GIS REGISTRY INFORMATION

SITE NAME:	Kaul Oil Co Inc		
BRRTS #:	03-41-004810	**FID #** (if appropriate):	
COMMERCE #:	53225-2799-31-A		
CLOSURE DATE:	**January 18, 2008**		
STREET ADDRESS:	5931 N 91st St		
CITY:	Milwaukee		

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	**X =**	**680552**		**Y =**	**296629**	
CONTAMINATED MEDIA:	Groundwater		Soil		Both	X
OFF-SOURCE GW CONTAMINATION >ES:			**Yes**		**No**	
• **IF YES, STREET ADDRESS:**						
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**			**Y =**		
OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):	**Yes**			**No**		
• **IF YES, STREET ADDRESS 1:**						
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**			**Y =**		
CONTAMINATION IN RIGHT OF WAY:	**Yes**	X		**No**		

DOCUMENTS NEEDED

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

commerce.wi.gov
Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
9316 North 107th Street
Milwaukee, Wisconsin 53224-1121
TDD #: (608) 264-8777
Fax #: (414) 357-4700
Jim Doyle, Governor
Jack L. Fischer, A.I.A., Secretary

January 18, 2008

Mr. Dennis Kaul
Kaul Oil Co., Inc.
5931 North 91st Street
Milwaukee, WI 53225-2799

RE: **Final Closure with Land Use Limitation**

Commerce # 53225-2799-31-A DNR BRRTS # 03-41-004810
Kaul Oil Co., Inc., 5931 North 91st Street, Milwaukee

Dear Mr. Kaul:

On November 14, 2007, the Wisconsin Department of Commerce (Commerce) determined that this site does not pose a significant threat to human health the environment and, consequently, conditionally closed the site with the requirement that all monitoring wells be properly abandoned. Commerce has since been informed that two monitoring wells could not be found in order to be properly abandoned.

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

> If monitoring wells MW-6 and MW-7 are located in the future, the wells must be properly abandoned in accordance with NR 141, Wisconsin Administrative Code, and well abandonment forms must be submitted to Commerce at the letterhead address.

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 Department of Natural Resources (DNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to document residual soil and groundwater contamination that remains above state standards and the land use limitation. It is in your best interest to keep all documentation related to the environmental activities at your site.

Please note that contaminated media excavated in the future must be managed in accordance with all applicable state and federal regulations. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required.

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) 357-4704.

Sincerely,

Stephen D. Mueller
Senior Hydrogeologist
Site Review Section

cc: Ms. Nicole Wilbur, K. Singh & Associates, Inc.

PAVEMENT COVER AND BUILDING BARRIER MAINTENANCE PLAN

October 8, 2007

Property Located at:

5931 N. 91st Street

Milwaukee, WI 53225

Commerce #53225-2799-31-A, BRRTS #03-41-004810

5931 North 91 Street, Milwaukee, Wisconsin. That part of the North 19acres of the East 30 acres of the North East ¼ of the South East ¼ of Section 29, Township 8 North, Range 21 East, in the City and County of Milwaukee, State of Wisconsin, which is bounded and described as follows, to-wit: Commencing at a point in the East line of said 1/4Section, and North 1 49' East 1808.15 feet from the South East corner of thereof; running thence West along the South line of the North 19 acres of the East 30 acres aforesaid, 536.76 feet to a point which is North 1 49' East and 1811.10 feet from the South line of said ¼ Section ; running thence North 1 49' East and parallel to the East line of said ¼ Section, 407.75 feet to a point in the Southerly right-of-way line of the Chicago and Northwest Railway; (said point being 75.00 feet measured at right angles from the center line of said Railway right-of-way) running thence North Easterly along the Southerly right-of-way line of said Railway, and parallel to center line thereof, 552.74 feet to a point in the East line of said ¼ Section 531.29 feet to the place of beginning; reserving the East 55.00 feet for highway purposes.

Introduction

This document is the Maintenance Plan for a pavement cover and building barrier at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing slab on grade building and other paved surfaces occupying the area over the contaminated soil on-site. The contaminated soil is impacted by benzene, ethylbenzene, toluene, and xylenes. The location of the paved surfaces and building to be maintained in accordance with this Maintenance Plan, as well as the impacted soil are identified in the attached map (Exhibit A).

Cover and Building Barrier Purpose

The paved surfaces and the building foundation over the contaminated soil serve as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. These paved surfaces and building foundation also act as a partial infiltration barrier to minimize soil-to-groundwater contamination migration that would violate the groundwater standards in Ch. NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

Annual Inspection

The paved surfaces and building foundation overlying the contaminated soil and will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause additional infiltration or exposure to underlying soils. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed will be documented. A log of the inspections and any

repairs will be maintained by the property owner and is included as Exhibit B, Cap Inspection Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed. Once repairs are completed, they will be documented in the inspection log. The inspection log must be kept on site and made immediately available for review by the Department of Commerce, its successor, and/or other state agency. Do not submit a copy of the log annually.

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling operations or they can include larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment ("PPE"). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the paved surfaces and/or the building overlying the contaminated soil are removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by Department of Commerce or its successor.

The property owner, in order to maintain the integrity of the paved surfaces and/or the building, will maintain a copy of this Maintenance Plan on-site and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of Department of Commerce.

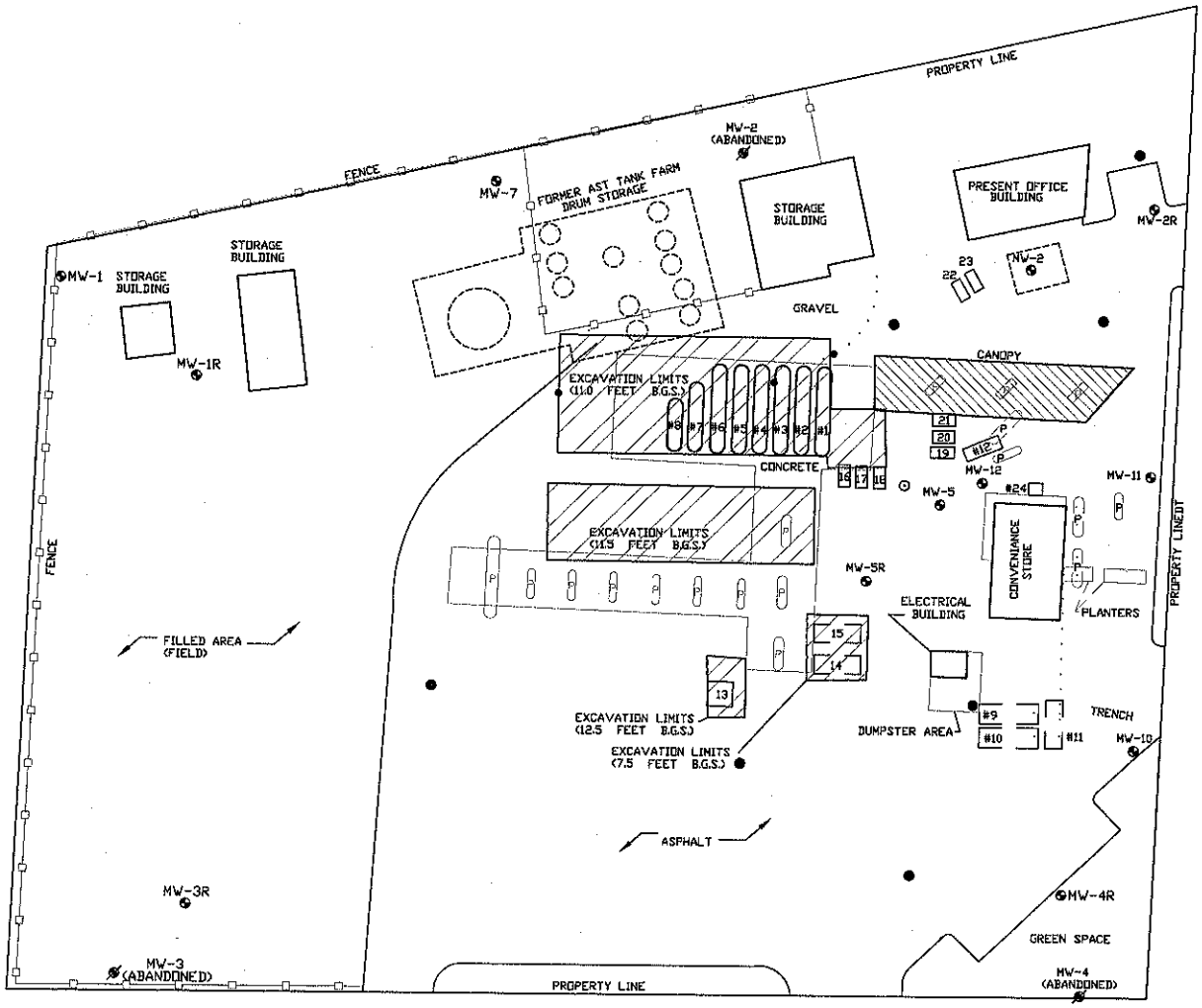
Contact Information
October 2007

Site Owner and Operator:
Dennis Kaul
5931 N. 91st Street
Milwaukee, WI 53225
Phone (414) 461-3100

WDCOMM:
Stephen Mueller
101 West Pleasant Street
Suite 100A
Milwaukee, WI 53212-3963
(414) 357-4704

Consultant:
Pratap N. Singh, Ph.D. P.E.
K. Singh & Associates, Inc.
1135 Legion Drive
Elm Grove, WI 53122
Phone (262) 821-1171

EXHIBIT A



TANK #	TANK CONTENTS	TANK STATUS
1	PREIUM UNLEADED GASOLINE	ACTIVE
2	UNLEADED GASOLINE	ACTIVE
3	#2 DIESEL FUEL	ACTIVE
4	#2 DIESEL FUEL	ACTIVE
5	#2 DIESEL FUEL	ACTIVE
6	#2 DIESEL FUEL	ACTIVE
7	#1 DIESEL FUEL	ACTIVE
8	X-1 KEROSINE	ACTIVE
9	UNLEADED GASOLINE	REMOVED (12/8/98)
10	UNLEADED GASOLINE	REMOVED (12/8/98)
11	PREMIUM UNLEADED GASOLINE	REMOVED (12/8/98)
12	UNLEADED GASOLINE d.b.a. KEROSENE	REMOVED (12/8/98)
13	DIESEL FUEL	REMOVED (8/20/91)
14	DIESEL FUEL	REMOVED (12/8/90)
15	GASOLINE	REMOVED (12/8/90)
16	GASOLINE	REMOVED (9/4/90)
17	KEROSINE	REMOVED (9/4/90)
18	FUEL OIL	REMOVED (9/4/90)
19	DIESEL FUEL	REMOVED (5/5/88)
20	DIESEL FUEL	REMOVED (5/5/88)
21	DIESEL FUEL	REMOVED (5/5/88)
22	GASOLINE	REMOVED (10/86)
23	GASOLINE	REMOVED (10/86)
24	HEATING FUEL OIL	REMOVED (12/8/96)

N

SCALE: 1" = 50'-0"

0 10' 25' 50' 100' 150'

MW-1, MW-1R — MONITORING WELL LOCATION AND NUMBER
ABANDONED MONITORING WELL LOCATION
MANHOLE COVER AND CATCH BASIN
COLLECTION SUMP LOCATION
PUMP DISPENSING ISLAND

BASE MAP DEVELOPED FROM MAP PROVIDED BY ADVENT ENGINEERING ENVIRONMENTAL SERVICES, INC.

DRAWN BY: PAR
CHECKED BY: N.W.
DATE: 11/07/07
PROJECT NO: 4580
DRAWING FILE: 4580 EXHIBIT A

ENGINEER
K. Singh & Associates, Inc.
ENGINEERS, ARCHITECTS & ENVIRONMENTAL CONSULTANTS
1135 Legion Drive Elm Grove, Wisconsin 53122
Phone: (262) 823-1771 FAX: (262) 821-1174
E-mail: ksingh@ksingh.com

TITLE: EXHIBIT A: SITE LAYOUT SHOWING LOCATION OF PAVED SURFACES AND BUILDINGS

ADDRESS: KAUL-91st AND FLAGG STREET MILWAUKEE, WISCONSIN

Sheet No. 1 of

Exhibit B
BARRIER INSPECTION LOG

Inspection Date	Inspector	Condition of Cap	Recommendations	Have Recommendations from previous inspection been implemented?

REEL 2500 IMAGE 1024

DOCUMENT NO.

STATE BAR OF WISCONSIN FORM 3 — 1982
QUIT CLAIM DEED

THIS SPACE RESERVED FOR RECORDING DATA

6426899 PM

REGISTER'S OFFICE
Milwaukee County, WI } SS
RECORDED AT 12 20 PM

OCT 15 1990
REEL 2500 IMAGE 1024

REGISTER OF DEEDS

Dennis L. Kaul, Trustee of the
Geraldine Kaul Trust u/w of Kenneth
Kaul, Deceased
quit-claims to Kaul's Leasing Co., Inc.

the following described real estate in Milwaukee County,
State of Wisconsin:

RETURN TO A. Handzlik
Reinhart, Boerner, et al.
111 E. Wisconsin Ave., Suite 1800
Milwaukee, WI 53202

Tax Parcel No. 178-9986-111

5931 North 91 Street, Milwaukee, Wisconsin. That part of the North 19 acres of the East 30 acres of the North East 1/4 of the South East 1/4 of Section 29, Township 8 North, Range 21 East, in the City and County of Milwaukee, State of Wisconsin, which is bounded and described as follows, to-wit: Commencing at a point in the East line of said 1/4 Section, and North 1 49' East 1803.15 feet from the South East corner of thereof; running thence West along the South line of the North 19 acres of the East 30 acres aforesaid, 536.76 feet to a point which is North 1 49' East and 1811.10 feet from the South line of said 1/4 Section; running thence North 1 49' East and parallel to the East line of said 1/4 Section, 407.75 feet to a point in the Southerly right-of-way line of the Chicago and Northwestern Railway; (said point being 75.00 feet measured at right angles from the center line of said Railway right-of-way) running thence North Easterly along the Southerly right-of-way line of said Railway, and parallel to the center line thereof, 552.74 feet to a point in the East line of said 1/4 Section; running thence S 1 49' West along the East line of said 1/4 Section 531.29 feet to the place of beginning; reserving the East 55.00 feet for highway purposes.

FEE

6426899 #
RECORD 8.00

77.25(15)
EXEMPT

This is not homestead property.
(is not)

Dated this 31st day of May, 1990

GERALDINE KAUL TRUST
BY Dennis L. Kaul, Trustee (SEAL)

(SEAL)

(SEAL)

(SEAL)

(SEAL)

AUTHENTICATION

Signature(s) of Dennis L. Kaul

authenticated this 31st day of May, 1990

Anthony J. Handzlik
TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Sheila A. Lawton for Reinhart,
Boerner, et al.
(Signatures may be authenticated or acknowledged. Both are not necessary.)

ACKNOWLEDGMENT

STATE OF WISCONSIN } ss.
County.

Personally came before me this day of , 19 the above named

to me known to be the person who executed the foregoing instrument and acknowledge the same.

Notary Public County, Wis.
My Commission is permanent (If not, state expiration date: , 19)

QUIT CLAIM DEED

STATE BAR OF WISCONSIN FORM No. 3 — 1982

Wisconsin Legal Blank Co., Inc.

SE 29-8-21
ATLAS P 178

178-151

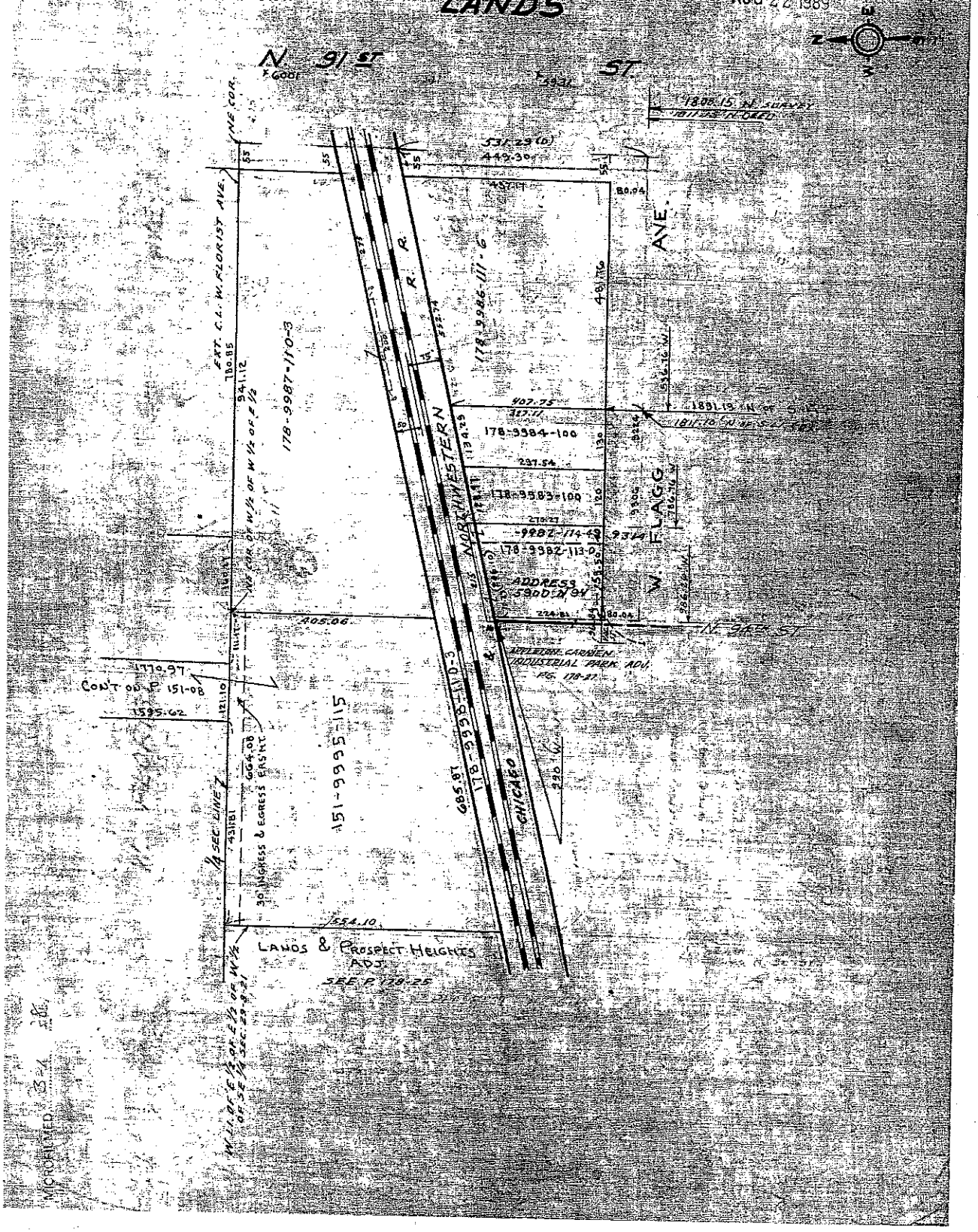
178-01

SCALE 200'=1"

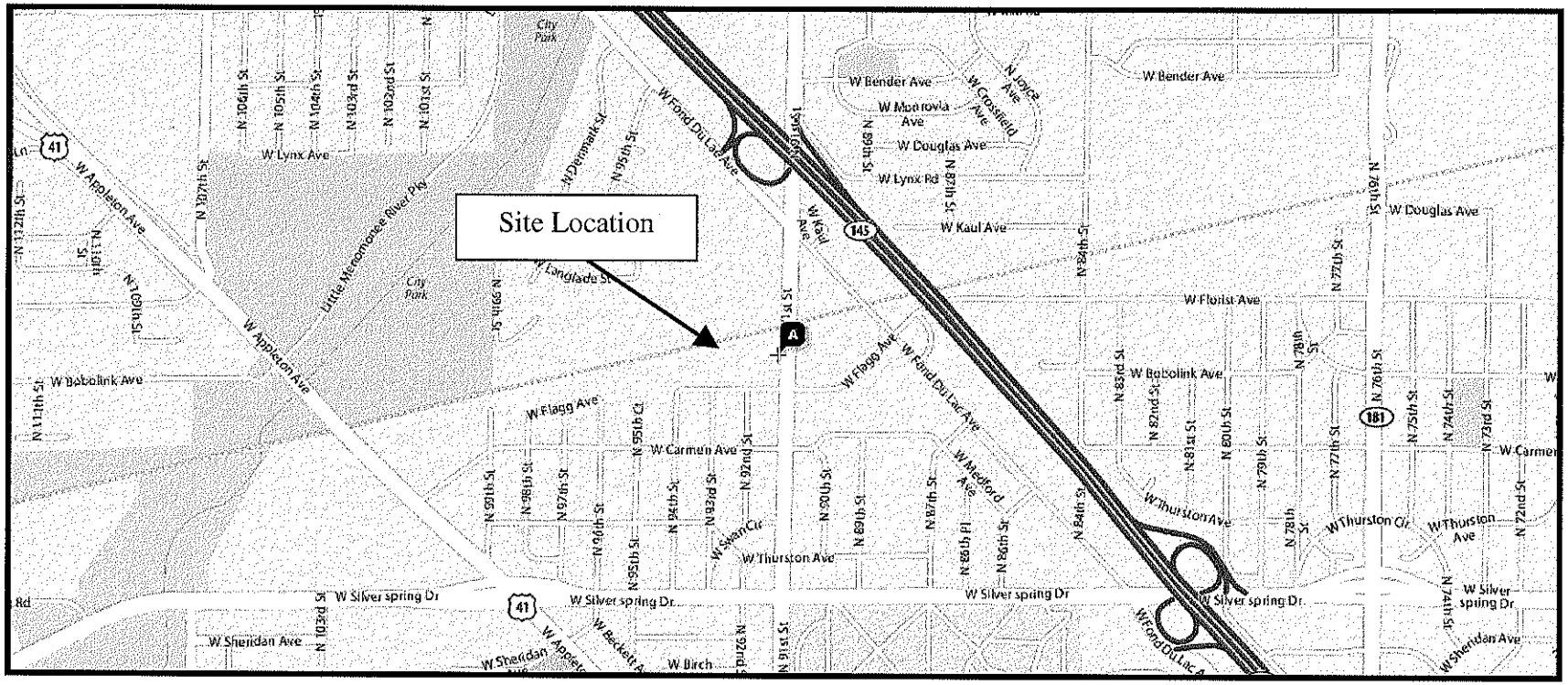
MANUFACTURING PLAT-STATE

LANDS

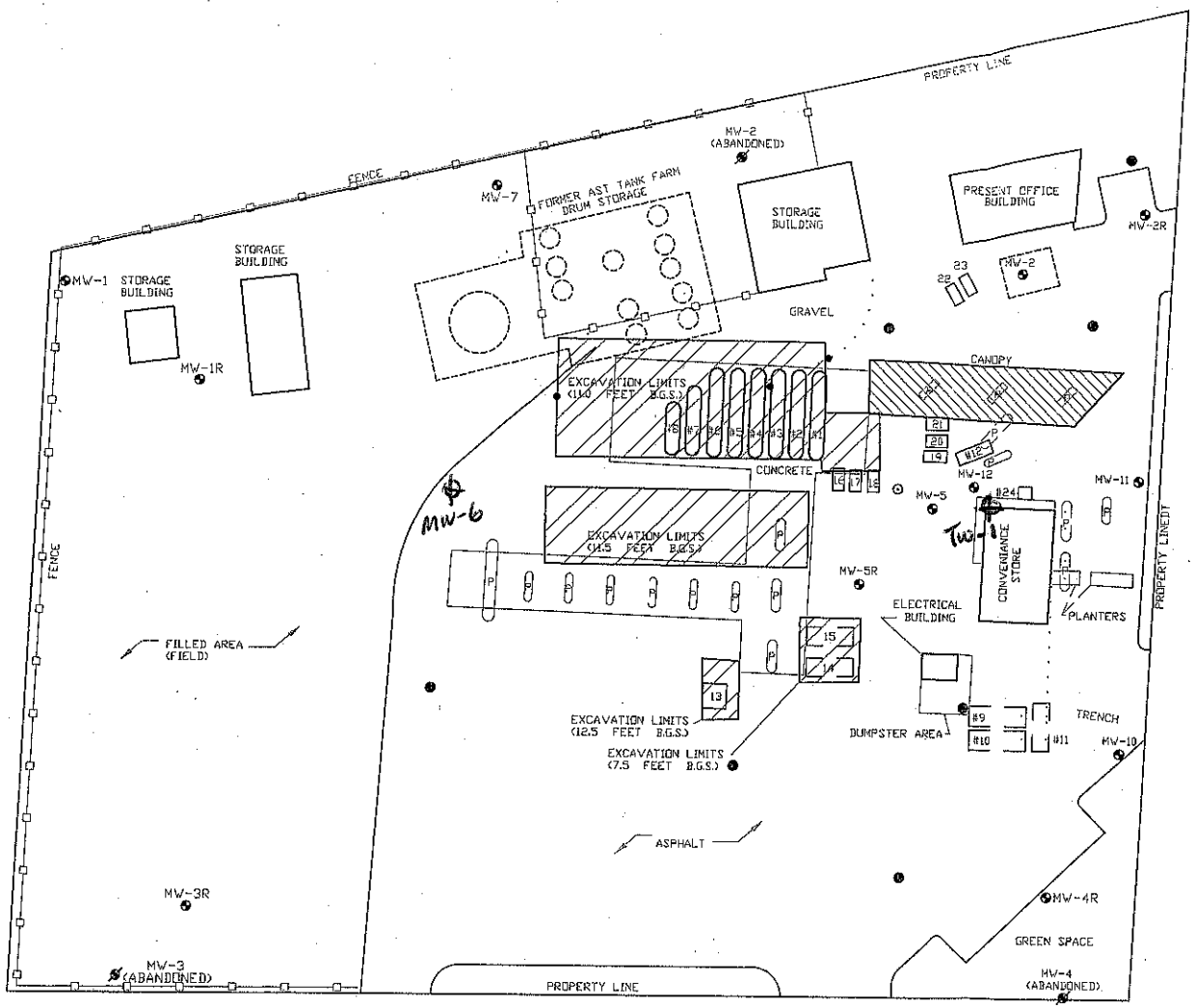
AUG 22 1989



MICROFILMED



Location of Kaul Oil Co., Inc. at 5931 N. 91st Street, Milwaukee, WI



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SCALE: 1" = 50'-0"

0 10' 25' 50' 100' 150'

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ABANDONED MONITORING WELL LOCATION
MANHOLE COVER AND CATCH BASIN
COLLECTION SUMP LOCATION
PUMP DISPENSING ISLAND

BASE MAP DEVELOPED FROM MAP PROVIDED BY ADVENT ENGINEERING ENVIRONMENTAL SERVICES, INC.

DRAWN BY:	JBM
CHECKED BY:	
DATE:	9/07/04
PROJECT NO:	4580
DRAWING FILE:	4580

ENGINEER
K. Singh & Associates, Inc.
ENGINEERS, ARCHITECTS & ENVIRONMENTAL CONSULTANTS
1155 Legion Drive Elm Grove, Wisconsin 53122
Phone: (262) 821-1171 FAX: (262) 821-1174
E-mail: info@kscorp.com

TITLE: Figure 3: SITE LAYOUT & MONITORING WELL LOCATION MAP

ADDRESS: KAUL-91st AND FLAGG STREET MILWAUKEE, WISCONSIN

Sheet No. 1

Table 2: Summary of Groundwater Quality Test Results (Pr.# 4580)

Kaul Oil Company, Inc., 5931 North 91st Street, Milwaukee WI.

Date	Benzene (µg/l)	Ethylben -zene (µg/l)	MTBE (µg/l)	Toluene (µg/l)	TMBs (µg/l)	Total Xylene (µg/l)	Naphtha-lene (µg/l)	Dis. Pb (µg/l)
MW-1R								
May 17, 2004	<0.50	<5.0	<0.51	<5.0	<10.0	<5.0	<8	<5
July 27, 2004	<0.50	<5.0	0.59	<5.0	<10.0	<5.0	NT	NT
April 24, 2006	<0.25	<0.22	<0.23	<0.11	<0.44	<0.39	NT	NT
October 7, 2006	<0.25	<0.22	<0.23	<0.11	<0.44	<0.39	NT	NT
MW-2R								
May 17, 2004	<0.50	<5.0	<0.51	<5.0	<10.0	<5.0	NT	NT
July 27, 2004	<0.50	<5.0	0.64	<5.0	<10.0	<5.0	NT	NT
April 24,2006	<0.25	<0.22	<0.23	<0.30	<0.44	<0.39	NT	NT
October 7, 2006	<0.25	<0.22	0.91	<0.11	<0.44	<0.39	NT	NT
MW-5R								
May 17, 2004	*1.57*	<5.0	2.42	<5.0	<10.0	<5.0	NT	NT
July 27, 2004	*0.61*	<5.0	4.59	<5.0	<10.0	<5.0	NT	NT
October 7, 2006	<0.25	<0.22	8.5	<0.11	<0.44	<0.39	NT	NT
MW-5								
April 24,2006	<0.25	<0.22	6.1	<0.11	<0.44	<0.39	NT	NT
April 4,2007	**120**	<8.8	**2200**	<4.4	<17.6	<16	NT	NT
Septmber 11, 2007	**72**	<8.8	**2300**	<4.4	<17.6	<16	NT	NT
MW-7								
May 17, 2004	<0.50	<5.0	<0.51	<5.0	<10.0	<5.0	NT	NT
July 27, 2004	<0.50	<5.0	<0.51	<5.0	<10.0	<5.0	NT	NT
MW-10								
May 17, 2004	<0.50	<5.0	<0.51	<5.0	<10.0	<5.0	<8.0	<5
July 27, 2004	Well not found due to ongoing construction activity on the site.							
April 24,2006	<0.25	<0.22	<0.23	<0.56	<0.44	<0.39	NT	NT
October 7, 2006	<0.25	<0.22	<0.23	<0.11	<0.44	<0.39	NT	NT
MW-11								
May 26, 2004	<0.50	<5.0	*58.4*	<5.0	<10.0	<5.0	<8	NT
July 27, 2004	<0.50	<5.0	**400**	<5.0	<10.0	<5.0	NT	NT
April4,2007	<1.0	<0.88	**410**	<0.44	<1.76	<1.6	NT	NT
September 11, 2007	<0.25	<0.22	**130**	<0.11	<0.44	<0.39	NT	NT
MW-12								
May 17, 2004	**210**	8.54	**1490**	<5.0	<10.0	17	<8.0	9.35
July 27, 2004	**130**	<250	**5100**	<250	<500	<250	NT	NT
April 4,2007	**40**	<8.8	**2700**	<0.44	<1.76	<16	NT	NT
Septmber 11, 2007	**14**	<8.8	**2500**	<4.4	<17.6	<16	NT	NT
NR 140 ES	**5**	**700**	**60**	**1,000**	**480**	**620**	**40**	**15**
NR 140 PAL	*0.5*	*140*	*12*	*200*	*96*	*124*	*8*	*1.5*

Note: PAL denotes Preventive Action Limit as per NR.140

ES denotes Enforcement Standard as per NR. 140

+ PAL for lead (not mentioned whether total or dissolved) is 5 ppb as per NR 140

++ ES for lead (not mentioned whether total or dissolved)

* denotes no established standard

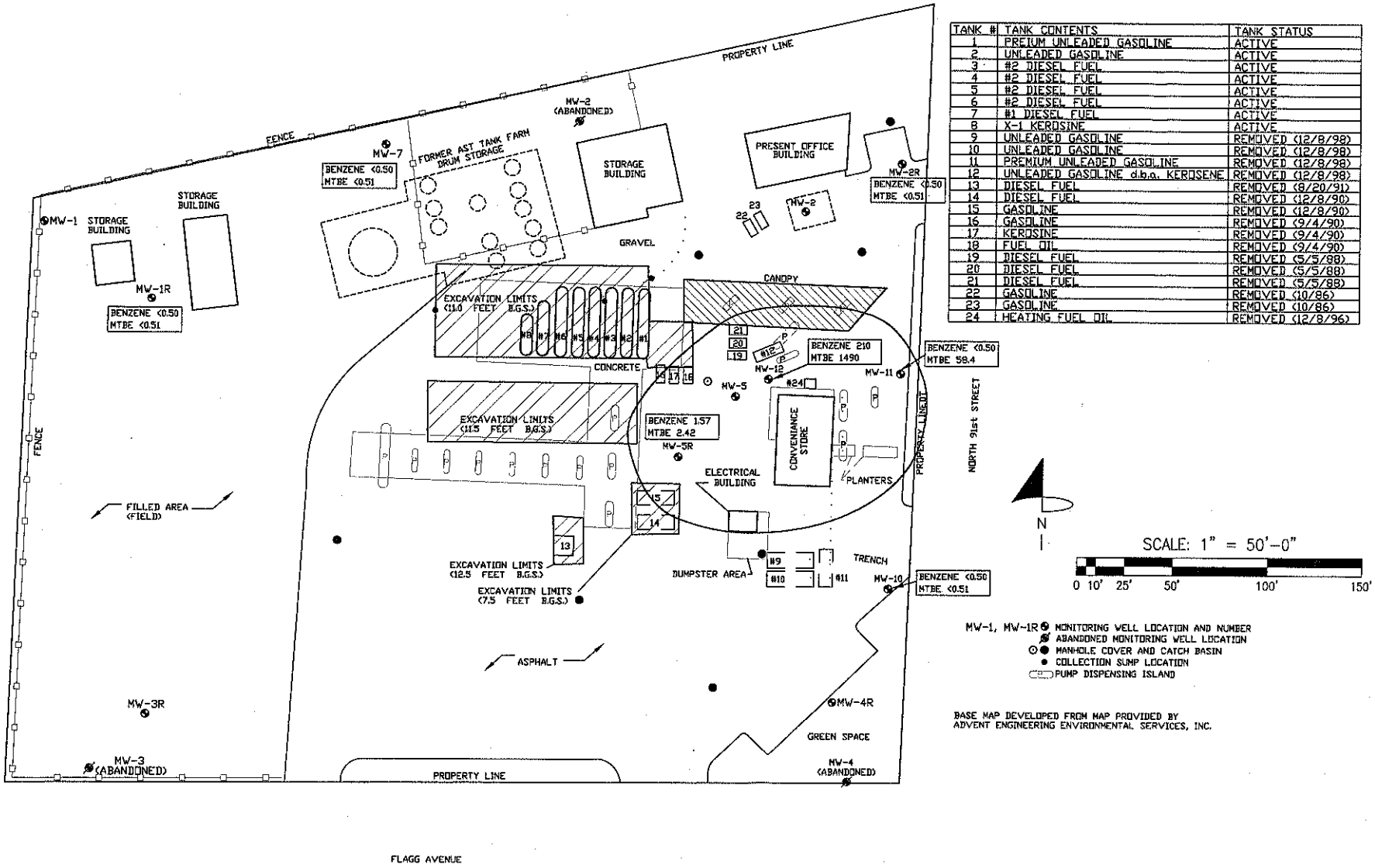
Bold shows above ES and Italic shows above PAL

AS OF JULY 2003

TABLE 5
MOST RECENT ANALYTICAL RESULTS - GROUNDWATER
KAUL OIL COMPANY - 91ST & FLAGG SITE
5931 NORTH 91ST STREET, MILWAUKEE, WISCONSIN

Sample I.D.	WDNR NR 140		MW-1	MW-1R	MW-2R[2]	MW-3R[2]	MW-4R[2]	MW-5R[2]	MW-6	MW-7	TW-1
Sample Date			04/12/01	04/12/01	09/12/00	09/12/00	09/12/00	09/12/00	04/12/02	04/12/01	04/12/01
Parameter	*ES*	*PAL*									
GROs (ppb)	*NL*	*NL*	NA	NA	<15	<15	<15	<15	NA	NA	NA
DROs (ppb)	*NL*	*NL*	NA	NA	69	78	89	93	NA	NA	NA
VOCs (ppb)[1]											
Benzene	*5.0*	*0.5*	<0.34	<0.34	<0.51	<0.51	<0.51	<0.51	<0.34	<0.34	**540**
1,1-Dichloroethane	*850*	*85*	<0.29	5.9	NA	NA	NA	NA	<0.29	<0.29	<290
cis-1,2-Dichloroethene	*70*	*7.0*	<0.30	1.0	NA	NA	NA	NA	<0.30	<0.30	<300
Ethylbenzene	*700*	*140*	<0.36	<0.36	<0.51	<0.51	<0.51	<0.51	<0.36	<0.36	<360
Isopropylbenzene	*NL*	*NL*	<0.21	<0.21	NA	NA	NA	NA	0.58	<0.21	<210
Methyl-tert-butyl-ether	*60*	*12*	<0.27	0.37	<1.0	<1.0	<1.0	<1.0	0.61	<0.27	**15,000**
Tetrachloroethene	*5.0*	*0.50*	<0.38	**0.72**	NA	NA	NA	NA	<0.38	<0.38	<380
Toluene	*1,000*	*200*	<0.43	<0.43	<0.51	<0.51	<0.51	<0.51	<0.43	<0.43	<430
1,1,1-Trichloroethane	*200*	*40*	<0.27	2.6	NA	NA	NA	NA	<0.27	<0.27	<270
1,2,4-Trimethylbenzene	*480*	*96*	<0.27	<0.27	<0.52	<0.52	<0.52	<0.52	<0.27	<0.27	<270
1,3,5-Trimethylbenzene			<0.17	<0.17	<0.54	<0.54	<0.54	<0.54	<0.17	<0.17	<170
Total Xylenes	*10,000*	*1,000*	<1.29	<1.29	<1.2	<1.2	<1.2	<1.2	<1.29	<1.29	<1,290
PAHs (ppb)[1]											
Acenaphthene	*NL*	*NL*	NA	NA	<0.026	<0.026	0.11	<0.026	NA	NA	NA
Anthracene	*3000*	*600*	NA	NA	<0.023	<0.023	0.07	<0.023	NA	NA	NA
Fluoranthene	*400*	*80*	NA	NA	<0.034	0.035	0.042	<0.034	NA	NA	NA
Fluorene	*400*	*80*	NA	NA	<0.031	<0.031	0.051	<0.031	NA	NA	NA
Methyl-2-Naphthalene	*NL*	*NL*	NA	NA	<0.066	<0.066	0.091	<0.066	NA	NA	NA
Napthalene	*40*	*8.0*	NA	NA	<0.034	<0.034	0.046	<0.034	NA	NA	NA
Pyrene	*250*	*50.0*	NA	NA	<0.025	<0.025	0.060	<0.025	NA	NA	NA

[1] Only the detected VOCs and PAHs are listed.
[2] The laboratory reported the DRO extraction blank had a value of 80 ppb. Therefore, DRO results for this event are biased high.
ES = Enforcement Standard
PAL = Preventive Action Limit
NL = No established limit or standard
NA = Not analyzed
Bold type indicates detectable concentrations or diluted laboratory detection limits exceed the PAL.
Underlined type indicates detectable concentrations or diluted laboratory detection limits exceed the ES.



TANK #	TANK CONTENTS	TANK STATUS
1	PREIUM UNLEADED GASOLINE	ACTIVE
2	UNLEADED GASOLINE	ACTIVE
3	#2 DIESEL FUEL	ACTIVE
4	#2 DIESEL FUEL	ACTIVE
5	#2 DIESEL FUEL	ACTIVE
6	#2 DIESEL FUEL	ACTIVE
7	#1 DIESEL FUEL	ACTIVE
8	X-1 KEROSINE	ACTIVE
9	UNLEADED GASOLINE	REMOVED (12/8/98)
10	UNLEADED GASOLINE	REMOVED (12/8/98)
11	PREMIUM UNLEADED GASOLINE	REMOVED (12/8/98)
12	UNLEADED GASOLINE d.b.a. KEROSENE	REMOVED (12/8/98)
13	DIESEL FUEL	REMOVED (8/20/91)
14	DIESEL FUEL	REMOVED (12/8/90)
15	GASOLINE	REMOVED (12/8/90)
16	GASOLINE	REMOVED (9/4/90)
17	KEROSINE	REMOVED (9/4/90)
18	FUEL OIL	REMOVED (9/4/90)
19	DIESEL FUEL	REMOVED (5/5/88)
20	DIESEL FUEL	REMOVED (5/5/88)
21	DIESEL FUEL	REMOVED (5/5/88)
22	GASOLINE	REMOVED (10/86)
23	GASOLINE	REMOVED (10/86)
24	HEATING FUEL OIL	REMOVED (12/8/96)

MW-1, MW-1R — MONITORING WELL LOCATION AND NUMBER
ABANDONED MONITORING WELL LOCATION
MANHOLE COVER AND CATCH BASIN
COLLECTION SUMP LOCATION
PUMP DISPENSING ISLAND

BASE MAP DEVELOPED FROM MAP PROVIDED BY ADVENT ENGINEERING ENVIRONMENTAL SERVICES, INC.

DRAWN BY: PAR
CHECKED BY: N.W.
DATE: 11/07/07
PROJECT NO: 4580
DRAWING FILE: 4580 EXHIBIT A

ENGINEER
K. Singh & Associates, Inc.
ENGINEERS, ARCHITECTS & ENVIRONMENTAL CONSULTANTS
1135 Legion Drive, Elm Grove, Wisconsin 53122
Phone: (262) 821-1171 FAX: (262) 821-1174
E-mail: singh@ksaepc.com

TITLE: AREA OF GROUNDWATER IMPACT W/RESPECT TO BENZENE & MTBE (BASED ON MAY 17 & MAY 26, 2004 GROUNDWATER QUALITY TEST RESULTS)

ADDRESS: KAUL-91st AND FLAGG STREET MILWAUKEE, WISCONSIN

Sheet No. 1 of 1

SOIL

Table 1: Summary of Soil Quality Test Results, Remedial Investigation (Pr.# 4580)
Kaul Oil Company, Inc., 5931 North 91st Street, Milwaukee WI.

Date	Boring & Sample	Sample Depth	PID Reading	% Solids	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2,4-Trimethylbenzene	1,3,5-trimethylbenzene	Methyl tert-butyl ether	Naphthalene	Lead
		ft. bgs	I.U.	%	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
5/11/2004	MW-10	3-4	BK	84.7	<25	<25	<25	<25	<25	<25	<25	97	7.83
5/11/2004	MW-10	5.5-7.5	BK	85.6	<25	26	<25	<25	<25	<25	<25	<25	10.10
5/11/2004	MW-11	3-4	BK	85.8	*44*	43	<25	<25	<25	<25	105	49	8.02
5/11/2004	MW-11	5.5-7.5	BK	84.8	*45*	69	<25	<25	<25	<25	167	<25	8.68
5/11/2004	MW-12	3-4		77.0	*698*	2,460	784	*6,310*	9,190	4,730	1,250	14,000	23.80
5/11/2004	MW-12	5.5-7.5		70.3	**5,220**	***3,800***	*5,590*	*26,800*	18,000	7,680	980	45,100	16.90
5/11/2004	MW-12	10.5-12.5		78.8	*58*	129	<25	77	88	31	822	203	9.71
NR 720.09 RCLs					5.5	2,900	1,500	4,100	----	----	----		50
NR 746.06 Table 1 (free product indicator)					8,500	4,600	38,000	42,000	83,000	11,000	----		----
NR 746.06 Table 2 (direct contact standard)					1,100	----	----	----	----	----	----		----

Note: I.U. = Photo Ioniziation Detector Instrument Units (Parts per million, calibrated as isobutylene)
BK = Background Concentration; NT = not tested; Italic = Above NR 720.09 RCLs.
Bold = Above Table 2 Value Bold & Italic = Above Table 1 Value

K. SINGH & ASSOCIATES, INC.
Engineers, Scientists and Environmental Management Consultants

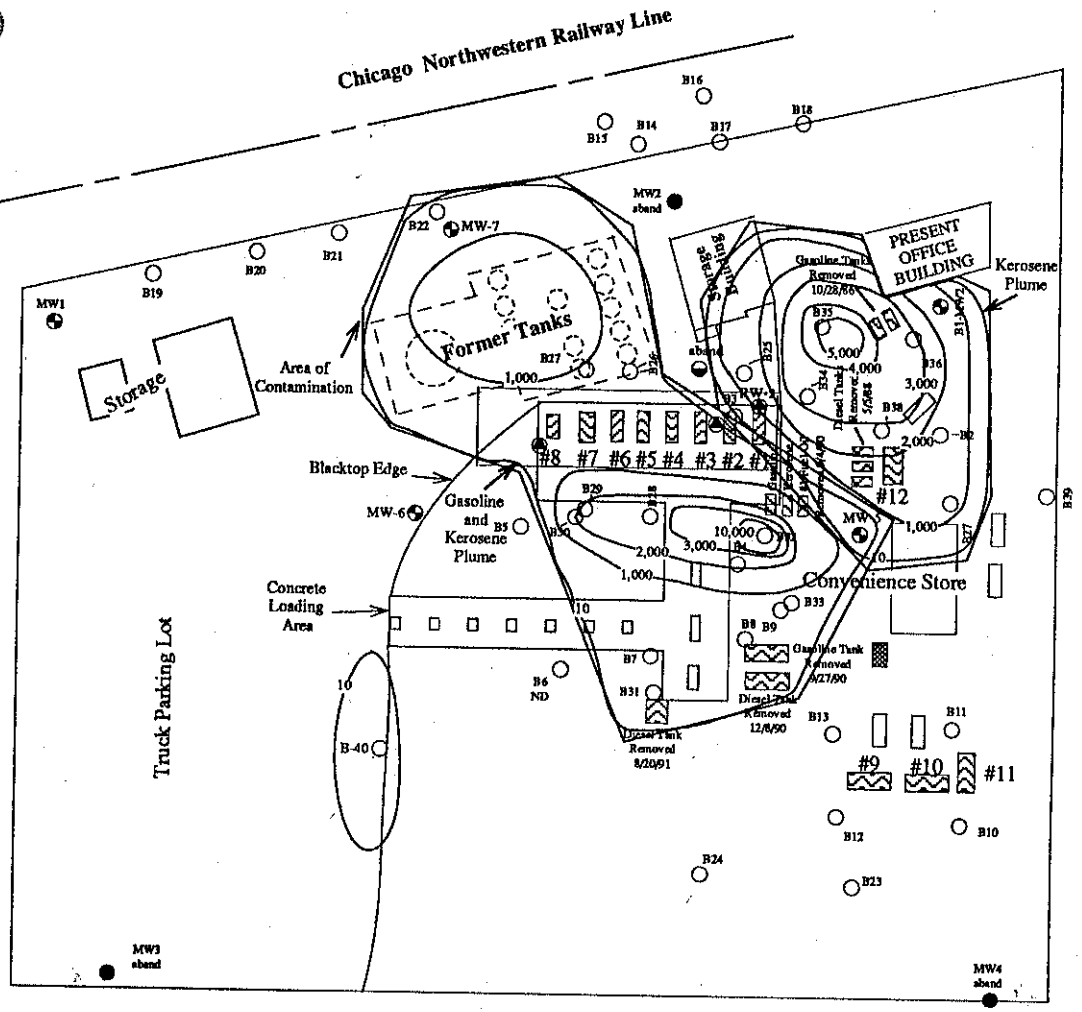
Soil

Table 1

Summary of Soil Quality Test Results

Boring No.	Sample Depth (feet)	Test Parameters: BETX Benzene (ppm)	Ethyl-Benzene (ppm)	Toluene (ppm)	Xylene (ppm)	BETX (ppm)	GRO (ppm)	DRO (ppm)	Lead (ppm)
MW-5	*3.5-5*	*2.6*	*2.5*	*2.0*	*14*	*21.1*	*730*	*630*	*< 7*
MW-6	11-12.5	< 0.27	< 0.05	< 0.19	< 0.11	< 0.27	< 10	< 1	< 7
MW-7	3.5-5	< 0.27	3.5	1.1	4.0	8.6	860	160	18
B-40	3.5-5	< 0.27	0.31	< 0.19	0.20	0.51	420	37	7

SOIL-TPH



Note: #1 - Premium unleaded tank
#2 - Unleaded gasoline
#3 - #2 diesel fuel tank
#4 - #2 diesel fuel tank
#5 - #2 diesel fuel tank
#6 - #2 diesel fuel tank
#7 - #1 diesel fuel tank
#8 - K-1 kerosene tank
#9 - mid-grade tank
#10 - Unleaded gasoline tank
#11 - Premium unleaded tank
#12 - Underground K-1 kerosene tank

LEGEND
Monitoring Well
Storage Tank
Recovery Sump
—10— TPH Contamination (ppm)

OWNER	ENGINEER
Kaul Oil Company 5931 North 91st Street Milwaukee, Wisconsin 53225	K. SINGH & ASSOCIATES, INC., ENGINEERS & ENVIRONMENTAL MANAGEMENT CONSULTANTS 1135 Legion Drive, Elm Grove, Wisconsin 53122, (414) 821-1171

FIGURE 3. Soil Contamination Contour Maps

DATE	DRAWN BY	REVISIONS BY	DATE	PROJECT NO.
February 10, 1992	D.N.S.			2099
SCALE 0' 40' 80'	CHECKED BY	K. S.	02/10//92	SHEET NO.
	P.N.S.	K. S.	02/10/92	ONE

TABLE 1 (page 1 of 5)
SITE INVESTIGATION ANALYTICAL RESULTS - SOIL
KAUL OIL COMPANY - 91ST & FLAGG SITE
5931 NORTH 91ST STREET, MILWAUKEE, WISCONSIN

SOIL

	NR 720 Generic Residual Contaminant Level	Sample IDs											
		B-1A	B-1B	B-2A	B-3A	B-4A	B-4B	B-5A	B-5B	B-6A	B-7A	B-8A	B-9A
Boring No.		KB-1	KB-1	KB-2	KB-3	KB-4	KB-4	KB-5	KB-5	KB-6	KB-7	KB-8	KB-9
Depth (feet)		5-7	7-9	5-7	3-5	1-3	9-11	1-3	7-9	5-7	11-13	7-9	9-11
PID (I.U.)		250	7	0	<1	35	0	30	0	0	0	<1	<1
Parameter													
GROs (ppm)	*100*	**200**	<1.2	<1.2	3.6	64	2.2	66	1.4	17	NA	NA	NA
DROs (ppm)	*100*	100	<5.9	<6.0	<6.4	<5.7	<5.8	<5.4	<6.0	<5.7	<5.7	<5.8	<5.8
Total Lead (ppm)	*50*	16	9.7	10	24	26	9.2	**63**	12	10	NA	NA	NA
VOCs (ppb)[1]													
Benzene	*5.5*	**1,400**	<25[2]	<25[2]	<25[2]	**930**	**64**	**560**	<25[2]	<25[2]	<2.3	<2.3	4.8
n-Butylbenzene	*NL*	3,300	<25	<25	<25	480	<25	680	<25	<25	NA	NA	NA
sec-Butylbenzene	*NL*	240	<25	<25	<25	46	<25	<50	<25	<25	NA	NA	NA
Ethylbenzene	*2,900*	**3,200**	<25	<25	<25	69	<25	490	<25	<25	<5.8	<5.8	<5.8
Isopropylbenzene	*NL*	400	<25	<25	<25	97	<25	160	<25	<25	NA	NA	NA
p-Isopropyltoluene	*NL*	ND	<25	<25	<25	<25	<25	<50	<25	<25	NA	NA	NA
Naphthalene	*400*	**1,400**	<25	<25	<25	130	<25	280	<25	58	NA	NA	NA
n-Propylbenzene	*NL*	1,400	<25	<25	<25	390	<25	610	<25	<25	NA	NA	NA
Toluene	*1,500*	210	<25	<25	<25	<25	<25	180	<25	<25	28	23	29
1,2,4-Trimethylbenzene	*NL*	11,000	<25	<25	<25	140	<25	430	<25	<25	<12	<12	<12
1,3,5-Trimethylbenzene	*NL*	2,100	<25	<25	<25	69	<25	390	<25	<25	<12	<12	<12
Total Xylenes	*4,100*	**7,100**	39	<25	<25	310	<25	750	<25	<25	<17	<17	<17

I.U. = instrument units

NL = no established limit

NA = not analyzed

Bold type and shaded areas indicate concentrations that exceed the NR 720 Generic Residual Contaminant Level.

[1] Only VOCs detected are listed. For a complete list of the compounds analyzed and laboratory detection limits, see copies of attached laboratory reports.

[2] Elevated detection limit due to methanol preservation.

TABLE 1 (page 2 of 5)
SITE INVESTIGATION ANALYTICAL RESULTS - SOIL
KAUL OIL COMPANY - 91ST & FLAGG SITE
5931 NORTH 91ST STREET, MILWAUKEE, WISCONSIN

SOIL

	NR 720 Generic Residual Contaminant Level	Sample IDs											
		B-10A	B-11A	B-12A	B-13A	B-14A	B-14B	B-15A	B-15B	B-16A	B-16B	B-17A	B-17B
Boring No.		KB-10	KB-11	KB-12	KB-13	KB-14	KB-14	KB-15	KB-15	KB-16	KB-16	KB-17	KB-17
Depth (feet)		11-13	1-3	3-5	5-7	1-3	5-7	3-5	7-9	3-5	11-13	7-9	13-15
PID (I.U.)		0	12	0	0	8	0	195	<1	175	<1	120	0
Parameter													
GROs (ppm)	*100*	NA	4.6	<1.2	<1.2	**520**	<1.1	**330**	<1.2	**910**	3.2	**680**	3.1
DROs (ppm)	*100*	<5.7	<6.1	<5.7	<6.0	75	<5.4	<5.8	<5.7	**1,200**	<5.7	**110**	<5.7
Total Lead (ppm)	*50*	NA	19	7.8	12	27	49	10	9.8	20	8.2	9.1	8.2
VOCs (ppb)[1]													
Benzene	*5.5*	<2.3	<25[2]	<25[2]	<25[2]	<25[2]	<25[2]	<25[2]	<25[2]	**1,800**	<25[2]	**140**	<25[2]
n-Butylbenzene	*NL*	NA	<25	<25	<25	350	<25	51	<25	5,300	<25	560	<25
sec-Butylbenzene	*NL*	NA	<25	<25	<25	160	<25	<25	<25	2,800	<25	280	<25
tert-Butylbenzene	*NL*	NA	<25	<25	<25	100	<25	<25	<25	3,600	<25	1,100	<25
Ethylbenzene	*2,900*	<5.8	<25	<25	<25	80	<25	31	<25	**7,800**	<25	1,300	<25
Isopropylbenzene	*NL*	NA	<25	<25	<25	43	<25	56	<25	2,400	<25	400	<25
p-Isopropyltoluene	*NL*	NA	<25	<25	<25	50	<25	<25	<25	3,800	<25	530	<25
Naphthalene	*400*	NA	<25	<25	<25	**690**	<25	<25	<25	**1,300**	<25	**760**	<25
n-Propylbenzene	*NL*	NA	<25	<25	<25	140	<25	57	<25	8,400	<25	1,100	<25
Toluene	*1,500*	<5.8	<25	<25	<25	<25	<25	<25	<25	**2,200**	<25	310	<25
1,2,4-Trimethylbenzene	*NL*	<12	<25	<25	<25	180	<25	<25	<25	36,000	<25	400	<25
1,3,5-Trimethylbenzene	*NL*	<12	<25	<25	<25	220	<25	<25	<25	5,000	<25	790	<25
Total Xylenes	*4,100*	<17	<25	<25	<25	57	<25	<25	<25	**4,300**	<25	110	<25

I.U. = instrument units

NL = no established limit

NA = not analyzed

Bold type and shaded areas indicate concentrations that exceed the NR 720 Generic Residual Contaminant Level.

[1] Only VOCs detected are listed. For a complete list of the compounds analyzed and laboratory detection limits, see copies of attached laboratory reports.

[2] Elevated detection limit due to methanol preservation.

TABLE 1 (page 3 of 5)
SITE INVESTIGATION ANALYTICAL RESULTS - SOIL
KAUL OIL COMPANY - 91ST & FLAGG SITE
5931 NORTH 91ST STREET, MILWAUKEE, WISCONSIN

SOIL

	NR 720 Generic Residual Contaminant Level	Sample IDs							
		B-18A	B-18B	B-19A	B-20A	B-21A	B-21B	B-22A	B-22B
Boring No.		KB-18	KB-18	KB-19	KB-20	KB-21	KB-21	KB-22	KB-22
Depth (feet)		1-3	7-9	5-7	5-7	5-7	9-11	3-5	7-9
PID (I.U.)		9	0	30	40	85	0	17	0
Parameter									
GROs (ppm)	*100*	25	2.6	**170**	80	**260**	<1.2	13	2.0
DROs (ppm)	*100*	20	<5.9	**200**	<5.9	45	<5.8	<5.4	<5.8
Total Lead (ppm)	*50*	6.2	9.3	13	11	9.3	11	9.5	12
VOCs (ppb)[1]									
Benzene	*5.5*	<25[2]	<25[2]	**31**	<25[2]	<25[2]	<25[2]	<25[2]	<25[2]
n-Butylbenzene	*NL*	260	<25	450	690	560	<25	110	<25
sec-Butylbenzene	*NL*	<25	<25	54	130	170	<25	220	<25
tert-Butylbenzene	*NL*	270	<25	430	420	460	<25	220	<25
Ethylbenzene	*2,900*	230	<25	220	890	380	<25	250	<25
Isopropylbenzene	*NL*	73	<25	210	260	100	<25	80	<25
p-Isopropyltoluene	*NL*	130	<25	96	110	150	<25	45	<25
Naphthalene	*400*	210	47	**710**	240	230	<25	<25	<25
n-Propylbenzene	*NL*	190	<25	170	1,100	550	<25	63	<25
Toluene	*1,500*	<25	<25	34	99	43	<25	<25	<25
1,2,4-Trimethylbenzene	*NL*	96	<25	100	140	750	<25	<25	<25
1,3,5-Trimethylbenzene	*NL*	280	<25	450	680	570	<25	49	<25
Total Xylenes	*4,100*	87	<25	61	<25	68	<25	<25	<25

I.U. = instrument units

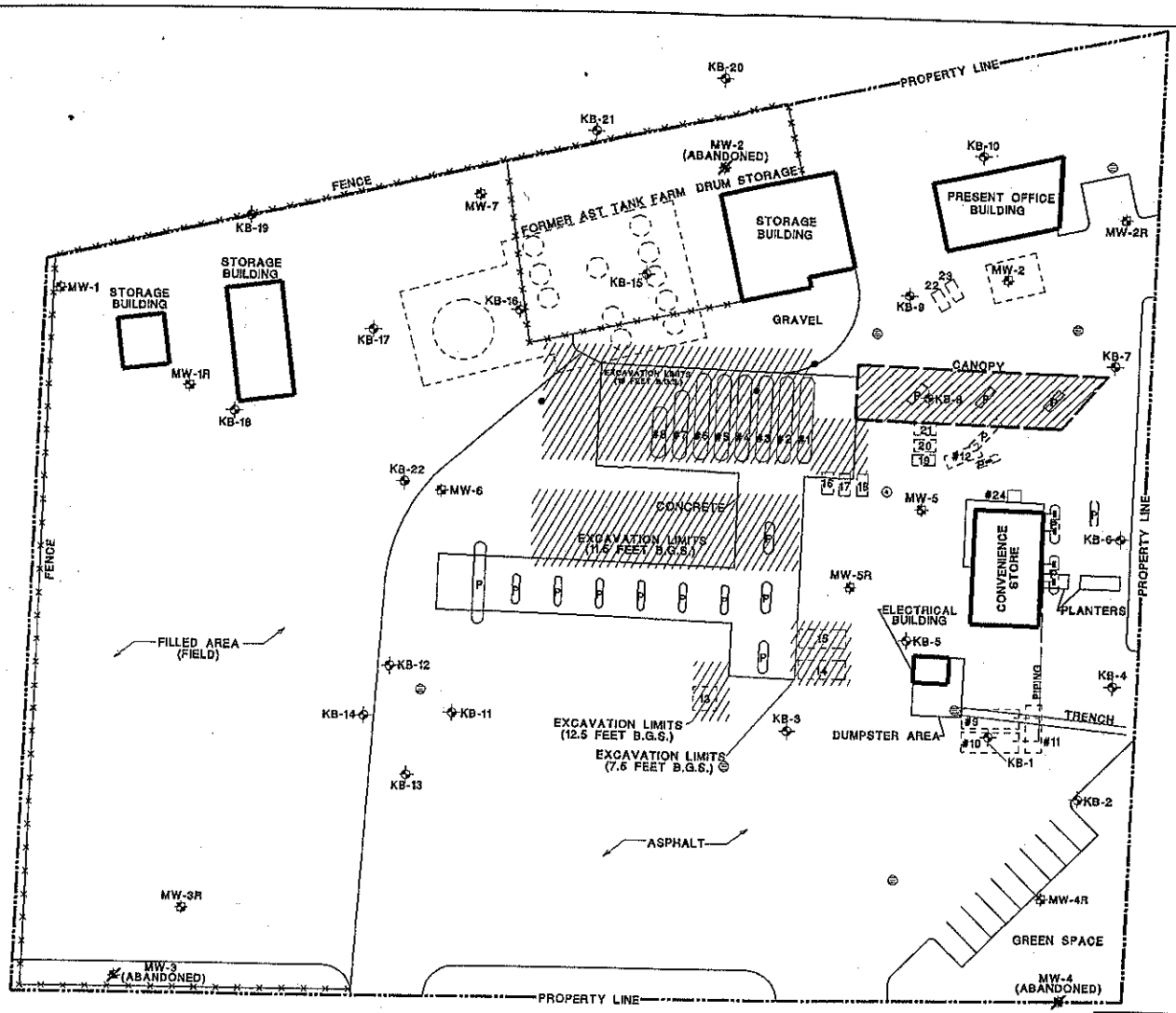
NL = no established limit

NA = not analyzed

Bold type and shaded areas indicate concentrations that exceed the NR 720 Generic Residual Contaminant Level.

[1] Only VOCs detected are listed. For a complete list of the compounds analyzed and laboratory detection limits, see copies of attached laboratory reports.

[2] Elevated detection limit due to methanol preservation.



TANK #	TANK CONTENTS	TANK STATUS
1	PREMIUM UNLEADED GASOLINE	ACTIVE
2	UNLEADED GASOLINE	ACTIVE
3	#2 DIESEL FUEL	ACTIVE
4	#2 DIESEL FUEL	ACTIVE
5	#2 DIESEL FUEL	ACTIVE
6	#2 DIESEL FUEL	ACTIVE
7	#1 DIESEL FUEL	ACTIVE
8	K-1 KEROSINE	ACTIVE
9	UNLEADED GASOLINE	REMOVED (12/8/96)
10	UNLEADED GASOLINE	REMOVED (12/8/95)
11	PREMIUM UNLEADED GASOLINE	REMOVED (12/8/95)
12	UNLEADED GASOLINE d.b.a. KEROSENE	REMOVED (12/8/95)
13	DIESEL FUEL	REMOVED (8/20/91)
14	DIESEL FUEL	REMOVED (12/8/95)
15	GASOLINE	REMOVED (12/8/90)
16	GASOLINE	REMOVED (9/4/90)
17	KEROSINE	REMOVED (9/4/90)
18	FUEL OIL	REMOVED (9/4/90)
19	DIESEL FUEL	REMOVED (5/5/88)
20	DIESEL FUEL	REMOVED (5/5/88)
21	DIESEL FUEL	REMOVED (5/5/88)
22	GASOLINE	REMOVED (10/86)
23	GASOLINE	REMOVED (10/86)
24	HEATING FUEL OIL	REMOVED (12/8/95)

LEGEND:

- KB-1 — SOIL BORING LOCATION AND NUMBER
- MW-1, MW-1R — MONITORING WELL LOCATION AND NUMBER
- ABANDONED MONITORING WELL LOCATION
- MANHOLE COVER AND CATCH BASIN
- COLLECTION SUMP LOCATION
- PUMP DISPENSING ISLAND

NOTE:

BASE MAP DEVELOPED FROM SHEET NUMBER A-1, NEW SITE PLAN DATED 4/19/99, PROVIDED BY BMR DESIGN GROUP INCORPORATED.

SCALE (FEET): 0 — 50

DRAWN BY: KRK	FIGURE #2 DETAIL SHEET
APPROVED BY:	SITE FEATURES, SOIL BORING, AND MONITORING WELL LOCATIONS
DATE: 1/19/00	KAUL-91st AND FLAGG STREET MILWAUKEE, WISCONSIN
PROJECT #97373.02J	ADVENT
REVISION #	ENVIRONMENTAL SERVICES, INC.

SOIL

TABLE 1 (page 4 of 5)
SITE INVESTIGATION ANALYTICAL RESULTS - SPLP SOIL
KAUL OIL COMPANY - 91ST & FLAGG SITE
5931 NORTH 91ST STREET, MILWAUKEE, WISCONSIN

	NR 720 Generic Residual Contaminant Level		Sample IDs								
			KO-1A	KO-1B	KO-1C	KO-2A	KO-2B	KO-3A	KO-3B	KO-4A	KO-4B
Boring No.			KO-1	KO-1	KO-1	KO-2	KO-2	KO-3	KO-3	KO-4	KO-4
Depth (feet)			5-7	7-9	9-11	5-7	7-9	7-9	9-11	5-7	7-9
PID (I.U.)			0	0	0	80	5	32	12	50	15
VOCs (ppb)[1]											
Benzene	*5.5*		<48[2]	<6.0[2]	<6.0[2]	<120[2]	<6.0[2]	<6.0[2]	<6.0[2]	<24[2]	<6.0[2]
n-Butylbenzene	*NL*		560	<6.4	<6.4	4,800	<6.4	<6.4	<6.4	1,100	<6.4
sec-Butylbenzene	*NL*		2,100	<13	<13	6,500	<13	<13	<13	2,900	<13
tert-Butylbenzene	*NL*		1,100	<5.2	<5.2	2,300	<5.2	7.4	<5.2	2,200	<5.2
Ethylbenzene	*2,900*		<50	<6.3	<6.3	670	<6.3	<6.3	<6.3	210	<6.3
Isopropylbenzene	*NL*		2,200	<5.8	<5.8	6,700	<5.8	<5.8	19	3,100	<5.8
Isopropylether	*NL*		<70	<8.8	<8.8	<180	640	<8.8	<8.8	<35	<8.8
p-Isopropyltoluene	*NL*		960	<7.8	<7.8	3,000	<7.8	<7.8	<7.8	2,000	<7.8
Naphthalene	*400*		**1,900**	<16	<16	**7,700**	<16	<16	<16	**2,600**	<16
n-Propylbenzene	*NL*		410	<5.6	<5.6	1,700	<5.6	<5.6	<5.6	470	<5.6
Styrene	*NL*		<110	<14	<14	420	<14	<14	<14	<55	<14
Toluene	*1,500*		<43	<5.4	<5.4	<110	<5.4	<5.4	<5.4	<21	<5.4
1,2,4-Trimethylbenzene	*NL*		<47	<5.8	<5.8	4,200	<5.8	5.8	<5.8	80	<5.8
1,3,5-Trimethylbenzene	*NL*		680	<7.8	<7.8	5,600	<7.8	<7.8	9.3	1,600	<7.8
Total Xylenes	*4,100*		<120	<15	<15	600	<15	<15	<15	274	<15
	WDNR NR 140										
SPLP VOCs (ppb)[1]	*ES*	*PAL*									
Benzene	*5.0*	*0.5*	<0.4	<0.20	<0.20	<2.0[2]	<0.50	<0.20	<0.20	<0.20	<0.20
n-Butylbenzene	*NL*	*NL*	5.3	0.97	<0.13	53	<0.33	0.87	<0.13	10	2.2
sec-Butylbenzene	*NL*	*NL*	5.3	<0.15	<0.15	9.3	<0.38	<0.15	<0.15	3.4	<0.15
tert-Butylbenzene	*NL*	*NL*	1.3	<0.24	<0.24	<2.4	<0.60	<0.24	<0.24	0.85	<0.24
Ethylbenzene	*700*	*140*	1.6	<0.22	<0.22	<2.2	<0.55	<0.22	<0.22	0.55	<0.22
Isopropylbenzene	*NL*	*NL*	4.1	<0.22	<0.22	8.6	<0.55	0.45	<0.22	3.4	<0.22
Isopropylether	*NL*	*NL*	<0.34	<0.17	<0.17	10	12	<0.17	<0.17	<0.17	<0.17
p-Isopropyltoluene	*NL*	*NL*	<0.40	<0.20	<0.20	11	<0.50	<0.20	<0.20	<0.20	1.6
Naphthalene	*40*	*8.0*	7.5	1.6	<0.16	**150**	0.99	0.58	<0.16	7.4	2.2
n-Propylbenzene	*NL*	*NL*	5.8	<0.22	<0.22	13	<0.55	<0.22	<0.22	4.4	<0.22
Styrene	*100*	*10*	<0.67	<0.34	<0.34	<3.4	<0.84	<0.34	<0.34	0.67	<0.34
Toluene	*343*	*68.6*	<0.39	<0.20	0.39	<2.0	<0.49	<0.20	<0.20	0.75	<0.20
1,2,4-Trimethylbenzene	*480*	*96*	<0.38	0.88	<0.19	44	<0.48	0.63	<0.19	<0.19	0.35
1,3,5-Trimethylbenzene			<0.40	0.60	<0.20	31	<0.50	<0.20	<0.20	<0.20	<0.20
Total Xylenes	*620*	*124*	<0.84	<0.42	<0.42	14	<1.0	0.46	<0.42	2.37	0.53

I.U. = instrument units
NL = no established limit
NA = not analyzed
ES = Enforcement Standard
PAL = Preventive Action Limit
Bold type and shaded areas indicate concentrations exceed the NR 720 Generic Residual Contaminant Level > Comm 46 Tab. 1
Bold type indicates concentrations that exceed the NR 140 PAL.
Shaded areas indicate concentrations that exceed the NR 140 ES.
[1] Only VOCs detected are listed. For a complete list of the compounds analyzed and laboratory detection limits, see copies of attached laboratory reports.
[2] Elevated detection limit due to methanol preservation or elevated contaminant concentrations.

SOIL

TABLE 1 (page 5 of 5)
SITE INVESTIGATION ANALYTICAL RESULTS - SPLP SOIL
KAUL OIL COMPANY - 91ST & FLAGG SITE
5931 NORTH 91ST STREET, MILWAUKEE, WISCONSIN

	NR 720 Generic Residual Contaminant Level		Sample IDs								
			KO-5A	KO-6A	KO-7A	KO-8A	KO-9A	KO-10A	KO-10B	KO-11A	KO-11B
Boring No.			KO-5	KO-6	KO-7	KO-8	KO-9	KO-10	KO-10	KO-11	KO-11
Depth (feet)			5-7	5-7	3-5	3-5	7-9	3-5	7-9	3-5	7-9
PID (I.U.)			7	120	120	150	2	150	0	160	0
VOCs (ppb)[1]											
Benzene	5.5		<6.0[2]	<6.0[2]	**65**	<48[2]	<6.0[2]	**2,900**	**120**	**6,300**	<6.0[2]
n-Butylbenzene	NL		<6.4	<6.4	3,300	1,800	<6.4	3,400	84	3,600	58
sec-Butylbenzene	NL		84	<13	790	4,100	<13	11,000	140	18,000	130
tert-Butylbenzene	NL		42	<5.2	4,300	750	<5.2	1,900	65	3,200	28
Ethylbenzene	2,900		<6.3	<6.3	1,100	510	<6.3	**4,800**	43	**4,900**	12
Isopropylbenzene	NL		71	<5.8	9,700	4,200	<5.8	16,000	200	19,000	150
Isopropylether	NL		<8.8	<8.8	<88	<70	<8.8	<110	<180	640	17
p-Isopropyltoluene	NL		100	<7.8	5,400	3,800	<7.8	5,200	86	8,000	64
Naphthalene	400		25	<16	4,000	2,600	<16	**6,400**	62	**8,500**	64
n-Propylbenzene	NL		39	<5.6	1,700	1,100	<5.6	3,600	74	2,200	44
Styrene	NL		<14	<14	150	<110	<14	510	<14	480	<14
Toluene	1,500		<5.4	<5.4	520	120	<5.4	**3,400**	17	3,200	<5.4
1,2,4-Trimethylbenzene	NL		9.8	<5.8	1,000	320	<5.8	920	73	1,400	5.8
1,3,5-Trimethylbenzene	NL		21	<7.8	5,000	630	<7.8	3,300	<7.8	4,900	<7.8
Methyl-tert-butyl-ether	NL		<12	<12	<120	<96	<12	<150	<12	<240	26
Total Xylenes	4,100		26	<15	1,480	2,610	<15	3,390	11	2,740	<15
	WDNR NR 140										
SPLP VOCs (ppb)[1]	ES	PAL									
Benzene	5.0	0.5	NA	<0.20	NA	NA	NA	NA	<0.20	NA	0.23
n-Butylbenzene	NL	NL	NA	<0.13	NA	NA	NA	NA	2.1	NA	0.61
sec-Butylbenzene	NL	NL	NA	<0.15	NA	NA	NA	NA	<0.15	NA	<0.15
tert-Butylbenzene	NL	NL	NA	<0.24	NA	NA	NA	NA	<0.24	NA	<0.24
Ethylbenzene	700	140	NA	<0.22	NA	NA	NA	NA	<0.22	NA	<0.22
Isopropylbenzene	NL	NL	NA	<0.22	NA	NA	NA	NA	<0.22	NA	<0.22
Isopropylether	NL	NL	NA	<0.17	NA	NA	NA	NA	0.89	NA	1.1
p-Isopropyltoluene	NL	NL	NA	<0.20	NA	NA	NA	NA	<0.20	NA	<0.20
Naphthalene	40	8.0	NA	0.44	NA	NA	NA	NA	<0.16	NA	0.58
n-Propylbenzene	NL	NL	NA	<0.22	NA	NA	NA	NA	<0.22	NA	<0.22
Styrene	100	10	NA	<0.34	NA	NA	NA	NA	0.63	NA	<0.34
Toluene	343	68.6	NA	0.38	NA	NA	NA	NA	0.48	NA	<0.20
1,2,4-Trimethylbenzene	480	96	NA	<0.19	NA	NA	NA	NA	<0.19	NA	<0.19
1,3,5-Trimethylbenzene			NA	<0.20	NA	NA	NA	NA	<0.20	NA	<0.20
Methyl-tert-butyl-ether	60	12	NA	<0.61	NA	NA	NA	NA	<0.61	NA	1.0
Total Xylenes	620	124	NA	<0.42	NA	NA	NA	NA	0.63	NA	<0.42

I.U. = Instrument units

NL = no established limit

NA = not analyzed

ES = Enforcement Standard

PAL = Preventive Action Limit

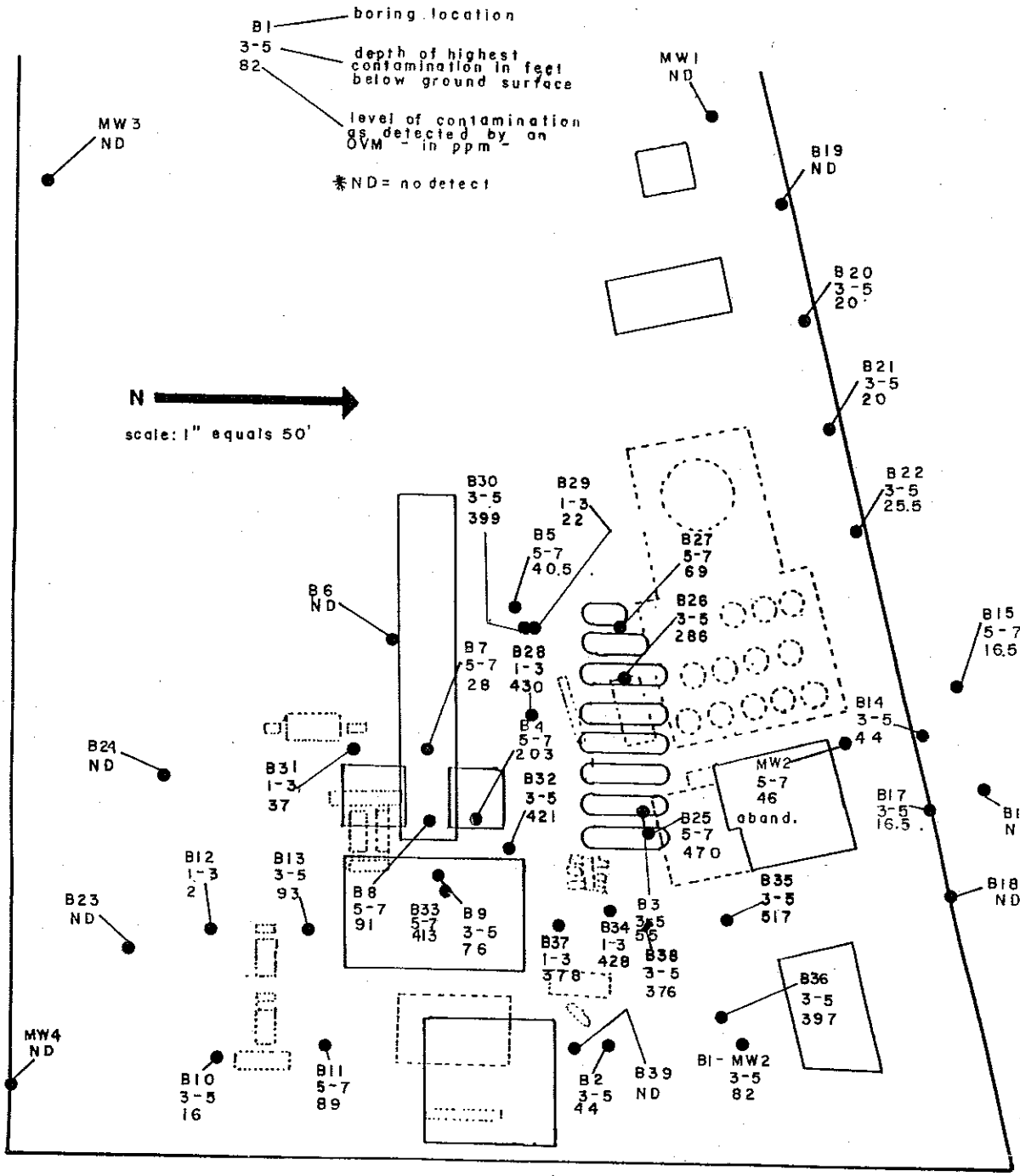
Bold type and shaded areas indicate concentrations that exceed the NR 720 Generic Residual Contaminant Level

Bold type indicates concentrations that exceed the NR 140 PAL.

Shaded areas indicate concentrations that exceed the NR 140 ES.

[1] Only VOCs detected are listed. For a complete list of the compounds analyzed and laboratory detection limits, see copies of attached laboratory reports.

[2] Elevated detection limit due to methanol preservation or elevated contaminant concentrations.



SCALE: 1" equals 50'	DRAWN BY: PJA	DATE: 2-8-91
Kaul Bulk Plant Figure 7 Soil Boring and Monitoring Well Locations and Field Screenings	COOPER ENVIRONMENTAL RESOURCES, INC. Environmental Consultants	

SOIL

Initial Data

TABLE 2
KAUL BULK PLANT
LAB ANALYSIS

SAMPLE NO.	SAMPLE LOCATION	DEPTH (ft.)	RESULTS TPH
B1MW2REDRILL	SS#4	7-9	ND
B2	SS#3	5-7	ND
B3	SS#4	7-9	ND
B4	SS#6	12.5-13	ND
B5	SS#4	7-9	ND
B6	SS#2	3-5	ND
B7	SS#4	7-9	ND
B8	SS#6	11-12	ND
B9	NO SAMPLE		
B10	SS#4	8.5	ND
B11	SS#4	8.0	ND
B12	SS#3	5.0	ND
B13	SS#4	8.5	ND
B14	SS#5	10.0	ND
MW2	SS#2	3-5	436.2 DIESEL 963.4 GAS
MW2	SS#5	9-11	ND

ppm

SOIL

TABLE 4
KAUL BULK PLANT
LAB ANALYSIS
DRILL & SAMPLE - PHASE 2
RESULTS - TPH EXTRACTABLE

SAMPLE NO.	SAMPLE LOCATION	DEPTH (ft.)	RESULTS
B15	SS#6	11.0	ND
B16	SS#1,2,3	1.0-7.0	ND
B17	SS#4	8.0	ND
B18	SS#2	3.0	ND
B19	NO SAMPLE		
B20	SS#4	7.5	ND
B21	SS#4	7.5	ND
B22	SS#4	7.5	ND
B23	NO SAMPLE		
B24	NO SAMPLE		

Detection limit 5.0 ppm all parameters

SOIL

Table 6
Kaul Bulk Plant
Laboratory Results
Soil Boring Samples
Modified California Method TPH
EPA Method 3810

Location	Depth	Laboratory Analysis						
		Gasoline (ppm)	Mineral Spirits (ppm)	Stoddard Solvent (ppm)	Diesel (ppm)	Jet Fuel (ppm)	Fuel Oil (ppm)	Kerosene (ppm)
SB#25	5-7'							**1,300
SB#26	3-5'							**87
SB#27	5-7'				*6.0			
SB#28	1-3'	NQ						**2,400
SB#30	3-5'	NQ						**2,000
SB#31	3-5'				*11			
SB#32	3-5'	10,000						
SB#33	5-7'	NQ						**47
SB#34	1-3							**3,400
SB#35	3-5'							**5,000
SB#36	3-5							**3,000
SB#37	5-7'							**1,800
SB#38	3-5'							**2,900
0.5' at center of aboveground tank farm								**62

*Quantification is based on similarities to a diesel standard
** Quantification is based on similarities to a kerosene standard

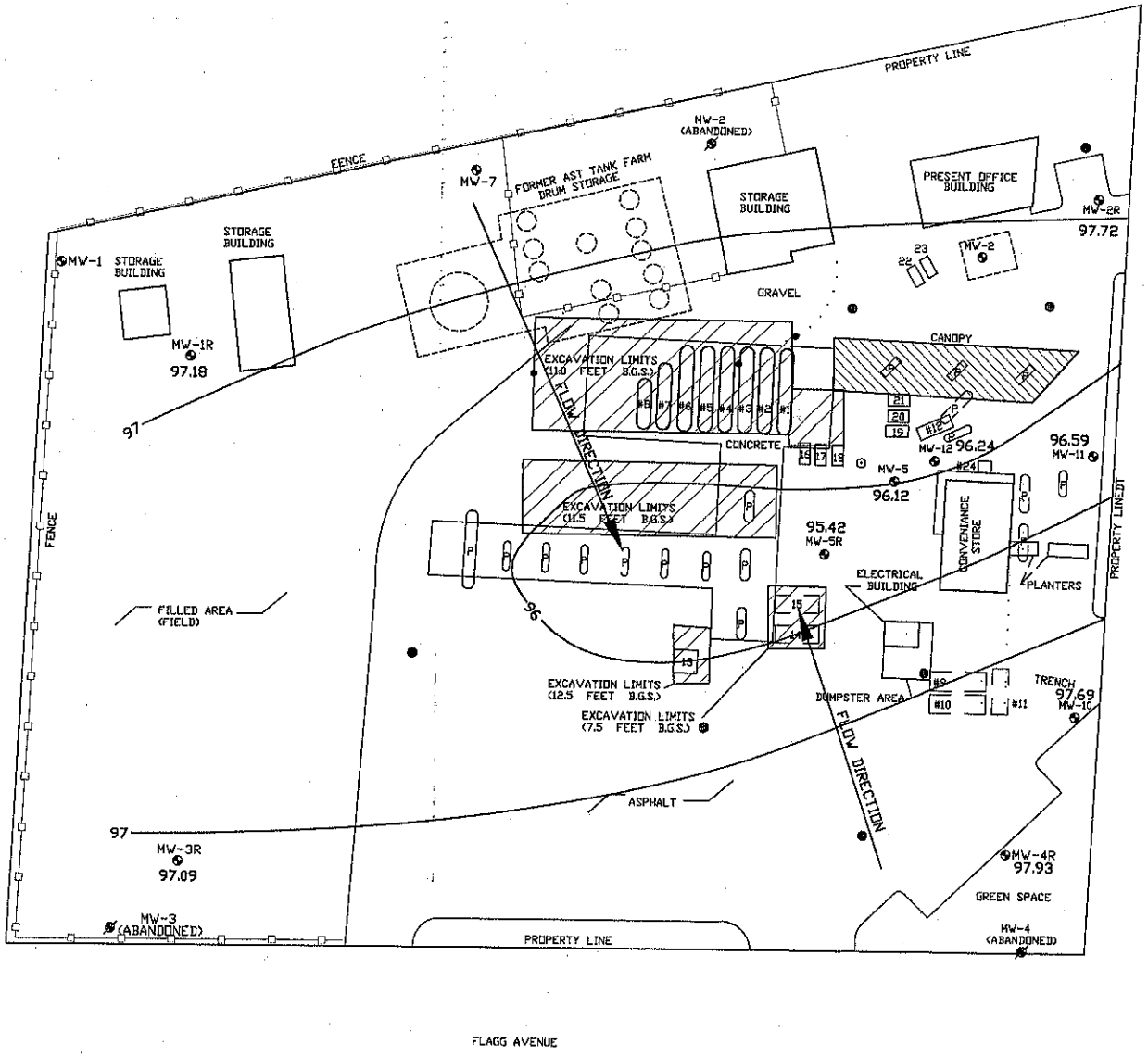
NQ - Sample appears to also contain gasoline, but is Not Quantified due to the overlapping patterns of mixture

Samples were quantitated to best available standards, but did not match perfectly. It is possible that samples contain other petroleum products that are not quantified.

Table 3: Summary of Groundwater Elevation Data (Pr.# 4580)
Kaul Oil Company, Inc., 5931 North 91st Street, Milwaukee WI.

Monitoring Well	PVC Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
		May 17, 2004		August 9, 2004		April 11,2006		Octuber 9, 2006		4-Jan-07		4-Apr-07		11-Sep-07	
	feet	feet	feet (MSL)	feet	feet (MSL)	feet	feet (MSL)	feet	feet (MSL)	feet	feet (MSL)	feet	feet (MSL)	feet	feet (MSL)
MW-1R	101.45	4.52	96.93	6.86	94.59	5.63	95.82	5.7	95.75	4.89	96.56	4.27	97.18	5.97	95.48
MW-2R	100.86	4.1	96.76	5.66	95.20	5.18	95.68	5.8	95.06	5.35	95.51	3.74	97.12	5.21	95.65
MW-3R	103.86	*	*	*	*	*	*	*	*	4.38	99.48	3.77	97.09	6.99	96.87
MW-4R	102.96	*	*	*	*	*	*	*	*	6.68	96.28	5.03	97.93	*	*
MW-5	99.43	3.72	95.71	*	*	*	*	*	*	*	*	3.31	96.12	3.19	96.24
MW-5R	98.94	8.2	90.74	3.89	95.05	4.6	94.34	4.75	94.19	4.53	94.41	3.52	95.421	4.3	94.64
MW-6	100.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW-7	102.40	1.01	101.39	2.82	99.58	*	*	*	*	*	*	*	*	*	*
MW-10	99.26	2.29	96.97	*	*	2.96	96.3	4.75	94.51	3.5	95.76	1.79	97.69	3.73	95.53
MW-11	99.48	No Water	*	4.68	94.80	*	*	*	*	*	*	3.89	95.59	1.63	97.85
MW-12	99.52	3.72	95.80	3.26	96.26	*	*	*	*	*	*	3.28	96.24	3.35	96.17
Average	100.74	3.94	96.33	4.53	95.91	4.593	95.53	5.25	94.88	4.89	96.37	4.89	96.37	4.30	96.05

* No level collected due to damaged or buried or locked.



TANK #	TANK CONTENTS	TANK STATUS
1	PREIUM UNLEADED GASOLINE	ACTIVE
2	UNLEADED GASOLINE	ACTIVE
3	#2 DIESEL FUEL	ACTIVE
4	#2 DIESEL FUEL	ACTIVE
5	#2 DIESEL FUEL	ACTIVE
6	#2 DIESEL FUEL	ACTIVE
7	#1 DIESEL FUEL	ACTIVE
8	X-1 KEROSINE	ACTIVE
9	UNLEADED GASOLINE	REMOVED (12/8/98)
10	UNLEADED GASOLINE	REMOVED (12/8/98)
11	PREMIUM UNLEADED GASOLINE	REMOVED (12/8/98)
12	UNLEADED GASOLINE a.k.a. KEROSENE	REMOVED (12/8/98)
13	DIESEL FUEL	REMOVED (8/20/91)
14	DIESEL FUEL	REMOVED (12/8/90)
15	GASOLINE	REMOVED (12/8/90)
16	GASOLINE	REMOVED (9/4/90)
17	KEROSINE	REMOVED (9/4/90)
18	FUEL OIL	REMOVED (9/4/90)
19	DIESEL FUEL	REMOVED (5/5/88)
20	DIESEL FUEL	REMOVED (5/5/88)
21	DIESEL FUEL	REMOVED (5/5/88)
22	GASOLINE	REMOVED (10/86)
23	GASOLINE	REMOVED (10/86)
24	HEATING FUEL OIL	REMOVED (12/8/96)

N

SCALE: 1" = 50'-0"

0 10' 25' 50' 100' 150'

MW-1, MW-1R — MONITORING WELL LOCATION AND NUMBER
ABANDONED MONITORING WELL LOCATION
MANHOLE COVER AND CATCH BASIN
COLLECTION SUMP LOCATION
PUMP DISPENSING ISLAND

BASE MAP DEVELOPED FROM MAP PROVIDED BY ADVENT ENGINEERING ENVIRONMENTAL SERVICES, INC.

ENGINEER

K. Singh & Associates, Inc.

ENGINEERS, ARCHITECTS & ENVIRONMENTAL CONSULTANTS

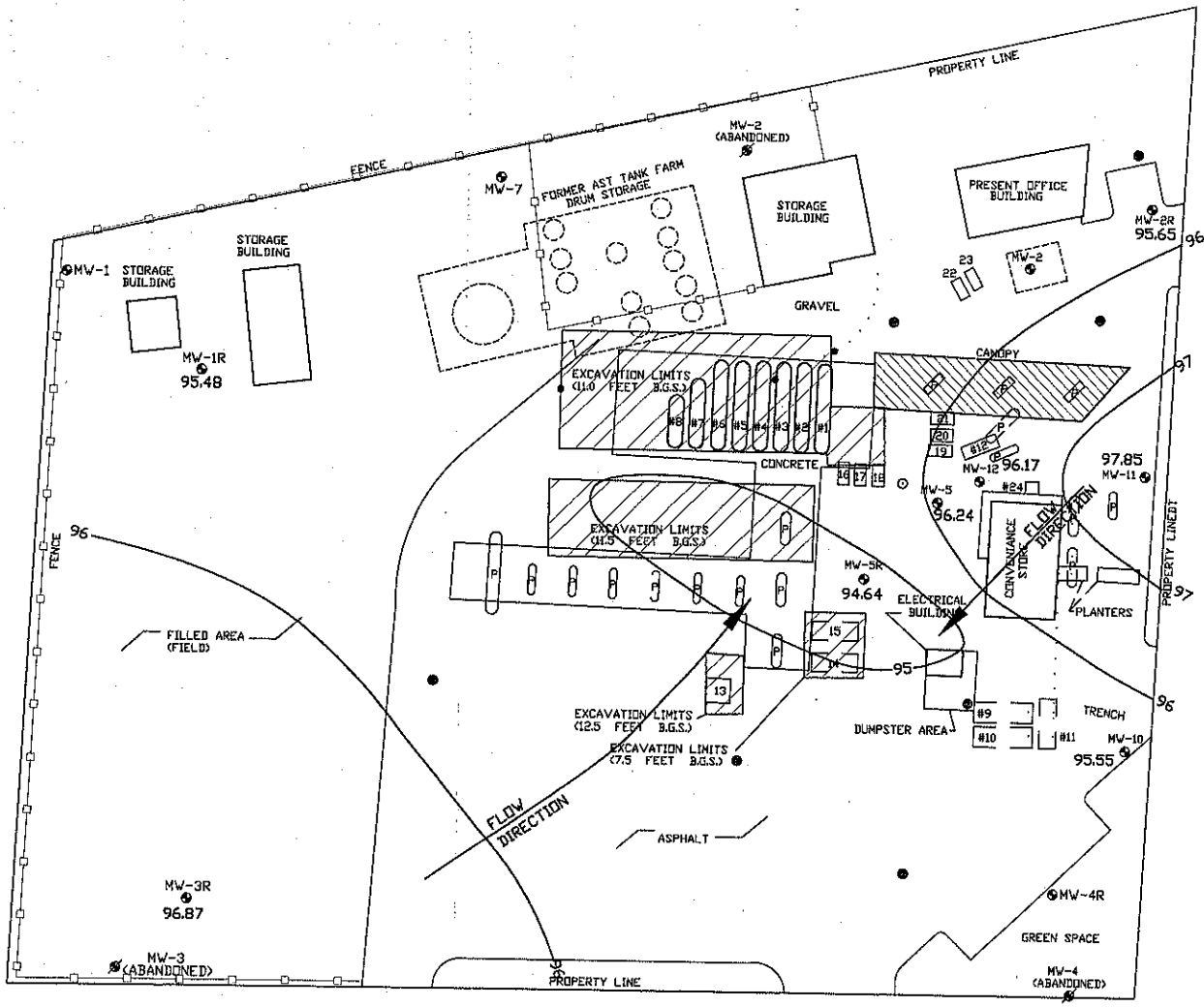
1135 Lagoon Drive Elm Grove, Wisconsin 53122
Phone: (262) 821-1171 FAX: (262) 821-1174
E-mail: singh@ksengr.com

DRAWN BY:	PAR
CHECKED BY:	N.W.
DATE:	10/26/07
PROJECT NO:	4580
DRAWING FILE:	FIGURE 1 LOC MAP

TITLE: FIGURE 6: GROUNDWATER CONTOURS (APRIL 4, 2007)

ADDRESS: KAUL-91st AND FLAGG STREET MILWAUKEE, WISCONSIN

Sheet No. 1



TANK #	TANK CONTENTS	TANK STATUS
1	PREIUM UNLEADED GASOLINE	ACTIVE
2	UNLEADED GASOLINE	ACTIVE
3	#2 DIESEL FUEL	ACTIVE
4	#2 DIESEL FUEL	ACTIVE
5	#2 DIESEL FUEL	ACTIVE
6	#2 DIESEL FUEL	ACTIVE
7	#1 DIESEL FUEL	ACTIVE
8	X-1 KEROSINE	ACTIVE
9	UNLEADED GASOLINE	REMOVED (12/8/98)
10	UNLEADED GASOLINE	REMOVED (12/8/98)
11	PREMIUM UNLEADED GASOLINE	REMOVED (12/8/98)
12	UNLEADED GASOLINE d.b.a. KEROSENE	REMOVED (12/8/98)
13	DIESEL FUEL	REMOVED (8/20/91)
14	DIESEL FUEL	REMOVED (12/8/90)
15	GASOLINE	REMOVED (12/8/90)
16	GASOLINE	REMOVED (9/4/90)
17	KEROSINE	REMOVED (9/4/90)
18	FUEL OIL	REMOVED (9/4/90)
19	DIESEL FUEL	REMOVED (5/5/88)
20	DIESEL FUEL	REMOVED (5/5/88)
21	DIESEL FUEL	REMOVED (5/5/88)
22	GASOLINE	REMOVED (10/86)
23	GASOLINE	REMOVED (10/86)
24	HEATING FUEL OIL	REMOVED (12/8/96)

N

SCALE: 1" = 50'-0"

0 10' 25' 50' 100' 150'

MW-1, MW-1R MONITORING WELL LOCATION AND NUMBER
ABANDONED MONITORING WELL LOCATION
MANHOLE COVER AND CATCH BASIN
COLLECTION SUMP LOCATION
PUMP DISPENSING ISLAND

BASE MAP DEVELOPED FROM MAP PROVIDED BY ADVENT ENGINEERING ENVIRONMENTAL SERVICES, INC.

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1135 Legion Drive Elm Grove, Wisconsin 53122
Phone: (262) 821-1171 FAX: (262) 821-1174
E-mail: singh@execpc.com

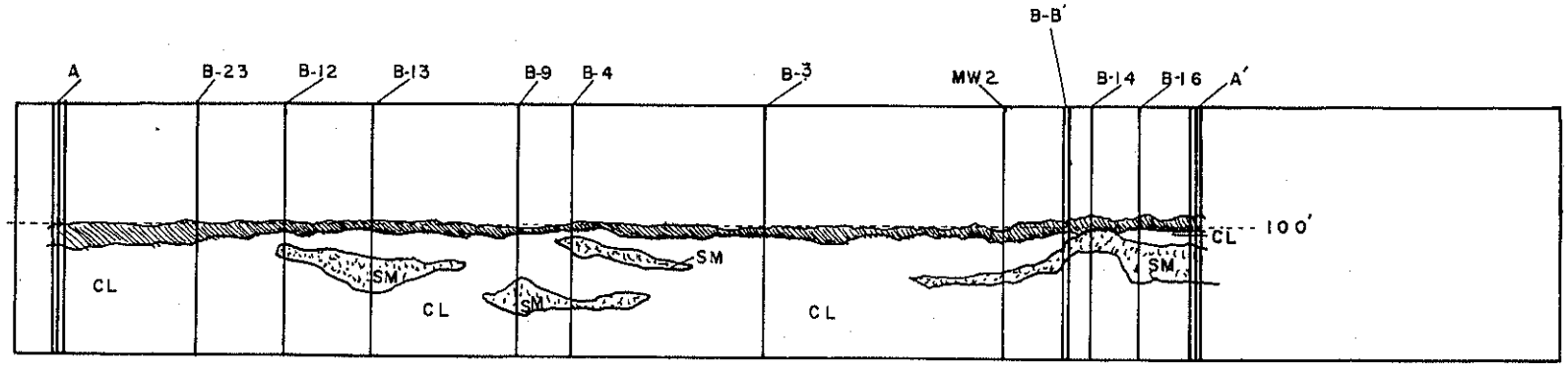
DRAWN BY: PAR
CHECKED BY: N.W.
DATE: 10/26/07
PROJECT NO: 4580
DRAWING FILE: FIGURE 1 LOC MAP

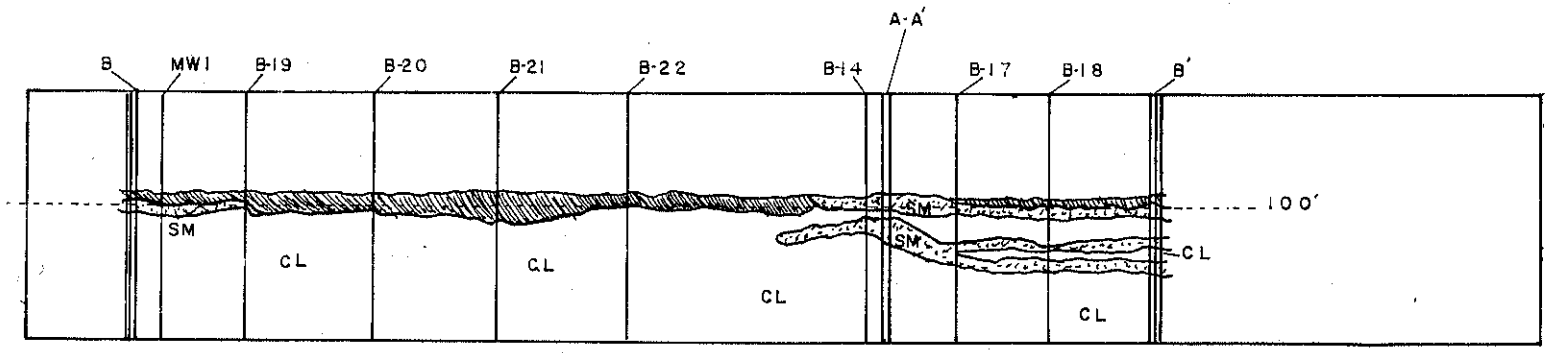
TITLE: FIGURE 7: GROUNDWATER CONTOURS (SEPTEMBER 11, 2007)

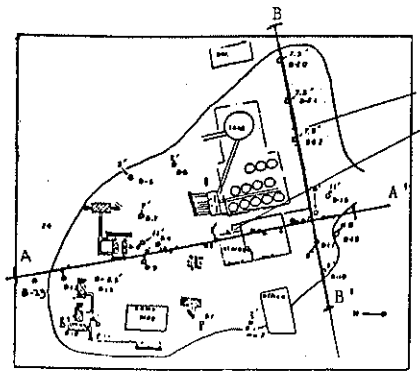
ADDRESS: KAUL-91st AND FLAGG STREET MILWAUKEE, WISCONSIN

Sheet No. 1

Geologic Cross Sections







location of cross section

topsoils, rubble, asphalt, etc.

SM loose silty sand

CL stiff to hard clay to silty clay

1" equals 44'

1 vertical inch equals 19.5 ft.

vertical exaggeration equals 2.25 times

100' bench mark at office steps

Kaul Bulk Plant

Figure 6
Geologic Cross Sections

drawn by: PJA
date: 2-11-91

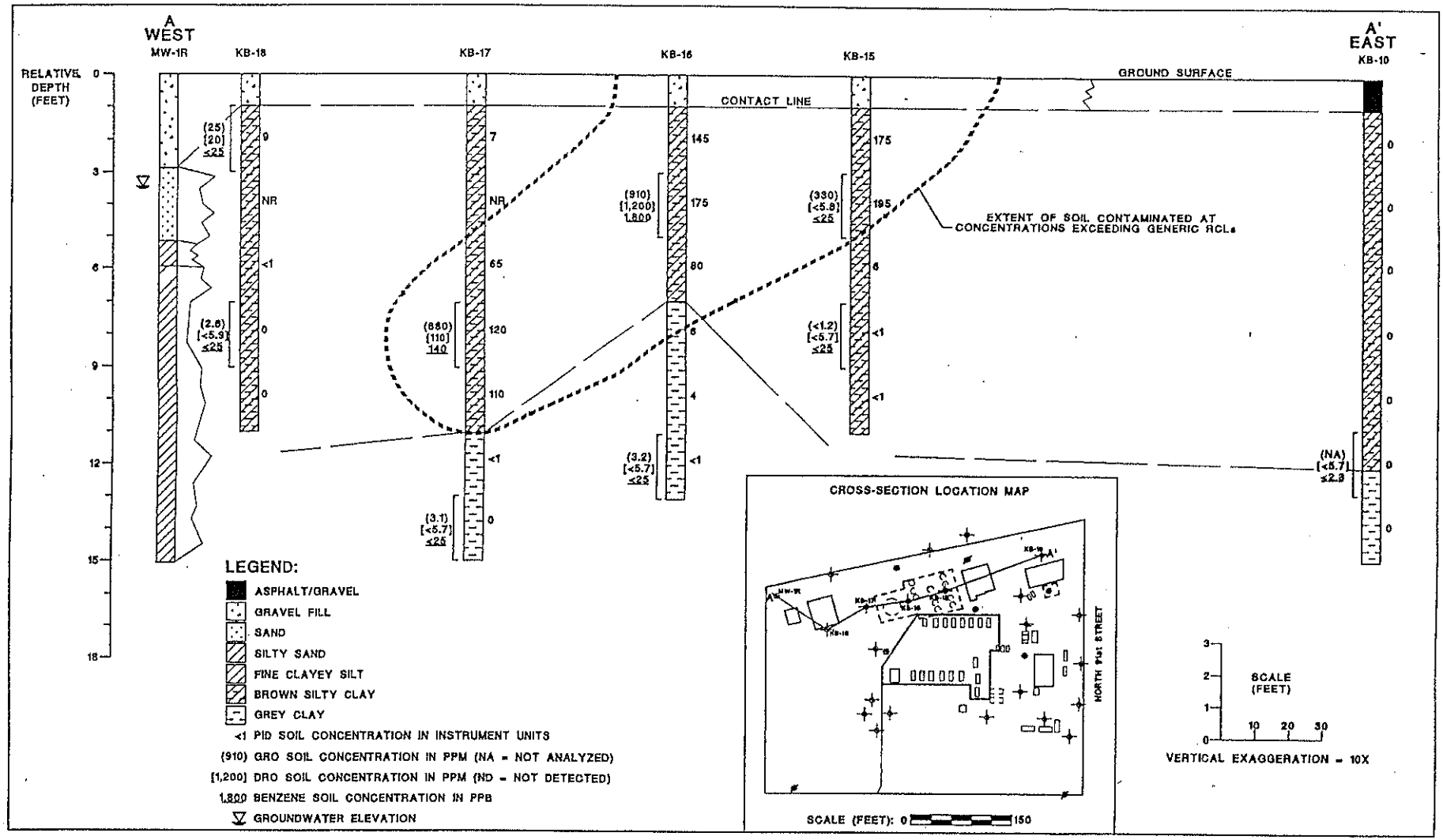


FIGURE 4 WEST TO EAST CROSS SECTION A TO A'
KAUL OIL COMPANY
MILWAUKEE, WISCONSIN

ADVENT
ENVIRONMENTAL SERVICES, INC.
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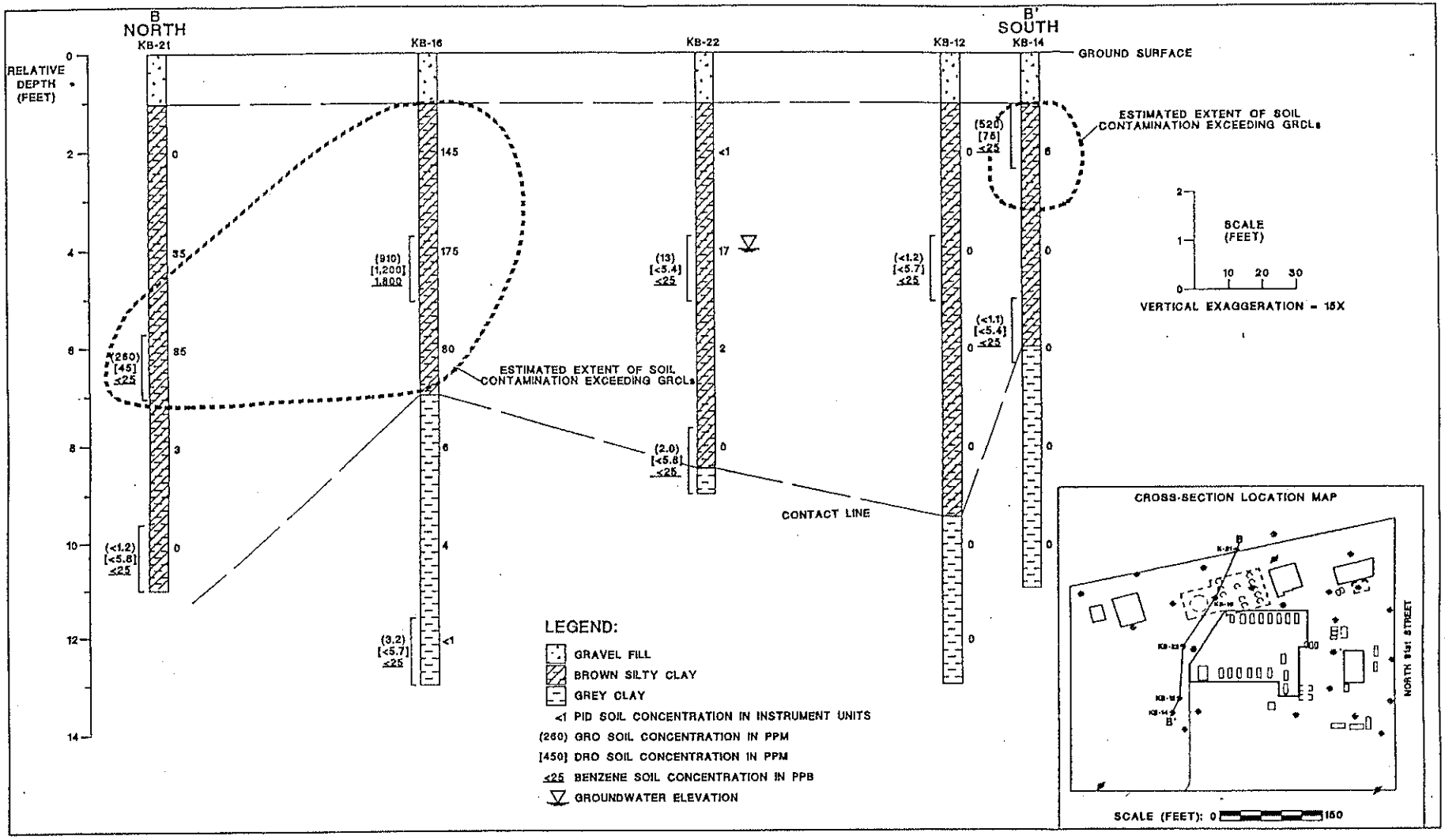

FIGURE 5 NORTH TO SOUTH CROSS SECTION B-B'
KAUL OIL COMPANY
MILWAUKEE, WISCONSIN

ADVENT
ENVIRONMENTAL SERVICES, INC.
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DRAWING #97373.02D

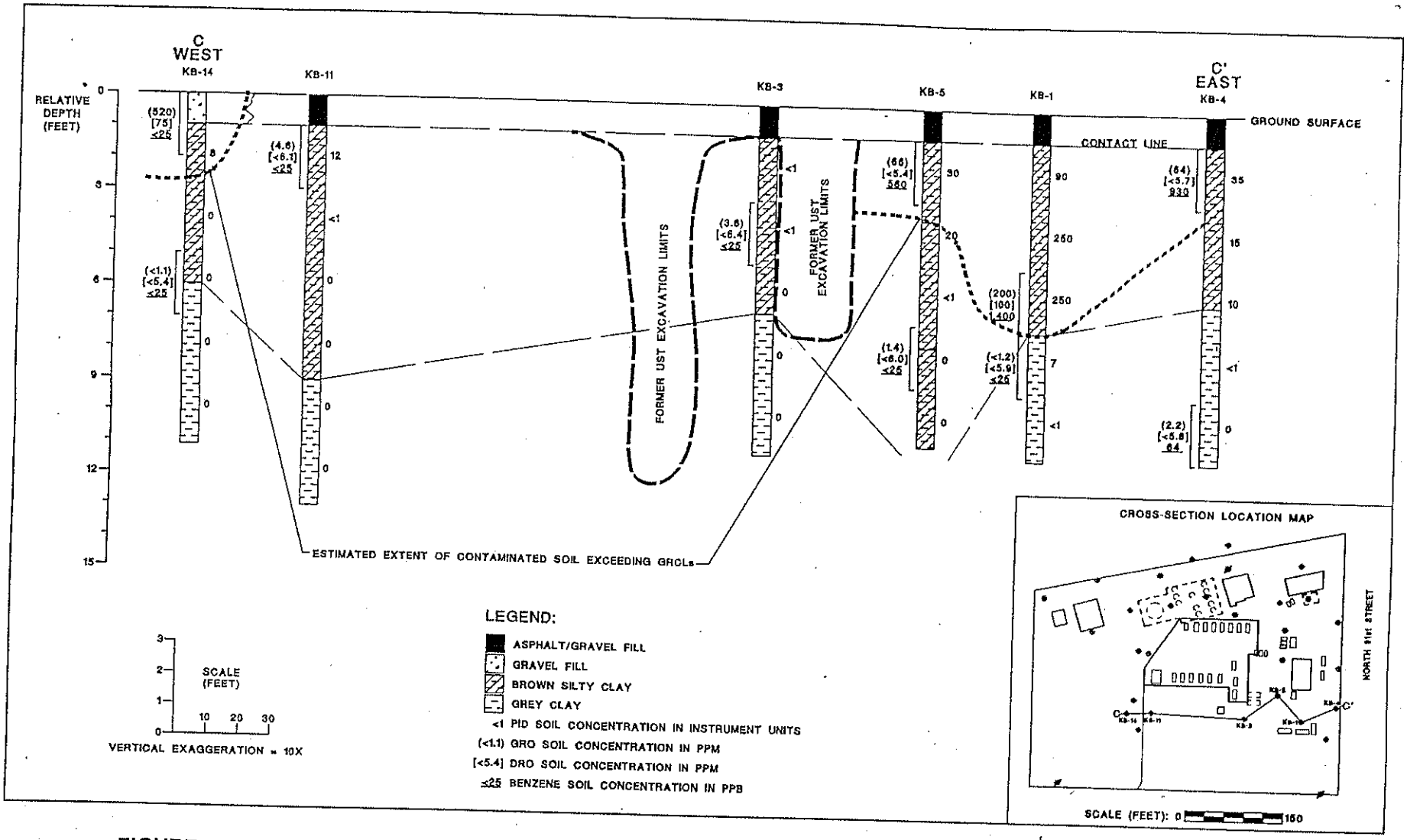

FIGURE 6 WEST TO EAST CROSS SECTION C-C'
KAUL OIL COMPANY
MILWAUKEE, WISCONSIN

ADVENT
ENVIRONMENTAL SERVICES, INC.
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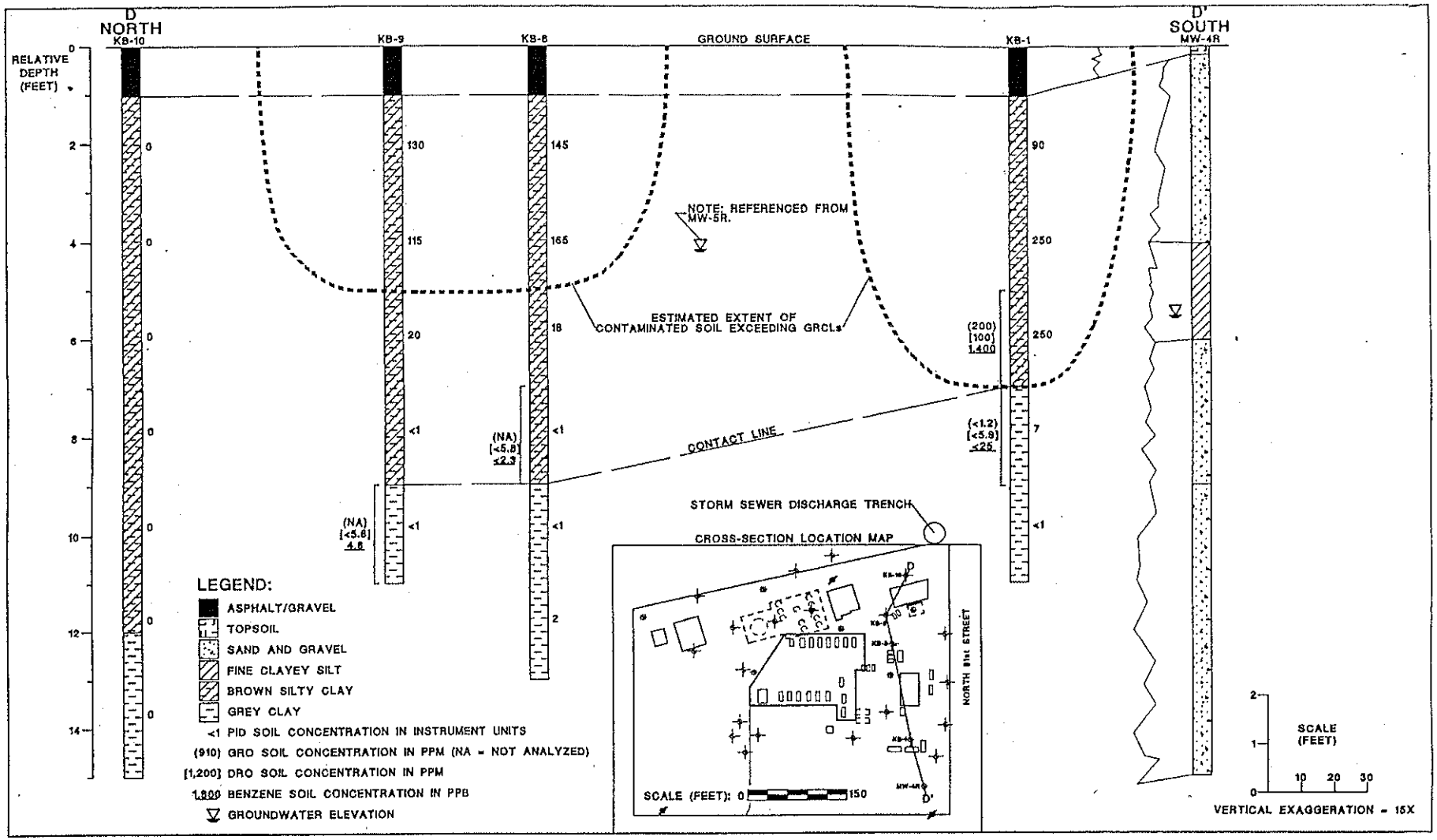

FIGURE 7 NORTH TO SOUTH CROSS SECTION D-D'
KAUL OIL COMPANY
MILWAUKEE, WISCONSIN

ADVENT
ENVIRONMENTAL SERVICES, INC.
DATE: 1/19/00
DRAWING #97373.02M

KAUL OIL

KAUL OIL COMPANY 5931 North 91st Street Milwaukee, Wisconsin 53225 Phone (414) 461-3100

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Certification of Legal Description

Parcel Identification Number: 178-9986-111
(Kaul Oil Co., Inc. 5931 N. 91st Street, Milwaukee WI)

5931 North 91 Street, Milwaukee, Wisconsin. That part of the North 19acres of the East 30 acres of the North East ¼ of the South East ¼ of Section 29, Township 8 North, Range 21 East, in the City and County of Milwaukee, State of Wisconsin, which is bounded and described as follows, to-wit: Commencing at a point in the East line of said 1/4Section, and North 1 49' East 1808.15 feet from the South East corner of thereof; running thence West along the South line of the North 19 acres of the East 30 acres aforesaid, 536.76 feet to a point which is North 1 49' East and 1811.10 feet from the South line of said ¼ Section ; running thence North 1 49' East and parallel to the East line of said ¼ Section, 407.75 feet to a point in the Southerly right-of-way line of the Chicago and Northwest Railway; (said point being 75.00 feet measured at right angles from the center line of said Railway right-of-way) running thence North Easterly along the Southerly right-of-way line of said Railway, and parallel to center line thereof, 552.74 feet to a point in the East line of said ¼ Section 531.29 feet to the place of beginning; reserving the East 55.00 feet for highway purposes.

Mr. Dennis Kaul, certify that legal description provided above and on the attached Warranty Deed is complete and accurate to the best of my knowledge. The legal description correctly describes the parcel affected by petroleum releases for Kaul Oil Co., Inc. at 5931 N. 91st Street, Milwaukee, WI.

KAUL OIL CO., INC.

Dennis Kaul
Owner

Date: 10/15/07

KSA

K. SINGH & ASSOCIATES, INC.

Engineers, Scientists and Environmental Management Consultants

November 7, 2007

Mr. Jeffery S. Polenske, P.E.
City Engineer
Room 701
841 North Broadway
Milwaukee, WI 53202

Project # 4580

Subject: Notification of Residual Contamination within the Right of Way of North 91st Street, along 5931 North 91st Street, Milwaukee, WI (BRRTS # 03-41-004810, Commerce # 53225-2799-31-A)

Dear Mr. Polenske:

The purpose of this letter is to notify the City of Milwaukee of the potential of residual benzene and MTBE contamination in groundwater within the right-of-way of North 91st Street along 5931 North 91st Street, Milwaukee, WI.

Elevated benzene and MTBE contamination was noted in ground water samples collected from monitoring wells MW-5, MW-11, and MW-12. Groundwater quality test results are included in Table 1. Elevated MTBE contamination in monitoring well MW-11 indicates that there is a potential for residual contamination within the right-of-way of North 91st Street along the west side walk. The location of the monitoring wells and the plume of residual contamination is shown in Figure 1.

We are notifying you of the above details for your information and records. It is our understanding that the residual contamination will be remediated by natural attenuation. Please call us if you have any questions regarding this matter.

Sincerely,

K. SINGH & ASSOCIATES, INC.

Nicole Wilbur

Nicole J. Wilbur
Staff Hydrogeologist

Pratap N. Singh, Ph. D., P.E.
Project Manager

Cc: Mr. Dennis Kaul, Kaul Oil Co, Inc., 5931 North 91st Street, Milwaukee, WI 53225-2799
Mrs. Kamala Singh, PECFA Claim File