

**GIS REGISTRY INFORMATION**

SITE NAME: GREDE Foundries  
 BRRTS #: 02-41-525677 FID # (if appropriate): 241 673746  
 COMMERCE # (if appropriate): \_\_\_\_\_  
 CLOSURE DATE: \_\_\_\_\_  
 STREET ADDRESS: 1570 South 1st Street  
 CITY: Milwaukee  
 SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 690286 Y= 284644

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 or denial letter issued
- Copy of any maintenance plan referenced in the final closure letter.
- Copy of (soil or land use) deed notice *if any required as a condition of closure*
- 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)

✓
✓
✓
✓
✓
✓
✓
✓
✓
NA
✓
NA
NA
NA
✓
NA
✓



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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

Southeast Region Headquarters  
2300 N. Dr. Martin Luther King, Jr. Drive  
Milwaukee, Wisconsin 53212-3128  
FAX 414-263-8606  
Telephone 414-263-8500  
TTY Access via relay - 711

June 19, 2007

Mr. Mike Kolb  
Grede foundries, Inc.  
9898 West Blue Mounds Road  
Milwaukee, WI 53226

Subject: Final Case Closure with Land Use Limitations or Conditions  
Gredes Foundries, Inc., 1570 South 1<sup>st</sup> Street, Milwaukee WI,  
WDNR FID# 241673740, WDNR BRRTS#: 02-41-525677

Dear Mr. Kolb:

On May 4, 2004, the Southeast Region Closure Committee reviewed the above referenced case for closure. This committee 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, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. It is the Department's intent to conduct inspections in the future to ensure that the conditions included in this letter including compliance with referenced maintenance plans are met.

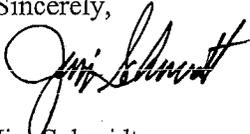
Pursuant to s. 292.12(2) (a), Wis. Stats., the paved concrete surface that currently exists in the location shown on the attached map shall be maintained in compliance with **the attached maintenance plan** in order to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

The following activities are prohibited on any portion of the property where [pavement, a building foundation, soil cover, engineered cap or other barrier] is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

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 GIS Registry. To review the sites on the GIS Registry web page, visit <http://dnr.wi.gov/org/aw/tr/gis/index.htm>. If your property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. 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 <http://www.dnr.state.wi.us/org/water/dwg/3300254.pdf> or at the web address listed above for the GIS Registry.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Eric Amadi at 414-263-8639.

Sincerely,



Jim Schmidt  
Southeast Remediation & Redevelopment Team Supervisor

cc: Sigma Environmental Services

**BARRIER OPERATION AND MAINTENANCE PLAN  
GREDE FOUNDRIES, INC.  
1570 SOUTH 1<sup>ST</sup> STREET, MILWAUKEE, WISCONSIN  
JUNE 19, 2007**

The Barrier Operation and Maintenance Plan (BOMP) is designed to prevent direct contact with soil impacted with residual petroleum hydrocarbons that exists beneath the paved concrete surface at the Grede Foundries, Inc. property, as shown in Figures 1 and 2. The concrete surface, or any replacement barrier, will function as intended unless disturbed.

**Disturbance Management.** Grede Foundries, Inc. shall take the following steps to assure that uncontrolled disturbances of the barrier do not occur:

- A soil GIS Registry will be recorded for this portion of the Grede Foundries, Inc. property.
- A copy of this BOMP will be available on-site from the property owner to all interested parties.
- A copy of this BOMP will be provided to all contractors and repair workers during any intrusive subsurface work on this portion of the property.

**Inspections of Barrier.** Inspections will be required to assure that the barrier is functioning as intended:

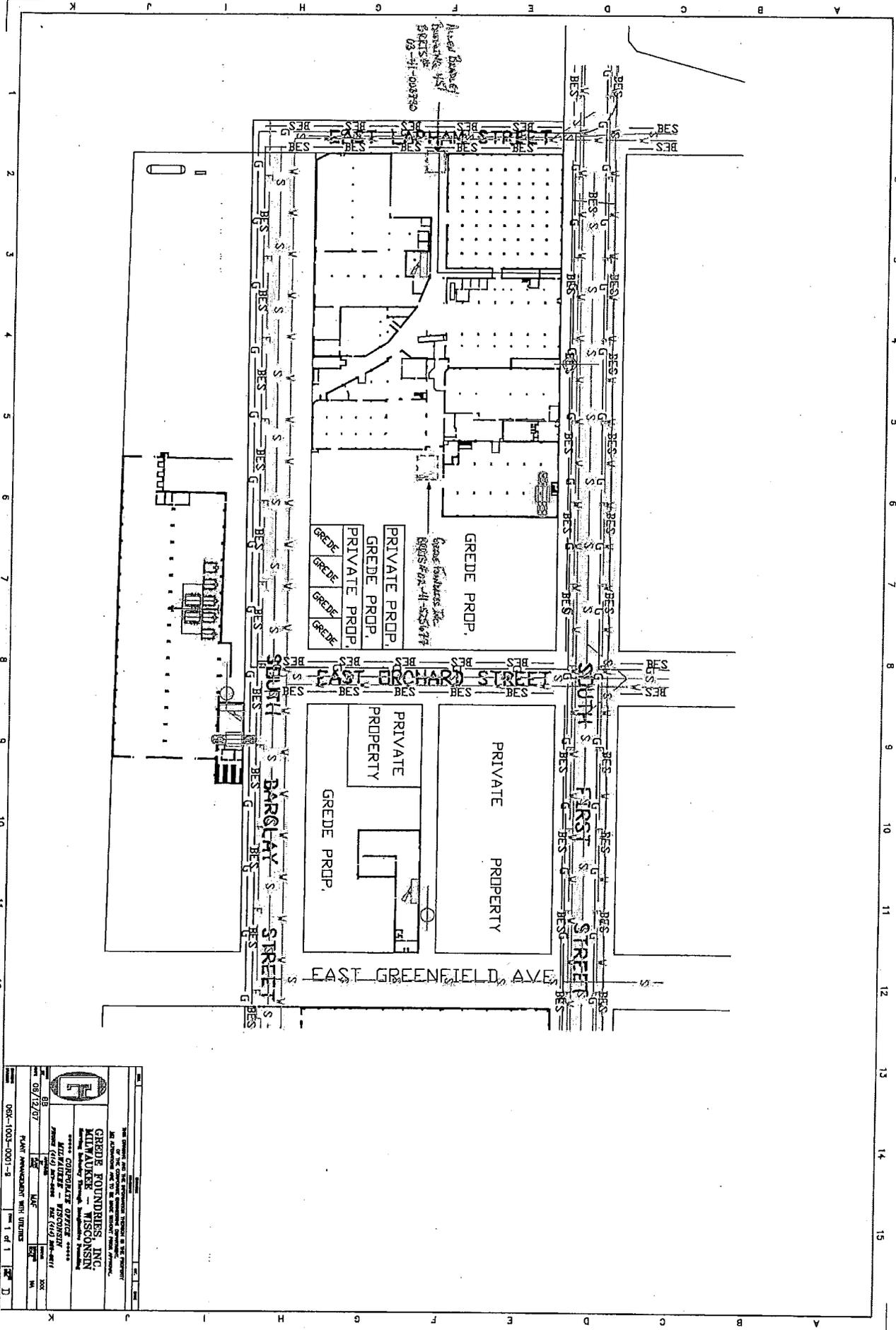
- Annual inspections of the paved concrete surface will be performed by authorized personnel from Grede Foundries, Inc., and will include observations about the integrity of the concrete surface in the vicinity of the residual soil impacts. Inspections will be compared to the previous inspection notes to monitor the relative condition of the concrete surface.
- As necessary, the engineered barriers will be repaired to maintain integrity. Repairs may include, but are not limited to, patching or replacing the concrete surface where it has cracked or otherwise broken and would allow direct contact with underlying soil.
- An inspection log will be maintained on-site to record any disturbances of the barrier and the steps that have been taken to maintain the integrity of the barrier. The inspection log will be made available for inspection by representatives of the Wisconsin Department of Natural Resources upon reasonable prior request. The on-site inspection log will be maintained as long as inspection and maintenance of the barrier is required.

**Planned Breaches of Barrier.** In the event that a planned breach of the barrier is required, the following precautions shall be taken:

- Grede Foundries, Inc. shall be given 48-hour notice of any planned breach.
- To the extent possible, all material excavated from beneath the barrier will be returned to the excavation prior to the restoration of the barrier. The excavation zone and any soils excavated will be secured from public access until the barrier is restored. While on-site,

For Wisconsin Department of Natural Resources information contact:

Mr. Eric Amadi  
Wisconsin Department of Natural Resources  
Southeast Region Headquarters Remediation & Redevelopment Program  
2300 N. Dr. Martin Luther King Jr. Drive  
Milwaukee, WI 53212  
Telephone: (414) 263-8500  
Fax: (414) 263-8483



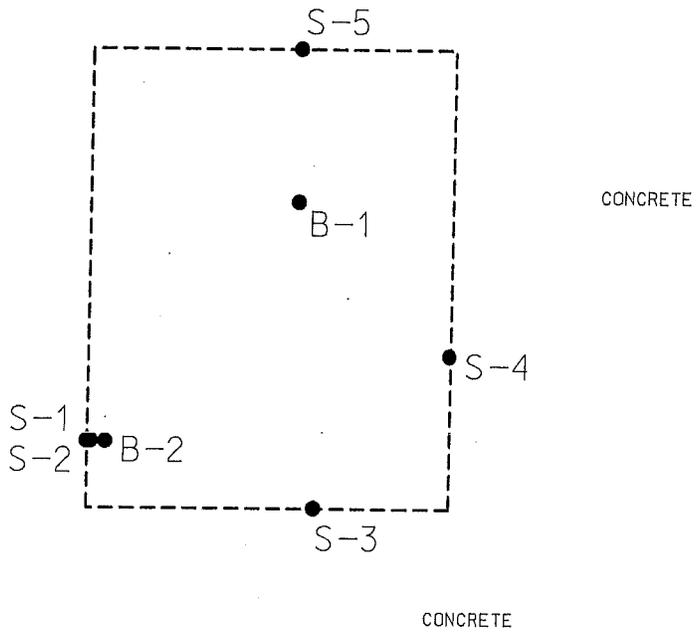
THE OFFICE AND THE ENGINEER HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.
   
**GREDE FOUNDRIES, INC.**
  
 ENGINEERS AND ARCHITECTS
   
 1111 W. WISCONSIN
   
 MILWAUKEE - WISCONSIN
   
 PHONE (414) 224-4444 FAX (414) 224-4411
   
 \*\*\*\*\* CONSULTING ENGINEERS \*\*\*\*\*
   
**PLANNING AND ARCHITECTURE**
  
 1111 W. WISCONSIN
   
 MILWAUKEE - WISCONSIN
   
 PHONE (414) 224-4444 FAX (414) 224-4411
   
 \*\*\*\*\* CONSULTING ENGINEERS \*\*\*\*\*

08/13/67
   
 08K-1003-0001-8
   
 1 of 1



GREDE FOUNDRIES  
BUILDING

CONCRETE



GREDE FOUNDRIES  
BUILDING

LEGEND

- = CONFIRMATION SOIL SAMPLE LOCATION
- = EXTENT OF EXCAVATION  
(APPROX. 5' DEPTH)

NOTE:  
DIMENSIONS DEPICTED ON MAP ARE FOR REFERENCE  
ONLY - SITE HAS NOT BEEN SURVEYED.



GREDE FOUNDRIES, INC.

1570 SOUTH 1st STREET, MILWAUKEE, WI

 **SIGMA**  
ENVIRONMENTAL SERVICES INC.

DATE: 2-20-04

DR. BY: BEB

DR.# 8453-001

SCALE: 1" = 10'

SOIL EXCAVATION EXTENT

FIGURE 2



EXHIBIT A

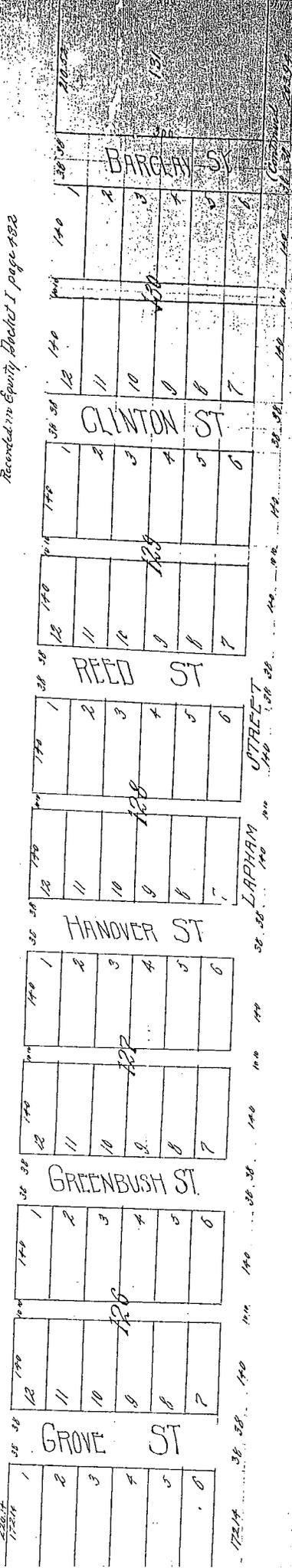
- (a) Lots One (1) through Six (6), the North Five (5) feet of Lot Nine (9) and Lots Ten (10) through Twelve (12) inclusive in Block One Hundred Thirty (130) in Subdivision of the South Twenty (20) acres of the North Sixty (60) acres of the North East One-quarter (1/4) of Section Five (5), in Township Six (6) North, Range Twenty-two (22) East, in the City of Milwaukee, together with the vacated North-South alley in said Block 130 except the West 1/2 of said alley adjoining Lots Seven (7), eight (8) and the South Forty-five (45) feet of Lot Nine (9) on the East and together with the North 1/2 of vacated East Lapham Street adjoining said Lot Six (6) and the East 1/2 of said vacated alley and South Barclay Street on the South.
- (b) Lots Four (4) through Nine (9) inclusive in Block Nine (9) in Bradley and Metcalf's Addition of the North Forty (40) acres of the North East One-quarter (1/4) of Section Five (5), in Township Six (6) North, Range Twenty-two (22) East, in the City of Milwaukee, together with the vacated North-South alley in said Block Nine (9) lying between said Lots Four (4), Five (5) and Six (6) and Lots Seven (7), Eight (8) and Nine (9).
- (c) Lots Two (2) and Three (3) (except that part of Lot Three (3) which lies within the boundaries of South First Street), in the Subdivision of the North Four (4) acres of the South Twelve (12) acres of the North One-half (1/2) of the North East One-quarter (1/4) of Section Five (5), in Township Six (6) North, Range Twenty-two (22) East, in the City of Milwaukee, together with the South 1/2 of vacated East Lapham Street adjoining said premises on the North and the West 1/2 of vacated South Barclay Street which adjoins the premises on the East.
- (d) Lots One (1) through Eight (8) inclusive in Block One Hundred Fifty-four (154) in Allcott's Subdivision into City Lots of Seven and Seventy-nine Hundredths (7.79) acres of land in the North East One-quarter (1/4) of Section Five (5), in Township Six (6) North, Range Twenty-two (22) East, in the City of Milwaukee, together with the vacated North-South alley in said Block 154 and the West 1/2 of vacated South Barclay Street adjoining said premises on the East.
- (e) Part of Lot One (1) in Subdivision of Four (4) acres of South Twelve (12) acres of North One-half (1/2) of North East One-quarter (1/4) of Section Five (5), Township Six (6) North, Range Twenty-two (22) East, part of Block One Hundred Fifty-five (155) Allcott's Subdivision, part of Lot lettered "L" in Subdivision of Lots lettered "B" and "L" in Horace Chase's Subdivision, part of vacated East Lapham Street and part of vacated South Barclay Street in the North East One-quarter (1/4) of Section Five (5), Township Six (6) North, Range Twenty-two (22) East in the City of Milwaukee which is bounded and described as follows, to wit: Beginning at the Northeast corner of East Lapham and South Barclay Streets which point is the Southwest corner of Block 131 in

Subdivision of South 20 acres of North 60 acres of North East 1/4 of Section 5, Township 6 North, Range 22 East; thence East along the North line of East Lapham Street extended 143.15 feet to a point 30 feet West of the center line of the main track of the Chicago and North Western Railway; thence South on a line 30 feet West of and parallel to the center line of the main track of said Chicago and North Western Railway 878.40 feet to a point 5 feet North-easterly and measured at right angles from the Westerly line of land conveyed by Horace Chase and Mary H. Chase to Milwaukee & Madison Railway, July 28, 1880, in Volume 169 of Deeds, Pages 94 and 95; thence Northwesterly on a line 5 feet Northeasterly of and parallel to the Westerly line of land conveyed by Chase to Milwaukee & Madison Railway, 670.80 feet to a point 5.24 feet East of the Southeast corner of Block 154 and being a point in the South line of Allcott's Subdivision; thence East along the South line of Allcott's Subdivision 32.76 feet to the center line of vacated South Barclay Street; thence North along the center line of vacated South Barclay Street 198 feet to a point in the South line of East Lapham Street; thence East along the South line of East Lapham Street 38 feet to a point in the East line of South Barclay Street; thence North along the East line of South Barclay Street 39.44 feet to the point of beginning; together with vacated East Lapham Street which adjoins Lot One (1) in said Subdivision of the North Four (4) acres of the South Twelve (12) acres on the North, which is not included in the above description.

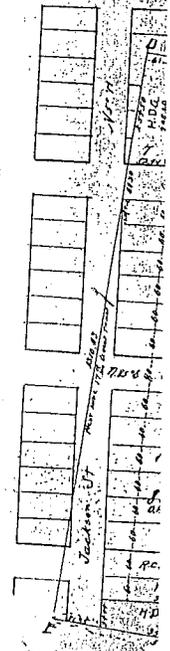
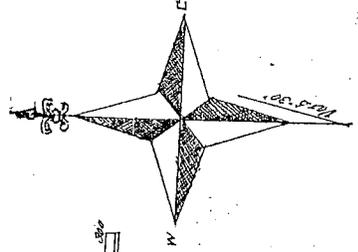
(f) Part of Lot One (1) in Subdivision of North Four (4) acres of South Twelve (12) acres of the North One-half (1/2) of the North East One-quarter (1/4), Section Five (5), in Township Six (6) North, Range Twenty-two (22) East, part of Block One Hundred Fifty-five (155), Allcott's Subdivision, part of Lot lettered "L," in Subdivision of Lots lettered "B" and "L" in Horace Chase's Subdivision, and part of vacated East Lapham Street, all in the North East One-quarter (1/4) Section Five (5), in Township Six (6) North, Range Twenty-two (22) East, in the City of Milwaukee, and being a strip of land lying between two parallel lines distant 26 feet and 30 feet, respectively, Westerly, from the center line of the main track of the Chicago and North Western Railway Company, as now located and established, bounded on the North by the Northerly line of vacated East Lapham Street, and on the South by a line drawn parallel with said Northerly line of East Lapham Street, distant 582 feet Southerly from said Northerly line, as measured along a line parallel and distant 30 feet Westerly of the center line of said main track.

# SUBDIVISION OF THE SOUTH 20 ACRES OF THE NORTH (60) SIXTY ACRES OF THE NORTH EAST 1/4 OF SECTION 5 TOWN 6 NORTH RANGE RR 60S4

Recorded in Equity Deed No. 1 page 482



37  
RR



Partition of the S.W. Quarter of S  
Recorded



**Parcel Identification Number**

The Parcel Identification Number for the property located at 1570 S. 1<sup>st</sup> Street, Milwaukee, Wisconsin is **462-1228-112-3**.

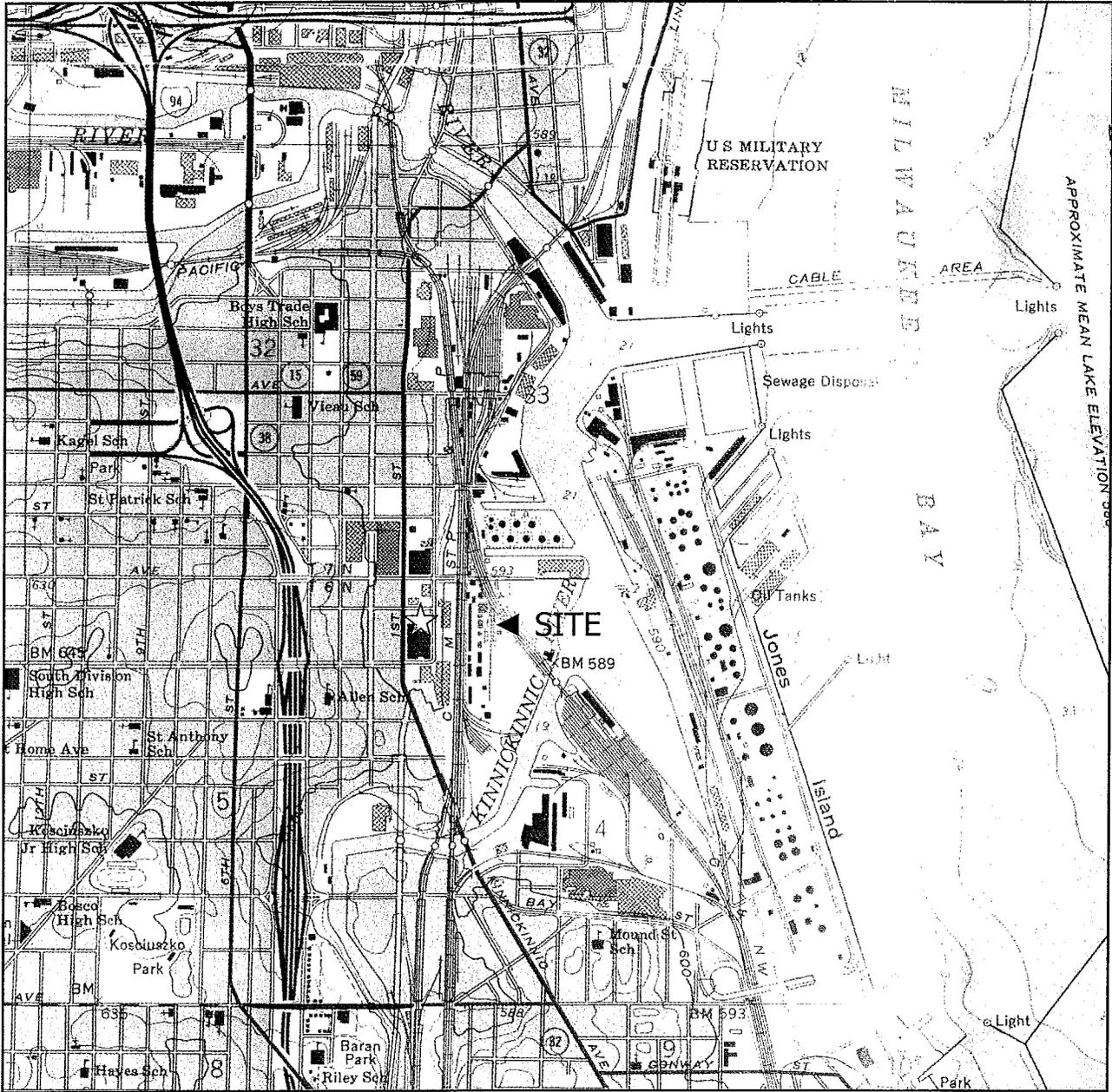
Scale 1 : 1,094



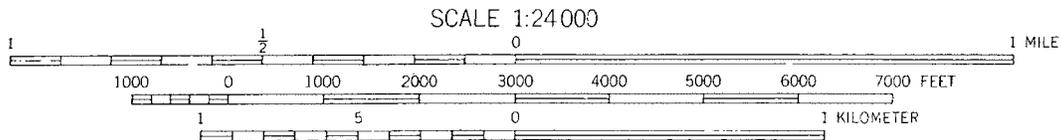
Please read the documentation for more

information.

△WTM coordinates: 690286, 284644



NW ¼ of NW 1/4 Sec. 4, T6N, R22E . Adapted from U.S.G.S. 7.5 minute series, Milwaukee, (dated 1958, photorevised 1971) Wisconsin, quadrangle.



SCALE 1:24 000  
 CONTOUR INTERVAL 10 FEET  
 DOTTED LINES REPRESENT 5-FOOT CONTOURS  
 DATUM IS MEAN SEA LEVEL



**Figure 1. Site Location Map**  
 Grede Foundries, Inc.  
 1570 S. First Street, Milwaukee, Wisconsin

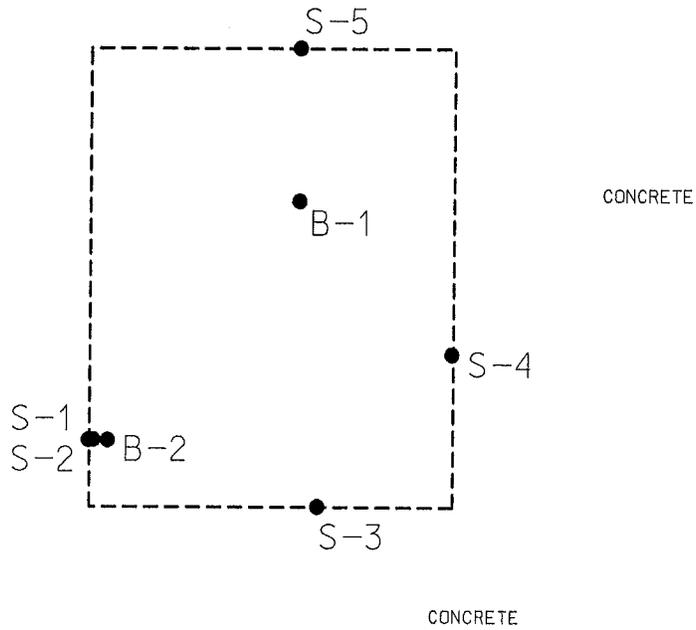






GREDE FOUNDRIES  
BUILDING

CONCRETE



GREDE FOUNDRIES  
BUILDING

LEGEND

- = CONFIRMATION SOIL SAMPLE LOCATION
- = EXTENT OF EXCAVATION  
(APPROX. 5' DEPTH)

NOTE:  
DIMENSIONS DEPICTED ON MAP ARE FOR REFERENCE  
ONLY - SITE HAS NOT BEEN SURVEYED.



**GREDE FOUNDRIES, INC.**

1570 SOUTH 1st STREET, MILWAUKEE, WI



DATE: 2-20-04

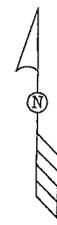
DR. BY: BEB

DR.# 8453-001

SCALE: 1" = 10'

SOIL EXCAVATION EXTENT

FIGURE 2



S-5	
DEPTH	4'
DATE	12-8-03
GRO	<5.41
DRO	60.2
PVOC	ND

B-1	
DEPTH	6'
DATE	12-8-03
GRO	<6.08
DRO	<6.08
PVOC	ND

GREDE FOUNDRIES BUILDING

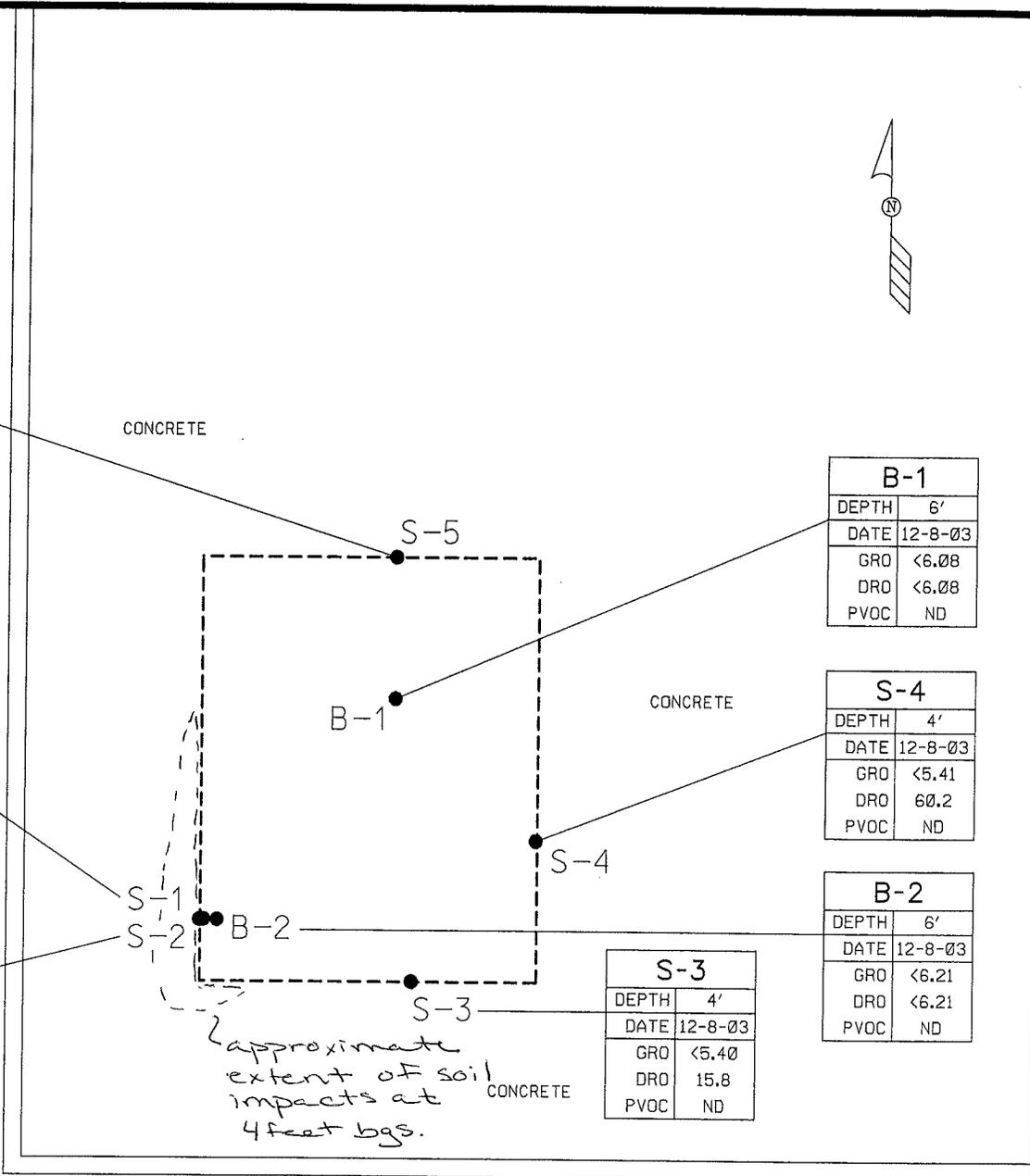
S-1	
DEPTH	2'
DATE	12-8-03
GRO	<5.58
DRO	5.89
PVOC	ND

S-4	
DEPTH	4'
DATE	12-8-03
GRO	<5.41
DRO	60.2
PVOC	ND

S-2	
DEPTH	4'
DATE	12-8-03
GRO	<5.94
DRO	[3,420]
PVOC	ND

B-2	
DEPTH	6'
DATE	12-8-03
GRO	<6.21
DRO	<6.21
PVOC	ND

S-3	
DEPTH	4'
DATE	12-8-03
GRO	<5.40
DRO	15.8
PVOC	ND



approximate extent of soil impacts at 4 feet bgs.

**ANALYTICAL KEY**

- GRO = GASOLINE RANGE ORGANICS
- DRO = DIESEL RANGE ORGANICS
- PVOC = PETROLEUM VOLATILE ORGANIC COMPOUNDS
- ND = NOT DETECTED
- [ ] = EXCEEDS NR 720 RCLs

ALL CONCENTRATIONS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/kg)

**LEGEND**

- = CONFIRMATION SOIL SAMPLE LOCATION
- - - = EXTENT OF EXCAVATION (APPROX. 5' DEPTH)

NOTE: DIMENSIONS DEPICTED ON MAP ARE FOR REFERENCE ONLY - SITE HAS NOT BEEN SURVEYED.



**GREDE FOUNDRIES, INC.**

1570 SOUTH 1st STREET, MILWAUKEE, WI



DATE: 2-20-04 DR. BY: BEB DR. # 8453-002

SCALE: 1" = 10'

**SOIL QUALITY MAP**

**FIGURE 3**

Soil Analytical Results  
Grede Foundries  
Milwaukee, Wisconsin  
Project Number 8453

Sample Location	Unites	S-1	S-2	S-3	S-4	S-5	B-1	B-2	NR
Depth	feet	2	4	4	4	4	6	6	720
Date		12/8/2003	12/8/2003	12/8/2003	12/8/2003	12/8/2003	12/8/2003	12/8/2003	RCL
Gasoline Range Organics	mg/kg	<5.58	<5.94	<5.40	<5.41	<5.48	<6.08	<6.21	100
Diesel Range Organics	mg/kg	<b>5.89</b>	<b>3420</b>	<b>15.8</b>	<b>60.2</b>	<5.48	<6.08	<6.21	100
Petroleum Volatile Organic Compounds									
Benzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	5.5
Ethylbenzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2900
Methyl tert butyl benzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA
Toluene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1500
1,2,4-Trimethylbenzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA
1,3,5-Trimethylbenzene	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA
Total Xylenes	µg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	4100

Notes:

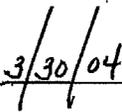
mg/kg = milligrams per kilogram  
µg/kg = micrograms per kilogram  
NR 720 RCL = Chapter NR 720 Residual Contaminant Levels  
**BOLD** = Concentrations detected above laboratory detection limit  
**BOLD** = Concentrations detected above NR 720 RCLs

Grede Foundries, Inc., the responsible party for the property located at 1570 South 1<sup>st</sup> Street, Milwaukee, Wisconsin, states that the legal description provided to the Wisconsin Department of Natural Resources (and attached to this statement) is complete and accurate to the best of our knowledge.

Signature of Representative for Responsible Party:

Date:

  
\_\_\_\_\_

  
\_\_\_\_\_