GIS REGISTRY
Cover Sheet

July 2008

Source Property Information

BRRTS #:	03-41-002034	Closure Date:	February 2, 2009
ACTIVITY NAME:	Lincoln Garage-Gas & Diesel	FID#:	
PROPERTY ADDRESS:	3921 W Lincoln Ave	DATCP#:	
MUNICIPALITY:	Milwaukee	COMM#:	53215-2340-21-A
PARCEL ID#:	493-9962-115		

***WTM Coordinates:**

X: 685885 Y: 282984

**Coordinates are in WTM83, NAD83 (1991)*

WTM Coordinates Represent:

- (●) Approximate Center of Contaminant Source
- ( ) Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

- [x] Groundwater Contamination > ES *(236)*
  - [ ] Groundwater Contamination in ROW
  - [ ] Off-Source Contamination

  *(**note:** for list of impacted off-source properties see attached list of "Impacted Off-Source Property")*

- [x] Soil Contamination > *RCLs or **SSRCL *(232)*
  - [ ] Soil Contamination in ROW
  - [ ] Off-Source Contamination

  *(**note:** for list of impacted off-source properties see attached list of "Impacted Off-Source Property")*

Land Use Controls:

- [ ] Soil: maintain industrial zoning *(220)*

  *(**note:** soil contaminant concentrations between residential and industrial levels)*

- [ ] Structural Impediment *(224)*
- [ ] Site-Specific Condition *(228)*
- [ ] Cover or Barrier *(222)*

  *(**note:** maintenance plan for groundwater or direct contact)*

- [ ] Vapor Mitigation *(226)*
- [ ] Maintain Liability Exemption *(230)*

  *(**note:** local government or economic development corporation)*

Monitoring wells properly abandoned? *(234)*

( ) Yes (●) No ( ) N/A

**Residual Contaminant Level*
***Site Specific Residual Contaminant Level*

State of Wisconsin Department of Natural Resources http://dnr.wi.gov	**GIS Registry Checklist** Form 4400-245 (R 4/08) Page 1 of 3

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: 03-41-002034 PARCEL ID #: 493-9962-115

ACTIVITY NAME: Lincoln Avenue Storage Garage WTM COORDINATES: X: 685885 Y: 282984

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

- [x] **Closure Letter**
- [ ] **Maintenance Plan** *(if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)*
- [x] **Conditional Closure Letter**
- [ ] **Certificate of Completion (COC)** for VPLE sites

SOURCE LEGAL DOCUMENTS

- [x] **Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
  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.*
- [x] **Certified Survey Map:** A copy of the certified survey 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. lot 2 of xyz subdivision)).

  Figure #: **Title: C.S. Map 5361**
- [x] **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(h))

Maps must be no larger than 8.5 x 14 inches unless the map is submitted electronically.

- [x] **Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
  Note: *Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.*

  Figure #: 1 **Title: Site Location Map**
- [x] **Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to 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 a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.

  Figure #: 2 **Title: Site Plan Map**
- [x] **Soil Contamination Contour Map:** For sites closing with residual soil contamination, <u>this map is to show the location of all contaminated soil and a single contour</u> showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL)as determined under s. NR 720.09, 720.11 and 720.19.

  Figure #: 5 **Title: Soil Quality Map**

BRRTS #: 03-41-002034 ACTIVITY NAME: Lincoln Avenue Storage Garage

MAPS (continued)

☒ **Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: 7 **Title: Cross-Section Location Map**

Figure #: 8 **Title: Geologic Cross-Section A-A'**

☒ **Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.
Note: *This is intended to show the total area of contaminated groundwater.*

Figure #: 6 **Title: Groundwater Quality Map**

☒ **Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more then 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: 3 **Title: Groundwater Contour Map (11-12-07)**

Figure #: **Title:**

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 8.5 x 14 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

☒ **Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.
Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: 2 **Title: Soil Quality Analytical Results**

☒ **Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: 3 **Title: Monitoring Well Groundwater Quality Analytical Results**

☒ **Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: 1 **Title: Groundwater Elevation Data**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.
Note: *If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.*

☐ **Not Applicable**

☒ **Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.
Note: *If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.*

Figure #: 2 **Title: Site Plan Map**

☒ **Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

☒ **Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

☐ **Notification Letter:** Copy of the notification letter to the affected property owner(s).

BRRTS #: 03-41-002034 ACTIVITY NAME: Lincoln Avenue Storage Garage

NOTIFICATIONS

Source Property

☐ **Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.

☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

☐ **Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.
Note: *Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.*

Number of "Off-Source" Letters:

☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.

☐ **Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies).** This does not apply to right-of-ways.
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.*

☐ **Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

Number of "Governmental Unit/Right-Of-Way Owner" Letters: NA

commerce.wi.gov
Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
9316 North 107th Street
Milwaukee, Wisconsin 53224-1121
TTY: Contact Through Relay
Fax: (414) 357-4700
Jim Doyle, Governor
Richard J. Leinenkugel, Secretary

February 2, 2009

Mr. Thomas Tarkowski
Department of Public Works
City of Milwaukee
841 North Broadway
Milwaukee, WI 53202

RE: **Final Closure with Land Use Limitation for an Improperly Abandoned Monitoring Well**

Commerce # 53215-2340-21-A DNR BRRTS # 03-41-002034
Lincoln Garage, 3921 West Lincoln Avenue, Milwaukee

One 10,000-gallon leaded gasoline underground storage tank (UST) removed October 18, 1991
One 10,000-gallon unleaded gasoline UST removed May 26, 1994
One 10,000-gallon diesel UST removed January 22, 1997

Dear Mr. Tarkowski:
On December 12, 2008, the Wisconsin Department of Commerce (Commerce) determined that this site does not pose a significant threat to human health and the environment and, consequently, conditionally closed the site with the requirement that all monitoring wells be properly abandoned. Commerce has been informed that monitoring well MW-3 could not be properly abandoned because it may have been destroyed during site redevelopment activities.

Additionally, it is understood that monitoring well MW-2 was not abandoned because approximately one inch of free product that appeared to be hydraulic fluid was discovered during abandonment activities. Commerce understands that monitoring well MW-2 will be used for further investigation of the free product and results reported to the Department of Natural Resources (DNR). Commerce is forwarding a copy of Sigma's January 27, 2009 cover letter that was attached to the monitoring well abandonment forms and a site figure showing the location of MW-2 to the DNR. The DNR will determine whether a new Bureau of Remediation and Redevelopment Tracking System (BRRTS) number will be issued or if they will track this information under BRRTS number 03-41-201847.

Recent changes in state law allow Commerce to approve final closure of your site as long as the current and subsequent property owners adhere to the following limitation:

> If monitoring well MW-3 is located in the future, the then-current owner of the subject property will be required to properly abandon the well in compliance with the requirements in NR 141, Wis. Admin. Code, and submit the required abandonment documentation to Commerce.

Failure to adhere to this limitation may result in financial penalties from $10 to $5,000 per day in accordance with section 292.99(1), Wis. Stats. Be aware that property owners may be held liable for any contamination associated with improperly abandoned monitoring wells that create a conduit for contaminants to enter groundwater.

This site is now listed as "closed" on the Commerce database and will be included on the DNR Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual soil and groundwater contamination. To review all sites on the GIS Registry web page, visit

http://dnr.wi.gov/org/aw/rr/gis/index.htm. If you intend to construct or reconstruct a potable well on this property, you must get prior DNR approval.

All current and future owners and occupants of the property need to be aware that excavation of contaminated soil may pose a hazard. Special precautions may be needed to prevent inhalation, ingestion or dermal contact with the residual contamination when it is removed. If soil is excavated, 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 must determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable State regulations and standards.

Costs for sampling and excavation activities conducted after case closure are not eligible for PECFA reimbursement. However, if it is determined that any undisturbed remaining petroleum contamination poses a threat, the case may be reopened and further investigation or remediation may be required. If this case is reopened, any original claim under the PECFA fund would also reopen and you may apply for assistance to the extent of remaining eligibility. It is in your best interest to keep all documentation related to environmental activities at your site.

Thank you for your efforts to bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 357-4705.

Sincerely,

Monica Weis

Monica L. Weis
Senior Hydrogeologist
Site Review Section

cc: Mr. Stephen Owens, Sigma Environmental Services, Inc.
Ms. Nancy Ryan, DNR (with enclosures)

commerce.wi.gov
Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
9316 North 107th Street
Milwaukee, Wisconsin 53224-1121
TTY: Contact Through Relay
Fax: (414) 357-4700
Jim Doyle, Governor
Richard J. Leinenkugel, Secretary

December 12, 2008

Mr. Thomas Tarkowski
Department of Public Works
City of Milwaukee
841 North Broadway
Milwaukee, WI 53202

RE: **Conditional Case Closure**

Commerce # 53215-2340-21-A DNR BRRTS # 03-41-002034
Lincoln Garage, 3921 West Lincoln Avenue, Milwaukee

RE: One 10,000-gallon leaded gasoline underground storage tank (UST) removed October 18, 1991
One 10,000-gallon unleaded gasoline UST removed May 26, 1994
One 10,000-gallon diesel UST removed January 22, 1997

Dear Mr. Tarkowski:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, Sigma Environmental Services, Inc., for the site referenced above. It is understood that residual soil and groundwater contamination remains on site. Commerce has determined that this site does not pose a significant threat to the environment and human health. No further investigation or remedial action is necessary.

The following condition must be satisfied to obtain final closure:

- All monitoring wells must be properly abandoned within 60 days and the appropriate documentation forwarded to Commerce at the letterhead address within 120 days of the date of this letter. Noncompliance with the abandonment requirement and deadline can result in enforcement action and financial penalties.

Information submitted with your closure request will be included on the Department of Natural Resources (DNR) GIS Registry of Closed Remediation Sites. All sites on the Registry can be viewed via the Remediation and Redevelopment (RR) Sites Map at http://dnr.wi.gov/org/aw/rr/gis/index.htm. Because residual contamination remains at the time of case closure, if you intend to construct or reconstruct a potable well on this property, you must get prior DNR approval.

All current and future owners and occupants of the property need to be aware that excavation of contaminated soil may pose a hazard. Special precautions may be needed to prevent inhalation, ingestion or dermal contact with the residual contamination when it is removed. If soil is excavated, 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 must determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Costs for sampling and excavation activities conducted after the date of this letter are not eligible for PECFA reimbursement.

Timely filing of your final PECFA claim (if applicable) is encouraged. If your claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days from the date of this letter will not be eligible for PECFA reimbursement.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 357-4705.

Sincerely,

Monica Weis

Monica L. Weis
Senior Hydrogeologist
Site Review Section

cc: Mr. Stephen Owens, Sigma Environmental Services, Inc.

THIS INDENTURE, Made this 2nd day of ~~April~~ May, A.D., 1950, between The Mitchell Properties, Inc., a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located at Milwaukee, Wisconsin, party of the first part, and City of Milwaukee, a municipal corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located at Milwaukee, Wisconsin, party of the second part.

W I T N E S S E T H, That the said party of the first part, for and in consideration of the sum of Two Hundred Ninety Thousand and no/100ths Dollars ($290,000.00) 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 confirm unto the said party of the second part, its successors and assigns forever, the following described real estate, situated in the County of Milwaukee and State of Wisconsin, to-wit:

"That part of the North West One-quarter (N.W.1/4) of Section Twelve (12), Town Six (6) North, Range Twenty-one (21) East, partly in the City of Milwaukee and partly in the Town of Greenfield, bounded and described as follows:

"Commencing at a point on the North line Two Hundred Fifty-five and No One-hundredths (255.00) feet, South Eighty-eight degrees, Twenty-one minutes, Thirty seconds (88°21'30") West of the Northeast corner of said One-quarter (1/4) Section; thence South on a line parallel to the east line of said One-quarter (1/4) Section One Hundred Fifty-three and No One-hundredths (153.00) feet to a point; thence North Eighty-eight degrees, Twenty-one minutes, Thirty seconds (88°21'30") East on a line parallel to the north line of said One-quarter (1/4) Section One hundred and No One-hundredths (100.00) feet to a point; thence South on a line parallel to the east line of said One-quarter (1/4) Section One Thousand Three Hundred Fifty-two and Twenty-two One-hundredths (1352.22) feet to a point; thence South Thirteen degrees, Twenty-five minutes (13°25') West on a line One Hundred Ninety-one and Eighty-nine One-hundredths (191.89) feet to a point which is One Hundred Eighty and No One-hundredths

(180.00) feet North Sixty-six degrees, One minute, Thirty seconds (66°01'30") West of the East line of South Thirty-fifth (35th) Street and being in the northerly line of the Mitchell Yards of Chicago & North Western Railway; thence North Sixty-six degrees, One minute, Thirty seconds (66°01'30") West along the northerly line of said Yards Two Thousand Two Hundred Fifty-four and Seventeen One-hundredths (2254.17) feet to a point in the Easterly line of the Chicago & North Western Railway and Chicago, Milwaukee, St. Paul & Pacific Railway Co. Belt line right of way; thence northerly along the easterly line of said right of way on a curved line with a radius of Six Hundred Eighty-three and Eighty One-hundredths (683.80) feet, whose center point is to the east and the chord is One Hundred Thirty-two and Sixty-one One-hundredths (132.61) feet long and bears North Four degrees, Forty-four minutes, Eleven seconds (4°44'11") West, a distance of One Hundred Thirty-two and Eighty-two One-hundredths (132.82) feet to a point; thence North No degrees, Forty-four minutes, Thirty seconds (0°44'30") East along the east line of the same right of way Five Hundred Eighty-two and Eighty One-hundredths (582.80) feet to a point in the north line of said One-quarter (1/4) Section; thence North Eighty-eight degrees, Twenty-one minutes, Thirty seconds (88°21'30") East along the north line of said One-quarter (1/4) Section Two Thousand Eight and Forty-eight One-hundredths (2008.48) feet to the place of beginning, containing Fifty-eight and Twenty-seven One-hundredths (58.27) acres of land.

"Reserving from the above parcel the North Thirty-three and No One-hundredths (33.00) feet of the last described course and distance for street purposes."

This deed is given in fulfillment of land contract dated April 22, 1948.

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.

TO HAVE AND TO HOLD 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 The Mitchell Properties, Inc., 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 ensealing 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, 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 The Mitchell Properties, Inc., party of the first part, has caused these presents to be signed by Martin A. Fladoes, its President, and countersigned by George F. Kasten, its Secretary, at Milwaukee, Wisconsin, and its corporate seal to be hereunto affixed, this 2nd day of ~~April~~ May, A.D., 1950.

Signed and sealed in presence of:

John S. Owen

Lucille Nicoud

THE MITCHELL PROPERTIES, INC.

Martin A. Fladoes
MARTIN A. FLADOES, President

Countersigned:

George F. Kasten
GEORGE F. KASTEN, Secretary

STATE OF WISCONSIN)
MILWAUKEE COUNTY) ss.

Personally came before me, this 2nd day of ~~April~~ May, A.D., 1950, Martin A. Fladoes, President, and George F. Kasten, 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

Land - Garage - Storage - Market
S 35th St
W. Lincoln
File 47-953 7/6/48

ORIGINAL

No. 2944233

The Mitchell Properties, Inc.,
a Wisconsin corporation

To

City of Milwaukee, a municipal
corporation of the State of
Wisconsin

Lst A Rec

JUN-7-50 163404 2944233

* * * * * * * * * * * * * * * * *

WARRANTY DEED

* * * * * * * * * * * * * * * * *

Register's Office
State of Wisconsin
Milwaukee County

Received for Record this ____ day
of JUN -7 1950 A.D. 1950, at
9 30 o'clock A.M., and recorded
in Vol. 2251 of Deeds on page
154 to 157 incl.

Shelley C. Wiatrak
Register of Deeds

Deputy

WALTER J. MATTISON
City Attorney
801 City Hall
Milwaukee 2, Wisconsin

RETURN TO
COMPTROLLER'S OFFICE
City of Milwaukee

OK

TAX COMMISSIONERS OFFICE
JUN 2 1950
Deputy Tax Commissioner

COMPTROLLER'S OFFICE
No. 302
Dept. No.

that they executed the foregoing instrument as such officers as the deed of said corporation, by its authority.

NOTARY PUBLIC MILWAUKEE CO. (seal)

Wm. Appel Jr.
WM. APPEL, JR.
Notary Public, Milwaukee County, Wis.
My commission expires: Oct 18 1953

APPROVED as to Form and
Execution this 2nd
day of May 1950
Robert J. [illegible]
Assistant City Attorney

N.W. 12-6-21
ATLAS P. 493

493

SCALE 200'=1"

C.S. MAP No. 5361 JUN 20 1990

S 35TH ST

JACKSON PARK OVERPASS

493-0011-1

493-0012-2
PARCEL 2
393,764 ☐

493-9962-118
CITY OF MILW. PUBLIC WORKS

W HAYES AVE

W LINCOLN AVE

493-9962-114
CITY OF MILW. WATER WORKS

493-9962-115
CITY OF MILW. PUBLIC WORKS
ENG. TESTING LAB.

C & NW RR
MITCHELL YARDS
ADJ.

SEE P. 493-04

130' EAS'MT. TO SEWERAGE COMM. OF MILW.
FOR MILW. RIVER

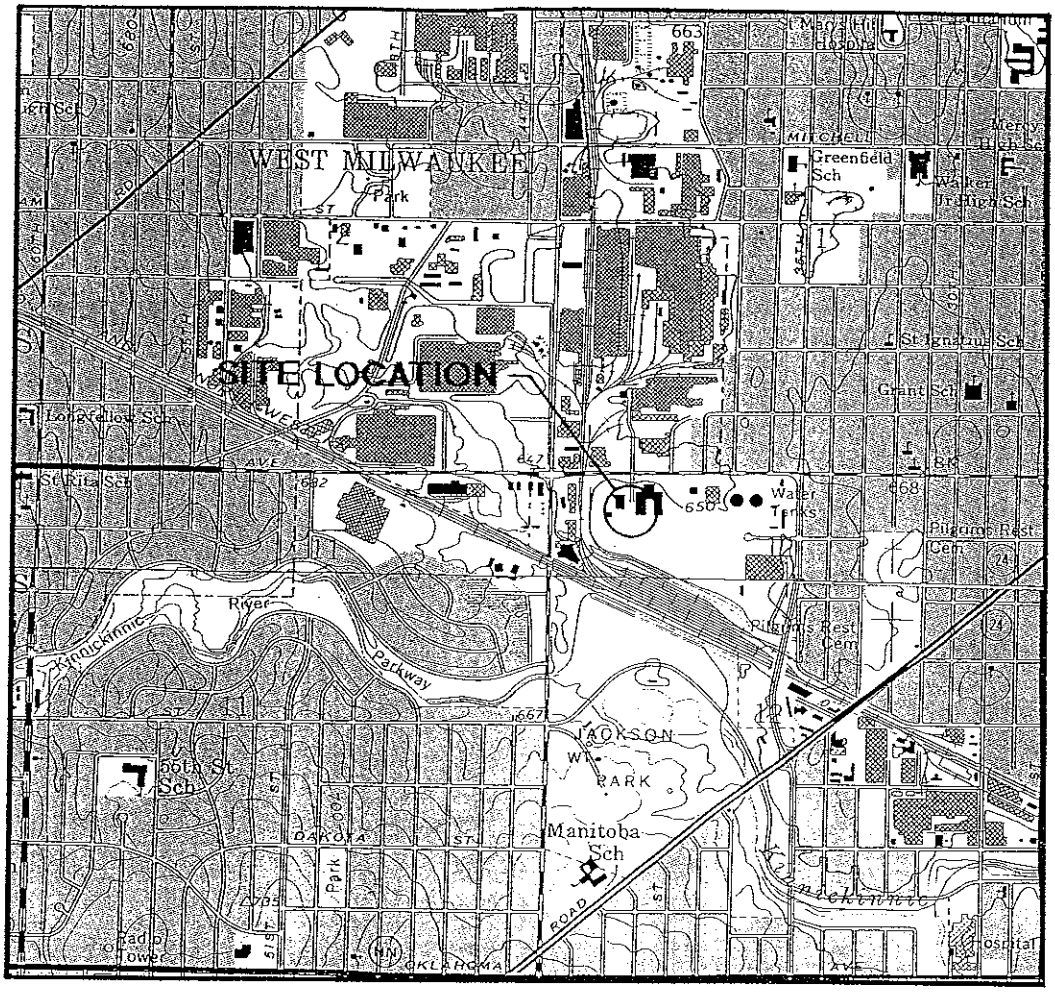
SOO LINE R.R. &
C & NW R.R. 493-9969-4
SEE P. 493-06 ADJ.

MICROFILMED

The City of Milwaukee, the responsible party for the Lincoln Garage property located at 3921 West Lincoln Avenue, Milwaukee, Wisconsin, states that the legal description provided to the Wisconsin Department of Natural Resources (and attached to this statement) for case file reference 03-41-002034 is complete and accurate to the best of our knowledge.

Signature of Representative for Responsible Party: Date:

Thomas E. Jankowski 11/6/08



1 ½ 0 1 MILE

1 ½ 0 1 KILOMETER

ADAPTED FROM U.S.G.S. 7.5 MINUTE SERIES, MILWAUKEE, WISCONSIN QUADRANGLE

CITY OF MILW.- LINCOLN GARAGE PROPERTY 3921 WEST LINCOLN AVENUE, MILWAUKEE, WI			SIGMA ENVIRONMENTAL SERVICES INC.
APP. BY:	DRAWN BY: BEB	DRAWING NUMBER	SCALE: SEE ABOVE
	REV.:	2077-001	DATE: 8-8-94
SITE LOCATION MAP			FIGURE 1

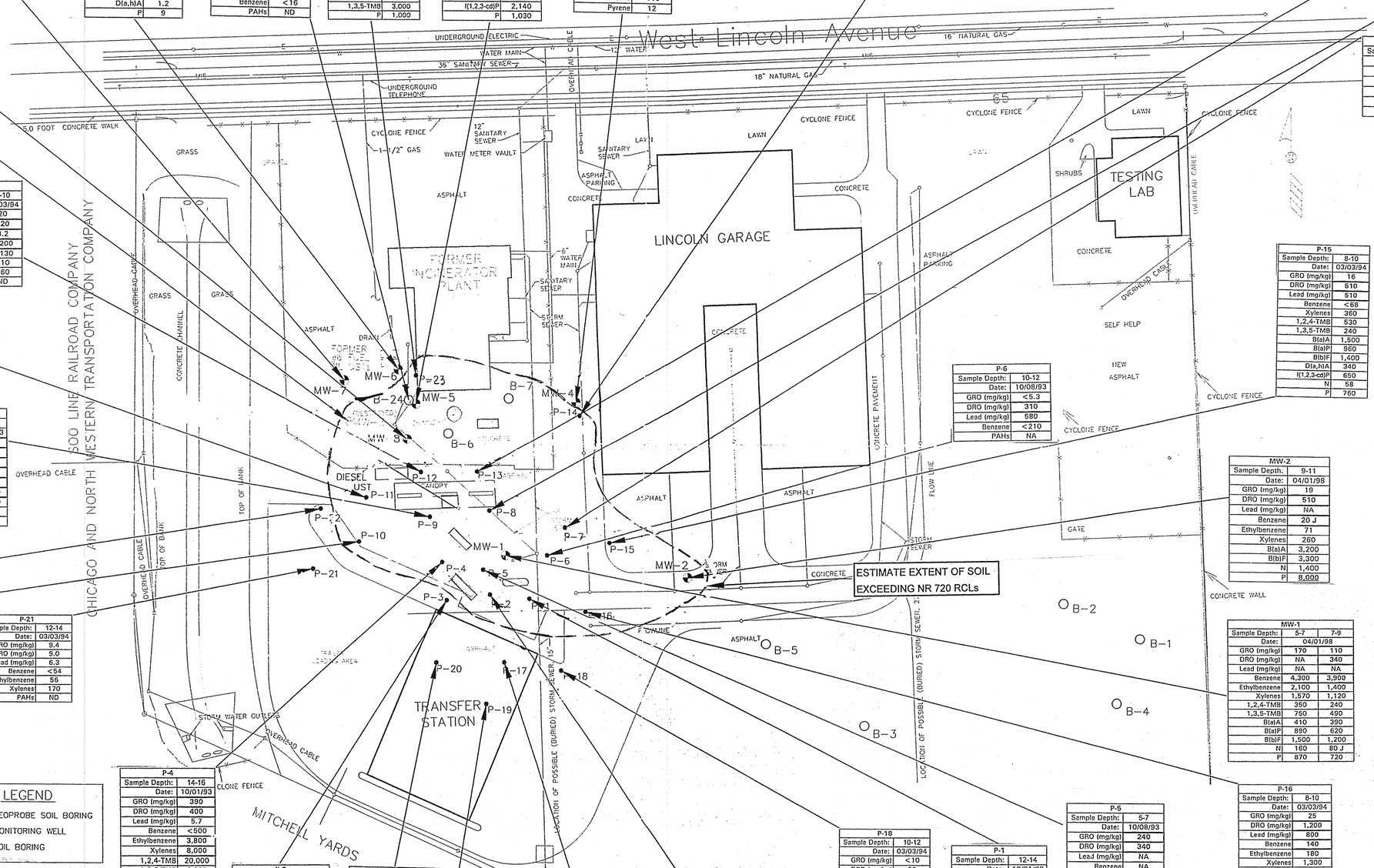
West Lincoln Avenue

UNDERGROUND ELECTRIC
WATER MAIN
36" SANITARY SEWER
12" WATER
16" NATURAL GAS
18" NATURAL GAS
UNDERGROUND TELEPHONE
OVERHEAD CABLE
5.0 FOOT CONCRETE WALK
CYCLONE FENCE
12" SANITARY SEWER
1-1/2" GAS
WATER METER VAULT
SANITARY SEWER
LAWN
ASPHALT PARKING
CONCRETE
GRASS
GRAVEL
ASPHALT
LINCOLN GARAGE
FORMER INCINERATOR PLANT
(DEMOLISHED)
6" WATER MAIN
SANITARY SEWER
STORM SEWER
DRAIN
2) #6 FUEL OIL USTs
MW-6
MW-7
MW-5
MW-4
(DESTROYED) MW-3
CHIMNEY
FORMER BLDG
MW-8
DIESEL UST
CANOPY
FORMER BLDG
FORMER GAS PUMPS
FORMER UNDERGROUND STORAGE TANKS
MW-1
MW-2
10" STORM SEWER
GRASS
CONCRETE CHANNEL
TOP OF BANK
SOO LINE RAILROAD COMPANY
CHICAGO AND NORTH WESTERN TRANSPORTATION COMPANY
OVERHEAD CABLE
TRAILER LOADING AREA
TRANSFER STATION
STORM WATER OUTLETS
CYCLONE FENCE
MITCHELL YARDS
LOCATION OF POSSIBLE (BURIED) STORM SEWER, 15"
FLOWLINE
CONCRETE PAVEMENT
FLOW LINE
LOCATION OF POSSIBLE (BURIED) STORM SEWER, 27"
65
SHRUBS
TESTING LAB
GATE
SELF HELP
NEW ASPHALT
CONCRETE WALL
N

GRAPHIC SCALE
0 50' 100' 200'

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

CITY OF MILWAUKEE LINCOLN GARAGE & LINCOLN INCINERATOR 3921 W. LINCOLN AVE., MILWAUKEE, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 4-17-06	DR. BY: BEB	DR.# 2360-004	SCALE: 1" = 100'
SITE PLAN			FIGURE 2



MW-7	
Sample Depth:	11-13
Date:	05/21/99
GRO (mg/kg)	NA
DRO (mg/kg)	2.7
Lead (mg/kg)	NA
Benzene	NA
B(a)A	33
B(a)P	50
B(b)F	40
D(a,h)A	14
I(1,2,3-cd)P	<32
P	99

MW-6	
Sample Depth:	11-13
Date:	05/21/99
GRO (mg/kg)	NA
DRO (mg/kg)	<1.0
Lead (mg/kg)	NA
Benzene	NA
B(a)A	3.1
B(a)P	3.5
B(b)F	3.1
D(a,h)A	1.2
P	9

B-24	
Sample Depth:	9-11
Date:	04/01/98
GRO (mg/kg)	3.0 J
DRO (mg/kg)	4.7
Lead (mg/kg)	NA
Benzene	<16
PAHs	ND

P-23	
Sample Depth:	12-14
Date:	03/03/94
GRO (mg/kg)	320
DRO (mg/kg)	6,300
Lead (mg/kg)	4.9
Benzene	<1,100
1,2,4-TMB	5,100
1,3,5-TMB	3,000
P	1,000

MW-5	
Sample Depth:	11-13
Date:	05/21/99
GRO (mg/kg)	NA
DRO (mg/kg)	13
Lead (mg/kg)	NA
Benzene	NA
B(a)A	1,830
B(a)P	2,280
B(b)F	2,280
D(a,h)A	1,120
I(1,2,3-cd)P	2,140
P	1,030

MW-4	
Sample Depth:	13-15
Date:	04/01/98
GRO (mg/kg)	2.4 J
DRO (mg/kg)	1.8 J
Lead (mg/kg)	NA
Benzene	<15
Pyrene	12

P-14	
Sample Depth:	6-8
Date:	03/03/94
GRO (mg/kg)	100
DRO (mg/kg)	580
Lead (mg/kg)	250
Benzene	<58
1,3,5-TMB	*16,300*
B(a)A	1,800
B(a)P	1,200
B(b)F	2,100
D(a,h)A	220
I(1,2,3-cd)P	250
N	180
P	3,900

P-13	
Sample Depth:	10-12
Date:	03/03/94
GRO (mg/kg)	11
DRO (mg/kg)	<5.4
Lead (mg/kg)	5.8
Benzene	<62
Xylenes	140
PAHs	ND

P-8		
Sample Depth:	10-12	14-16
Date:	10/08/93	
GRO (mg/kg)	33	29
DRO (mg/kg)	30	5.5
Lead (mg/kg)	<28	NA
Benzene	1,100	NA
PAHs	NA	NA

MW-8	
Sample Depth:	9-11
Date:	05/21/99
GRO (mg/kg)	NA
DRO (mg/kg)	<4.0
Lead (mg/kg)	NA
Benzene	NA
B(a)A	673
B(a)P	536
B(b)F	539
D(a,h)A	149
P	366

P-7		
Sample Depth:	5-7	14-16
Date:	10/08/93	
GRO (mg/kg)	<3.2	7.8
DRO (mg/kg)	82	7.1
Lead (mg/kg)	520	NA
Benzene	<130	NA
PAHs	NA	NA

MW-3	
Sample Depth:	7-9
Date:	04/01/98
GRO (mg/kg)	7.8
DRO (mg/kg)	110
Lead (mg/kg)	NA
Benzene	<17
N	*2,900*
PAHs	NA

P-12	
Sample Depth:	8-10
Date:	03/03/94
GRO (mg/kg)	20
DRO (mg/kg)	120
Lead (mg/kg)	3.2
Benzene	1,200
Ethylbenzene	<130
Xylenes	310
MTBE	260
PAHs	ND

P-15	
Sample Depth:	8-10
Date:	03/03/94
GRO (mg/kg)	16
DRO (mg/kg)	510
Lead (mg/kg)	510
Benzene	<68
Xylenes	360
1,2,4-TMB	530
1,3,5-TMB	240
B(a)A	1,500
B(a)P	960
B(b)F	1,400
D(a,h)A	340
I(1,2,3-cd)P	650
N	58
P	760

P-11	
Sample Depth:	12-14
Date:	03/03/94
GRO (mg/kg)	23
DRO (mg/kg)	6.4
Lead (mg/kg)	3.4
Benzene	220
Ethylbenzene	100
Xylenes	460
1,3,5-TMB	120
PAHs	ND

P-6	
Sample Depth:	10-12
Date:	10/08/93
GRO (mg/kg)	<5.3
DRO (mg/kg)	310
Lead (mg/kg)	580
Benzene	<210
PAHs	NA

P-9	
Sample Depth:	14-16
Date:	10/08/93
GRO (mg/kg)	1,600
DRO (mg/kg)	350
Lead (mg/kg)	11
Benzene	1,200
Ethylbenzene	*16,000*
Xylenes	37,000
1,2,4-TMB	44,000
1,3,5-TMB	*13,000*
PAHs	NA

MW-2	
Sample Depth:	9-11
Date:	04/01/98
GRO (mg/kg)	19
DRO (mg/kg)	510
Lead (mg/kg)	NA
Benzene	20 J
Ethylbenzene	71
Xylenes	260
B(a)A	3,200
B(b)F	3,300
N	1,400
P	8,000

P-22	
Sample Depth:	10-12
Date:	03/03/94
GRO (mg/kg)	7.5
DRO (mg/kg)	5.7
Lead (mg/kg)	4.2
Benzene	<60
Ethylbenzene	82
Xylenes	250
1,2,4-TMB	110
PAHs	ND

P-10	
Sample Depth:	12-14
Date:	03/03/94
GRO (mg/kg)	28
DRO (mg/kg)	150
Lead (mg/kg)	12
Benzene	140
Ethylbenzene	210
Xylenes	560
1,2,4-TMB	340
1,3,5-TMB	190
B(a)A	130
B(a)P	140
B(b)F	130
I(1,2,3-cd)P	66
N	74
P	120

P-21	
Sample Depth:	12-14
Date:	03/03/94
GRO (mg/kg)	9.4
DRO (mg/kg)	9.0
Lead (mg/kg)	6.3
Benzene	<54
Ethylbenzene	56
Xylenes	170
PAHs	ND

MW-1		
Sample Depth:	5-7	7-9
Date:	04/01/98	
GRO (mg/kg)	170	110
DRO (mg/kg)	NA	340
Lead (mg/kg)	NA	NA
Benzene	4,300	3,900
Ethylbenzene	2,100	1,400
Xylenes	1,570	1,120
1,2,4-TMB	350	240
1,3,5-TMB	750	490
B(a)A	410	390
B(a)P	890	620
B(b)F	1,500	1,200
N	160	80 J
P	870	720

P-4	
Sample Depth:	14-16
Date:	10/01/93
GRO (mg/kg)	390
DRO (mg/kg)	400
Lead (mg/kg)	5.7
Benzene	<500
Ethylbenzene	3,800
Xylenes	8,000
1,2,4-TMB	20,000
1,3,5-TMB	6,200
MTBE	1,000
B(a)A	40
B(a)P	<680
B(b)F	<680
N	1,800
P	250

P-16	
Sample Depth:	8-10
Date:	03/03/94
GRO (mg/kg)	25
DRO (mg/kg)	1,200
Lead (mg/kg)	800
Benzene	140
Ethylbenzene	180
Xylenes	1,300
B(a)A	3,200
B(a)P	2,300
B(b)F	4,600
D(a,h)A	560
I(1,2,3-cd)P	2,000
N	410
P	3,100

P-5	
Sample Depth:	5-7
Date:	10/08/93
GRO (mg/kg)	240
DRO (mg/kg)	340
Lead (mg/kg)	NA
Benzene	NA
PAHs	NA

P-18	
Sample Depth:	10-12
Date:	03/03/94
GRO (mg/kg)	<10
DRO (mg/kg)	26
Lead (mg/kg)	64
Benzene	<100
B(a)A	800
B(a)P	740
B(b)F	1,200
I(1,2,3-cd)P	440
P	820

P-1	
Sample Depth:	12-14
Date:	10/01/93
GRO (mg/kg)	9.8
DRO (mg/kg)	NA
Lead (mg/kg)	5.2
Benzene	<51
PAHs	NA

P-2		
Sample Depth:	5-7	14-16
Date:	10/01/93	
GRO (mg/kg)	2,300	150
DRO (mg/kg)	7,100	NA
Lead (mg/kg)	1,049	NA
Benzene	<2,500	NA
Ethylbenzene	<2,500	NA
Xylenes	6,000	NA
1,2,4-TMB	68,000	NA
1,3,5-TMB	*43,000*	NA
B(a)A	82	NA
B(a)P	82	NA
B(b)F	120	NA
N	1,900	NA
P	120	NA

P-3	
Sample Depth:	14-16
Date:	10/01/93
GRO (mg/kg)	86
DRO (mg/kg)	49
Lead (mg/kg)	3.3
Benzene	<250
Ethylbenzene	510
Xylenes	640
1,3,5-TMB	550
MTBE	350
PAHs	NA

P-20	
Sample Depth:	10-12
Date:	03/03/94
GRO (mg/kg)	<5.5
DRO (mg/kg)	<5.1
Lead (mg/kg)	6.3
Benzene	<55
PAHs	ND

P-19	
Sample Depth:	10-12
Date:	03/03/94
GRO (mg/kg)	<5.3
DRO (mg/kg)	<5.4
Lead (mg/kg)	4.3
Benzene	<53
PAHs	ND

P-17	
Sample Depth:	14-16
Date:	03/03/94
GRO (mg/kg)	<5.2
DRO (mg/kg)	5.9
Lead (mg/kg)	4.9
Benzene	<52
PAHs	ND

LEGEND

- ● = GEOPROBE SOIL BORING
- ◐ = MONITORING WELL
- ○ = SOIL BORING

NOTE:
WELL LOCATIONS AND ELEVATIONS WERE SURVEYED BY EMCS–1999

SCALE: 1" = 100'

0' 50' 100' 150' 200'

ANALYTICAL KEY

GRO = GASOLINE RANGE ORGANICS
DRO = DIESEL RANGE ORGANICS
TMB = TRIMETHYLBENZENE
MTBE = METHYL-TERT BUTYL ETHER
PAH = POLYCYCLIC AROMATIC HYDROCARBONS
B(a)A = BENZO(a)ANTHRACENE
B(b)F = BENZO(b)FLUORANTHENE
B(a)P = BENZO(a)PYRENE
D(a,h)A = DIBENZO(a,h)ANTHRACENE
I(1,2,3-cd)P = INDENO(1,2,3-cd)PYRENE
P = PHENANTHRENE
N = NAPHTHALENE
NA = NOT ANALYZED
ND = NOT DETECTED
J = DETECTED BETWEEN LIMIT OF DETECTION AND LIMIT OF QUANTITATION
box = CONCENTRATION EXCEEDS NR 720 RCL
ITALICS = CONCENTRATION EXCEEDS NR 746 TABLE 1 SOIL SCREENING LEVEL
Underline = CONCENTRATION EXCEEDS PAH SUGGESTED GROUNDWATER PATHWAY RCL
ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg), UNLESS NOTED

THE SIGMA GROUP
Single Source. Sound Solutions.
www.thesigmagroup.com
1300 West Canal Street
Milwaukee, Wisconsin 53233
Phone: 414-643-4200
Fax: 414-643-4210

SCALE – 1" = 100' 0' 50' 100' 150' 200'

NO	DATE	REVISIONS	BY	APVD

	NAME:	DATE:
DRAWN BY:	JRM	6/17/08
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

City of Milwaukee: Lincoln Garage & Lincoln Incinerator

3921 W. Lincoln Ave., Milwaukee, WI

Soil Quality Map

DRAWING NUMBER
2360–004

Figure 5

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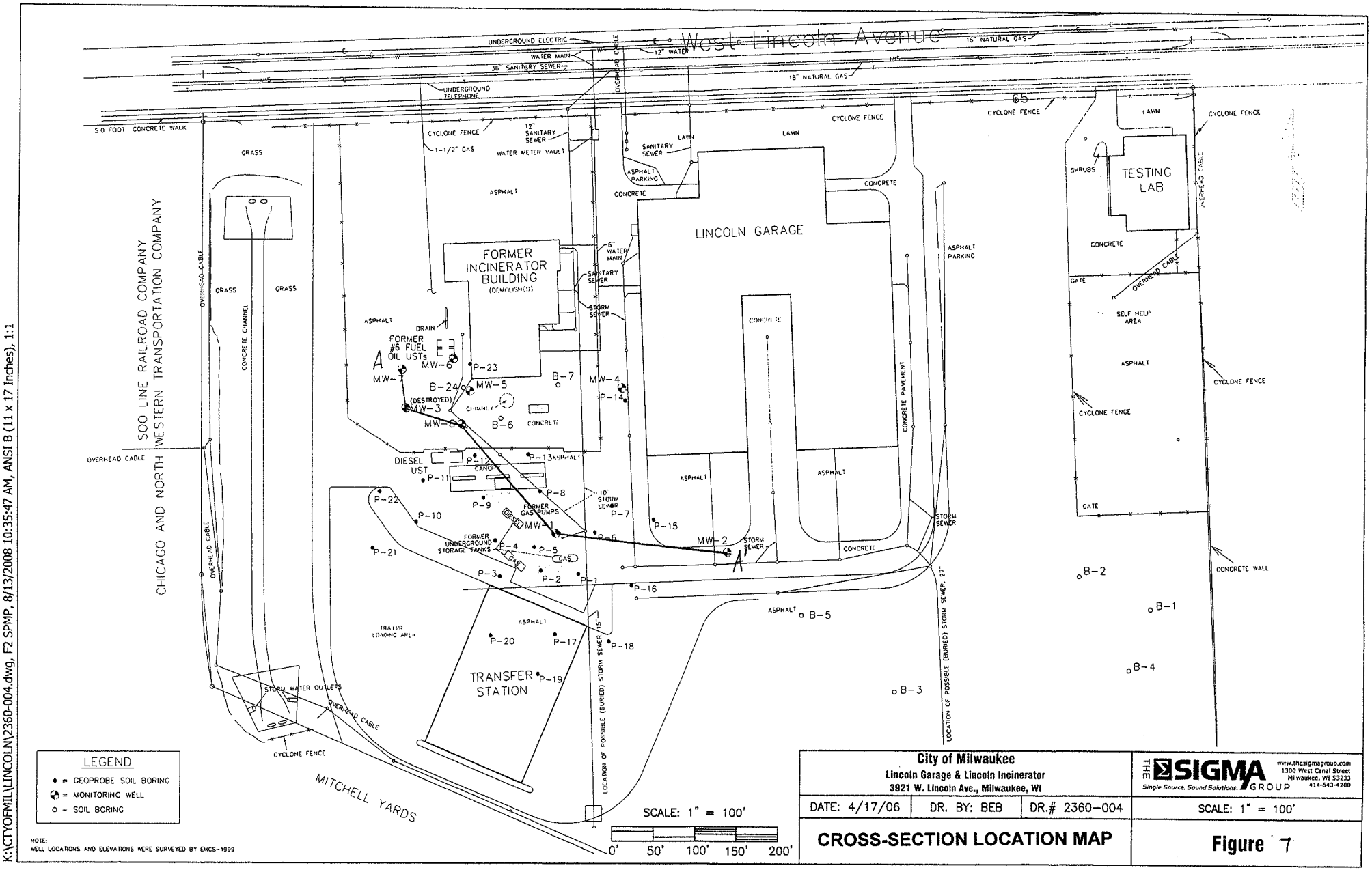

NOTE:
WELL LOCATIONS AND ELEVATIONS WERE SURVEYED BY EMCS-1999

City of Milwaukee Lincoln Garage & Lincoln Incinerator 3921 W. Lincoln Ave., Milwaukee, WI			THE SIGMA GROUP Single Source. Sound Solutions. www.thesigmagroup.com 1300 West Canal Street Milwaukee, WI 53233 414-643-4200
DATE: 4/17/06	DR. BY: BEB	DR.# 2360-004	SCALE: 1" = 100'
CROSS-SECTION LOCATION MAP			Figure 7

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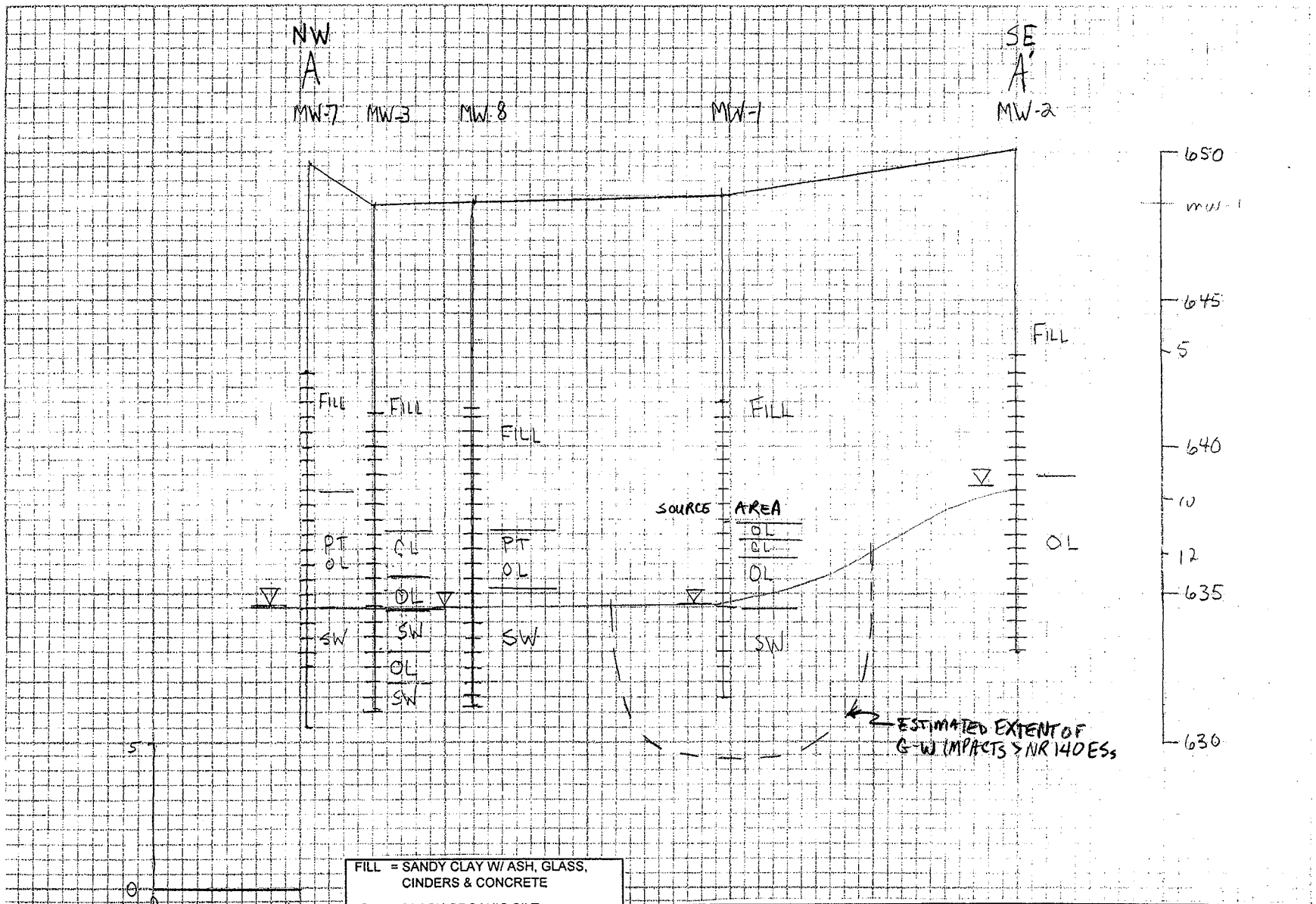


FILL	= SANDY CLAY W/ ASH, GLASS, CINDERS & CONCRETE
OL	= BLACK ORGANIC SILT
CL	= SILTY ORGANIC CLAY W/ SHELLS
SW	= GRAY FINE TO COARSE SAND
PT	= BLACK ORGANIC SILT & PEAT

LEGEND

- ▽ = STATIC WATER LEVEL
- ≡ = WELL SCREEN INTERVAL

City of Milwaukee
Lincoln Garage & Lincoln Incinerator
3921 W. Lincoln Ave., Milwaukee, WI

THE SIGMA GROUP — Single Source. Sound Solutions.
www.thesigmagroup.com
1300 West Canal Street
Milwaukee, WI 53233
414-643-4200

DATE: 4/17/06	DR. BY: BEB	DR.# 2360-004	SCALE: ~~1" = 100'~~

GEOLOGIC CROSS-SECTION A - A'

Figure 8

MW-7							
Analyte	6/14/99	9/13/99	12/8/99	4/10/00	11/21/02	3/14/06	11/12/07
Benzene	<0.33	<0.68	<0.68	<0.68	<0.44	<0.442	<0.26
Naphthalene	<0.46	<3.1	<3.1	<3.1	5.3	<0.0090	<0.018
B(a)p	0.4	<0.04	<0.04	<0.04	<0.01	<0.011	<0.015
B(b)f	<0.35	<0.07	<0.07	<0.07	0.1	<0.0066	<0.014
Chrysene	<2.5	<0.5	<0.5	<0.5	0.11	<0.011	<0.016

MW-6							
Analyte	6/14/99	9/13/99	12/8/99	4/10/00	11/21/02	3/14/06	11/12/07
Benzene	<0.33	<0.68	<0.68	<0.68	<0.44	<0.442	<0.26
Naphthalene	<0.46	<3.1	<3.1	<3.1	1.7	<0.0090	<0.018
B(a)p	0.42	<0.80	0.19	0.04	0.02	<0.011	<0.015
B(b)f	<0.35	<1.4	0.26	<0.07	0.020	<0.0066	<0.014
Chrysene	<2.5	<10	<0.50	<0.5	0.05	<0.011	<0.016

MW-3	
Analyte	4/21/98
Benzene	<0.01
Naphthalene	<0.01
B(a)p	0.23
B(b)f	0.13
Chrysene	0.23

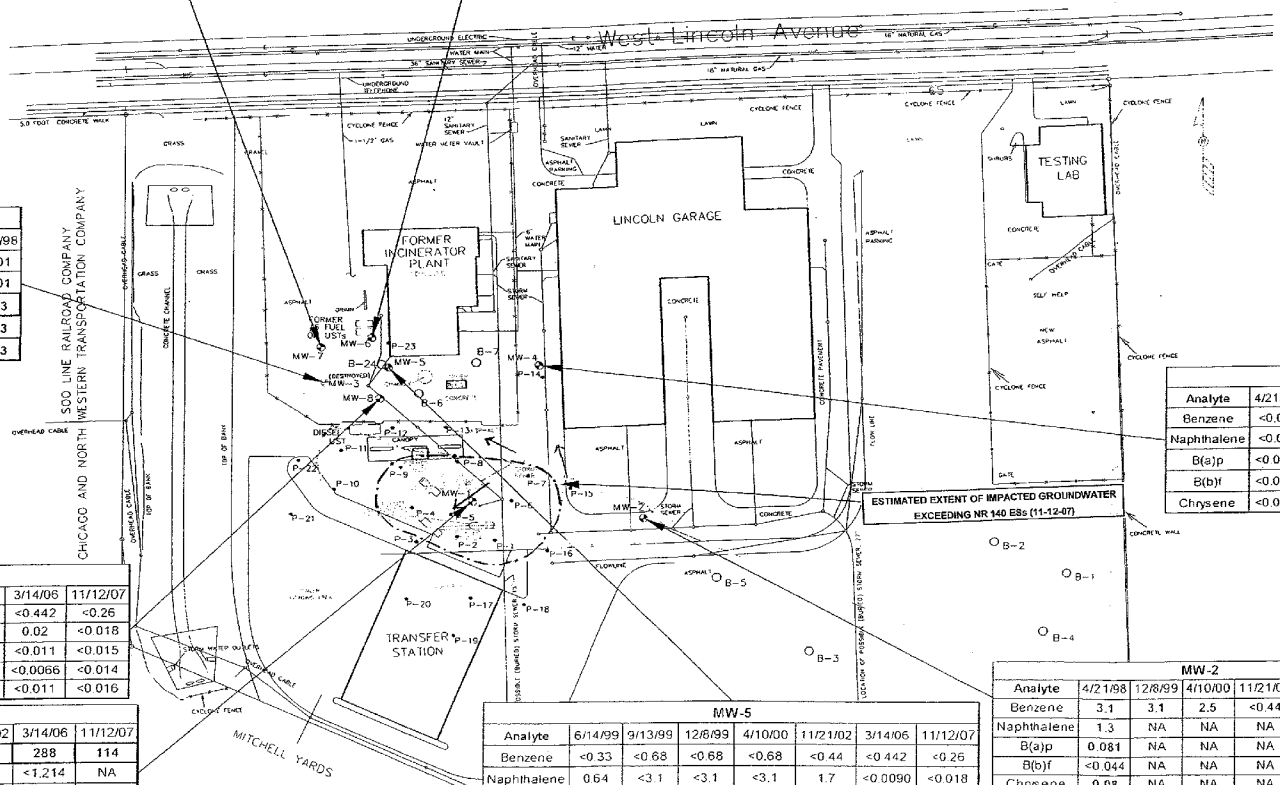
MW-4						
Analyte	4/21/98	12/8/99	4/10/00	11/21/02	3/14/06	11/12/07
Benzene	<0.01	<0.66	<0.42	<0.44	<0.443	<0.22
Naphthalene	<0.01	NA	NA	NA	NA	NA
B(a)p	<0.029	NA	NA	NA	NA	NA
B(b)f	<0.046	NA	NA	NA	NA	NA
Chrysene	<0.014	NA	NA	NA	NA	NA

MW-8							
Analyte	6/14/99	9/13/99	12/8/99	4/10/00	11/21/02	3/14/06	11/12/07
Benzene	<0.33	<0.68	<0.68	<0.68	<0.44	<0.442	<0.26
Naphthalene	<0.46	<3.1	<3.1	<3.1	<0.22	0.02	<0.018
B(a)p	0.22	0.1	<0.04	<0.04	<0.01	<0.011	<0.015
B(b)f	<0.35	<0.07	<0.07	<0.07	<0.01	<0.0066	<0.014
Chrysene	<2.5	<0.5	<0.5	<0.5	<0.01	<0.011	<0.016

MW-1						
Analyte	4/21/98	12/8/99	4/10/00	11/21/02	3/14/06	11/12/07
Benzene	950	207	383	34	288	114
Naphthalene	160	NA	NA	NA	<1.214	NA
B(a)p	0.26	NA	NA	NA	<0.011	NA
B(b)f	0.072	NA	NA	NA	<0.0066	NA
Chrysene	0.066	NA	NA	NA	<0.011	NA

MW-5							
Analyte	6/14/99	9/13/99	12/8/99	4/10/00	11/21/02	3/14/06	11/12/07
Benzene	<0.33	<0.68	<0.68	<0.68	<0.44	<0.442	<0.26
Naphthalene	0.64	<3.1	<3.1	<3.1	1.7	<0.0090	<0.018
B(a)p	2.0	0.31	0.06	0.25	0.13	0.28	0.016 J
B(b)f	<1.4	0.28	<0.07	0.22	0.020	<0.0066	0.017 J
Chrysene	<10	1.1	<0.50	1.7	0.15	<0.011	0.021 J

MW-2						
Analyte	4/21/98	12/8/99	4/10/00	11/21/02	3/14/06	11/12/07
Benzene	3.1	3.1	2.5	<0.44	<0.44	3.14
Naphthalene	1.3	NA	NA	NA	<1.214	NA
B(a)p	0.081	NA	NA	NA	<0.011	NA
B(b)f	<0.044	NA	NA	NA	<0.0066	NA
Chrysene	0.08	NA	NA	NA	<0.011	NA



LEGEND

- ● = GEOPROBE SOIL BORING
- = MONITORING WELL
- ○ = SOIL BORING
- → = GROUNDWATER FLOW DIRECTION

NOTE:
WELL LOCATIONS AND ELEVATIONS WERE SURVEYED BY EMCS-1999

ANALYTICAL KEY

NA = Not Analyzed
B(a)p = Benzo(a)pyrene
B(b)f = Benzo(b)fluoranthene
J = Detected Between Limit of Detection and Limit of Quantitation
Bold = Concentration Exceeds NR 140 Preventive Action Level
box = Concentration Exceeds NR 140 Enforcement Standards
All concentrations reported in micrograms per liter (µg/L)

SCALE: 1" = 150'

0' 75' 150' 225' 300'

City of Milwaukee
Lincoln Garage & Lincoln Incinerator
3921 W. Lincoln Ave., Milwaukee, WI

DATE: 6/17/08 | DR. BY: JRM | DR.# 2360-004 | SCALE: 1" = 150'

Groundwater Quality Map

Figure 6

THE SIGMA GROUP
Single Source. Sound Solutions.
www.thesigmagroup.com
1300 West Canal Street
Milwaukee, WI 53233
414-643-4200

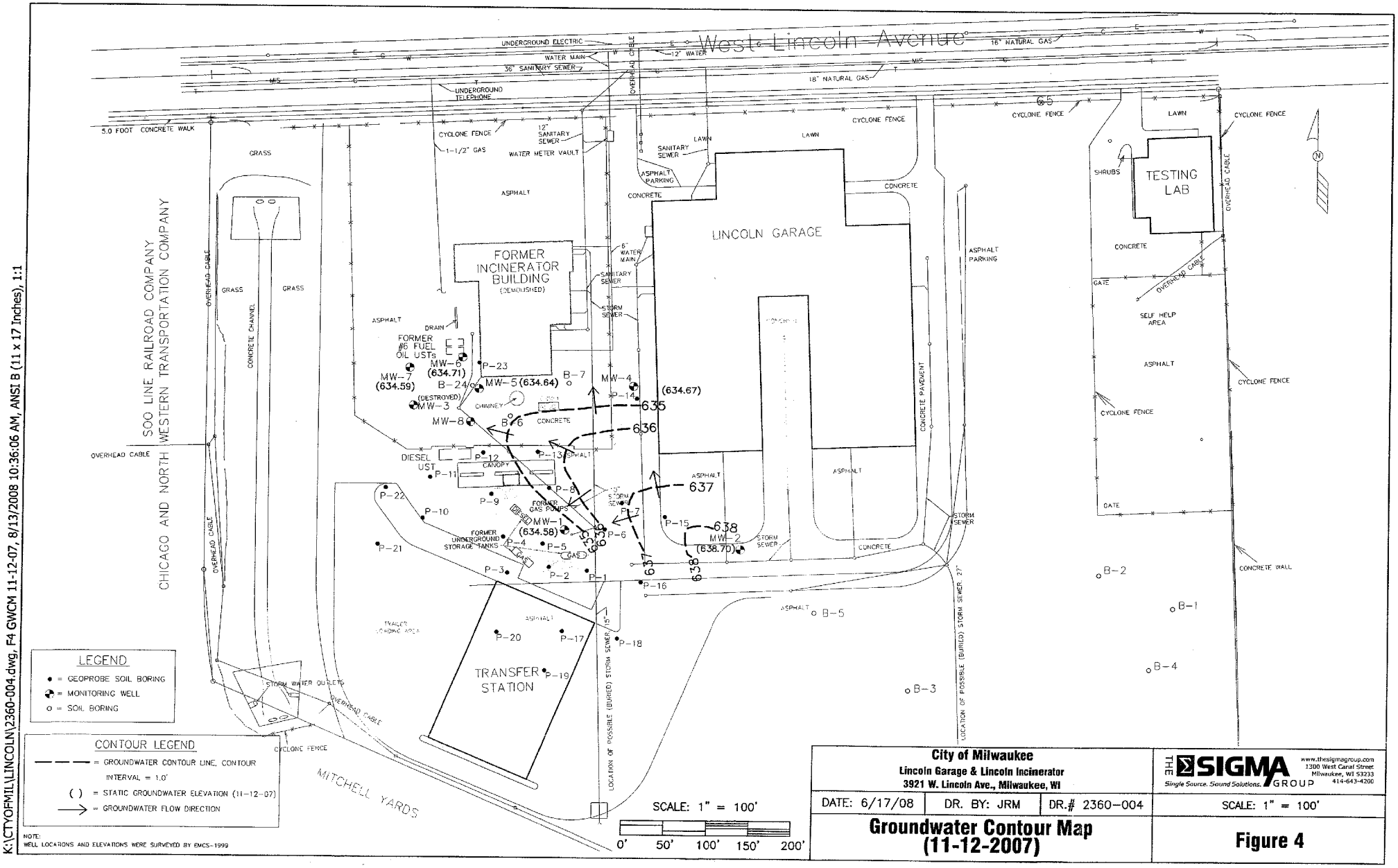

West Lincoln Avenue
UNDERGROUND ELECTRIC
WATER MAIN
36" SANITARY SEWER
12" WATER
16" NATURAL GAS
18" NATURAL GAS
UNDERGROUND TELEPHONE
OVERHEAD CABLE
5.0 FOOT CONCRETE WALK
CYCLONE FENCE
12" SANITARY SEWER
1-1/2" GAS
WATER METER VAULT
GRASS
ASPHALT
LAWN
SANITARY SEWER
ASPHALT PARKING
CONCRETE
LINCOLN GARAGE
FORMER INCINERATOR BUILDING (DEMOLISHED)
6" WATER MAIN
STORM SEWER
DRAIN
FORMER #6 FUEL OIL USTs
CHIMNEY
CONCRETE CHANNEL
SOO LINE RAILROAD COMPANY
CHICAGO AND NORTH WESTERN TRANSPORTATION COMPANY
DIESEL UST
CANOPY
FORMER GAS PUMPS
FORMER UNDERGROUND STORAGE TANKS
GAS
TRANSFER STATION
TRAILER LOADING AREA
STORM WATER OUTLETS
MITCHELL YARDS
LOCATION OF POSSIBLE (BURIED) STORM SEWER
CONCRETE PAVEMENT
ASPHALT PARKING
TESTING LAB
SHRUBS
SELF HELP AREA
GATE
CONCRETE WALL
MW-1 (634.58)
MW-2 (638.70)
MW-3 (DESTROYED)
MW-4 (634.67)
MW-5 (634.64)
MW-6 (634.71)
MW-7 (634.59)
MW-8
B-1
B-2
B-3
B-4
B-5
B-6
B-7
B-24
P-1
P-2
P-3
P-4
P-5
P-6
P-7
P-8
P-9
P-10
P-11
P-12
P-13
P-14
P-15
P-16
P-17
P-18
P-19
P-20
P-21
P-22
P-23
635
636
637
638
LEGEND
= GEOPROBE SOIL BORING
= MONITORING WELL
= SOIL BORING
CONTOUR LEGEND
= GROUNDWATER CONTOUR LINE, CONTOUR INTERVAL = 1.0'
( ) = STATIC GROUNDWATER ELEVATION (11-12-07)
= GROUNDWATER FLOW DIRECTION
SCALE: 1" = 100'
0' 50' 100' 150' 200'
City of Milwaukee
Lincoln Garage & Lincoln Incinerator
3921 W. Lincoln Ave., Milwaukee, WI
DATE: 6/17/08
DR. BY: JRM
DR.# 2360-004
SCALE: 1" = 100'
Groundwater Contour Map (11-12-2007)
Figure 4
THE SIGMA GROUP
Single Source. Sound Solutions.
www.thesigmagroup.com
1300 West Canal Street
Milwaukee, WI 53233
414-643-4200
NOTE:
WELL LOCATIONS AND ELEVATIONS WERE SURVEYED BY EMCS-1999
K:\CTYOFMIL\LINCOLN\2360-004.dwg, F4 GWCM 11-12-07, 8/13/2008 10:36:06 AM, ANSI B (11 x 17 Inches), 1:1

Table 2
Soil Quality Analytical Results - Detected Compounds
City of Milwaukee - Lincoln Garage
3921 West Lincoln Avenue
Milwaukee, Wisconsin
Project #2360

		Sample Location															
UST System		10,000-Gallon Unleaded Gasoline									10,000- Gallon Diesel			10,000-Gal. Gasoline			
Sample Name / Location		1-N Wall	2-N Wall	3-S Wall	4-S Wall	5	6	7	8	9	Pipe	Diesel	West	West	NR 720	Comm 46	Comm 46
	UNITS	E. End	W. End	E. End	W. End	E. Wall	W. Wall	E. Base	W. Base	Piping	Run	Trench	Base	Base	RCL	Table1 SSL	Table 2 Values*
Depth	feet bgs	4	4	7	7	4	7	10	10	2			8	13			
Date Collected		10/18/91	10/18/91	10/18/91	10/18/91	10/18/91	10/18/91	10/18/91	10/18/91	10/18/91	4/21/93	5/12/93	1/22/97	5/26/94			
GRO	mg/kg	**150**	**820**	23	**430**	**280**	20	62	**130**	<4.3	**900**	-	**550**	**>100**	100	NS	NS
DRO	mg/kg	-	-	-	-	-	-	-	-	-	**16,000**	**400**	**770**	-	100	NS	NS
TRPH	mg/kg	-	-	-	-	-	-	-	-	-	12,000	-	-	-	NS	NS	NS
Lead	mg/kg	-	-	-	-	-	-	-	-	-	460	-	-	-	500	NS	NS
Benzene	µg/kg	-	-	-	-	-	-	-	-	-	**16**	-	-	-	5.5	8,500	1,100

Notes: Results on this page are from sampling associated with UST system repair or removal.
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
bgs = below ground surface
RCL = Residual Contaminant Level
\- = Not analyzed
NS = No Standard established
BOLD = Exceeds NR 720 Residual Contaminant Level
Italics = Exceeds Comm 46 Table 1 SSL
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
TRPH = Total Recoverable Petroleum Hydrocarbons
* = Comm 46 Table 2 Standards apply only to soil within 4 feet of ground surface.
SSL = Soil Screening Level
UST = Underground Storage Tank

Table 2
Soil Quality Analytical Results - Detected Compounds
City of Milwaukee - Lincoln Garage
3921 West Lincoln Avenue
Milwaukee, Wisconsin
Project #2360

		Sample Location																
	UNITS	B-1		B-2		B-3		B-4		B-5		B-6		B-7		NR 720 RCL	Comm 46 Table1 SSL	Comm 46 Table 2 Values*
Depth	feet bgs	2-3.5	12-13.5	4.5-6	12-13.5	17-18.5	19.5-21	7-8.5	14.5-16	7-8.5	14.5-16	7-8.5	12-13.5	7-8.5	12-13.5			
Date Collected		9/4/92	9/4/92	9/4/92	9/4/92	9/4/92	9/4/92	9/4/92	9/4/92	9/4/92	9/4/92	9/4/92	9/4/92	9/4/92	9/4/92			
GRO	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	NS	NS
DRO	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	NS	NS
TPH	ppm	10[1]	<4.0	<4.0	<4.0	<4.0	7.8[1]	<4.0	<4.0	6.4[2]	<4.0	<4.0	<4.0	<4.0	<4.0	NS	NS	NS

Notes: Concentrations in micrograms per kilogram (µg/kg) unless noted
Depths in feet below ground surface
RCL = Residual Contaminant Level
\- = Not analyzed
NS = No Standard established
BOLD = Exceeds NR 720 Residual Contaminant Level
Italics = Exceeds NR 746 Table 1 Soil Screening Level
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
TPH = Total Petroleum Hydrocarbons
* = Comm 46 Table 2 Standards apply only to soil within 4 feet of ground surface.
[1] = As compared to mineral spirits
[2] = As compared to gasoline
SSL = Soil Screening Level

Table 2
Soil Sample Analytical Results - Detected Compounds
City of Milwaukee - Lincoln Garage
3921 West Lincoln Avenue
Milwaukee, Wisconsin
Project #2360

		Sample Location											
		P-1	P-2		P-3	P-4	P-5	P-6	P-7		NR 720 RCL	Comm 46 Table1 SSL	Comm 46 Table 2 Values*
Depth	Units	12-14	5-7	14-16	14-16	14-16	5-7	10-12	5-7	14-16			
Date Collected	feet bgs	10/1/93	10/1/93	10/1/93	10/1/93	10/1/93	10/8/93	10/8/93	10/8/93	10/8/93			
GRO	mg/kg	9.8	**2,300**	**150**	86	**390**	**240**	<5.3	<3.2	7.8	100	NS	NS
DRO	mg/kg	-	**7,100**	-	49	**400**	**340**	**310**	82	7.1	100	NS	NS
TRPH	mg/kg	-	-	-	-	-	-	-	-	-	NS	NS	NS
Total Lead	mg/kg	5.2	**1,049**	-	3.3	5.7	-	**580**	**520**	-	500	NS	NS
Benzene	µg/kg	<51	<2,500	-	<250	<500	-	<210	<130	-	5.5	8,500	1,100
Ethylbenzene	µg/kg	<51	<2,500	-	510	**3,800**	-	<210	<130	-	2,900	4,600	NS
Toluene	µg/kg	<51	<2,500	-	<250	<500	-	<210	<130	-	1,500	38,000	NS
Xylenes (Total)	µg/kg	<100	**6,000**	-	640	**8,000**	-	<430	<260	-	4,100	42,000	NS
1,2,4 - TMB	µg/kg	<51	68,000	-	<250	20,000	-	<210	<130	-	NS	83,000	NS
1,3,5 - TMB	µg/kg	<51	***43,000***	-	550	6,200	-	<210	<130	-	NS	11,000	NS
MTBE	µg/kg	<51	<2,500	-	350	1,000	-	<210	<130	-	NS	NS	NS

PAHs											Suggested Generic RCLs**	
											Groundwater Pathway	Direct-Contact Industrial*
Acenapthene	mg/kg	-	<0.81	-	-	<0.68	-	-	-	-	38	60,000
Acenapthylene	mg/kg	-	<0.81	-	-	<0.68	-	-	-	-	0.7	360
Anthracene	mg/kg	-	<0.81	-	-	<0.68	-	-	-	-	3,000	300,000
Benzo(a)anthracene	mg/kg	-	0.082	-	-	0.04	-	-	-	-	17	3.9
Benzo(b)fluoranthene	mg/kg	-	0.12	-	-	<0.68	-	-	-	-	360	3.9
Benzo(k)fluoranthene	mg/kg	-	0.04	-	-	<0.68	-	-	-	-	870	39
Benzo(g,h,i)perylene	mg/kg	-	<0.81	-	-	<0.68	-	-	-	-	6,800	39
Benzo(a)pyrene	mg/kg	-	0.082	-	-	<0.68	-	-	-	-	48	0.39
Chrysene	mg/kg	-	0.12	-	-	0.04	-	-	-	-	37	390
Dibenz(a,h)anthracene	mg/kg	-	<0.81	-	-	<0.68	-	-	-	-	38	0.39
Fluoranthene	mg/kg	-	0.21	-	-	0.14	-	-	-	-	500	40,000
Fluorene	mg/kg	-	<0.81	-	-	0.072	-	-	-	-	100	40,000
Indeno(1,2,3-cd)pyrene	mg/kg	-	<0.81	-	-	<0.68	-	-	-	-	680	3.9
Napthalene	mg/kg	-	**1.9**	-	-	**1.8**	-	-	-	-	0.4	110
Phenanthrene	mg/kg	-	0.12	-	-	0.25	-	-	-	-	1.8	390
Pyrene	mg/kg	-	0.16	-	-	0.11	-	-	-	-	8,700	30,000

Notes: Depths in feet below ground surface
bgs = Below ground surface
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
RCL = Residual Contaminant Level
\- = Not analyzed
NS = No Standard established
BOLD = Exceeds NR 720 Residual Contaminant Level
Italics = Exceeds Comm 46 Table 1 Soil Screening Level
Underline = Exceeds PAH Suggested Groundwater Pathway RCL
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
TRPH = Total Recoverable Petroleum Hydrocarbons
MTBE = Methyl Tert Butyl Ether
* = Comm 46 Table 2 Standards and the Suggested PAH Direct Contact RCLs apply only to soil within 4 feet of ground surface.
** = Suggested Generic RCLs for PAH Compounds in Soil for groundwater & direct contact pathways.
PAHs = Polycyclic Aromatic Hydrocarbons
SSL = Soil Screening Level

Table 2
Soil Sample Analytical Results - Detected Compounds
City of Milwaukee - Lincoln Garage
3921 West Lincoln Avenue
Milwaukee, Wisconsin
Project #2360

		Sample Location											
		P-8		P-9	P-10	P-11	P-12	P-13	P-14	P-15	NR 720 RCL	Comm 46 Table1 SSL	Comm 46 Table 2 Values*
Depth	Units	10-12	14-16	14-16	12-14	12-14	8-10	10-12	6-8	8-10			
Date Collected	feet bgs	10/8/93	10/8/93	10/8/93	3/3/94	3/3/94	3/3/94	3/3/94	3/3/94	3/3/94			
GRO	mg/kg	33	29	**1,600**	28	23	20	11	**100**	16	100	NS	NS
DRO	mg/kg	30	5.5	**350**	**150**	6.4	**120**	<5.4	**580**	**510**	100	NS	NS
TRPH	mg/kg	-	-	-	-	-	-	-	-	-	NS	NS	NS
Total Lead	mg/kg	<28	-	11	12	3.4	3.2	5.8	250	**510**	500	NS	NS
Benzene	µg/kg	**1,100**	-	**1,200**	**140**	**220**	**1,200**	<62	<58	<68	5.5	8,500	1,100
Ethylbenzene	µg/kg	<280	-	***16,000***	210	100	<130	<62	<58	<68	2,900	4,600	NS
Toluene	µg/kg	<280	-	1,300	<110	71	<130	<62	<58	78	1,500	38,000	NS
Xylenes (Total)	µg/kg	<560	-	**37,000**	560	460	310	140	<120	360	4,100	42,000	NS
1,2,4 - TMB	µg/kg	<280	-	44,000	340	<53	<130	<62	<58	530	NS	83,000	NS
1,3,5 - TMB	µg/kg	<280	-	***13,000***	190	120	<130	<62	***18,300***	240	NS	11,000	NS
MTBE	µg/kg	<280	-	<2,700	150	<53	260	<62	<58	<68	NS	NS	NS
											Suggested Generic RCLs**		
PAHs											Groundwater Pathway	Direct-Contact Industrial*	
Acenapthene	mg/kg	-	-	-	<0.36	<0.35	<1.4	<0.40	0.76	0.073	38	60,000	
Acenapthylene	mg/kg	-	-	-	<0.36	<0.35	<1.4	< 0.40	0.11	<0.44	0.7	360	
Anthracene	mg/kg	-	-	-	<0.36	<0.35	<1.4	< 0.40	1.0	0.29	3,000	300,000	
Benzo(a)anthracene	mg/kg	-	-	-	0.13	<0.35	<1.4	< 0.40	1.8	1.5	17	3.9	
Benzo(b)fluoranthene	mg/kg	-	-	-	0.13	<0.35	<1.4	< 0.40	2.1	1.4	360	3.9	
Benzo(k)fluoranthene	mg/kg	-	-	-	0.039	<0.35	<1.4	< 0.40	0.71	0.55	870	39	
Benzo(g,h,i)perylene	mg/kg	-	-	-	0.16	<0.35	<1.4	< 0.40	0.96	0.53	6,800	39	
Benzo(a)pyrene	mg/kg	-	-	-	0.14	<0.35	<1.4	< 0.40	1.2	0.96	48	0.39	
Chrysene	mg/kg	-	-	-	0.20	<0.35	<1.4	< 0.40	1.9	1.4	37	390	
Dibenz(a,h)anthracene	mg/kg	-	-	-	<0.36	<0.35	<1.4	< 0.40	0.22	0.34	38	0.39	
Fluoranthene	mg/kg	-	-	-	0.13	<0.35	<1.4	< 0.40	0.057	<0.44	500	40,000	
Fluorene	mg/kg	-	-	-	<0.36	<0.35	<1.4	< 0.40	0.85	0.094	100	40,000	
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	0.066	<0.35	<1.4	< 0.40	0.25	0.65	680	3.9	
Napthalene	mg/kg	-	-	-	0.074	<0.35	<1.4	< 0.40	0.18	0.058	0.4	110	
Phenanthrene	mg/kg	-	-	-	0.12	<0.35	<1.4	< 0.40	**3.9**	0.76	1.8	390	
Pyrene	mg/kg	-	-	-	0.31	<0.35	<1.4	<.0.40	3.6	1.9	8,700	30,000	

Notes: Depths in feet below ground surface
bgs = Below ground surface
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
RCL = Residual Contaminant Level
\- = Not analyzed
NS = No Standard established
BOLD = Exceeds NR 720 Residual Contaminant Level
Italics = Exceeds Comm 46 Table 1 Soil Screening Level
Underline = Exceeds PAH Suggested Groundwater Pathway RCL
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
TRPH = Total Recoverable Petroleum Hydrocarbons
MTBE = Methyl Tert Butyl Ether
* = Comm 46 Table 2 Standards and the Suggested PAH Direct Contact RCLs apply only to soil within 4 feet of ground surface.
** = Suggested Generic RCLs for PAH Compounds in Soil for groundwater & direct contact pathways.
PAHs = Polycyclic Aromatic Hydrocarbons
SSL = Soil Screening Level

Table 2
Soil Sample Analytical Results - Detected Compounds
City of Milwaukee - Lincoln Garage
3921 West Lincoln Avenue
Milwaukee, Wisconsin
Project #2360

		Sample Location										
		P-16	P-17	P-18	P-19	P-20	P-21	P-22	P-23	NR 720 RCL	Comm 46 Table1 SSL	Comm 46 Table 2 Values*
Depth	Units	8-10	14-16	10-12	10-12	10-12	12-14	10-12	12-14			
Date Collected	feet bgs	3/3/94	3/3/94	3/3/94	3/3/94	3/3/94	3/3/94	3/3/94	3/3/94			
GRO	mg/kg	25	<5.2	<10	<5.3	<5.5	9.4	7.5	**320**	100	NS	NS
DRO	mg/kg	**1,200**	5.9	26	<5.4	<5.1	9.0	5.7	**6,300**	100	NS	NS
TRPH	mg/kg	-	-	-	-	-	-	-	-	NS	NS	NS
Total Lead	mg/kg	**800**	4.9	64	4.3	6.3	6.3	4.2	4.9	500	NS	NS
Benzene	µg/kg	**140**	<52	<100	<53	<55	<54	<60	<1,100	5.5	8,500	1,100
Ethylbenzene	µg/kg	180	<52	<100	<53	<55	56	82	<1,100	2,900	4,600	NS
Toluene	µg/kg	300	<52	<100	<53	<55	64	72	<1,100	1,500	38,000	NS
Xylenes (Total)	µg/kg	1,300	<100	<200	<110	<110	170	250	<2,200	4,100	42,000	NS
1,2,4 - TMB	µg/kg	860	<52	<100	<53	<55	80	110	5,100	NS	83,000	NS
1,3,5 - TMB	µg/kg	360	<52	<100	<53	<55	<54	<60	3,000	NS	11,000	NS
MTBE	µg/kg	<64	<52	<100	<53	<55	<54	<60	<1,100	NS	NS	NS
										Suggested Generic RCLs**		
PAHs										Groundwater Pathway	Direct-Contact Industrial*	
Acenapthene	mg/kg	0.28	<0.34	<0.88	<0.35	<0.36	<0.35	<0.39	1.6	38	60,000	
Acenapthylene	mg/kg	0.054	<0.34	<0.88	<0.35	<0.36	<0.35	<0.39	<3.6	0.7	360	
Anthracene	mg/kg	0.74	<0.34	0.2	<0.35	<0.36	<0.35	<0.39	<3.6	3,000	300,000	
Benzo(a)anthracene	mg/kg	3.2	<0.34	0.8	<0.35	<0.36	<0.35	<0.39	<3.6	17	3.9	
Benzo(b)fluoranthene	mg/kg	4.6	<0.34	1.2	<0.35	<0.36	<0.35	<0.39	<3.6	360	3.9	
Benzo(k)fluoranthene	mg/kg	1.1	<0.34	0.32	<0.35	<0.36	<0.35	<0.39	<3.6	870	39	
Benzo(g,h,i)perylene	mg/kg	1.7	<0.34	0.38	<0.35	<0.36	<0.35	<0.39	<3.6	6,800	39	
Benzo(a)pyrene	mg/kg	2.3	<0.34	0.74	<0.35	<0.36	<0.35	<0.39	<3.6	48	0.39	
Chrysene	mg/kg	3.2	<0.34	0.89	<0.35	<0.36	<0.35	<0.39	<3.6	37	390	
Dibenz(a,h)anthracene	mg/kg	0.56	<0.34	<0.88	<0.35	<0.36	<0.35	<0.39	<3.6	38	0.39	
Fluoranthene	mg/kg	<0.41	<0.34	1.3	<0.35	<0.36	<0.35	<0.39	<3.6	500	40,000	
Fluorene	mg/kg	0.39	<0.34	<0.88	<0.35	<0.36	<0.35	<0.39	2.8	100	40,000	
Indeno(1,2,3-cd)pyrene	mg/kg	2.0	<0.34	0.44	<0.35	<0.36	<0.35	<0.39	<3.6	680	3.9	
Napthalene	mg/kg	**0.41**	<0.34	<0.88	<0.35	<0.36	<0.35	<0.39	<3.6	0.4	110	
Phenanthrene	mg/kg	**3.1**	<0.34	0.82	<0.35	<0.36	<0.35	<0.39	1.0	1.8	390	
Pyrene	mg/kg	0.069	<0.34	1.5	<0.35	<0.36	<0.35	<0.39	0.74	8,700	30,000	

Notes: Depths in feet below ground surface
bgs = Below ground surface
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
RCL = Residual Contaminant Level
\- = Not analyzed
NS = No Standard established
BOLD = Exceeds NR 720 Residual Contaminant Level
Italics = Exceeds Comm 46 Table 1 Soil Screening Level
Underline = Exceeds PAH Suggested Groundwater Pathway RCL
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
TRPH = Total Recoverable Petroleum Hydrocarbons
MTBE = Methyl Tert Butyl Ether
* = Comm 46 Table 2 Standards and the Suggested PAH Direct Contact RCLs apply only to soil within 4 feet of ground surface.
** = Suggested Generic RCLs for PAH Compounds in Soil for groundwater & direct contact pathways.
PAHs = Polycyclic Aromatic Hydrocarbons
SSL = Soil Screening Level

Table 2
Soil Quality Analytical Results - Detected Compounds
City of Milwaukee - Lincoln Garge
3921 West Lincoln Avenue
Milwaukee, Wisconsin
Project #2360

		Sample										
	Units	EX-1	EX-2	EX-3	LF Conf.	LF Conf.	LF Conf.	LF Conf.	LF Conf.	NR 720	Comm 46	Comm 46
	ft bgs	14-16'	3-6'	16'	0-300	300-600	600-900	900-1200	1200-1500	RCL	Table 1	Table 2
Date Collected		7/9/96	7/9/96	7/9/96	3/3/98	3/3/98	3/13/98	3/13/98	3/13/98		SSL	Values*
Gasoline Range Organics	mg/kg	51	4.3	28	19	33	21	12	44	100	NS	NS
Diesel Range Organics	mg/kg	3.3	**100**	4.4	**600**	**650**	**140**	**260**	85	100	NS	NS
PVOCs												
Benzene	ug/kg	**700**	**22**	**160**	**25J**	**140**	**140**	**99**	**270**	5.5	8,500	1,100
Toluene	ug/kg	< 27	< 20	< 20	---	---	---	---	---	1,500	38,000	NS
Ethylbenzene	ug/kg	290	< 20	77	---	---	---	---	---	2,900	4,600	NS
Total Xylenes	ug/kg	827	< 66	140	---	---	---	---	---	4,100	42,000	NS
1,2,4-Trimethylbenzene	ug/kg	650	39	170	---	---	---	---	---	NS	83,000	NS
1,3,5-Trimethylbenzene	ug/kg	310	32	140	---	---	---	---	---	NS	11,000	NS
Methyl-Tert-Butyl Ether	ug/kg	< 33	< 24	< 24	---	---	---	---	---	NS	NS	NS

Notes: Results on this page are for samples collected from excavation for installation of new diesel tank.

ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
RCL = Residual Contaminant Level
--- = Not Analyzed
NS = No Standard
BOLD = Exceeds NR 720 Residual Contaminant Level
Italics = Exceeds Comm 46 Table 1 Soil Screening Level
* = Comm 46 Table 2 Standards appjy only to soil within 4 feet of ground surface.
PVOCs = Petroleum Volatile Organic Compounds
LF Conf 0-300 = Landfill Confirmation / Transport Sample & tonnage from which collected
J = Detected between levels of detection and quantitation
SSL = Soil Screening Level

Table 2
Soil Quality Analytical Results - Detected Compounds
City of Milwaukee - Lincoln Garage
3921 West Lincoln Avenue
Milwaukee, Wisconsin
Project #2360

		Sample Location								
	UNITS	MW-1		MW-2	MW-3	MW-4	B-24	NR 720 RCL	Comm 46 Table1 SSL	Comm 46 Table 2 Values*
Depth	feet bgs	5-7	7-9	9-11	7-9	13-15	9-11			
Date Collected		04/01/98	04/01/98	04/01/98	04/01/98	04/01/98	04/01/98			
PID	iui	230	115	19.2	17.4	9	8.4	NS	NS	NS
GRO	mg/kg	**170**	**110**	19	7.8	2.4J	3.0J	100	NS	NS
DRO	mg/kg	---	**340**	**510**	**110**	1.8J	4.7	100	NS	NS
VOCs										
Benzene	µg/kg	**4,300**	**3,900**	**20J**	<17	<15	<16	5.5	8,500	1,100
Toluene	µg/kg	490	410	26J	28J	<14	<15	1,500	38,000	NS
Ethylbenzene	µg/kg	2,100	1,400	71	<16	<14	<15	2,900	4,600	NS
Xylenes	µg/kg	1,570	1,120	260	<54	<44	<52	4,100	42,000	NS
Methyl-tert-butyl ether	µg/kg	<19	<17	<18	<20	<17	<19	NS	NS	NS
1,2,4-Trimethylbenzene	µg/kg	350	240	360	54J	<21	<23	NS	83,000	NS
1,3,5-Trimethylbenzene	µg/kg	750	490	310	74	<11	<13	NS	11,000	NS
Naphthalene	µg/kg	160	80J	1,400	***2,900***	<39	<43	NS	2,700	NS
Isopropylbenzene	µg/kg	520	370	19J	<16	<14	<15	NS	NS	NS
t-Butylbenzene	µg/kg	110	56	36J	<17	<15	<16	NS	NS	NS
sec-Butylbenzene	µg/kg	240	150	55J	<20	<17	<19	NS	NS	NS
n-Butylbenzene	µg/kg	600	370	140	140	<19	<21	NS	NS	NS
c-1,2-Dichloroethene	µg/kg	<17	<15	<16	97	<15	<16	NS	NS	NS
p-Isopropyltoluene	µg/kg	90	110	67	<18	<16	<18	NS	NS	NS
Trichloroethene	µg/kg	<24	<22	<23	44J	<21	<23	NS	NS	NS
								Suggested Generic RCLs**		
PAHs								Groundwater Pathway	Direct-Contact Industrial*	
Acenaphthene	mg/kg	<0.26	<0.23	<1.2	---	<0.012	<0.063	38	60,000	
Acenaphthylene	mg/kg	<0.66	<0.59	<3.1	---	<0.029	<16	0.7	360	
Anthracene	mg/kg	0.14	0.097	3.5	---	<0.0014	<0.0075	3,000	300,000	
Benzo (a) anthracene	mg/kg	0.41	0.39	3.2	---	<0.003	<0.017	17	3.9	
Benzo (a) pyrene	mg/kg	0.89	0.62	<0.052	---	<0.00049	<0.0027	48	0.39	
Benzo (b) flouranthene	mg/kg	1.5	1.2	3.3	---	<0.0051	<0.028	360	3.9	
Benzo (k) flouranthene	mg/kg	0.46	0.24	<0.013	---	<0.0012	<0.0067	870	39	
Benzo (g,h,i) perylene	mg/kg	<0.043	<0.038	<0.2	---	<0.0019	<0.01	6,800	39	
Chrysene	mg/kg	0.66	1.2	3.5	---	<0.0014	<0.0076	37	390	
Dibenzo (a,h) anthracene	mg/kg	<0.073	<0.065	<0.34	---	<0.0032	<0.018	38	0.39	
Flouranthene	mg/kg	1.4	1.0	9.3	---	<0.0069	<0.038	500	40,000	
Flourene	mg/kg	<0.045	<0.04	<0.21	---	0.0091	<0.011	100	40,000	
Indeno (1,2,3-c,d) pyrene	mg/kg	<0.059	<0.053	<0.28	---	<0.0026	<0.014	680	3.9	
1-Methylnaphthalene	mg/kg	<0.26	<0.23	<1.2	---	<0.011	<0.062	23	70,000	
2-Methylnaphthalene	mg/kg	<0.24	<0.21	<1.1	---	<0.001	<0.057	20	40,000	
Naphthalene	mg/kg	<0.2	<0.18	<0.095	***2.9***	<0.009	<0.049	0.4	110	
Phenanthrene	mg/kg	0.87	0.72	**8.0**	---	<0.0015	<0.0084	1.8	390	
Pyrene	mg/kg	1.3	1.3	6.9	---	0.012	<0.007	8,700	30,000	
Biofeasibility Parameters										
Heterotrophic Plate Count - 2 day	CFU/g	320	13,000	---	370	---	---	NS	NS	NS
Heterotrophic Plate Count - 5 day	CFU/g	7,300	28,000	---	22,000	---	---	NS	NS	NS
Hydrocarbon Degrading - 15 day	CFU/g	48	220	---	<12	---	---	NS	NS	NS
pH	Units	7.83	8.03	---	10.90	---	---	NS	NS	NS
Total Organic Carbon	mg/kg	190,000	420,000	---	170,000	---	---	NS	NS	NS
Nitrate Nitrogen	mg/kg	8.0	24	---	17	---	---	NS	NS	NS
Ammonia Nitrogen	mg/kg	56	86	---	150	---	---	NS	NS	NS
Kjeldahl Nitrogen	mg/kg	740	1,400	---	1,100	---	---	NS	NS	NS
Orthophosphate	mg/kg	<2.5	<2.1	---	4.7	---	---	NS	NS	NS

Key:
PID = Photoionization Detection Result
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
bgs = below ground surface
iui= instrument units as isobutylene
--- = Not Analyzed
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
NS = No Standard established
J = Analyte detected between LOD and LOQ.
RCL = Residual Contaminant Level
* = Comm 46 Table 2 Standards and the Suggested PAH Direct Contact RCLs apply only to soil within 4 feet of ground surface.
** = Suggested Generic RCLs for PAH Compounds in Soil for groundwater & direct contact pathways.
SSL = Soil Screening Level

BOLD = Exceeds NR 720 Residual Contaminant Level
Italics = Exceeds Comm 46 Table 1 Soil Screening Level
Underline = Exceeds PAH Suggested Groundwater Pathway RCL

TABLE 2
Soil Quality Results - Detected Compounds
City of Milwaukee - Lincoln Incinerator
3921 West Lincoln Avenue
Milwaukee, Wisconsin
Project #4846

	UNITS	MW-5	MW-6	MW-7	MW-8	NR 720 RCL	Suggested Generic RCLs**	
Depth	feet bgs	11-13	11-13	11-13	9-11		Groundwater Pathway	Direct-Contact Industrial*
Date Collected		05/21/99	05/21/99	05/21/99	05/21/99			
DRO	mg/kg	13	<1.0	2.7	<4.0	100	NS	NS
PAHs								
Anthracene	mg/kg	0.436 J	<0.011	0.042 J	0.199 J	NS	3,000	300,000
Benzo (a) anthracene	mg/kg	1.83	0.0031 J	0.033	0.673	NS	17	3.9
Benzo (a) pyrene	mg/kg	2.28 J	0.0035 J	0.05	0.536	NS	48	0.39
Benzo (b) flouranthene	mg/kg	2.28	0.0031 J	0.04	0.539	NS	360	3.9
Benzo (k) flouranthene	mg/kg	0.631	<0.00054	<0.002	0.22	NS	870	39
Benzo (g,h,i) perylene	mg/kg	8.04	0.0067 J	0.105	0.416	NS	6,800	39
Chrysene	mg/kg	3.84 J	<0.0063	0.034 J	0.849	NS	37	390
Dibenzo (a,h) anthracene	mg/kg	1.12	0.0012 J	0.014	0.149	NS	38	0.39
Flouranthene	mg/kg	2.06 J	<0.026	0.257 J	1.84	NS	500	40,000
Flourene	mg/kg	0.417 J	<0.007	0.057 J	<0.095	NS	100	40,000
Indeno (1,2,3-c,d) pyrene	mg/kg	2.14	<0.0084	<0.032	<0.114	NS	680	3.9
Phenanthrene	mg/kg	1.03	0.009 J	0.099	0.366	NS	1.8	390
Pyrene	mg/kg	4.42 J	<0.009	0.164	3.57	NS	8,700	30,000

Key:

BOLD = Exceeds NR 720 RCL or Suggested PAH Generic RCL
PAHs = Polycyclic Aromatic Hydrocarbons
DRO = Diesel Range Organics
bgs = below ground surface
--- = Not analyzed
mg/kg = milligram per kilogram
µg/kg = microgram per kilogram
NS = No established Standard
RCL = Residual Contaminant Level
** = Suggested Generic RCLs for PAHs in Soil for groundwater & direct contact pathways.
* = Direct contact standards apply only to soil within 4 feet of the ground surface.
J = Analyte detected between Limit of Detection and Limit if Quantification.
Underline = Exceeds PAH Suggested Groundwater Pathway RCL

TABLE 3
MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS
CITY OF MILWAUKEE
LINCOLN GARAGE
3921 West Lincoln Avenue
Milwaukee, WI
Project #2360

	UNITS	MW-1						NR 140	NR 140
Date Collected		4/21/98	12/08/99	04/10/00	11/21/02	03/14/06	11/12/07	ES	PAL
Depth to Groundwater	ft btc	13.77	15.35	14.45	12.40	13.50	13.91		
GRO	mg/l	3.9	---	---	---	---	---	NS	NS
DRO	mg/l	4.1	---	---	---	---	---	NS	NS
Lead, Dissolved	mg/l	***0.0024***	---	---	---	---	---	0.015	0.0015
VOCs									
Benzene	µg/l	**950**	**207**	**383**	**34**	**288**	**114**	5	0.5
Toluene	µg/l	7.0	3.5	5.2	2.3	<3.536	4.2	1,000	200
Ethylbenzene	µg/l	55	9.8	43	0.79	18	5.3	700	140
Xylenes	µg/l	44	9.4	12	<1.48	<11.872	5.84	10,000	1,000
Trimethylbenzenes	µg/l	7.3	1.7	18.7	<1.25	<9.984	2.25 J	480	96
Methyl-Tert-Butyl Ether	µg/l	<2.5	***12***	**27**	1.2	<2.384	1.11 J	60	12
Naphthalene	µg/l	**160**	---	---	---	<1.214	---	100	10
Isopropylbenzene	µg/l	13	---	---	---	---	---	NS	NS
sec-Butylbenzene	µg/l	8.5	---	---	---	---	---	NS	NS
n-Butylbenzene	µg/l	19	---	---	---	---	---	NS	NS
p-Isopropyltoluene	µg/l	2.7	---	---	---	---	---	NS	NS
Methylene Chloride	µg/l	***4.6L***	---	---	---	---	---	5	0.5
PAHs									
Acenaphthene	µg/l	0.39	---	---	---	<0.011	---	NS	NS
Anthracene	µg/l	<0.018	---	---	---	<0.0093	---	3,000	600
Benzo (a) anthracene	µg/l	0.85	---	---	---	<0.021	---	NS	NS
Benzo (a) pyrene	µg/l	**0.26**	---	---	---	<0.011	---	0.2	0.02
Benzo (b) flouranthene	µg/l	***0.072***	---	---	---	<0.0066	---	0.2	0.02
Benzo (k) flouranthene	µg/l	0.11	---	---	---	<0.0074	---	NS	NS
Benzo (g,h,i) perylene	µg/l	<0.1	---	---	---	<0.019	---	NS	NS
Chrysene	µg/l	***0.066***	---	---	---	<0.011	---	0.2	0.02
Flouranthene	µg/l	0.7	---	---	---	<0.0085	---	400	80
Flourene	µg/l	1.3	---	---	---	<0.0093	---	400	80
Indeno (1,2,3-c,d) pyrene	µg/l	<0.083	---	---	---	<0.015	---	NS	NS
1-Methylnaphthalene	µg/l	8.2	---	---	---	0.27	---	NS	NS
2-Methylnaphthalene	µg/l	11	---	---	---	<0.0066	---	NS	NS
Naphthalene	µg/l	1.8	---	---	---	<0.0090	---	100	10
Phenanthrene	µg/l	3.0	---	---	---	<0.0085	---	NS	NS
Pyrene	µg/l	0.9	---	---	---	<0.0093	---	250	50
Biofeasibility Parameters									
Heterotrophic Plate Count	cfu/ml	1.1E+06	---	---	---	---	---	NS	NS
Hydrocarbon Degraders	cfu/ml	2.0E+04	---	---	---	---	---	NS	NS
Alkalinity, total (CaCO3)	mg/l	680	---	---	---	---	---	NS	NS
Total Organic Carbon	mg/l	380	---	---	---	---	---	NS	NS
Manganese, Dissolved	mg/l	0.77	0.41	1.0	0.17	---	---	NS	NS
Nitrate Nitrogen	mg/l	<0.28	<0.04	6.5	0.01	---	---	10	2
Sulfate	mg/l	22.0	<10	<10	5.4	---	---	NS	NS
Dissolved Oxygen	mg/l	0.27	0.55	0.55	0.33	0.42	---	NS	NS
Redox Potential	mV	5.5	-23.0	152.5	---	-44	---	NS	NS
Ferrous Iron	mg/l	---	1.4	3.0	3.0	1.2	---	NS	NS

Key:

J	= Analyte detected between limit of detection and limit of quantitation
*	= Monitoring Well MW-3 was destroyed during paving activities, prior to 12/99.
GRO	= Gasoline Range Organics
DRO	= Diesel Range Organics
ft btc	= feet below top of casing
---	= Not analyzed
mg/l	= milligram per liter
µg/l	= microgram per liter
mV	= millivolts
ES	= NR 140 Enforcement Standard
NS	= No established Standard
**	= PAH sample collected 3/14/06, PVOC sample collected 3/29/06
cfu/ml	= Colony forming units per milliliter
L	= Common lab solvent and contaminant
Box	= Exceeds NR 140 Enforcement Standard
Italics	= Exceeds NR140 Preventive Action Limit

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TABLE 3
MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS
CITY OF MILWAUKEE
LINCOLN GARAGE
3921 West Lincoln Avenue
Milwaukee, WI
Project #2360

	UNITS	MW-2						MW-3*	NR 140	NR 140
Date Collected		4/21/98	12/08/99	04/10/00	11/21/02	3/14/06**	11/12/07	4/21/98	ES	PAL
Depth to Groundwater	ft btc	11.49	14.67	14.05	14.25	11.46	11.04	13.23		
GRO	mg/l	<0.05	---	---	---	---	---	<0.05	NS	NS
DRO	mg/l	1.5	---	---	---	---	---	0.24	NS	NS
Lead, Dissolved	mg/l	***0.0023***	---	---	---	---	---	<0.00089	0.015	0.0015
VOCs										
Benzene	µg/l	***3.1***	***3.1***	***2.5***	<0.44	<0.443	***3.14***	<0.1	5	0.5
Toluene	µg/l	<0.1	<0.68	<0.68	<0.44	<0.442	<0.26	<0.1	1,000	200
Ethylbenzene	µg/l	<0.25	<0.66	<0.66	<0.57	<0.568	<0.44	<0.25	700	140
Xylenes	µg/l	<0.25	<2.01	<2.01	<1.48	<1.484	<1.21	<0.25	10,000	1,000
Trimethylbenzenes	µg/l	<0.2	<1.34	<1.34	<1.25	<1.248	<0.67	<0.2	480	96
Methyl-Tert-Butyl Ether	µg/l	<0.25	<0.35	<0.35	<0.30	<0.298	<0.53	<0.25	60	12
Naphthalene	µg/l	1.3	---	---	---	<1.214	---	<0.1	100	10
Isopropylbenzene	µg/l	<0.25	---	---	---	---	---	<0.25	NS	NS
sec-Butylbenzene	µg/l	<0.25	---	---	---	---	---	<0.25	NS	NS
n-Butylbenzene	µg/l	<0.25	---	---	---	---	---	<0.25	NS	NS
p-Isopropyltoluene	µg/l	<0.25	---	---	---	---	---	<0.25	NS	NS
Methylene Chloride	µg/l	<0.25	---	---	---	---	---	<0.25	5	0.5
PAHs										
Acenaphthene	µg/l	0.74	---	---	---	<0.011	---	<0.24	NS	NS
Anthracene	µg/l	0.13	---	---	---	0.025	---	0.28	3,000	600
Benzo (a) anthracene	µg/l	0.46	---	---	---	<0.021	---	0.26	NS	NS
Benzo (a) pyrene	µg/l	***0.081***	---	---	---	<0.011	---	**0.23**	0.2	0.02
Benzo (b) flouranthene	µg/l	<0.044	---	---	---	<0.066	---	***0.13***	0.2	0.02
Benzo (k) flouranthene	µg/l	<0.03	---	---	---	<0.0074	---	0.1	NS	NS
Benzo (g,h,i) perylene	µg/l	<0.1	---	---	---	<0.019	---	0.23	NS	NS
Chrysene	µg/l	***0.08***	---	---	---	<0.011	---	**0.23**	0.2	0.02
Flouranthene	µg/l	0.42	---	---	---	0.069	---	0.7	400	80
Flourene	µg/l	0.72	---	---	---	<0.0093	---	0.097	400	80
Indeno (1,2,3-c,d) pyrene	µg/l	<0.085	---	---	---	<0.015	---	0.15	NS	NS
1-Methylnaphthalene	µg/l	0.71	---	---	---	0.096	---	<0.44	NS	NS
2-Methylnaphthalene	µg/l	1.5	---	---	---	<0.0066	---	<0.66	NS	NS
Naphthalene	µg/l	1.2	---	---	---	0.46	---	<0.24	100	10
Phenanthrene	µg/l	0.8	---	---	---	0.11	---	0.74	NS	NS
Pyrene	µg/l	0.39	---	---	---	<0.0093	---	0.58	250	50
Biofeasibility Parameters										
Heterotrophic Plate Count	cfu/ml	1.3E+05	---	---	---	---	---	5.1E+04	NS	NS
Hydrocarbon Degraders	cfu/ml	5.2E+03	---	---	---	---	---	2.8E+03	NS	NS
Alkalinity, total (CaCO3)	mg/l	580	---	---	---	---	---	530	NS	NS
Total Organic Carbon	mg/l	86	---	---	---	---	---	310	NS	NS
Manganese, Dissolved	mg/l	0.32	0.42	0.69	0.53	---	---	0.35	NS	NS
Nitrate Nitrogen	mg/l	0.65	<0.04	17	<0.007	---	---	<0.28	10	2
Sulfate	mg/l	36	<10	<10	39	---	---	350	NS	NS
Dissolved Oxygen	mg/l	0.31	0.45	0.62	0.30	0.19	---	0.21	NS	NS
Redox Potential	mV	7.70	-54.9	55.1	---	-94	---	6.11	NS	NS
Ferrous Iron	mg/l	---	2.4	2.4	2.6	1.8	---	---	NS	NS

Key:

J	= Analyte detected between limit of detection and limit of quantitation
*	= Monitoring Well MW-3 was destroyed during paving activities, prior to 12/99.
GRO	= Gasoline Range Organics
DRO	= Diesel Range Organics
ft btc	= feet below top of casing
---	= Not analyzed
mg/l	= milligram per liter
µg/l	= microgram per liter
mV	= millivolts
ES	= NR 140 Enforcement Standard
NS	= No established Standard
**	= PAH sample collected 3/14/06, PVOC sample collected 3/29/06
cfu/ml	= Colony forming units per milliliter
L	= Common lab solvent and contaminant
Box	= Exceeds NR 140 Enforcement Standard
Italics	= Exceeds NR140 Preventive Action Limit

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TABLE 3
MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS
CITY OF MILWAUKEE
LINCOLN GARAGE
3921 West Lincoln Avenue
Milwaukee, WI
Project #2360

	UNITS	MW-4						NR 140	NR 140
Date Collected		4/21/98	12/08/99	04/10/00	11/21/02	03/14/06	11/12/07	ES	PAL
Depth to Groundwater	ft btc	14.07	14.68	14.82	14.05	13.65	14.09		
GRO	mg/l	<0.05	---	---	---	---	---	NS	NS
DRO	mg/l	0.47	---	---	---	---	---	NS	NS
Lead, Dissolved	mg/l	<0.00089	---	---	---	---	---	0.015	0.0015
VOCs									
Benzene	µg/l	<0.1	<0.66	<0.42	<0.44	<0.443	<0.22	5	0.5
Toluene	µg/l	<0.1	<0.68	<0.68	<0.44	<0.442	<0.26	1,000	200
Ethylbenzene	µg/l	<0.25	<0.66	<0.66	<0.57	<0.568	<0.44	700	140
Xylenes	µg/l	<0.25	<2.01	<2.01	<1.48	<1.484	<1.21	10,000	1,000
Trimethylbenzenes	µg/l	<0.2	<1.34	<1.34	<1.25	<1.248	<0.67	480	96
Methyl-Tert-Butyl Ether	µg/l	<0.25	<0.35	<0.35	0.45	<0.298	<0.53	60	12
Naphthalene	µg/l	<0.1	---	---	---	---	---	100	10
Isopropylbenzene	µg/l	<0.25	---	---	---	---	---	NS	NS
sec-Butylbenzene	µg/l	<0.25	---	---	---	---	---	NS	NS
n-Butylbenzene	µg/l	<0.25	---	---	---	---	---	NS	NS
p-Isopropyltoluene	µg/l	<0.25	---	---	---	---	---	NS	NS
Methylene Chloride	µg/l	<0.25	---	---	---	---	---	5	0.5
PAHs									
Acenaphthene	µg/l	<0.23	---	---	---	---	---	NS	NS
Anthracene	µg/l	<0.019	---	---	---	---	---	3,000	600
Benzo (a) anthracene	µg/l	<0.018	---	---	---	---	---	NS	NS
Benzo (a) pyrene	µg/l	<0.029	---	---	---	---	---	0.2	0.02
Benzo (b) flouranthene	µg/l	<0.046	---	---	---	---	---	0.2	0.02
Benzo (k) flouranthene	µg/l	<0.031	---	---	---	---	---	NS	NS
Benzo (g,h,i) perylene	µg/l	<0.11	---	---	---	---	---	NS	NS
Chrysene	µg/l	<0.014	---	---	---	---	---	0.2	0.02
Flouranthene	µg/l	<0.11	---	---	---	---	---	400	80
Flourene	µg/l	<0.031	---	---	---	---	---	400	80
Indeno (1,2,3-c,d) pyrene	µg/l	<0.088	---	---	---	---	---	NS	NS
1-Methylnaphthalene	µg/l	<0.42	---	---	---	---	---	NS	NS
2-Methylnaphthalene	µg/l	<0.64	---	---	---	---	---	NS	NS
Naphthalene	µg/l	<0.23	---	---	---	---	---	100	10
Phenanthrene	µg/l	<0.015	---	---	---	---	---	NS	NS
Pyrene	µg/l	<0.05	---	---	---	---	---	250	50
Biofeasibility Parameters									
Heterotrophic Plate Count	cfu/ml	5.1E+05	---	---	---	---	---	NS	NS
Hydrocarbon Degraders	cfu/ml	4.8E+04	---	---	---	---	---	NS	NS
Alkalinity, total (CaCO3)	mg/l	720	---	---	---	---	---	NS	NS
Total Organic Carbon	mg/l	160	---	---	---	---	---	NS	NS
Manganese, Dissolved	mg/l	0.48	0.45	1.3	0.39	---	---	NS	NS
Nitrate Nitrogen	mg/l	0.32	<0.04	1.1	0.14	---	---	10	2
Sulfate	mg/l	49	282	438	23	---	---	NS	NS
Dissolved Oxygen	mg/l	0.26	0.38	0.38	0.31	0.52	---	NS	NS
Redox Potential	mV	5.33	-39.9	127.5	---	-39	---	NS	NS
Ferrous Iron	mg/l	2.0	2.0	2.0	2.8	1.4	---	NS	NS

Key:

J	= Analyte detected between limit of detection and limit of quantitation
*	= Monitoring Well MW-3 was destroyed during paving activities, prior to 12/99.
GRO	= Gasoline Range Organics
DRO	= Diesel Range Organics
ft btc	= feet below top of casing
---	= Not analyzed
mg/l	= milligram per liter
µg/l	= microgram per liter
mV	= millivolts
ES	= NR 140 Enforcement Standard
NS	= No established Standard
**	= PAH sample collected 3/14/06, PVOC sample collected 3/29/06
cfu/ml	= Colony forming units per milliliter
L	= Common lab solvent and contaminant
Box	= Exceeds NR 140 Enforcement Standard
Italics	= Exceeds NR140 Preventive Action Limit

TABLE 3
MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS
CITY OF MILWAUKEE
LINCOLN GARAGE
3921 West Lincoln Avenue
Milwaukee, WI
Project #2360

	UNITS	MW-5							NR 140 ES	NR 140 PAL
Date Collected		6/14/99	9/13/99	12/08/99	04/10/00	11/21/02	03/14/06	11/12/07		
Depth to Groundwater	ft btc	13.98	14.51	14.95	15.09	14.49	13.95	14.48		
DRO	mg/l	5.99	4.29	0.516	0.316	---	---	---	NS	NS
VOCs										
Toluene	µg/l	0.38	<0.68	<0.68	<0.68	<0.44	<0.442	<0.26	1,000	200
Methyl-tert-butyl ether	µg/l	<0.21	0.84	0.64	<0.35	<0.30	<0.298	<0.53	60	12
1,1-Dichloroethane	µg/l	<0.15	---	---	---	---	---	---	850	85
cis-1,2-Dichloroethene	µg/l	<0.2	---	---	---	---	---	---	70	7
Isopropylbenzene	µg/l	1.0	---	---	---	---	---	---	NS	NS
Naphthalene	µg/l	0.64	<3.1	<3.1	<3.1	1.7	<0.0090	<0.018	100	10
sec-Butylbenzene	µg/l	1.3	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	µg/l	0.5	---	---	---	---	---	---	NS	NS
PAHs										
1- Methyl Naphthalene	µg/l	<72	<3.6	<3.6	<3.6	0.60	0.04	<0.018	NS	NS
2- Methyl Naphthalene	µg/l	<64	<3.2	16.0	<3.2	<0.18	<0.0066	<0.021	NS	NS
Naphthalene	µg/l	<62	<3.1	<3.1	<3.1	1.7	<0.0090	<0.018	40	8
Acenaphthene	µg/l	<60	<3.0	<3.0	3.5	0.44	0.093	0.065	NS	NS
Acenaphthylene	µg/l	<92	<4.6	<3.0	<4.6	1.6	<0.0069	<0.016	NS	NS
Anthracene	µg/l	<6.0	0.44	<3.0	<0.3	<0.14	<0.0093	<0.013	NS	NS
Benzo (a) anthracene	µg/l	<0.80	0.11	<0.04	0.10	0.69	<0.021	0.027 J	NS	NS
Benzo (a) pyrene	µg/l	**2.0**	**0.31**	***0.06***	**0.25**	***0.13***	**0.28**	0.016 J	0.2	0.02
Benzo (b) fluoanthene	µg/l	<1.4	**0.28**	<0.07	**0.22**	***0.02***	<0.0066	0.017 J	NS	NS
Benzo (g,h,i) perylene	µg/l	26	0.24	0.11	0.36	0.16	<0.019	0.016 J	NS	NS
Benzo (k) flouranthene	µg/l	0.64	0.05	0.01	0.08	0.01	<0.0074	<0.023	NS	NS
Chrysene	µg/l	<10	**1.1**	<0.50	**1.7**	***0.15***	<0.011	***0.021 J***	0.2	0.02
Dibenzo (a,h) anthracene	µg/l	<0.60	0.05	<0.03	0.18	0.02	<0.016	<0.015	NS	NS
Fluoranthene	µg/l	<24	6.0	<1.2	<1.2	0.81	<0.0085	0.027 J	400	80
Phenanthrene	µg/l	<6.0	0.7	<0.3	<0.3	<0.12	<0.0085	<0.017	NS	NS
Pyrene	µg/l	<12	<0.60	<0.60	<0.60	0.22	<0.0043	0.04 J	250	50
Biofeasibility Indicator Parameters										
Manganese, Dissolved	mg/l	0.69	0.68	0.4	0.46	0.14	---	---	NS	NS
Nitrate Nitrogen	mg/l	<0.04	<0.04	<0.04	0.14	<0.007	---	---	NS	NS
Sulfate	mg/l	243	226	395	399	28	---	---	NS	NS
Dissolved Oxygen	mg/l	0.23	0.38	0.37	0.90	0.33	0.90	---	NS	NS
Redox Potential	mV	-52.2	-14.6	-60.0	48.4	---	102.0	---	NS	NS
Ferrous Iron	mg/l	3.2	4.0	1.8	1.8	1.8	2.4	---	NS	NS

Key:
J = Analyte detected between limit of detection and limit of quantitation
DRO = Diesel Range Organics
--- = Not analyzed
ft btc = feet below top of casing
mV = Millivolts
mg/l = milligram per liter
µg/l = microgram per liter
ES = NR 140 Enforcement Standard
NS = No established Standard
Box = Exceeds NR 140 Enforcement Standard
Italics = Exceeds NR 140 Preventive Action Limit

TABLE 3
MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS
CITY OF MILWAUKEE
LINCOLN GARAGE
3921 West Lincoln Avenue
Milwaukee, WI
Project #2360

	UNITS	MW-6							NR 140 ES	NR 140 PAL
Date Collected		6/14/99	9/13/99	12/08/99	04/10/00	11/21/02	03/14/06	11/12/07		
Depth to Groundwater	ft btc	14.50	15.04	15.49	15.63	15.00	14.45	14.95		
DRO	mg/l	0.71	0.814	0.621	0.456	---	---	---	NS	NS
VOCs										
Toluene	µg/l	<0.33	<0.68	<0.68	<0.68	<0.44	<0.442	<0.26	1,000	200
Methyl-tert-butyl ether	µg/l	0.87	<0.35	<0.35	<0.35	<0.30	<0.298	<0.53	60	12
1,1-Dichloroethane	µg/l	0.24	---	---	---	---	---	---	850	85
cis-1,2-Dichloroethene	µg/l	0.43	---	---	---	---	---	---	70	7
Isopropylbenzene	µg/l	<0.16	---	---	---	---	---	---	NS	NS
Naphthalene	µg/l	<0.46	<3.1	<3.1	<3.1	1.7	0.022	<0.018	100	10
sec-Butylbenzene	µg/l	<0.3	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	µg/l	<0.2	---	---	---	---	---	---	NS	NS
PAHs										
1- Methyl Naphthalene	µg/l	<18	<3.6	<3.6	<3.6	<0.13	<0.0080	<0.018	NS	NS
2- Methyl Naphthalene	µg/l	<16	<3.2	15	<3.2	<0.18	0.030	<0.021	NS	NS
Naphthalene	µg/l	<16	<3.1	<3.1	<3.1	1.7	0.022	<0.018	40	8
Acenaphthene	µg/l	<15	<3.0	<3.0	<3.0	0.17	<0.011	<0.015	NS	NS
Acenaphthylene	µg/l	<23	<4.6	<4.6	<4.6	2.3	<0.0069	<0.016	NS	NS
Anthracene	µg/l	<1.5	0.5	<0.30	<0.3	<0.14	<0.0093	<0.013	NS	NS
Benzo (a) anthracene	µg/l	<0.20	<0.80	0.05	<0.04	0.13	<0.021	0.021 J	NS	NS
Benzo (a) pyrene	µg/l	**0.42**	<0.80	***0.19***	***0.04***	***0.02***	<0.011	<0.015	0.2	0.02
Benzo (b) fluoanthene	µg/l	<0.35	<1.4	**0.26**	<0.07	***0.02***	<0.0066	<0.014	NS	NS
Benzo (g,h,i) perylene	µg/l	1.1	<1.4	0.24	<0.07	0.6	<0.019	<0.015	NS	NS
Benzo (k) flouranthene	µg/l	0.09	<0.20	0.04	<0.01	0.33	<0.0074	<0.023	NS	NS
Chrysene	µg/l	<2.5	<10	<0.50	<0.5	***0.05***	<0.011	<0.016	0.2	0.02
Dibenzo (a,h) anthracene	µg/l	0.88	<0.60	0.12	<0.03	0.05	<0.016	<0.015	NS	NS
Fluoranthene	µg/l	<4.0	2.8	<1.2	3.4	0.4	<0.0085	0.019 J	400	80
Phenanthrene	µg/l	<1.5	<0.30	0.56	<0.30	<0.12	<0.0085	<0.017	NS	NS
Pyrene	µg/l	<3.0	<12	<0.60	<0.60	0.08	<0.0043	0.025 J	250	50
Biofeasibility Indicator Parameters										
Manganese, Dissolved	mg/l	0.38	0.28	0.34	0.43	0.09	---	---	NS	NS
Nitrate Nitrogen	mg/l	<0.04	<0.04	<0.04	0.29	<0.007	---	---	NS	NS
Sulfate	mg/l	299	349	309	494	22	---	---	NS	NS
Dissolved Oxygen	mg/l	0.29	0.33	0.26	0.75	0.41	1.4	---	NS	NS
Redox Potential	mV	-36.3	-22.5	-67.8	55.1	---	37	---	NS	NS
Ferrous Iron	mg/l	3.1	3.5	3.0	2.4	1.2	2.8	---	NS	NS

Key:
- J = Analyte detected between limit of detection and limit of quantitation
- DRO = Diesel Range Organics
- --- = Not analyzed
- ft btc = feet below top of casing
- mV = Millivolts
- mg/l = milligram per liter
- µg/l = microgram per liter
- ES = NR 140 Enforcement Standard
- NS = No established Standard
- **Box** = Exceeds NR 140 Enforcement Standard
- ***Italics*** = Exceeds NR 140 Preventive Action Limit

TABLE 3
MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS
CITY OF MILWAUKEE
LINCOLN GARAGE
3921 West Lincoln Avenue
Milwaukee, WI
Project #2360

	UNITS	MW-7							NR 140	NR 140
Date Collected		6/14/99	9/13/99	12/08/99	04/10/00	11/21/02	03/14/06	11/12/07	ES	PAL
Depth to Groundwater	ft btc	14.10	14.68	15.11	15.22	14.68	13.94	14.61		
DRO	mg/l	0.403	0.463	0.801	0.552	---	---	---	NS	NS
VOCs										
Toluene	µg/l	<0.33	<0.68	<0.68	<0.68	<0.44	<0.442	<0.26	1,000	200
Methyl-tert-butyl ether	µg/l	0.5	0.66	<0.35	<0.35	<0.30	<0.298	<0.53	60	12
1,1-Dichloroethane	µg/l	<0.15	---	---	---	---	---	---	850	85
cis-1,2-Dichloroethene	µg/l	0.75	---	---	---	---	---	---	70	7
Isopropylbenzene	µg/l	<0.16	---	---	---	---	---	---	NS	NS
Naphthalene	µg/l	<0.46	<3.1	<3.1	<3.1	5.3	<0.0090	<0.018	100	10
sec-Butylbenzene	µg/l	<0.3	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	µg/l	<0.2	---	---	---	---	---	---	NS	NS
PAHs										
1- Methyl Naphthalene	µg/l	<18	4.1	<3.6	<3.6	0.76	0.049	<0.018	NS	NS
2- Methyl Naphthalene	µg/l	<16	<3.2	<3.2	<3.2	0.38	<0.0066	<0.021	NS	NS
Naphthalene	µg/l	<16	<3.1	<3.1	<3.1	5.3	<0.0090	<0.018	40	8
Acenaphthene	µg/l	<15	<3.0	12	<3.0	0.81	<0.011	<0.015	NS	NS
Acenaphthylene	µg/l	<23	<4.6	<4.6	<4.6	3.2	<0.0069	<0.016	NS	NS
Anthracene	µg/l	<1.5	0.5	<0.30	<0.30	<0.14	<0.0093	<0.013	NS	NS
Benzo (a) anthracene	µg/l	<0.20	<0.04	<0.04	<0.04	0.05	<0.021	<0.015	NS	NS
Benzo (a) pyrene	µg/l	**0.4**	<0.04	<0.04	<0.04	<0.01	<0.011	<0.015	0.2	0.02
Benzo (b) fluoanthene	µg/l	<0.35	<0.07	<0.07	<0.07	***0.1***	<0.0066	<0.014	NS	NS
Benzo (g,h,i) perylene	µg/l	1.4	<0.07	<0.07	<0.07	0.87	<0.019	<0.015	NS	NS
Benzo (k) flouranthene	µg/l	0.1	<0.01	<0.01	<0.01	0.31	<0.0074	<0.023	NS	NS
Chrysene	µg/l	<2.5	<0.50	<0.50	<0.50	***0.11***	<0.011	<0.016	0.2	0.02
Dibenzo (a,h) anthracene	µg/l	0.96	<0.03	<0.03	<0.03	0.2	<0.016	<0.015	NS	NS
Fluoranthene	µg/l	<6.0	4.3	<1.2	<1.2	<0.01	<0.0085	<0.015	400	80
Phenanthrene	µg/l	<1.5	1.1	<0.30	<0.30	<0.12	<0.0085	<0.017	NS	NS
Pyrene	µg/l	<3.0	<0.060	<0.60	<0.60	0.16	<0.0043	<0.015	250	50
Biofeasibility Indicator Parameters										
Manganese, Dissolved	mg/l	0.79	0.56	0.55	0.58	0.11	---	---	NS	NS
Nitrate Nitrogen	mg/l	<0.04	<0.04	<0.04	<0.03	<0.007	---	---	NS	NS
Sulfate	mg/l	235	214	309	388	31	---	---	NS	NS
Dissolved Oxygen	mg/l	0.32	0.34	0.30	0.64	0.34	0.43	---	NS	NS
Redox Potential	mV	-62.8	-25.4	-58.0	107.3	---	19.0	---	NS	NS
Ferrous Iron	mg/l	3.7	4.8	2.6	2.0	1.0	4.2	---	NS	NS

Key:
- J = Analyte detected between limit of detection and limit of quantitation
- DRO = Diesel Range Organics
- --- = Not analyzed
- ft btc = feet below top of casing
- mV = Millivolts
- mg/l = milligram per liter
- µg/l = microgram per liter
- ES = NR 140 Enforcement Standard
- NS = No established Standard
- **Box** = Exceeds NR 140 Enforcement Standard
- ***Italics*** = Exceeds NR 140 Preventive Action Limit

TABLE 3
MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
DETECTED COMPOUNDS
CITY OF MILWAUKEE
LINCOLN GARAGE
3921 West Lincoln Avenue
Milwaukee, WI
Project #2360

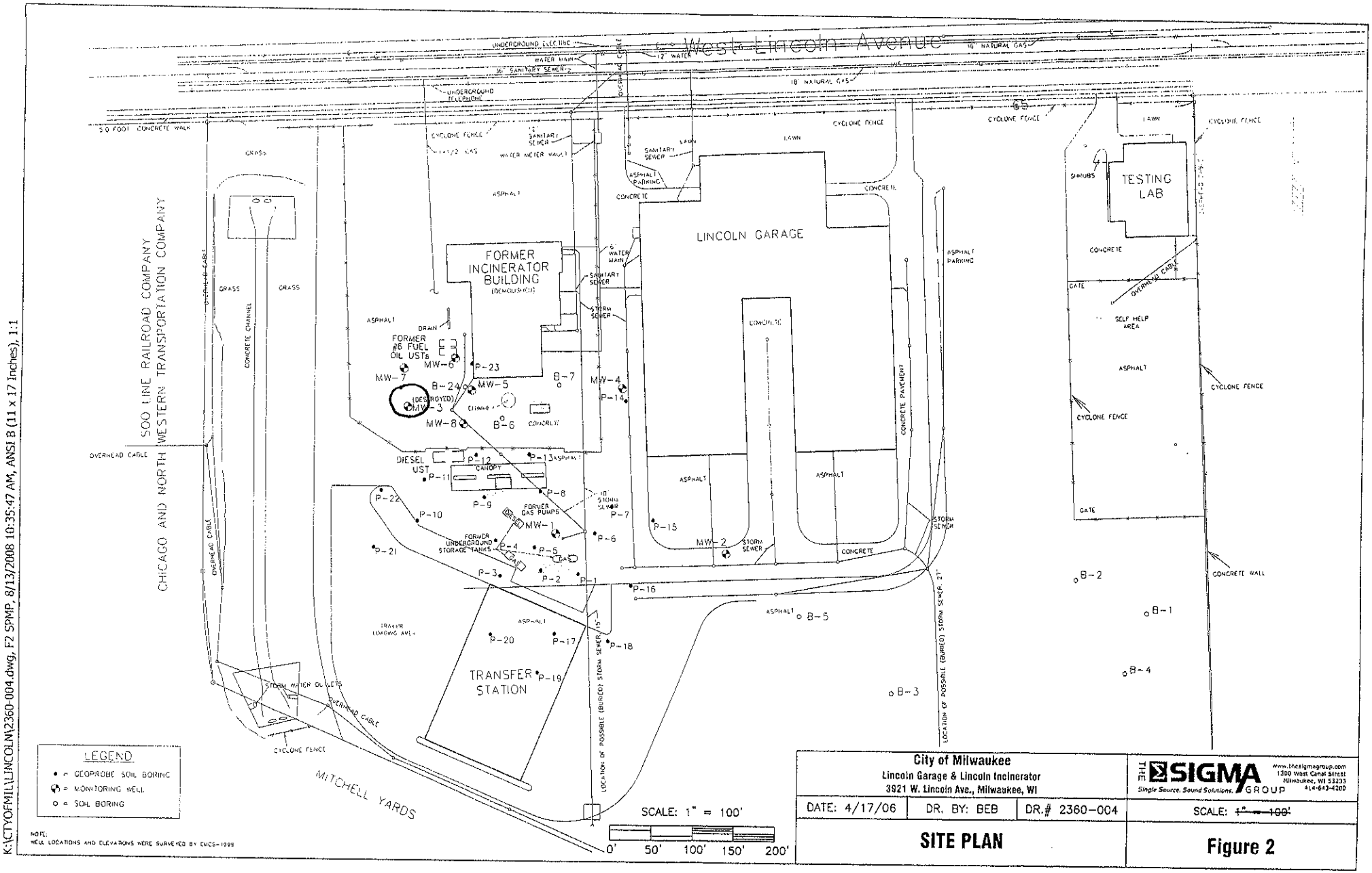
	UNITS	MW-8							NR 140 ES	NR 140 PAL
Date Collected		6/14/99	9/13/99	12/08/99	04/10/00	11/21/02	03/14/06	11/12/07		
Depth to Groundwater	ft btc	13.59	14.13	14.57	14.70	14.11	13.51	14.51		
DRO	mg/l	0.809	0.346	0.46	0.515	---	---	---	NS	NS
VOCs										
Toluene	µg/l	<0.33	<0.68	<0.68	<0.68	<0.44	<0.442	<0.26	1,000	200
Methyl-tert-butyl ether	µg/l	1.8	1.9	1.3	<0.35	<0.30	<0.298	<0.53	60	12
1,1-Dichloroethane	µg/l	<0.15	---	---	---	---	---	---	850	85
cis-1,2-Dichloroethene	µg/l	<0.2	---	---	---	---	---	---	70	7
Isopropylbenzene	µg/l	<0.16	---	---	---	---	---	---	NS	NS
Naphthalene	µg/l	<0.46	<3.1	<3.1	<3.1	<0.22	0.022	<0.018	100	10
sec-Butylbenzene	µg/l	<0.3	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	µg/l	<0.2	---	---	---	---	---	---	NS	NS
PAHs										
1- Methyl Naphthalene	µg/l	<18	<3.6	<3.6	<3.6	<0.13	<0.0080	<0.018	NS	NS
2- Methyl Naphthalene	µg/l	<16	<3.2	<3.2	<3.2	<0.18	<0.0066	<0.021	NS	NS
Naphthalene	µg/l	<16	<3.1	<3.1	<3.1	<0.22	0.022	<0.018	40	8
Acenaphthene	µg/l	<15	<3.0	<3.0	<3.0	<0.15	<0.011	<0.015	NS	NS
Acenaphthylene	µg/l	<23	<4.6	<4.6	<4.6	<0.12	<0.0069	<0.016	NS	NS
Anthracene	µg/l	<1.5	0.56	<0.30	<0.30	<0.14	<0.0093	<0.013	NS	NS
Benzo (a) anthracene	µg/l	<0.20	<0.04	<0.04	<0.04	<0.03	<0.021	<0.015	NS	NS
Benzo (a) pyrene	µg/l	**0.22**	***0.1***	<0.04	<0.04	<0.01	<0.011	<0.015	0.2	0.02
Benzo (b) fluoanthene	µg/l	<0.35	<0.07	<0.07	<0.07	<0.01	<0.0066	<0.014	NS	NS
Benzo (g,h,i) perylene	µg/l	1.8	<0.07	0.15	<0.07	7.1	<0.019	<0.015	NS	NS
Benzo (k) flouranthene	µg/l	0.06	0.01	0.01	<0.01	0.04	<0.0074	<0.023	NS	NS
Chrysene	µg/l	<2.5	<0.5	<0.50	<0.50	<0.01	<0.011	<0.016	0.2	0.02
Dibenzo (a,h) anthracene	µg/l	0.56	<0.03	0.04	<0.03	0.02	<0.016	<0.015	NS	NS
Fluoranthene	µg/l	<6.0	2.0	<1.2	2.8	0.09	<0.0085	<0.015	400	80
Phenanthrene	µg/l	<1.5	0.5	0.31	<0.30	0.17	<0.0085	<0.017	NS	NS
Pyrene	µg/l	<3.0	<0.060	<0.60	<0.60	<0.01	<0.0043	<0.015	250	50
Biofeasibility Indicator Parameters										
Manganese, Dissolved	mg/l	0.45	0.35	0.37	0.42	0.14	---	---	NS	NS
Nitrate Nitrogen	mg/l	<0.04	<0.04	<0.04	0.23	0.12	---	---	NS	NS
Sulfate	mg/l	347	372	289	345	31	---	---	NS	NS
Dissolved Oxygen	mg/l	0.23	0.65	0.27	0.56	0.33	1.04	---	NS	NS
Redox Potential	mV	-9.9	-6.6	-55.7	108.6	---	106	---	NS	NS
Ferrous Iron	mg/l	0.25	3.4	2.8	2.8	2.8	1.6	---	NS	NS

Key:
J = Analyte detected between limit of detection and limit of quantitation
DRO = Diesel Range Organics
--- = Not analyzed
ft btc = feet below top of casing
mV = Millivolts
mg/l = milligram per liter
µg/l = microgram per liter
ES = NR 140 Enforcement Standard
NS = No established Standard
Box = Exceeds NR 140 Enforcement Standard
Italics = Exceeds NR 140 Preventive Action Limit

Table 1
Groundwater Elevation Data
City of Milwaukee - Lincoln Garage / Incinerator
3921 West Lincoln Avenue
Milwaukee, Wisconsin
Project # 2360 / #4846

Well #	Top of Casing Elevation	Screen Interval (feet bgs)	Depth to Groundwater (feet btoc)	Groundwater Elevations	Date
MW-1	648.49	7-17	13.77	634.72	04/21/98
			15.38	633.11	12/08/99
			14.45	634.04	04/10/00
			12.40	636.09	11/21/02
			13.50	634.99	03/14/06
			13.91	634.58	11/12/07
MW-2	649.74	7-17	11.49	638.25	04/21/98
			14.67	635.07	12/08/99
			14.05	635.69	04/10/00
			14.25	635.49	11/21/02
			11.46	638.28	03/14/06
			11.04	638.70	11/12/07
MW-3	647.73	7-17	13.23	634.50	04/21/98
MW-4	648.76	4-19	14.07	634.69	04/21/98
			14.68	634.08	12/08/99
			14.82	633.94	04/10/00
			14.05	634.71	11/21/02
			13.65	635.11	03/14/06
			14.09	634.67	11/12/07
MW-5	649.12	9-19	13.98	635.14	06/14/99
			14.51	634.61	09/13/99
			14.95	634.17	12/08/99
			15.09	634.03	04/10/00
			14.49	634.63	11/21/02
			13.95	635.17	03/14/06
			14.48	634.64	11/12/07
MW-6	649.66	9-19	14.50	635.16	06/14/99
			15.04	634.62	09/13/99
			15.49	634.17	12/08/99
			15.63	634.03	04/10/00
			15.00	634.66	11/21/02
			14.45	635.21	03/14/06
			14.95	634.71	11/12/07
MW-7	649.20	7-17	14.10	635.10	06/14/99
			14.68	634.52	09/13/99
			15.11	634.09	12/08/99
			15.22	633.98	04/10/00
			14.68	634.52	11/21/02
			13.94	635.26	03/14/06
			14.61	634.59	11/12/07
MW-8	Suspect data	7-17	13.59		06/14/99
			14.13		09/13/99
			14.57		12/08/99
			14.70		04/10/00
			14.11		11/21/02
			13.51		03/14/06
			14.51		11/12/07

Elevations in feet above mean sea level, based on a survey by EMCS
btoc = below top of casing



NOTE:
WELL LOCATIONS AND ELEVATIONS WERE SURVEYED BY ENCS-1999

K:\CITYOFMIL\LINCOLN\2360-004.dwg, F2 SPMP, 8/13/2008 10:35:47 AM, ANSI B (11 x 17 Inches), 1:1

City of Milwaukee Lincoln Garage & Lincoln Incinerator 3921 W. Lincoln Ave., Milwaukee, WI			THE SIGMA GROUP Single Source. Sound Solutions. www.thesigmagroup.com 1300 West Canal Street Milwaukee, WI 53233 414-643-4200
DATE: 4/17/06	DR. BY: BEB	DR.# 2360-004	SCALE: ~~1" = 100'~~
SITE PLAN			**Figure 2**

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A
8-89

Facility/Project Name: CITY OF MILWAUKEE-LINCOLN GARAGE	Grid Location: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-3
Facility License, Permit or Monitoring Number: ____		Wis. Unique Well Number: ____ DNR Well Number: ____
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	Section Location: NW 1/4 of NW 1/4 of Section 12; T 6 N, R 21 ☒ E ☐ W	Date Well Installed: 04/01/98 (m m d d y y)
Distance Well Is From Waste/Source Boundary: ____ ft.	Location of Well Relative to Waste/Source: ☐ Upgradient ☐ Sidegradient ☐ Downgradient ☐ Not Known	Well Installed By: (Person's Name and Firm) SES - DAVE & ERIC; SIGMA ENVIRONMENTAL - MARTY NESSMAN
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		

A. Protective pipe, top elevation ____ ft. MSL

B. Well casing, top elevation 647.73 ft. MSL

C. Land surface elevation ____ ft. MSL

D. Surface seal, bottom ____ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
☐ GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP
☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH
☐ Bedrock

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

16. Drilling additives used? ☐ Yes ☐ No

Describe: ____

17. Source of water (attach analysis): ____

E. Bentonite seal, top ____ ft. MSL or 1.0 ft.

F. Fine sand, top ____ ft. MSL or 5.0 ft.

G. Filter pack, top ____ ft. MSL or 6.0 ft.

H. Well screen, top ____ ft. MSL or 7.0 ft.

I. Well screen, bottom ____ ft. MSL or 17.0 ft.

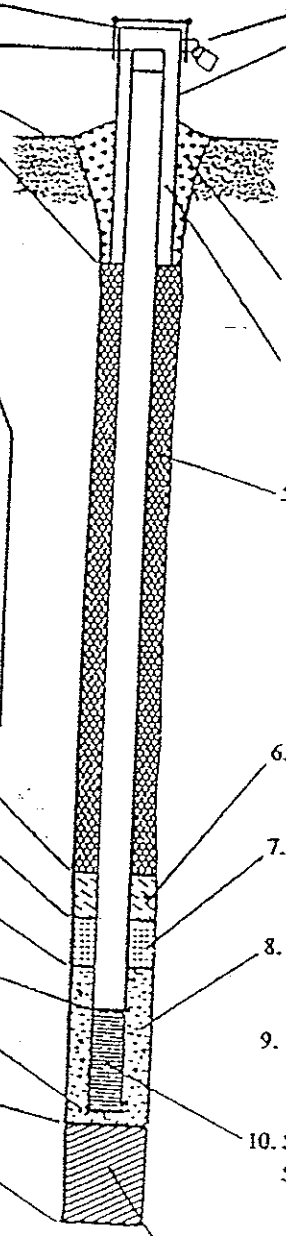
J. Filter pack, bottom ____ ft. MSL or 17.0 ft.

K. Borehole, bottom ____ ft. MSL or 17.0 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.16 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 9.0 in.
b. Length: 1.0 ft.
c. Material: FLUSH MOUNT — Steel ☒ 04; Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: ____

3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐

4. Material between well casing and protective pipe: Bentonite ☒ 30; Annular space seal ☐; Other ☐

5. Annular space seal: Granular Bentonite ☐ 33
____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
____ ft^3 volume added for any of the above
How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☐ 08

6. Bentonite seal: Bentonite granules ☐ 33; Bentonite pellets ☐ 32; Other ☐
☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in.

7. Fine sand material: Manufacturer, product name and mesh size: #50 RED FLINT
Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name and mesh size: #30 RED FLINT
Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐

10. Screen material: PVC
Screen type: Factory cut ☐ 11; Continuous slot ☐ 01; Other ☐
Manufacturer ____
Slot size: 0.010 in.
Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒; Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Martin J. Nessman

Firm: SIGMA ENVIRONMENTAL SERVICES, INC.

Please complete and return both sides of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with s. 144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation.
NOTE: Shaded areas are for DNR use only. See instructions for more information.

THIS INDENTURE, Made this 2nd day of ~~April~~ May, A.D., 1950, between The Mitchell Properties, Inc., a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located at Milwaukee, Wisconsin, party of the first part, and City of Milwaukee, a municipal corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located at Milwaukee, Wisconsin, party of the second part.

W I T N E S S E T H, That the said party of the first part, for and in consideration of the sum of Two Hundred Ninety Thousand and no/100ths Dollars ($290,000.00) 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 confirm unto the said party of the second part, its successors and assigns forever, the following described real estate, situated in the County of Milwaukee and State of Wisconsin, to-wit:

"That part of the North West One-quarter (N.W.1/4) of Section Twelve (12), Town Six (6) North, Range Twenty-one (21) East, partly in the City of Milwaukee and partly in the Town of Greenfield, bounded and described as follows:

"Commencing at a point on the North line Two Hundred Fifty-five and No One-hundredths (255.00) feet, South Eighty-eight degrees, Twenty-one minutes, Thirty seconds (88°21'30") West of the Northeast corner of said One-quarter (1/4) Section; thence South on a line parallel to the east line of said One-quarter (1/4) Section One Hundred Fifty-three and No One-hundredths (153.00) feet to a point; thence North Eighty-eight degrees, Twenty-one minutes, Thirty seconds (88°21'30") East on a line parallel to the north line of said One-quarter (1/4) Section One hundred and No One-hundredths (100.00) feet to a point; thence South on a line parallel to the east line of said One-quarter (1/4) Section One Thousand Three Hundred Fifty-two and Twenty-two One-hundredths (1352.22) feet to a point; thence South Thirteen degrees, Twenty-five minutes (13°25') West on a line One Hundred Ninety-one and Eighty-nine One-hundredths (191.89) feet to a point which is One Hundred Eighty and No One-hundredths

(180.00) feet North Sixty-six degrees, One minute, Thirty seconds (66°01'30") West of the East line of South Thirty-fifth (35th) Street and being in the northerly line of the Mitchell Yards of Chicago & North Western Railway; thence North Sixty-six degrees, One minute, Thirty seconds (66°01'30") West along the northerly line of said Yards Two Thousand Two Hundred Fifty-four and Seventeen One-hundredths (2254.17) feet to a point in the Easterly line of the Chicago & North Western Railway and Chicago, Milwaukee, St. Paul & Pacific Railway Co. Belt line right of way; thence northerly along the easterly line of said right of way on a curved line with a radius of Six Hundred Eighty-three and Eighty One-hundredths (683.80) feet, whose center point is to the east and the chord is One Hundred Thirty-two and Sixty-one One-hundredths (132.61) feet long and bears North Four degrees, Forty-four minutes, Eleven seconds (4°44'11") West, a distance of One Hundred Thirty-two and Eighty-two One-hundredths (132.82) feet to a point; thence North No degrees, Forty-four minutes, Thirty seconds (0°44'30") East along the east line of the same right of way Five Hundred Eighty-two and Eighty One-hundredths (582.80) feet to a point in the north line of said One-quarter (1/4) Section; thence North Eighty-eight degrees, Twenty-one minutes, Thirty seconds (88°21'30") East along the north line of said One-quarter (1/4) Section Two Thousand Eight and Forty-eight One-hundredths (2008.48) feet to the place of beginning, containing Fifty-eight and Twenty-seven One-hundredths (58.27) acres of land.

"Reserving from the above parcel the North Thirty-three and No One-hundredths (33.00) feet of the last described course and distance for street purposes."

This deed is given in fulfillment of land contract dated April 22, 1948.

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.

TO HAVE AND TO HOLD 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 The Mitchell Properties, Inc., 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 ensealing 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, 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 The Mitchell Properties, Inc., party of the first part, has caused these presents to be signed by Martin A. Flados, its President, and countersigned by George F. Kasten, its Secretary, at Milwaukee, Wisconsin, and its corporate seal to be hereunto affixed, this 2nd day of ~~April~~ May, A.D., 1950.

Signed and sealed in presence of:

John S. Owen

Lucille Nicoud

THE MITCHELL PROPERTIES, INC.

Martin A. Flados
MARTIN A. FLADOS
President

Countersigned:

George F. Kasten
GEORGE F. KASTEN
Secretary

STATE OF WISCONSIN }
MILWAUKEE COUNTY } ss.

Personally came before me, this 2nd day of ~~April~~ May, A.D., 1950, Martin A. Flados, President, and George F. Kasten, 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.

Wm. Apel Jr.
Wm. Apel Jr.
Notary Public, Milwaukee County, Wis.
My commission expires: Oct 18 1953

APPROVED as to Form and Execution this 2nd day of May 1950.
Robert J. Narmozinski
Assistant City Attorney

No. 2941233

The Mitchell Properties, Inc., a Wisconsin corporation

To

City of Milwaukee, a municipal corporation of the State of Wisconsin

* *

WARRANTY DEED

* *

Register's Office
State of Wisconsin
Milwaukee County

Received for record this ___ day of JUN-7 1950 A.D. 1950, at 9:00 o'clock A.M., and recorded in Vol. 3251 of Deeds on page 157 and
Kathryn Likenfeld
Register of Deeds

Deputy

WALTER J. KATTISON
City Attorney
801 City Hall
Milwaukee 2, Wisconsin

RETURN TO
COMPTROLLER'S OFFICE
City of Milwaukee

TAX COMMISSIONERS OFFICE
JUN 2 1950
Deputy Tax Commissioner

DRAFTING SERVICES
Draft No. 302
Draft No.

Land - Grange - Stange - Orchard
Dist of St
M. Lingle
Jul 17-953 7/6/48