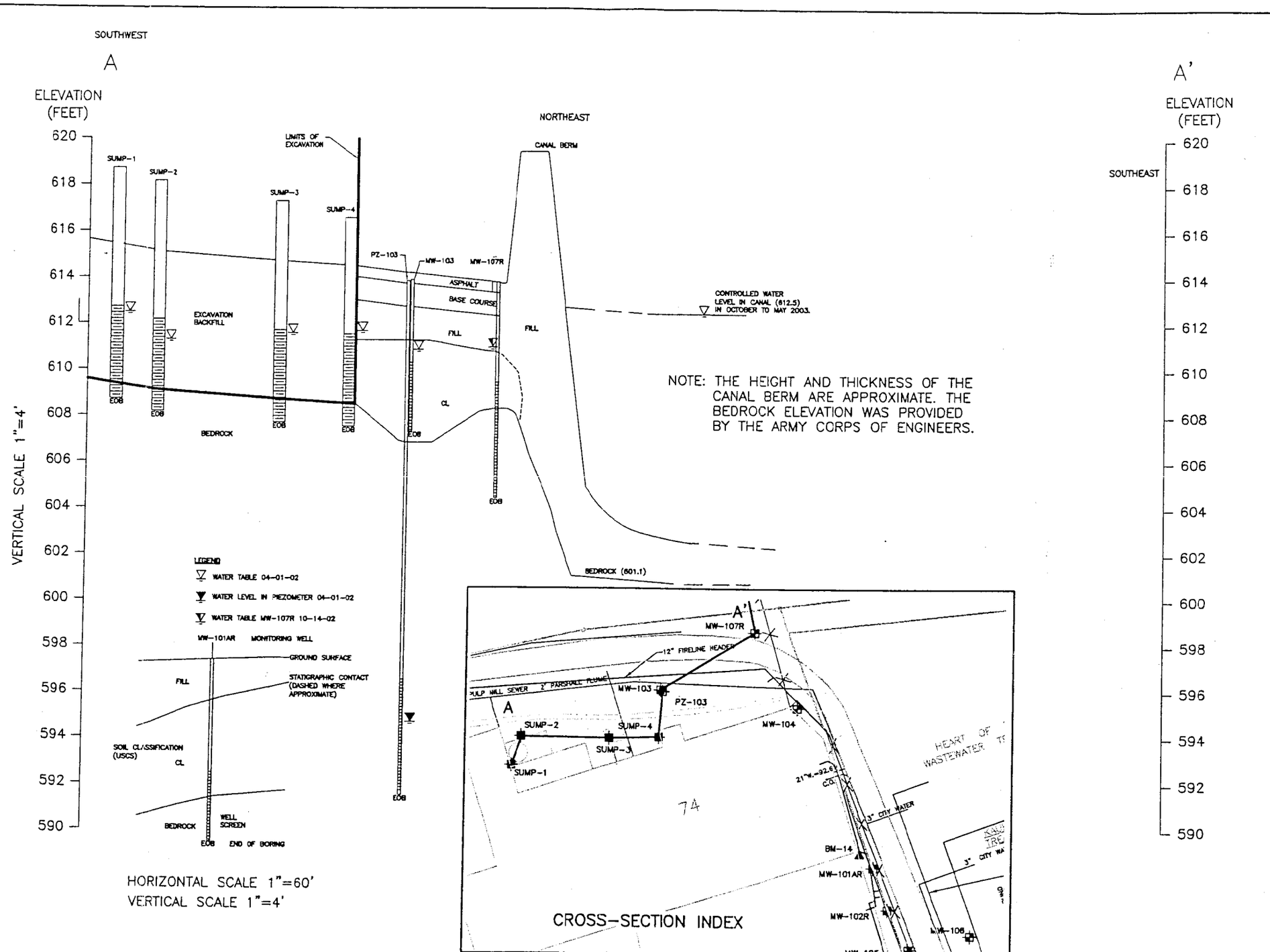
| | | |
|---|---|---|
| DESIGNED BY | | DATE |
| DRAWN BY | RLD | DATE 10-15-03 |
| APPROVED BY | PLE | DATE 10-15-03 |
| CADFILE | | |
| XREF | | |

ENVIRONMENTAL RELEASE SITES
INTERNATIONAL PAPERS–THILMANY DIVISION
KAUKAUNA, WISCONSIN
SITE LOCATION
AND GROUNDWATER MAP (4-1-03)

STS Consultants Ltd.
Consulting Engineers
1035 Kepler Dr.
Green Bay, WI 54311
920.468.1978

STS PROJECT NO. 27463
STS PROJECT FILE
SCALE 1"=100'
FIGURE NO. 2

X:\PROJECTS\Dwg2002\27463\dwg\G427463002.dwg, 11x17 BASE, 10/15/2003 02:08:13 PM, lemmens




| | | |
|---|---|---|
| DESIGNED BY | | DATE |
| DRAWN BY | JMR | DATE 09/18/03 |
| APPROVED BY | RJM | DATE 09/18/03 |
| CADFILE | | |
| XREF | | |

SOLVENT TANK SITE
INTERNATIONAL PAPERS-THILMANY DIVISION
KAUKAUNA, WISCONSIN
CROSS-SECTION

STS Consultants Ltd.
Consulting Engineers
1035 Kepler Dr.
Green Bay, WI 54311
920.468.1978

STS PROJECT NO.
27463

STS PROJECT FILE

SCALE
SEE SCALE

FIGURE NO.

:\PROJECTS\Dwg2002\27463dwg\G427463004.dwg, Layout1, 11/25/2003 11:06:19 AM, lemmens

STATEMENT OF PROPERTY LEGAL DESCRIPTION

As required by s.NR726.05(3) of the Wisconsin Administrative Code, I am providing this signed statement that to the best of my knowledge the legal descriptions that are attached to this statement are complete and accurate for the International Paper - Kaukauna Division, property located at 600 Thilmany Road, Kaukauna, Wisconsin.

Thomas G. Jayne  Date 12/18/03
(Signature)

THOMAS G. JAYNE
(Name)

MGR. ENV. SERVICES
(Title)

INTERNATIONAL PAPER CO. - KAUKAUNA FACILITY
(Company)

22001

1638285

Document Number

DEED RESTRICTION

OUTAGAMIE COUNTY
RECEIVED FOR RECORD

NOV - 4 2004

AT 1:45 O'CLOCK ~~A.M.~~ P.M.
JANICE FLENZ
REGISTER OF DEEDS

Recording Area

Name and Return Address
TOM JAYNE
INTERNATIONAL PAPER CO.
600 THILMANY ROAD
KAUKAUNA, WI. 54130-0600

ENVELOPE

pd 23.00

Declaration of Restrictions
IN RE:
Lot F, according to the recorded Subdivision of Private Claim 34, in the City of Kaukauna, Outagamie County, Wisconsin, Less and excepting therefrom those parcels described in Vol. 514,Records, Page 253 and Vol. 1040 Records, Page 640, Outagamie County Register of Deeds office.

STATE OF WISCONSIN )
) ss
COUNTY OF OUTAGAMIE )

WHEREAS, International Papers – Kaukauna Division is the owner of the above-described property.

Tax Parcel No. 32-2-0740-00

WHEREAS, discharges of toluene and heptane have occurred on this property, and as of September 1989 when soil samples were collected on this property, toluene and heptane contaminated soil remained on this property at the following location: former soil sample, S-3 (See Exhibit B - Figure 3, Excavation Sequence)

WHEREAS, it is the desire and intention of the property owner to impose on the following identified portion of the above-described property restrictions which will make it unnecessary to conduct further soil remediation activities on the property at the present time:

A parcel of land located in Private Claim 34, north side Fox River, City of Kaukauna, Outagamie County, Wisconsin. Being more particularly described as follows: Commencing at the intersection of the southwest boundary of Private Claim 34 and the northwest right-of-way of Thilmany Road; thence along the southwest boundary of Private Claim 34 N39°52'57"W, 1192.82 feet; thence N52°18'54"E, 331.97 feet to the point of beginning; thence N52°18'54"E, 99.79 feet; thence S38°12'52"E, 35.92 feet; thence N52°30'32"E, 71.67 feet; thence S38°12'52"E, 24.47 feet; thence N52°17'20"E, 193.10 feet; thence N10°27'58"W, 12.09 feet; thence 117.21 feet along the arc of a curve to the left with a radius of 146.45 feet and a chord bearing S89°45'49"W, 114.10 feet; thence S65°30'57"W, 48.83 feet; thence S58°33'01"W, 218.49 feet; thence S21°59'15"E, 56.58 feet to the point of beginning. Said parcel contains 24,989.40 square feet or 0.5737 acres more or less. (See Exhibit A – Figure 1, Site Boundary Description). Wisconsin Transverse Mercater '91 coordinates, x=659495, y=424959

NOW THEREFORE, the owner hereby declares that the 0.5737 acre portion of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions :

Structural impediments existing at the time of clean-up (railroad tracks, utilities and pavement) made complete investigation and remediation of the soil contamination on the 0.5737 acre portion of this property impracticable. If the structural impediments on this property that are described above are removed, the property owner shall conduct an investigation of the degree and extent of toluene and heptane contamination. To the extent that contamination is found at that time, the Wisconsin Department of Natural Resources shall be immediately notified and the contamination shall be properly remediated in accordance with applicable statutes and rules. If currently inaccessible soil near or beneath the structural impediments on the property is excavated in the future, the soil must be sampled and analyzed, may be considered solid or hazardous waste if residual contamination remains and must be stored, treated and disposed in compliance with applicable statutes and rules.

The paved surfaces that existed on the above-described 0.5737 acre portion of the property on the date that this restriction was signed form a barrier that must be maintained in order to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. These structures are also required in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code. The paved surfaces shall be maintained on the above-described 0.5737 acre portion of the property in the locations shown on the attached map, labeled "Site Boundary Description" unless another barrier, with an infiltration rate of $10^{-7}$ cm/sec or less, is installed and maintained in their place. The existing structures, and any replacement barrier with an infiltration rate of $10^{-7}$ cm/sec or less, shall be maintained on the above-described 0.5737 acre portion of the property in compliance with the "Inspection and Maintenance Plan" dated July 7, 2004 that was submitted to the Wisconsin Department of Natural Resources by International Paper, as required by section NR 724.13(2), Wis. Adm. Code (1997). (See Exhibit C – Inspection and Maintenance Plan)

In addition, the following activities are prohibited on any portion of the above-described 0.5737 acre portion of the property where an impervious cap has been placed or where impervious surfaces exist, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources or its successor or assign: (1) Excavating or grading of the land surface; (2) Filling on capped areas and areas with impervious surfaces; (3) Plowing for agricultural cultivation; and (4) Construction or installation of a building or other structure with a foundation that would sit on or be placed within the cap or impervious surface.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction inures to the benefit of and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded by the property owner or other interested party to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

By signing this document, Michael J Lutz asserts that he or she is duly authorized to sign this document on behalf of International Paper – Kaukauna Division.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 3rd day of November, 2004.

Signature: Michael J Lutz
Printed Name: Michael J Lutz
Title: Mill Manager

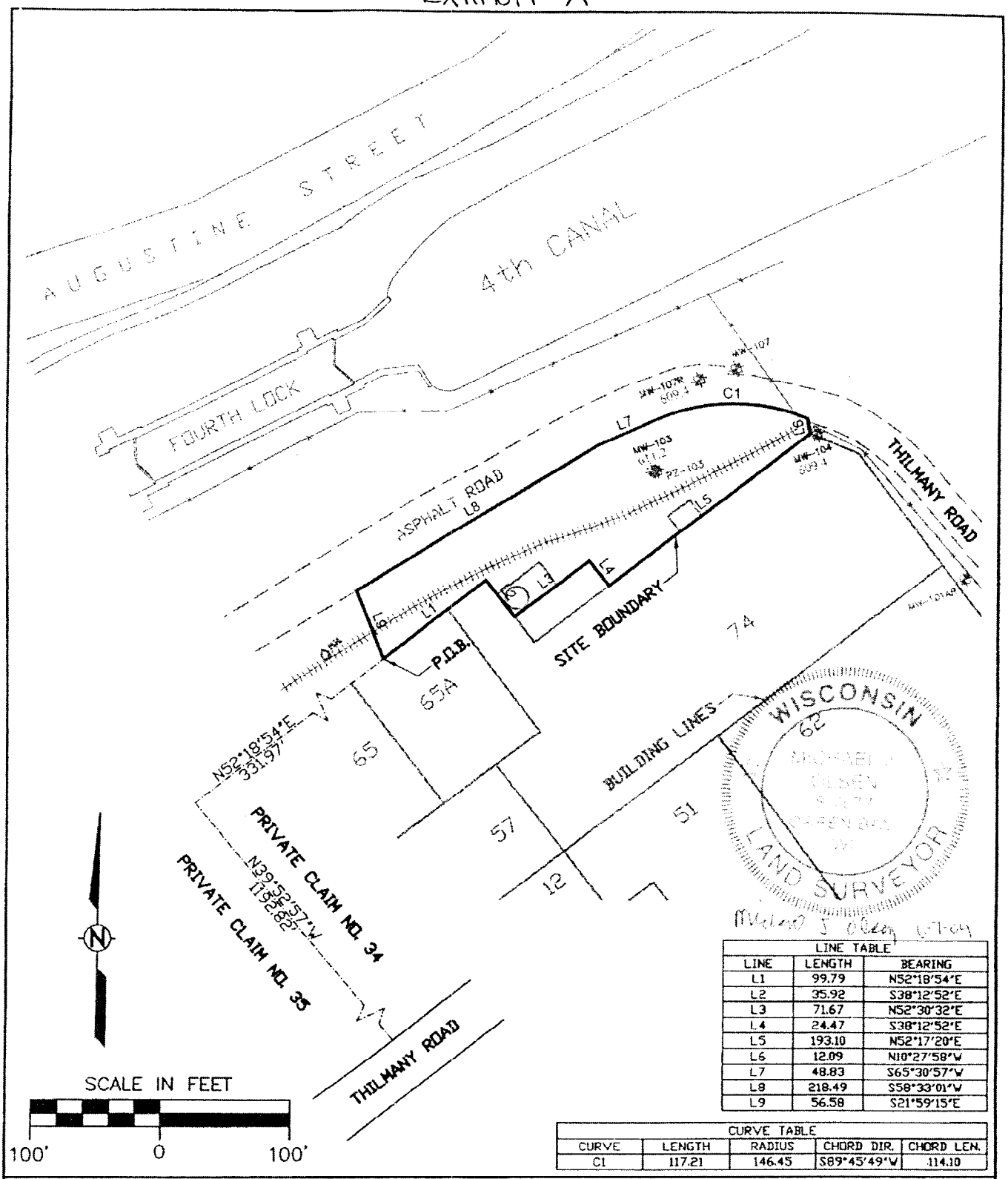
Subscribed and sworn to before me
this 3rd day of November, 2004.

Thomas J Lamers
Notary Public, State of Wisconsin
My commission expires April 1, 2007

THOMAS J. LAMERS NOTARY PUBLIC STATE OF WISCONSIN

This document was drafted by the Wisconsin Department of Natural Resources based on information provided by STS Consultants, Ltd.

Exhibit A




| LINE TABLE | | |
|---|---|---|
| LINE | LENGTH | BEARING |
| L1 | 99.79 | N52°18'54"E |
| L2 | 35.92 | S38°12'52"E |
| L3 | 71.67 | N52°30'32"E |
| L4 | 24.47 | S38°12'52"E |
| L5 | 193.10 | N52°17'20"E |
| L6 | 12.09 | N10°27'58"W |
| L7 | 48.83 | S65°30'57"W |
| L8 | 218.49 | S58°33'01"W |
| L9 | 56.58 | S21°59'15"E |

| CURVE TABLE | | | | |
|---|---|---|---|---|
| CURVE | LENGTH | RADIUS | CHORD DIR. | CHORD LEN. |
| C1 | 117.21 | 146.45 | S89°45'49"W | 114.10 |

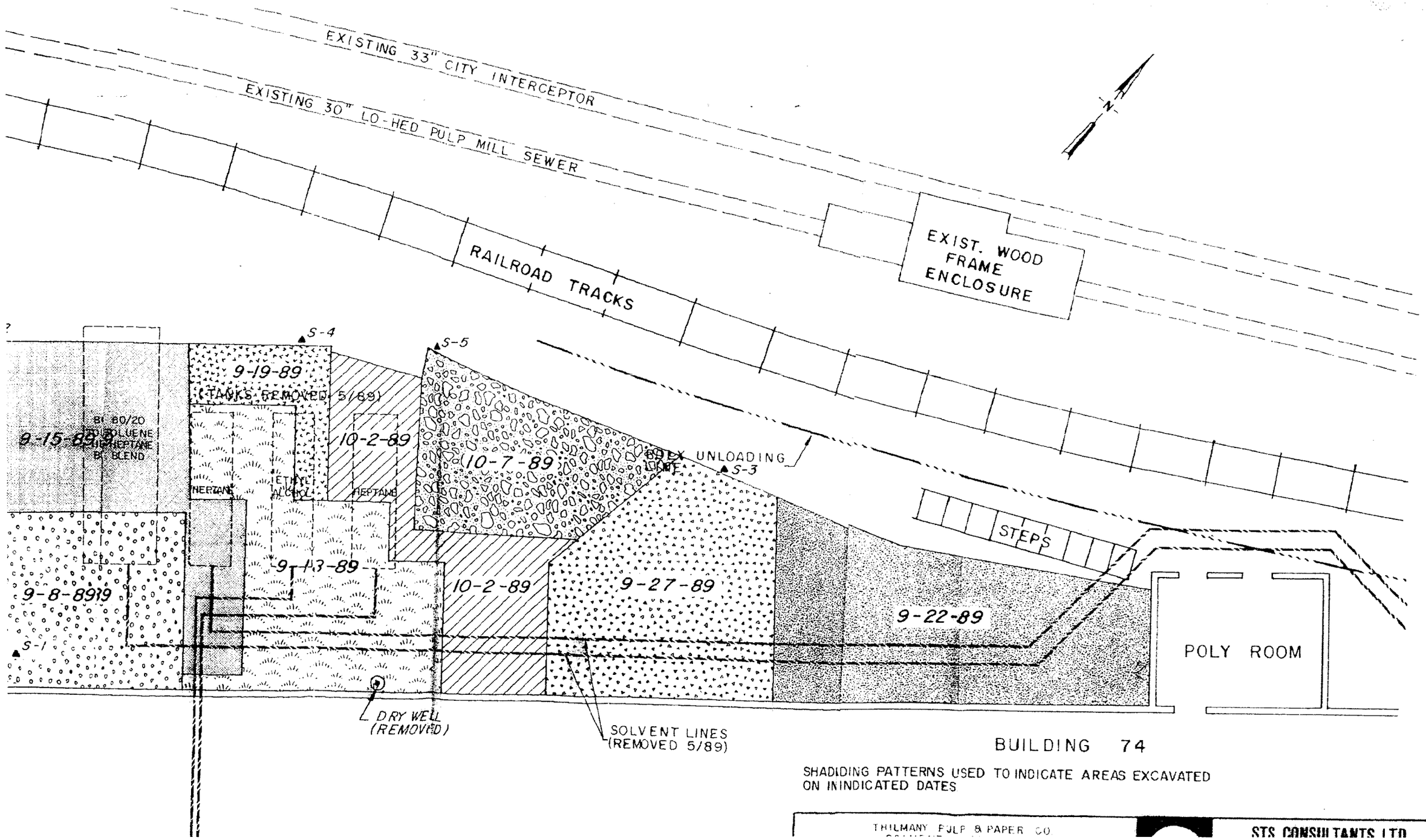

STS CONSULTANTS
1035 Kepler Drive
Green Bay, WI 54311
920-468-1978
www.stsconsultants.com

Copyright ©2004, By: STS Consultants, Ltd.

INTERNATIONAL PAPER - KAUKAUNA DIVISION
KAUKAUNA, WISCONSIN
SOLVENT TANKS SITE
SITE BOUNDARY DESCRIPTION

| | | |
|---|---|---|
| Drawn: | CDH | 03/18/2004 |
| Checked: | MJO | 03/19/2004 |
| Approved: | RJM | 03/19/2004 |
| PROJECT NUMBER | 427463 | |
| FIGURE NUMBER | 1 | |

X:\PROJECTS\427463\dwg\G427463-SOLVENT_TANK_SITE_DEED_RISTR.dwg, Layout1, 03/19/2004 08:41:13 AM, hansen, \\04mail\04GBHP5000W




BUILDING 74

SHADIDING PATTERNS USED TO INDICATE AREAS EXCAVATED ON ININDICATED DATES

THILMANY PULP & PAPER CO

STS CONSULTANTS LTD

Exhibit B

Exhibit C

**INSPECTION AND MAINTENANCE PLAN**
**SOLVENT TANK SITE**
**INTERNATIONAL PAPER - KAUKAUNA DIVISION**
**KAUKAUNA, WISCONSIN**
**JULY 7, 2004**
**WDNR BRRTS No. 02-45-000484**

An asphalt cover is in place as a remedial action to address residual toluene contamination in soils within the IP - Solvent Tank Site area indicated on the Site Boundary Description.

**The following planned activities are prohibited** (without the written consent of the WDNR):

- Excavating or grading of the asphalt surface,
- Filling on the capped area,
- Plowing for agricultural cultivation, and
- Construction or installation of a building or other structure with a foundation that would sit or be placed within the covered area.

If any of these activities are planned, written approval must be received from the Wisconsin Department of Natural Resources prior to start of the proposed activity.

There may be **unplanned or emergency circumstances** which may necessitate the excavation or removal of a section of the cap in a short time frame where WDNR notification is not practical, such as in the case of a failed, buried utility line requiring repair. In these unplanned or emergency circumstances, IP would excavate soil, expose the utility line, conduct the repair, replace the section of removed cap, and notify the WDNR within a reasonable amount of time. If excavated soil exhibited obvious field impacts such as toluene odor or staining, the soil would be handled, staged, and ultimately disposed of as a waste. If it did not exhibit obvious field impacts, the soil would be re-used as backfill. Soil disposition would be reported to the WDNR as well. The WDNR BRRTS No. (02-45-000484) would be included with the submittal.

The existing cover will be inspected according to the following schedule:

- Annually in July.

Written records of inspections will be maintained by the International Paper - Kaukauna, Kaukauna, Wisconsin. The inspections will consist of visual observations to confirm the following:

- That the asphalt pavement integrity is maintained,
- Erosion is not occurring, and
- No filling has occurred.

Deficiencies in the cover will be addressed within one month of discovery.