

GIS REGISTRY INFORMATION

SITE NAME: Brookfield City Public Works Bldg - Asst
BRRTS #: 02-68-391655 **FID # (if appropriate):** 268311230
COMMERCE # (if appropriate): _____
CLOSURE DATE: 1/6/04
STREET ADDRESS: 1945C Riverside Dr.
CITY: Brookfield

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 670303 Y= 290422

CONTAMINATED MEDIA: Groundwater Soil Both

OFF-SOURCE GW CONTAMINATION >ES: Yes 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 No

IF YES, STREET ADDRESS 1: _____

GPS COORDINATES (meters in WTM91 projection): X= _____ Y= _____

CONTAMINATION IN RIGHT OF WAY: Yes No

DOCUMENTS NEEDED:

- Closure Letter, and any conditional closure letter issued
- Copy of most recent deed, including legal description, for all affected properties
- Certified survey map or relevant portion of the recorded plat map (if referenced in the legal description) for all affected properties
- County Parcel ID number, if used for county, for all affected properties
- 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.
- 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.
- Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)
- Tables of Latest Soil Analytical Results (no shading or cross-hatching)
- 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.
- GW: Table of water level elevations, with sampling dates, and free product noted if present
- GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)
- SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour
- Geologic cross-sections, if required for SI. (8.5x14" if paper copy)
- RP certified statement that legal descriptions are complete and accurate
- Copies of off-source notification letters (if applicable)
- Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)
- Copy of (soil or land use) deed restriction(s) or deed notice if any required as a condition of closure



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Waukesha Service Center
141 NW Barstow St
Waukesha, Wisconsin 53188
Telephone 262-574-2100
FAX 262-574-2117

January 6, 2004

City of Brookfield
Tom Grisa
2000 North Calhoun Rd.
Brookfield, WI 53005

WDNR BRRTS #: 02-68-391655
WDNR FID # 268311230

SUBJECT: Case Closure
City of Brookfield Public Works Building-Hoist
19450 Riverview Dr.
Brookfield, WI

Dear Mr. Grisa:

On December 3, 2003 a closure request was received for your site as described above and was reviewed for closure by the Department of Natural Resources (Department). The Department reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases.

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. This closure is only for the area in the immediate vicinity where the hoist was removed. There are three additional separate activity numbers for the site that must be investigated and reviewed for closure.

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://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>

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 262-574-2146.

Sincerely,

Mark Drews, P.G., CHMM
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: David Henderson, Sigma Environmental, 1300 West Canal St., Milwaukee, WI. 53233
SER File

City of Brookfield - Hoist site 02-68-391655
GIS PKT

Checklist of Documents for GIS Registry Packet

Complete
mws
12/22/03

WI DNR, Bureau for Remediation and Redevelopment, PUB-RR-688

(Include with closure request – please assemble in this order. *This checklist applies to closure requests for sites with groundwater exceeding ch. NR 140 standards and/or soil contamination exceeding ch. NR 720 generic or site specific residual contaminant levels (RCLs).*)

- One-time fee of \$250.00 for groundwater, and/or
- \$200 for soil, for each case closed, for maintenance of the registry.

- Copies of the most recent deed including legal descriptions, for all properties within or partially within the contaminated site boundaries. (Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.)
- A copy of the certified surveyed map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot2 of xyz subdivision))
- Parcel identification number for each property, if the county in which the property is located uses parcel identification numbers. 1074-999
- Geographic position of all properties within or partially within the contaminated site boundaries. The coordinates need to be for a spot located at least 40 feet inside the property boundary. Refer to NR 716.15(2)(d)7, and (k). The coordinates must be in WTM91 projection. See the following WDNR website address for assistance: www.dnr.state.wi.us/org/at/et/geo/gwur/index.htm.
- A location map which outlines all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit the easy location of all parcels. If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200 feet of the site. (If only one parcel, combine with next item.)
- A map of all contaminated properties within site boundaries, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. This map shall also show the location of all contaminated public streets, and 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 enforcement standards, and/or in relation to the boundaries of soil contamination exceeding generic or site-specific residual contaminant levels as determined under s. NR 720.09, 720.11 and 720.19.
- A table of the most recent analytical results, with sample collection dates: from all monitoring wells, and any potable wells for which samples have been collected for groundwater, and/or showing results for all contaminants found in pre-remedial sampling and in the most recent soil sampling event, for soils (without shading/crosshatching).
- n/A An isoconcentration map, if required as part of the site investigation (SI), of the contaminated properties within the site boundaries. The map should include the areal extent of groundwater contamination exceeding PALs and ESs, groundwater flow directions based on the most recent data, and sample collection dates. If an isoconcentration map was not required as part of the SI, substitute a map showing the horizontal extent of contamination, based on the most recent data.
- A table of the previous 4 water level elevation measurements from all monitoring wells, at a minimum, with the date measurements were made, is to be included. If present, free product is to be noted on the table. In addition, a groundwater flow direction map, representative of groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, 2 groundwater flow maps showing the maximum variation in flow direction are to be submitted.
- n/A For sites closing with residual soil contamination, include a map showing the location of all soil samples and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds generic or site specific residual contaminant levels.
- n/A A geologic cross section, if required as part of the SI, showing vertical extent and location of residual soil contamination exceeding generic or site specific RCLs and residual groundwater contamination, source extent and location; isoconcentrations for all groundwater contaminants that exceed PALs that remain when closure is requested; water table and piezometric elevations, and the location and elevation of geologic units, bedrock, and confining units, if any.
- A statement signed by the responsible party, which states that he or she believes that the legal descriptions attached to the statement are complete and accurate. (The point here is that the legal descriptions are describing the correct (i.e. contaminated) properties.)
- n/A A copy of the letters sent by the RP to all owners of properties with groundwater exceeding ESs (including the current source-property owner, if the RP is not the current source-property owner.) (Off source properties are listed separately with a link to the source property.)
- n/A A copy of all written notifications provided (to City/village/municipality/state agency or other responsible for maintenance) of a public street or highway or railroad right-of-way, within or partially within the boundaries of the contaminated site, for contamination exceeding groundwater ESs and/or soil exceeding generic or site specific RCLs.

This indenture, Made this 1st day of February, A. D. 19 57
 between Siepmann Land Corp., a Corporation duly organized
 and existing under and by virtue of the laws of the State of Wisconsin, located at Brookfield, Wisconsin,
 party of the first part, and City of Brookfield, a municipal corporation
 duly organized and existing under and by virtue of the laws of the State of Wisconsin, located at Brookfield,
 Wisconsin, party of the second part.

Witnesseth, That the said party of the first part, for and in consideration of the sum of One and 00/100 (\$1.00) Dollar and other good and valuable consideration

to it paid by the said party of the second part, the receipt whereof is hereby confessed and acknowledged, has given, granted, bargained, sold,
 remised, released, aliened, conveyed and confirmed, and by these presents does give, grant, bargain, sell, remise, release, alien, convey and con-
 firm unto the said party of the second part, its successors and assigns forever, the following described real estate situated in the County of
Waukesha and State of Wisconsin, to-wit:

All that part of the S. $\frac{1}{2}$ of the N.E. $\frac{1}{4}$ and the S.E. $\frac{1}{4}$ of the N.W. $\frac{1}{4}$
 of Section 17, Town 7 North, Range 20 East, City and Town of Brookfield,
 Waukesha County, Wisconsin, bounded and described as follows, to-wit:

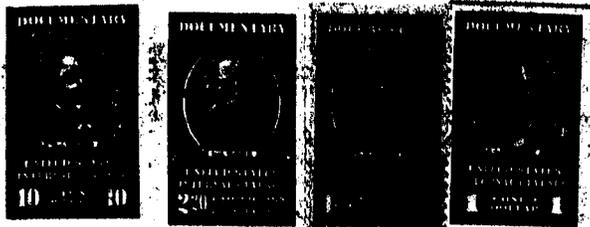
Commencing at the Southeast corner of said N.W. $\frac{1}{4}$ of said
 Section 17; thence S. 89° - $32'$ West on the South line of said N.W. $\frac{1}{4}$
 459.8 feet to a point on the Northwesterly line of the railroad right-
 of-way of the C.M.St.P. & P. R.R. (Prairie du Chien Division), which
 point is the place of beginning for lands herein described; thence
 S. 89° - $32'$ West on said South line 916.5 feet to the Southwest corner
 of the S.E. $\frac{1}{4}$ of the N.W. $\frac{1}{4}$ of said Section 17; thence N. 0° - $12'$ West on
 the West line of said S.E. $\frac{1}{4}$ of the N.W. $\frac{1}{4}$ 1,256.5 feet to a point on
 the South line of the railroad right-of-way of the C.M.St.P. & P. R.R.
 (LaCrosse Division); thence S. 87° - $20'$ East on said South right-of-way
 line 2,952 feet more or less to a point 1,109.5 feet West of the East
 line of said N.E. $\frac{1}{4}$ of Section 17; thence South approximately 25 feet
 to a point on the North line of the railroad right-of-way of the
 aforementioned Prairie du Chien Division of the C.M.St.P. & P. R.R.;
 thence Southwesterly on said North and Northwesterly right-of-way
 line to the place of beginning, containing 46.5 acres of land more or
 less.

ALSO

All that part of Lots 7 and 8, Block 3, of BROOKDALE, a subdivi-
 sion in the north one-half of Section 17, Town 7 North, Range 20 East,
 City and Town of Brookfield, Waukesha County, Wisconsin, bounded and
 described as follows, to-wit: A strip of land 60 feet in width in
 said lots 7 and 8, the center line of which strip is described as fol-
 lows, to-wit: Commencing at the southeast corner of said lot 8; thence
 N. 89° - $16'$ - $30''$ W. on the south line of said lot 8 497.17 feet to a point
 of curve; thence northwesterly on a curve to the right, tangent to the
 last described line 55.81 feet to a point on the southeasterly line of
 the C.M.St.P. & P. R.R. (Prairie du Chien Division), which point is
 30 feet northeast of the southwest corner of said lot 8, measured on
 said southeasterly line, the radius of said curve being 70.26 feet and
 the long chord of which is 54.35 feet and bears N. 66° - $31'$ - $10''$ W.

SEC. 17

HWY. DEPT. PROPERTY



Together with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all the estate, right, title, interest, claim or demand whatsoever, of the said party of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

We have and in full the said premises as above described with the hereditaments and appurtenances, unto the said party of the second part, and to its successors and assigns FOREVER.

And the said Siepmann Land Corp. party of the first part, for itself and its successors, does covenant, grant, bargain and agree to and with the said party of the second part, its successors and assigns, that at the time of the enrolling and delivery of these presents it is well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee simple, and that the same are free and clear from all incumbrances whatever, except restrictions and easements of record and laws, zoning and other ordinances unrecorded regulating and restricting the use of said premises.

and that the above bargained premises in the quiet and peaceable possession of the said party of the second part, its successors and assigns, against all and every person or persons lawfully claiming the whole or any part thereof, it will forever WARRANT and DEFEND.

In Witness Whereof, the said Siepmann Land Corp. party of the first part, has caused these presents to be signed by Paul J. Siepmann, its President, and countersigned by Richard A. Siepmann, its Secretary, at Brookfield, Wis. and its corporate seal to be hereunto affixed, this 1st day of February, A. D., 1957.

SIGNED AND SEALED IN PRESENCE OF

SIEPMANN LAND CORP.

George A. Kapke
George A. Kapke

Paul J. Siepmann
Paul J. Siepmann
President

Anna M. Britz
Anna M. Britz

COUNTERSIGNED:
Richard A. Siepmann
Richard A. Siepmann
Secretary

STATE OF WISCONSIN.

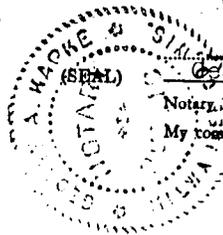
Waukesha County, } ss.

Personally came before me, this 1st day of February, A. D., 1957.

Paul J. Siepmann, President, and Richard A. Siepmann, Secretary of the above named Corporation, to me known to be the persons who executed the foregoing instrument, and to me known to be such President and Secretary of said Corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said Corporation, by its authority.

Received for Record this 4th day of February, A. D., 1957, at 10:45 o'clock A. M.

Marie L. Peters
Register of Deeds
Clarence V. Beyer
Deputy Register of Deeds



George A. Kapke
Notary Public, Milwaukee County, Wis.
My commission expires Sept. 20th, A. D., 1959.

No. 458841

SIEPMANN LAND CORP.

to

CITY OF BROOKFIELD

Warranty Deed

REGISTER'S OFFICE,
State of Wisconsin,
WAUKESHA County.

Received for Record this 4th day of

FEBRUARY A. D., 19 57,

at 28 o'clock P.M., and recorded in

Vol. 730 of Deeds

on page 367

Maria L. Lathrop
Register of Deeds

G. Lawrence H. Rapp
Deputy
Return to: *City of Brookfield*

See Albert M. Witte *City Clerk*
Brookfield

190 213 W Wisconsin Ave
Milwaukee 3, Wisconsin

George A. Kapke
Attorney at Law

222'

1073-976
#NO ADDRESS

RIVER

C P

RAIL

82.5' SYSTEM

25'

1.99'

COLD STORAGE BUILDING

CIYT LANDS
WARRANTY DEED, DOC#453841
V.730, PP.367-368
REC.2-4-57

UNPLATTED LANDS

BUTLER BLDG

RIVERVIEW

LINE

430.84'

1073-980

PARK & RECREATION
BUILDING

SPUR

127.06'

#18940
#18930
#18920
#18910
#18900

BLDG N
8 UNITS

DOC. NO. 1800093
R. 1624, I.0879
1073-979

300.0' 20' W.M. EASE.

#19060
#19050
#19040
#19030
#19020
#19010
#19000
#18990
#18980
#18970
#18960
#18950

BLDG NO 2
8 UNITS

412.47'

ABANDONED

187.63'
CSM 962
PARCEL A
1073-980-001

187.63'
CSM 962
PARCEL B
1073-980-002
#19340
#19330
#19320
300.00'
299.25'

1073-978

#19330

#19270

BLDG NO 3
8 UNITS

116.88'

DRIVE

136.26'
8

#19165

136.

#1913'

196'

1c

300.00'

300.00'

300.00'

300.00'

187.63'

187.63'

137.3'

168.02'

85.0'

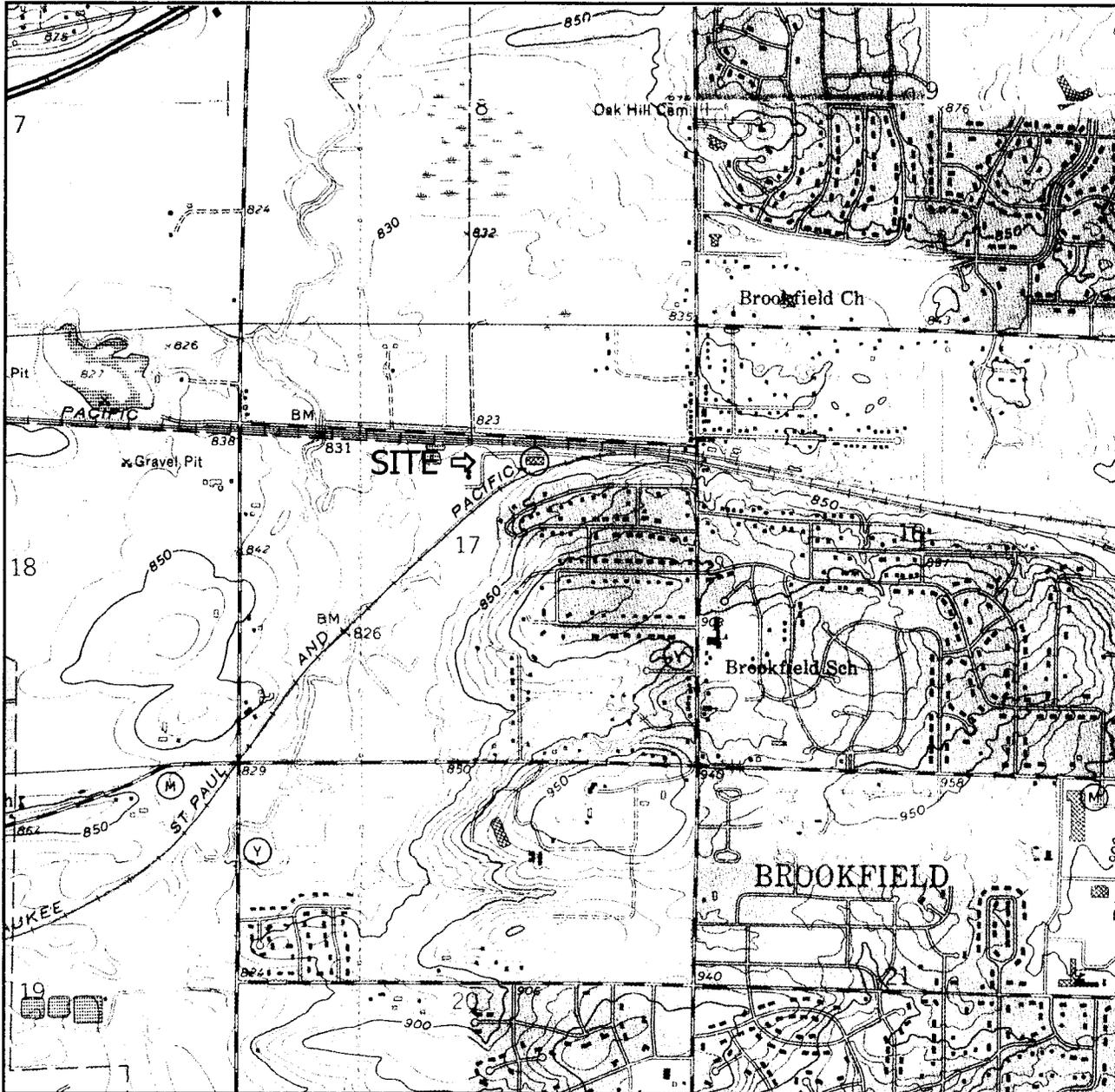
65.0'

120.0'

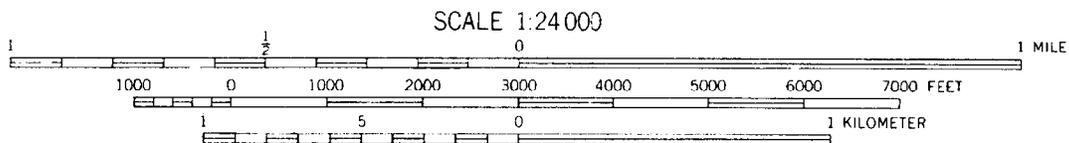
136.27'

136.26'

196'



SW ¼ of the NE ¼ Sec.17, T7N, R20E Adapted from U.S.G.S. 7.5 minute series, Waukesha , (dated 1959, photorevised 1971 and photoinspected 1976) Wisconsin, quadrangle.

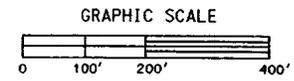
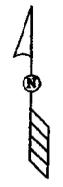
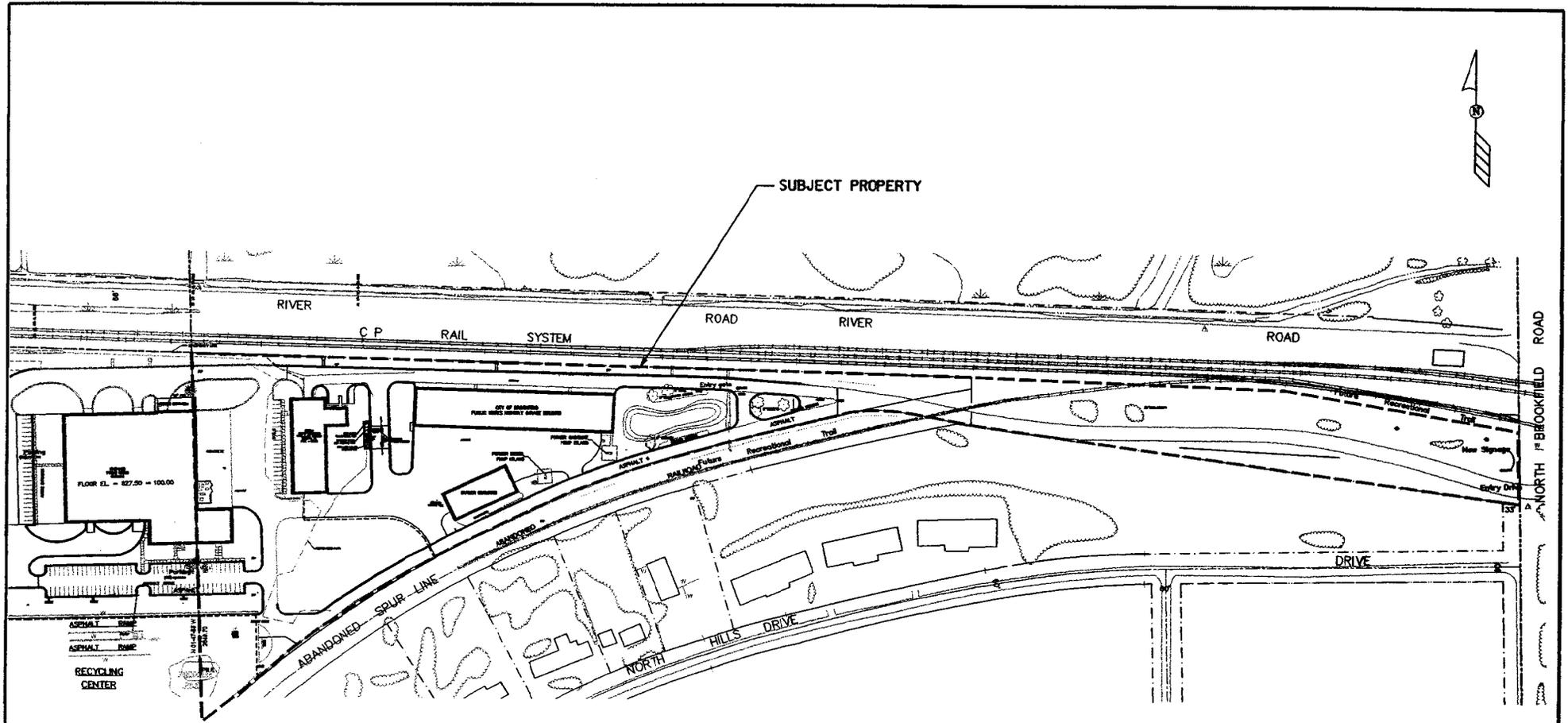


CONTOUR INTERVAL 10 FEET
 DOTTED LINES REPRESENT 5-FOOT CONTOURS
 DATUM IS MEAN SEA LEVEL



Figure 1. Site Location Map
 City of Brookfield Municipal Garage Site
 19450 Riverview Dr, Brookfield, Wisconsin





| | | | |
|---------------------------------------|-------------|---------------|--|
| CITY OF BROOKFIELD - MUNICIPAL GARAGE | | |  ENVIRONMENTAL SERVICES INC. |
| BROOKFIELD, WI | | | |
| DATE: 9-2-03 | DR. BY: BEB | DR.# 7843-004 | SCALE: 1" = 200' |
| SITE FEATURES MAP | | | FIGURE 2 |

Table 1
Soil Quality Results - Hoist Area
City of Brookfield - Municipal Garage
Sigma Project No. 7843

| Soil Boring Identification: | | GP-1 | | NR | NR | NR |
|-----------------------------|-------|-------------|---------|---------|---------|---------|
| Sample Depth (ft): | | 4-5 | 9-10 | 720 | 746 | 746 |
| Collection Date: | | 7/29/03 | 7/29/03 | RCL | Table 1 | Table 2 |
| Parameter | Units | | | | | |
| GRO | mg/kg | <5.72 | <5.75 | 100/250 | NS | NS |
| DRO | mg/kg | <5.72 | <5.75 | NS | NS | NS |
| Percent solids | % | 87.3 | 87.0 | NS | NS | NS |
| Lead | mg/kg | NA | NA | 500 | NS | NS |
| Detected VOCs/PVOCs | | | | | | |
| Benzene | µg/kg | <25.0 | <25.0 | 5.5 | 8,500 | 1,100 |
| 1,2-Dichloroethane | µg/kg | <25.0 | <25.0 | 4,900 | 600 | 540 |
| Ethylbenzene | µg/kg | <25.0 | <25.0 | 2,900 | 4,600 | NS |
| Isopropylbenzene | µg/kg | <25.0 | <25.0 | NS | NS | NS |
| Methyl tert-butyl ether | µg/kg | <25.0 | <25.0 | NS | NS | NS |
| Naphthalene | µg/kg | <25.0 | <25.0 | NS | 2,700 | NS |
| Toluene | µg/kg | <25.0 | <25.0 | 1,500 | 38,000 | NS |
| 1,2,4-Trimethylbenzene | µg/kg | <25.0 | <25.0 | NS | 83,000 | NS |
| 1,3,5-Trimethylbenzene | µg/kg | <25.0 | <25.0 | NS | 11,000 | NS |
| Xylenes (Total) | µg/kg | <25.0 | <25.0 | 4,100 | 42,000 | NS |

Notes:

- Laboratory analyses performed by Great Lakes Analytical of Oak Creek, Wisconsin in accordance with EPA Method 6010 (Lead) and Method EPA 8021B (PVOCs).
- mg/kg = milligrams per kilogram (equivalent to parts per million)
- µg/kg = micrograms per kilogram (equivalent to parts per billion)
- GRO= Gasoline Range Organics
- DRO= Diesel Range Organics
- NA= Not Analyzed
- NR 720 RCL = Wisconsin Administrative Code, Chapter NR 720 generic Residual Contaminant Level (industrial land use RCLs for RCRA metals).
- NR 746 Table 1 = Wisconsin Administrative Code, Chapter NR 746, Table 1 soil screening level: Indicators of Residual Petroleum Products in Soil Pores.
- NR 746 Table 2 = Wisconsin Administrative Code, Chapter NR 746, Table 2: Protection of Human Health from Direct Contact with Contaminated Soil.
- NS = no standard
- Exceedances:
 - bold** = Concentration exceeds NR 720 RCL
 - box = Concentration exceeds NR 746 Table 1 and Table 2 Values
- The methanol blank exhibited non-detectable concentrations of PVOCs.



Table 4:
Soil Quality Data "Overexcavation", Public Works-Hoist, 19450 Riverview Road, Brookfield, wisconsin 53045.

| Sample Name | | Pit 1 (Ram 1 & Ram 2) | | | | | | Pit 2 (Ram 3 & Ram 4) | | | | | | TB | | | |
|-------------------------|-------|-----------------------|----------|----------|---------|---------|---------|-----------------------|---------|---------|---------|---------|---------|---------|-------|-------|------|
| Collection Date | | 1/21/03 | 1/21/03 | 1/21/03 | 1/21/03 | 1/21/03 | 1/21/03 | 1/21/03 | 1/21/03 | 1/21/03 | 1/21/03 | 1/21/03 | 1/21/03 | 1/21/03 | | | |
| Sample Location | | Conf. | E. Wall | W.Wall | N.Wall | S. Wall | Floor | Conf. | W.Wall | N.Wall | E.Wall | S. Wall | Floor | ~ | | | |
| Depth (feet) | | 5' | 5' | 5' | 5' | 10' | 8' | 5' | 5' | 5' | 5' | 10' | 8' | ~ | | | |
| parameter | units | NR 720 | COMM 47 | COMM 46 | | | | | | | | | | | | | |
| | | Standard | Standard | Standard | | | | | | | | | | | | | |
| Dry Wt. | % | | | | 87.4 | 85.6 | 89.4 | 88.9 | 84.1 | 54.7 | 82.7 | 90.3 | 90.5 | 90.6 | 83.8 | 85.9 | ~ |
| Lead | mg/kg | 50 | N STD | N STD | 8.43 | 8.07 | 12.6 | 5.4 | 5.45 | 26.9 | 36.3 | 6.41 | 5.75 | 5.39 | 6.08 | 10.7 | ~ |
| GRO | mg/kg | 250 | N STD | N STD | 92.3 | <5.84 | <5.59 | <5.63 | <5.94 | <9.13 | 37.6 | <5.54 | <5.52 | <5.52 | <5.97 | <5.82 | ~ |
| DRO | mg/kg | 250 | N STD | N STD | 23,800 | 8 | 11.9 | 9.98 | 7.04 | 15.60 | 24,200 | 9.46 | 7.11 | 804 | 34.0 | <5.82 | ~ |
| Benzene | ug/kg | 5.5 | 620* | 1,100 | 84.1 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| n-Butylbenzene | ug/kg | N STD | N STD | N STD | 1,610 | <25 | <25 | <25 | <25 | <25 | 400 | <25 | <25 | <25 | <25 | <25 | <25 |
| sec-Butylbenzene | ug/kg | N STD | N STD | N STD | 1,630 | <25 | <25 | <25 | <25 | <25 | 541 | <25 | <25 | <25 | <25 | <25 | <25 |
| tert-Butylbenzene | ug/kg | N STD | N STD | N STD | 472 | <25 | <25 | <25 | <25 | <25 | 198 | <25 | <25 | <25 | <25 | <25 | <25 |
| 1,2-Dichloroethane | ug/kg | 4.9 | N STD | 540 | <50 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| cis-1,2-Dichloroethene | ug/kg | N STD | N STD | N STD | 119 | <25 | <25 | <25 | <25 | <25 | 100 | <25 | <25 | <25 | 299 | <25 | <25 |
| Ethylbenzene | ug/kg | 2,900 | 230,000* | 400,000 | 621 | <25 | <25 | <25 | <25 | <25 | 76 | <25 | <25 | <25 | 105 | <25 | <25 |
| Isopropylbenzene | ug/kg | N STD | N STD | N STD | 259 | <25 | <25 | <25 | <25 | <25 | 84 | <25 | <25 | <25 | <25 | <25 | <25 |
| p-Isopropyltoluene | ug/kg | N STD | N STD | N STD | 674 | <25 | <25 | <25 | <25 | 357 | 253 | <25 | <25 | <25 | 42.8 | <25 | <25 |
| Methylene Chloride | ug/kg | N STD | N STD | N STD | <50 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <100 |
| Methyl tert-butyl ether | ug/kg | N STD | N STD | N STD | <50 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <10 |
| Naphthalene | ug/kg | N STD | N STD | N STD | 2,590 | <25 | <25 | <25 | <25 | 872 | 489 | <25 | <25 | <25 | <25 | <25 | <25 |
| n-Propylbenzene | ug/kg | N STD | N STD | N STD | 801 | <25 | <25 | <25 | <25 | <25 | 335 | <25 | <25 | <25 | <25 | <25 | <25 |
| Tetrachloroethene | ug/kg | N STD | N STD | N STD | <50 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Toluene | ug/kg | 1,500 | 520,000* | 670,000 | 872 | <25 | <25 | <25 | <25 | <25 | 264 | <25 | <25 | <25 | 507 | <25 | <25 |
| 1,2,4-Trimethylbenzene | ug/kg | N STD | N STD | N STD | 4,550 | <25 | <25 | <25 | <25 | <25 | 1,170 | <25 | <25 | <25 | 47.1 | <25 | <25 |
| 1,3,5-Trimethylbenzene | ug/kg | N STD | N STD | N STD | 1,640 | <25 | <25 | <25 | <25 | <25 | 519 | <25 | <25 | <25 | <25 | <25 | <25 |
| Total Xylenes | ug/kg | 4,100 | 860,000* | 470,000 | 2,420 | <25 | <25 | <25 | <25 | <25 | 332 | <25 | <25 | <25 | 82.4 | <25 | <25 |

From BLS Environmental
March 17, 2003
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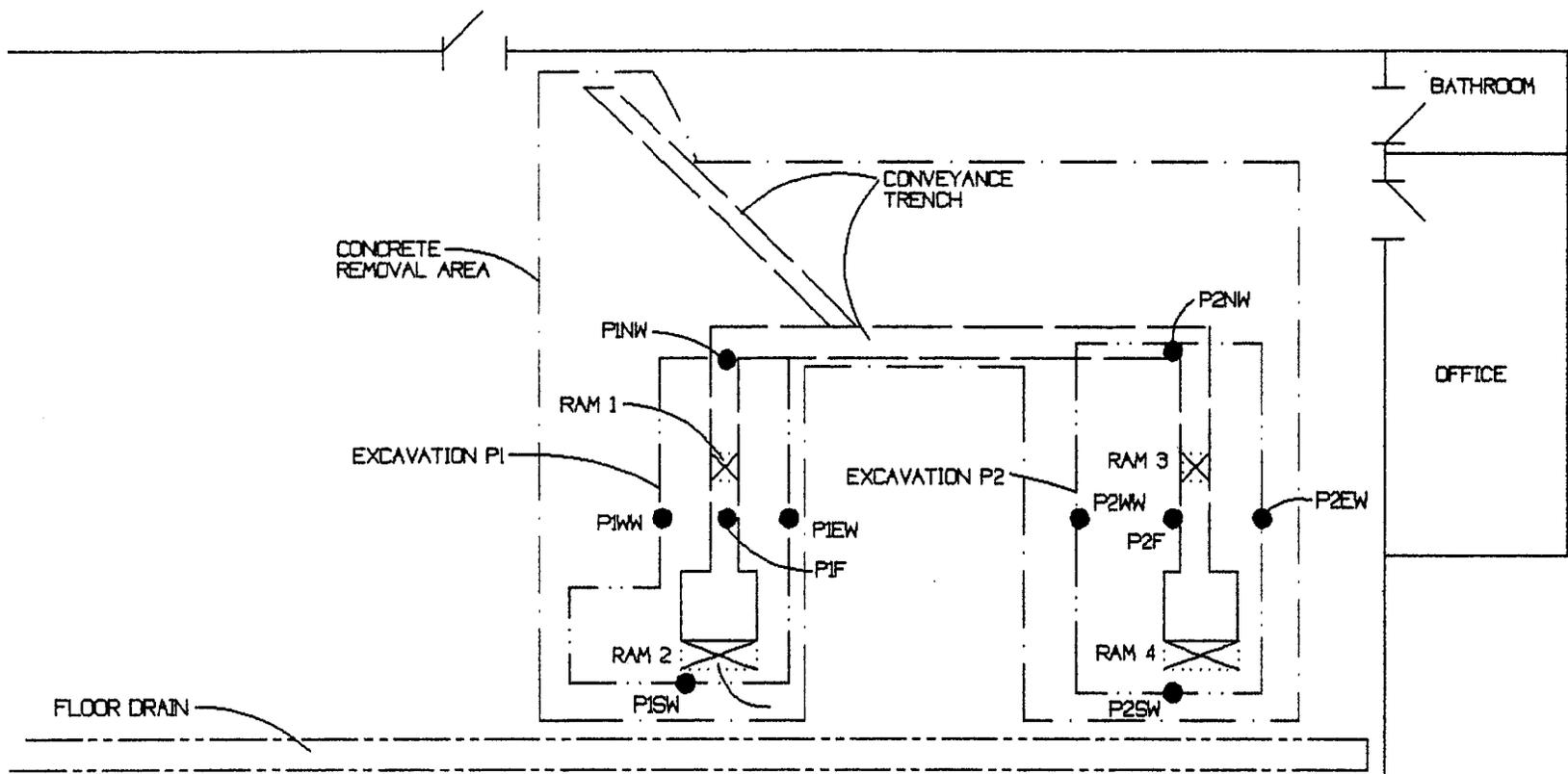
Table 3
Groundwater Quality Results - Waste Oil Area
City of Brookfield - Municipal Garage
Sigma Project No. 7843

| Well ID: | | TW-1/B-1 | TW-2/B-2 | TW-3/B-3 | MW-1 | NR 140 | NR 140 |
|------------------------------------|------|----------|----------|----------|-------------|--------|--------|
| Analytes | Date | 07/17/03 | 07/17/03 | 07/17/03 | 08/05/03 | ES | PAL |
| DRO | µg/L | NA | NA | NA | <100 | NS | NS |
| Lead | µg/L | NA | NA | NA | 3.75 | 15 | 1.5 |
| Cadmium | µg/L | NA | NA | NA | 1.53 | 5 | 0.5 |
| PVOCs/Detected VOCs | | | | | | | |
| Benzene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | 5 | 0.5 |
| Ethylbenzene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | 700 | 140 |
| Methyl-tert-butyl-ether | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | 60 | 12 |
| Toluene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | 1,000 | 200 |
| 1,2,4-Trimethylbenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | NS | NS |
| 1,3,5-Trimethylbenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | NS | NS |
| Total Trimethylbenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | 480 | 96 |
| Xylenes, Total | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | 10,000 | 1,000 |
| PAHs | | | | | | | |
| Acenaphthene | µg/L | NA | NA | NA | <5.0 | NS | NS |
| Acenaphthylene | µg/L | NA | NA | NA | <5.0 | NS | NS |
| Anthracene | µg/L | NA | NA | NA | <5.0 | 3,000 | 600 |
| Benzo(a)anthracene | µg/L | NA | NA | NA | <0.1 | NS | NS |
| Benzo(a)pyrene | µg/L | NA | NA | NA | <0.020 | 0.2 | 0.02 |
| Benzo(b)fluoranthene | µg/L | NA | NA | NA | <0.020 | 0.2 | 0.02 |
| Benzo(g,h,i)perylene | µg/L | NA | NA | NA | <5.0 | NS | NS |
| Benzo(k)fluoranthene | µg/L | NA | NA | NA | <0.1 | NS | NS |
| Indeno(1,2,3-cd)pyrene | µg/L | NA | NA | NA | <0.2 | NS | NS |
| Chrysene | µg/L | NA | NA | NA | <0.02 | 0.2 | 0.02 |
| Dibenzo(a,h)anthracene | µg/L | NA | NA | NA | <0.10 | NS | NS |
| Fluoranthene | µg/L | NA | NA | NA | <5.0 | 400 | 80 |
| Fluorene | µg/L | NA | NA | NA | <5.0 | 400 | 80 |
| 2-Methylnaphthalene | µg/L | NA | NA | NA | <5.0 | NS | NS |
| 1-Methylnaphthalene | µg/L | NA | NA | NA | <5.0 | NS | NS |
| Naphthalene | µg/L | NA | NA | NA | <5.0 | 40 | 8 |
| Phenanthrene | µg/L | NA | NA | NA | <5.0 | NS | NS |
| Pyrene | µg/L | NA | NA | NA | <5.0 | 250 | 50 |
| PCBs | | | | | | | |
| PCB-1016 | µg/L | NA | NA | NA | <0.50 | NS | NS |
| PCB-1221 | µg/L | NA | NA | NA | <0.50 | NS | NS |
| PCB-1232 | µg/L | NA | NA | NA | <0.50 | 3,000 | 600 |
| PCB-1242 | µg/L | NA | NA | NA | <0.50 | NS | NS |
| PCB-1248 | µg/L | NA | NA | NA | <0.50 | 0.2 | 0.02 |
| PCB-1254 | µg/L | NA | NA | NA | <0.50 | 0.2 | 0.02 |
| PCB-1260 | µg/L | NA | NA | NA | <0.50 | NS | NS |
| Biofeasibility Measurements | | | | | | | |
| pH | IU | NA | NA | NA | 7 | NS | NS |
| Temperature | °C | NA | NA | NA | 13.4 | NS | NS |
| Ferrous Iron | mg/l | NA | NA | NA | 1.0 | NS | NS |
| Dissolved Oxygen | mg/l | NA | NA | NA | 0.19 | NS | NS |
| Redox Potential | mV | NA | NA | NA | -38.8 | NS | NS |

Notes:

- Groundwater samples collected by Sigma and submitted to Great Lakes Analytical for analysis.
- NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard. ES for
- NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit. PAL for
- NS = no standard
- µg/L = micrograms per liter (equivalent to parts per billion, ppb)
- mg/L = milligrams per liter (equivalent to parts per million, ppm)
- NA = Not Analyzed
- Q = Results are qualified due to the uncertainty of the parameter concentration between the Limit
- Equipment blanks: All VOCs reported below laboratory detection limits
- Trip blanks: All VOCs reported below laboratory detection limits
- Exceedances: **bold, box** = Concentration exceeds NR 140 ES
bold, italics = Concentration exceeds NR 140 PAL

ROAD



LEGEND

- EXCAVATION SOIL SAMPLE LOCATION
- ▭ EXCAVATION AREA
- ▭ CONCRETE REMOVAL AREA

SAMPLE LABELING NOTES:

- P1 = EXCAVATION PIT 1
- P2 = EXCAVATION PIT 2
- EW = EAST WALL
- WW = WEST WALL
- SW = SOUTH WALL
- NW = NORTH WALL
- F = FLOOR



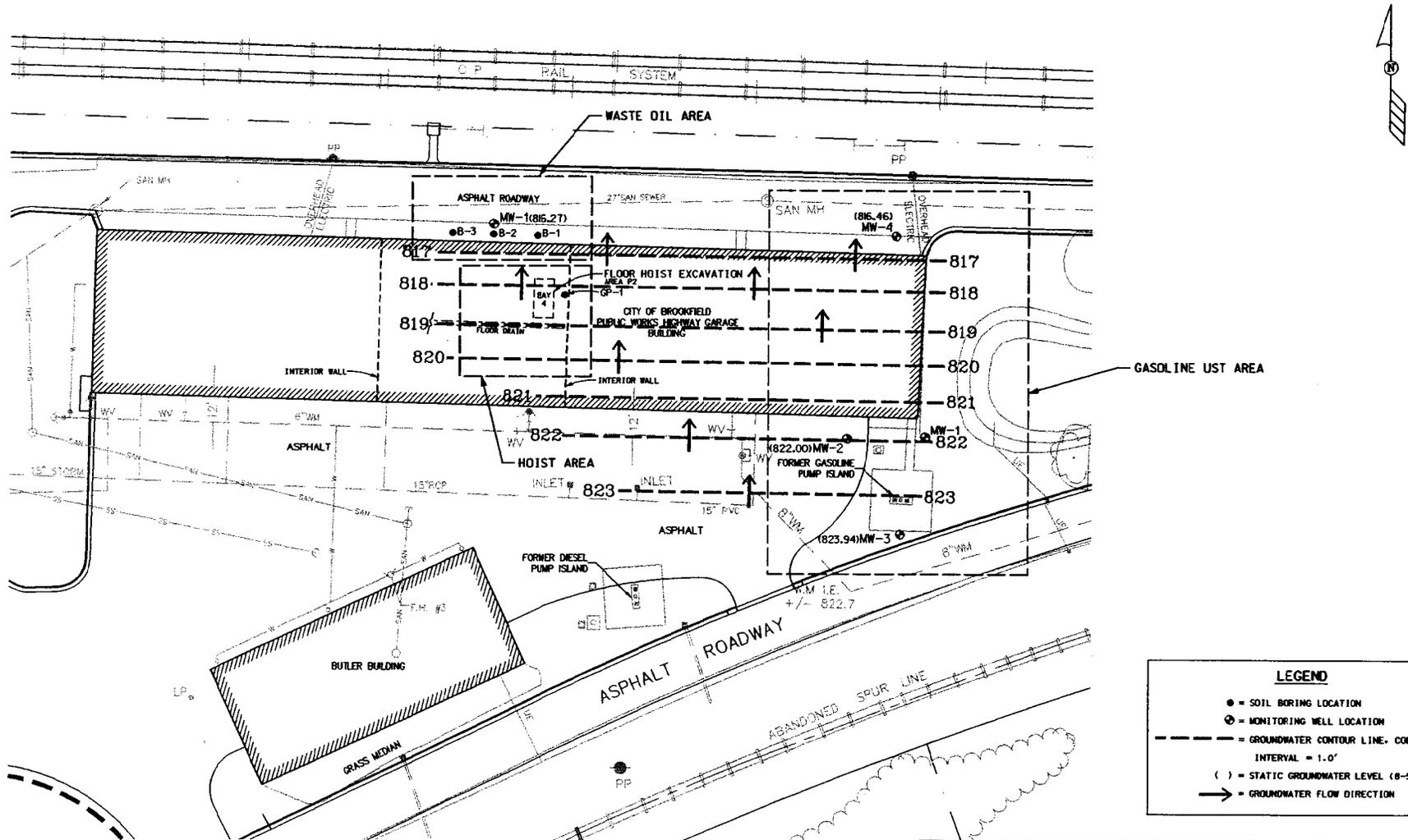
*From BLS Environmental
March 17, 2003
Remedial Action Report*

| | |
|---|------------------------|
| FIGURE 6 | |
| SPILL EXCAVATION AREA BROOKFIELD PUBLIC WORKS - HOIST BROOKFIELD, WISCONSIN | |
| BRRTS #02-68-391655 | FID #268311230 |
| SCALE: 1" = 10' | DATE: JANUARY 22, 2003 |
| BLS ENVIRONMENTAL, INC. | |

**Table 1
Groundwater Elevation Data
Municipal Garage - Waste Oil Tank Area
City of Brookfield, Brookfield Wisconsin
Sigma Project #7843**

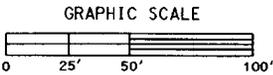
| Well Identification | Ground Surface Elevation (feet MSL) | Top of Casing Elevation (feet MSL) | Screen Interval (feet bgs) | Depth to Groundwater | | Groundwater Elevation (feet MSL) | Date |
|---------------------|--|---------------------------------------|-------------------------------|----------------------|------------|-------------------------------------|------------|
| | | | | (feet toc) | (feet bgs) | | |
| MW-1 | 829.45 | 828.85 Flush Mount | 5-15 | 12.58 | 13.18 | 816.27 | 08/05/2003 |
| | | | | | | | |
| | | | | | | | |

Notes: MSL = mean sea level
feet toc = feet below top of casing
feet bgs = feet below ground surface



LEGEND

- = SOIL BORING LOCATION
- ⊙ = MONITORING WELL LOCATION
- - - = GROUNDWATER CONTOUR LINE, CONTOUR INTERVAL = 1.0'
- () = STATIC GROUNDWATER LEVEL (8-5-03)
- = GROUNDWATER FLOW DIRECTION



| | | | | |
|---------------------------------------|-------------|----------------|-----------------|----------|
| CITY OF BROOKFIELD - MUNICIPAL GARAGE | | BROOKFIELD, WI | | |
| DATE: 9-18-03 | DR. BY: BEB | DR.# 7843-010 | SCALE: 1" = 50' | |
| GROUNDWATER CONTOUR MAP (8-5-03) | | | | FIGURE 6 |

Statement of Legal Description for GIS Packet
The City of Brookfield, Municipal Garage – Hoist Site
BRRTs No. 02-68-391655

The City of Brookfield, the responsible party for the property located at 19450 Riverview Drive, Brookfield, Wisconsin states that the legal description provided to the Wisconsin Department of Natural Resources (and attached to this GIS registration packet as Deed Document No. 453841) is complete and accurate to the best of our knowledge.

Thomas M. Auer
Signature of Representative for Responsible Party

10/1/03
Date