GIS REGISTRY INFORMATION

SITE NAME:	Speedway #2121						
BRRTS #:	03-41-000158				**FID #** (if appropriate):		
COMMERCE # (if appropriate):	53220-3128-65						
CLOSURE DATE:	January 24, 2005						
STREET ADDRESS:	4265 S 60th St						
CITY:	Greenfield						
SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):		**X =**	684040		**Y =**	279114	
CONTAMINATED MEDIA:	Groundwater			Soil		Both	X
OFF-SOURCE GW CONTAMINATION >ES:			Yes			No	X
• **IF YES, STREET ADDRESS:**							
• **GPS COORDINATES** (meters in WTM91 projection):		X =			Y =		
OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):			Yes		No	X	
• **IF YES, STREET ADDRESS 1:**							
• **GPS COORDINATES** (meters in WTM91 projection):		X =			Y =		
CONTAMINATION IN RIGHT OF WAY:		Yes	X		No		

DOCUMENTS NEEDED

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

commerce.wi.gov
Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212-3963
TDD #: (608) 264-8777
Fax #: (414) 220-5374
Jim Doyle, Governor
Cory L. Nettles, Secretary

January 24, 2005

Mr. Keith Hughes
Speedway SuperAmerica, LLC
Environmental Services, Dept. LB-4
P.O. Box 1500
Springfield, OH 45501

RE: **Final Closure**

Commerce # 53220-3128-65 WDNR BRRTS # 03-41-000158
Speedway #2121, 4265 South 60th Street, Greenfield

Dear Mr. Hughes:

The Wisconsin Department of Commerce (Commerce) has received all items required as conditions for closure of the site referenced above. This case is now listed as "closed" on the Commerce database and will be included on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual soil and groundwater contamination. It is in your best interest to keep all documentation related to the environmental activities that were conducted.

If residual contamination is encountered in the future, it 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) 220-5376.

Sincerely,

Linda M. Michalets
Hydrogeologist
Site Review Section

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

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212-3963
TDD #: (608) 264-8777
Fax #: (414) 220-5374
http://www.commerce.state.wi.us
http://www.wisconsin.gov
Jim Doyle, Governor
Cory L. Nettles, Secretary

Wisconsin
Department of Commerce

July 18, 2003

Mr. Keith Hughes
Speedway SuperAmerica, LLC
P.O. Box 1500
Springfield, OH 45501

RE: **Conditional Case Closure**

Commerce # 53220-3128-65 WDNR BRRTS # 03-41-000158
Speedway #2121, 4265 South 60th Street, Greenfield

Dear Mr. Hughes:

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 conditions must be satisfied to obtain final closure:

- A deed restriction must be placed on the property deed to prevent direct contact exposure to shallow petroleum contaminated soil that remains within four feet of the ground surface. For this site, the deed restriction requires the preservation and maintenance of a surface barrier over the shallow residual soil contamination. Provide Commerce with a copy of the deed restriction showing the County Register of Deeds' recording information. The deed restriction must include Figure 3, "Soil Quality Map" from the closure request, which indicates where the shallow residual contamination remains and concentrations detected.

  Enclosed for your use is an example "Notice of Contamination to Property" that has been prepared for your site. If you wish to modify the language, submit a draft copy to Commerce at the letterhead address for approval before recording. If an electronic copy of the "Notice of Contamination to Property" is desired, you may contact me and a copy will be forwarded to you.

- The deed restriction outlined above must also explain that a passive venting system will remain in place to address potential vapor migration into the building. If vapors recur, active venting may be required. This language has been incorporated into the enclosed example "Notice" for your use.

- The nine groundwater monitoring wells must be properly abandoned and the appropriate documentation forwarded to Commerce at the letterhead address.

This letter serves as your written notice of "no further action". 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 of the date of this letter will not be eligible for PECFA reimbursement. Costs associated with recording deed notices or other restrictions are not eligible for PECFA reimbursement, and the recording of these notices should not delay the claim submittal process.

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) 220-5376.

Sincerely,

Linda M. Michalets
Hydrogeologist
Site Review Section

Enclosure: Draft "Notice of Contamination to Property"

cc: Mr. Adam Roder, Sigma Environmental Services, Inc.
Case File

DOCUMENT NO.

REEL 1511 IMAG 1794

STATE BAR OF WISCONSIN-FORM 2
WARRANTY DEED
THIS SPACE RESERVED FOR RECORDING DATA

5601577
REGISTER'S OFFICE
Milwaukee County, WI } SS
RECORDED AT 3:25PM
MAR 11 1983
REEL 1511 IMAGE 1794
REGISTER OF DEEDS

BY THIS DEED, Gas Hut, Inc., a Minnesota corporation

Grantor conveys and warrants to Emro Marketing Company, a Delaware corporation

Grantee

for a valuable consideration of One Dollar ($1.00) and other good and valuable consideration

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

RETURN TO
Emro Marketing Co.
2525 N. Limestone St.
Springfield, OH 45503

Tax Key #

This is not homestead property.

That part of the Northeast ¼ of Section 22, Township 6 North, Range 21 East, in the City of Greenfield, described as follows: Commencing at the Southeast corner of said ¼ Section; running thence West along the South line of said ¼ Section, 237.27 feet to a point; thence North and parallel to the East line of siad ¼ Section 247.29 feet to a point; thence East and parallel to the South line of said ¼ Section, 237.27 feet to a point in the East line of said ¼ Section; thence South along the East line of said ¼ Section, 247.29 feet to the place of beginning, except the East 55 feet and the South 45 feet thereof.

DOC # 5601577 #
RECORD 4.00
RTX 429.00
F CASH F 433.00
#10537 C001 R01 T15:26
MAR 11 83

TRANSFER
$429.00
FEE

Exception to warranties: Subject to restrictions, reservations, easements, and rights of record, if any. Subject to real estate taxes and installments of special assessments due and payable for 1983 and subsequent years which are due and payable in 1984 and subsequent years.

Executed at Minneapolis, Minnesota this 1st day of March, 19 83.

SIGNED AND SEALED IN PRESENCE OF

GAS HUT, INC. (SEAL)
By Grayson Tuck
Grayson Tuck, Vice President
(SEAL)
And by T. L. Grupp
T. L. Grupp, Assistant Secretary
(SEAL)
(SEAL)

Signatures of

authenticated this day of , 19.

Title: Member State Bar of Wisconsin or Other Party Authorized under Sec. 706.06 viz.

STATE OF ~~WISCONSIN~~ MINNESOTA
HENNEPIN County. } ss.

Personally came before me, this 1st day of March, 1983, the above named Grayson Tuck and T. L. Grupp, the Vice President and the Assistant Secretary, respectively, of Gas Hut, Inc., a Minnesota corporation to me known to be the person S who executed the foregoing instrument and acknowledged the same.

Lynne E. Stanley
Notary Public, State of MN
My Commission (Expires) (Is) Permanent

LYNNE E. STANLEY
NOTARY PUBLIC - MINNESOTA
HENNEPIN COUNTY
My Commission Expires Jan 21 1989

This instrument was drafted by
GRAY, PLANT, MOOTY, MOOTY & BENNETT
300 Roanoke Building
Minneapolis, Minnesota 55402

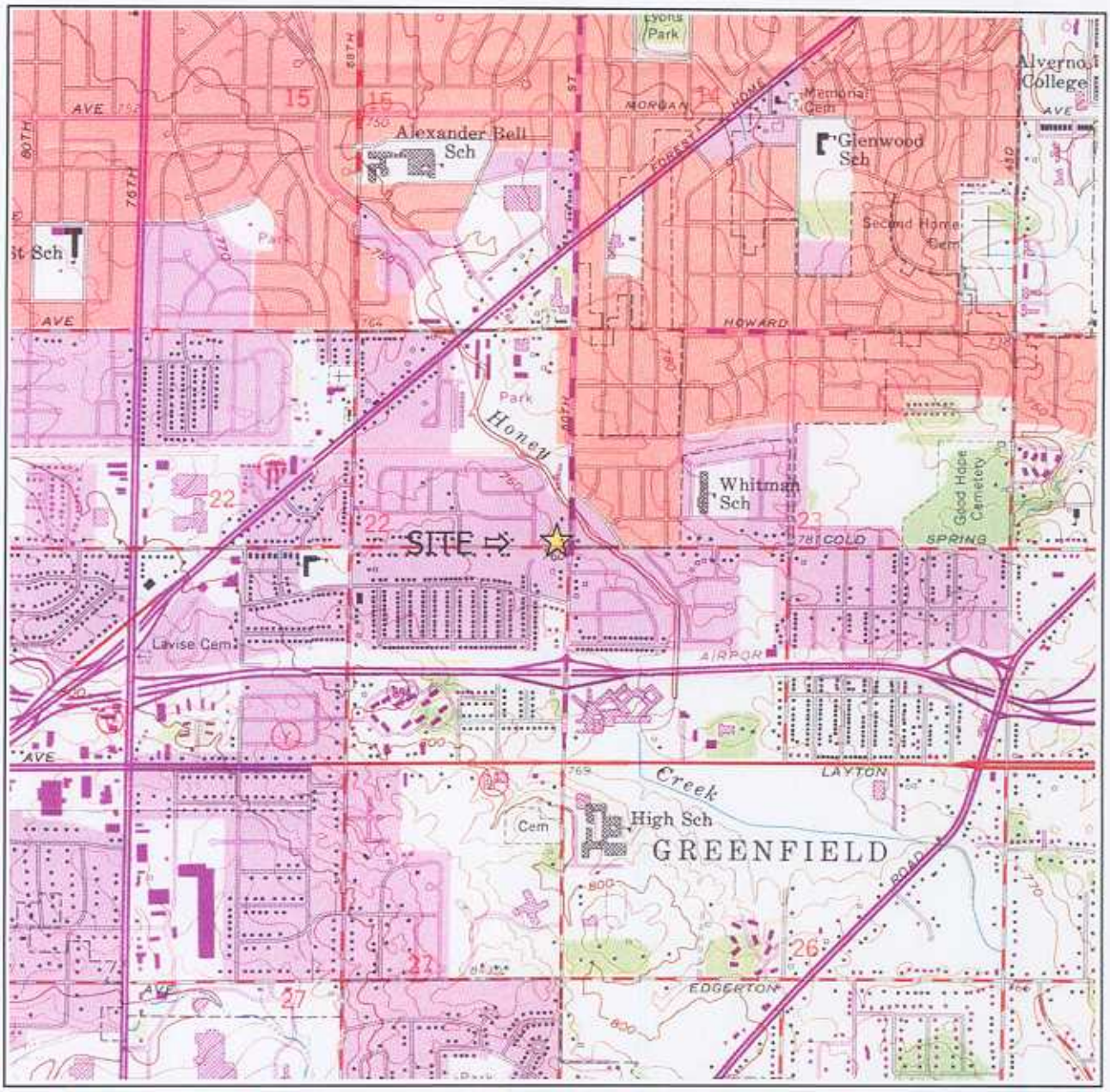
The use of witnesses is optional.

Names of persons signing in any capacity should be typed or printed below their signatures.

PARCEL IDENTIFICATION NUMBERS

- Parcel Identification Number (PIN) for the SuperAmerica Store #2121 property, located at 4265 S. 60th Street, Greenfield, Wisconsin:

  572-89-39



SE ¼ of the NE ¼ of Sec. 22, T6N, R21E Adapted from U.S.G.S. 7.5 minute series, Greendale (dated 1958, photorevised 1971 and 1976) and Hales Corners (dated 1959, revised 1994), Wisconsin, quadrangles.

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

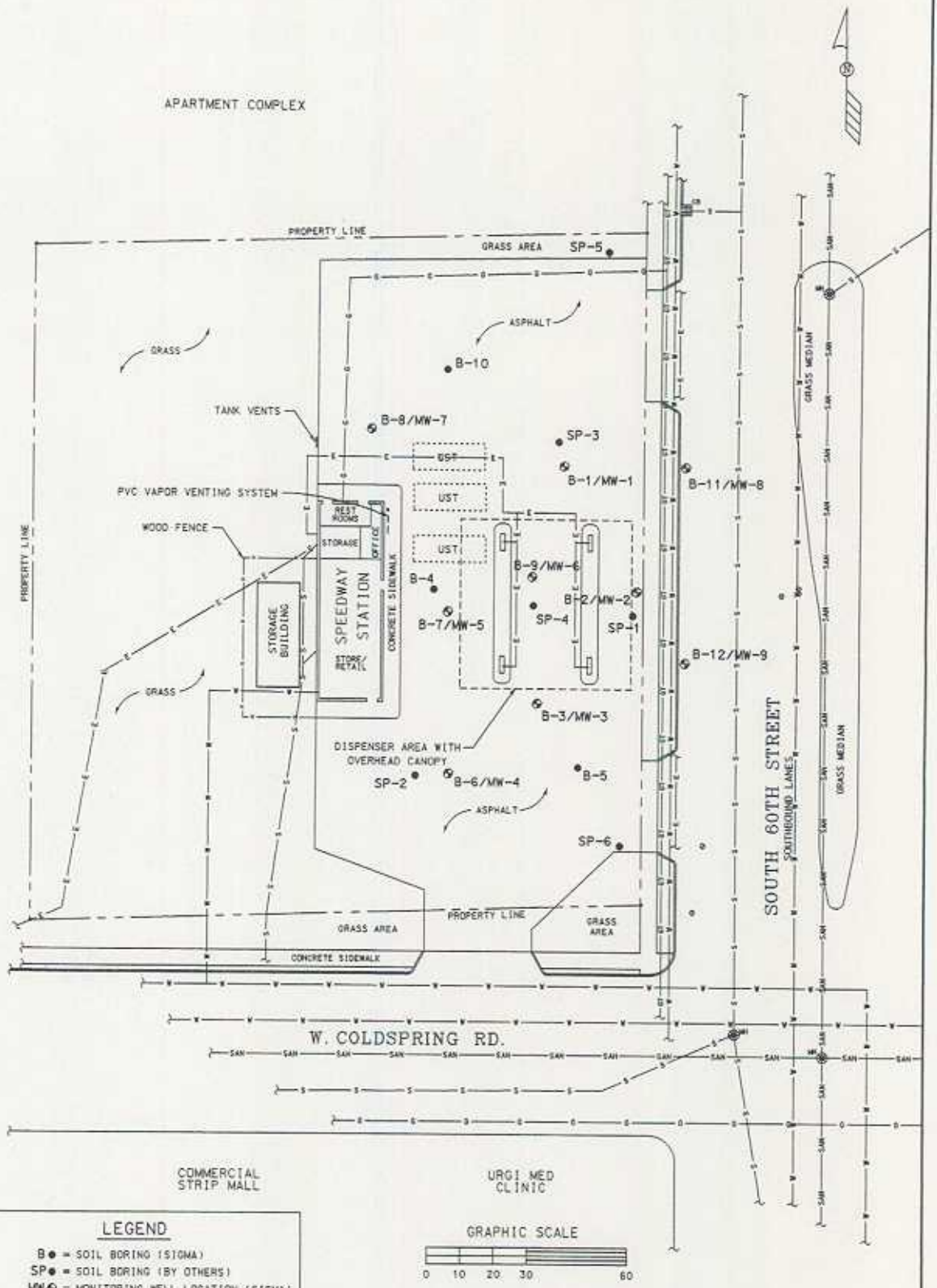
CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

N

Figure 1. Site Location Map
Speedway SuperAmerica #2121
4265 S. 60th St., Greenfield, Wisconsin

SIGMA
ENVIRONMENTAL SERVICES INC.

5700fig1.ppt



LEGEND

- B● = SOIL BORING (SIGMA)
- SP● = SOIL BORING (BY OTHERS)
- MW⊗ = MONITORING WELL LOCATION (SIGMA)
- = WATER VALVE LOCATION
- CB = CATCH BASIN LOCATION
- MH = MANHOLE LOCATION
- —G— = GAS LINE
- —GT— = GAS / TELEPHONE LINE
- —S— = STORM SEWER LINE
- —SAN— = SANITARY SEWER LINE
- —W— = WATER LINE
- —E— = ELECTRIC LINE

NOTES:
1. MAP BASED ON SITE MAP PROVIDED BY SSA AND FIELD MEASUREMENTS.
2. UTILITY LOCATIONS BASED ON DIGGERS HOTLINE MARKINGS AND DRAWINGS PROVIDED BY CITY OF GREENFIELD.

SPEEDWAY SUPERAMERICA #2121 4265 S. 60TH STREET, GREENFIELD, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 1-13-03	DR. BY: BEB	DR.# 5700-001	SCALE: 1" = 30'
SITE PLAN MAP			FIGURE 2

Table 2
Groundwater Quality Results
Speedway Station #2121 - 4265 S. 60th Street, Greenfield, Wisconsin
Sigma Project #5700

Parameter	Sample Location/Date										NR 140 ES	NR 140 PAL
	MW-1											
	03/06/91*	05/20/91*	08/07/92*	11/04/94*	09/24/96	05/08/97	02/02/98*	08/24/99*	03/26/01*	03/29/02*		
Depth to Water (ft btc)	5.69	3.93	4.64	4.03	---	---	2.97	3.25	2.96	3.82		
Gasoline Range Organics (mg/l)	---	---	4.2	<0.1	<0.1	<0.05	<0.05	---	---		NS	NS
Diesel Rrange Organics (mg/l)	---	---	---	<0.1	---	---	---	---	---	---	NS	NS
Dissolved Lead (mg/l)	---	---	<0.004	0.002	---	---	---	---	---	---	0.015	0.0015
PVOCs and Detected VOCs												
Benzene	<1.0	<1.0	<1.0	<2.0	<0.80	<0.20	<0.16	<0.26	<0.35	<0.48	5.0	0.5
Toluene	<1.0	<1.0	<1.0	<2.0	<1.4	<0.40	<0.36	1.7L	<0.38	<0.47	1,000	200
Ethylbenzene	<1.0	<1.0	<1.0	<2.0	<1.8	<0.30	<0.29	<0.24	<0.37	<0.43	700	140
Total Xylenes	<1.0	12	<2.0	<4.0	<5.6	<1.10	<1.15	<1.34	<1.14	<1.94	10,000	1,000
Methyl tert butyl-ether	---	---	<1.0	<8.0	8.4	***17***	***21***	***22***	***23***	***17***	60	12
Trimethylbenzenes	---	---	<2.0	<0.7	<3.7	<0.60	<0.64	<1.4	<0.74	<1.03	480	96
Naphthalene	---	---	<1.0	<0.6	---	---	---	---	---	---	40	8
Isopropylbenzene	---	---	<1.0	<2.0	---	---	---	---	---	---	NS	NS
p-Isopropyltoluene	---	---	<1.0	<0.1	---	---	---	---	---	---	NS	NS
n-Propylbenzene	---	---	<1.0	<0.1	---	---	---	---	---	---	NS	NS
n-Butylbenzene	---	---	<1.0	<0.2	---	---	---	---	---	---	NS	NS
sec-Butylbenzene	---	---	<1.0	<0.2	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	---	---	<1.0	<0.6	---	---	---	---	---	---	NS	NS
1,2,4-Trichlorobenzene	---	---	<1.0	<0.3	---	---	---	---	---	---	70	14
Methylene Chloride	---	---	<1.0	2.0	---	---	---	---	---	---	5.0	0.5
Tetrachloroethene	---	---	<1.0	<0.3	---	---	---	---	---	---	5.0	0.5
1,2-Dibromomethane	---	---	<1.0	<0.8							0.05	0.005
Styrene	---	---	<1.0	---							100	10
Bromobenzene	---	---	<1.0	<0.3	---	---	---	---	---	---	NS	NS
Diisopropylether	---	---	<1.0	<1.0	---	---	---	---	---	---	NS	NS
PAHs												
Fluorene	---	---	---	<0.21	---	---	---	---	---	---	400	80
Phenanthrene	---	---	---	1	---	---	---	---	---	---	NS	NS
Fluoranthene	---	---	---	2	---	---	---	---	---	---	400	80
1-Methyl Naphthalene	---	---	---	<1.8	---	---	---	---	---	---	NS	NS
Pyrene	---	---	---	1	---	---	---	---	---	---	250	50
Acenaphthalene	---	---	---	<2.3	---	---	---	---	---	---	NS	NS
Chrysene	---	---	---	0.5	---	---	---	---	---	---	0.2	0.02
Benzo (a) anthracene	---	---	---	1	---	---	---	---	---	---	NS	NS
Benzo (b) fluoranthene	---	---	---	1	---	---	---	---	---	---	0.2	0.02
Benzo (k) fluoranthene	---	---	---	0.3	---	---	---	---	---	---	NS	NS
Benzo (a) pyrene	---	---	---	0.5	---	---	---	---	---	---	0.2	0.02
Dibenzo (a,h) anthracene	---	---	---	1	---	---	---	---	---	---	NS	NS
Benzo (g,h,i) perylene	---	---	---	0.9	---	---	---	---	---	---	NS	NS
Indeno (1,2,3-cd) pyrene	---	---	---	13	---	---	---	---	---	---	NS	NS
Naphthalene	---	---	---	<1.8	---	---	---	---	---	---	40	8
Biofeasibility Parameters												
Dissolved Oxygen (mg/l)	---	---	---	---	---	---	0.60	0.3	0.35	1.15	NS	NS
Redox Potential (millivolts)	---	---	---	---	---	---	95.7	32.4	70.4	91.7	NS	NS
Ferrous Iron (mg/l)	---	---	---	---	---	---	0.0	0.2	0.0	---	NS	NS
Manganese, Dissolved	---	---	---	---	---	---	530	480	330	---	NS	NS
Sulfate (mg/l)	---	---	---	---	---	---	79	130	150	---	NS	NS
Nitrate + Nitrite (mg/l)	---	---	---	---	---	---	<0.026	<0.09	<0.015	---	NS	NS
Alkalinity as $CaCO_3$ (mg/l)	---	---	---	---	---	---	510	---	---	---	NS	NS
Total Organic Carbon (mg/l)	---	---	---	---	---	---	16	---	---	---	NS	NS
Methane	---	---	---	---	---	---	8.1	---	---	---	NS	NS
Total Heterotrophic Count (cfu/ml)	---	---	---	---	---	---	---	---	---	---	NS	NS
Total HC Degrader Count (cfu/ml)	---	---	---	---	---	---	---	---	---	---	NS	NS

Notes:
1. Concentrations expressed in micrograms per liter (µg/l) unless noted
2. ft btc = feet below top of casing
3. --- = Not analyzed
4. ND = Not Detected
5. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
6. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
7. NS = No Standard established
8. L = Lab reported low levels of toluene detected in samples (including trip blank at 17 µg/l) due to label printer using toluene to clean printing plates.
9. A = Analyte present in blank at 0.041 mg/L.
10. Exceedances ***bold, italics*** = Concentration exceeds NR 140 PAL
    bold, box = Concentration exceeds NR 140 ES
11. * = Well screen submerged under groundwater table

Table 2
Groundwater Quality Results
Speedway Station #2121 - 4265 S. 60th Street, Greenfield, Wisconsin
Sigma Project #5700

Parameter	MW-2															NR 140 ES	NR 140 PAL
	03/06/91*	05/20/91*	08/07/92*	11/04/94*	03/07/96	09/24/96	05/08/97	02/02/98*	08/24/99*	12/01/99*	03/02/00*	06/12/00*	03/26/01*	09/06/01*	03/29/02*		
Depth to Water (ft btc)	3.57	3.17	2.82	5.27	---	---	---	3.30	3.11	4.24	3.10	2.82	3.08	3.30	3.95		
Gasoline Range Organics (mg/l)	---	---	15	14	14	8.5	15	16	---	---	---	---	---	---	---	NS	NS
Diesel Rrange Organics (mg/l)	---	---	---	1.0	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Dissolved Lead (mg/l)	---	---	<0.004	0.004	---	---	---	---	---	---	---	---	---	---	---	0.015	0.0015
PVOCs and Detected VOCs																	
Benzene	**190**	**270**	**760**	**1,200**	**930**	**880**	**1,000**	**940**	**740**	**750**	**690**	**780**	**640**	**620**	**460**	5.0	0.5
Toluene	16	120	120	54	83	<68	96	60	42	37	50	43	59	38	43	1,000	200
Ethylbenzene	<1.0	**190**	**750**	**1,400**	**1,300**	**1,200**	**1,600**	**1,500**	**1,400**	**1,400**	**1,300**	**1,300**	**1,400**	**990**	**1,500**	700	140
Total Xylenes	***1,100***	700	760	***2,432***	***2,081***	***1,600***	***2,310***	***1,561***	***1,346***	***1,252***	***1,280***	***1,270***	***1,473***	837	***1,449***	10,000	1,000
Methyl tert butyl-ether	---	---	**63**	11	***22***	<78	***58***	***21***	***13***	11	<2.2	***48***	***14***	***31***	<13	60	12
Trimethylbenzenes	---	---	**514**	**1,500**	**1,450**	**1,130**	**1,580**	**1,460**	**1,398**	**1,262**	**1,257**	**1,375**	**1,485**	**879**	**1,568**	480	96
Naphthalene	---	---	<10	**220**	---	---	---	---	---	---	---	---	---	---	---	40	8
Isopropylbenzene	---	---	33	35	---	---	---	---	---	---	---	---	---	---	---	NS	NS
p-Isopropyltoluene	---	---	<10	3.0	---	---	---	---	---	---	---	---	---	---	---	NS	NS
n-Propylbenzene	---	---	<10	83	---	---	---	---	---	---	---	---	---	---	---	NS	NS
n-Butylbenzene	---	---	<10	120	---	---	---	---	---	---	---	---	---	---	---	NS	NS
sec-Butylbenzene	---	---	<10	<0.2	---	---	---	---	---	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	---	---	<10	<0.6	---	---	---	---	---	---	---	---	---	---	---	NS	NS
1,2,4-Trichlorobenzene	---	---	<10	***28***	---	---	---	---	---	---	---	---	---	---	---	70	14
Methylene Chloride	---	---	<10	<0.8	---	---	---	---	---	---	---	---	---	---	---	5.0	0.5
Tetrachloroethene	---	---	**19**	<0.3	---	---	---	---	---	---	---	---	---	---	---	5.0	0.5
1,2-Dibromomethane	---	---	<10	<0.8												0.05	0.005
Styrene	---	---	<10	---												100	10
Bromobenzene	---	---	34	<0.3	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Diisopropylether	---	---	68	<1.0	---	---	---	---	---	---	---	---	---	---	---	NS	NS
PAHs																	
Fluorene	---	---	---	3	---	---	---	2.2	---	---	---	---	---	---	---	400	80
Phenanthrene	---	---	---	<3.0	---	---	---	4	---	---	---	---	---	---	---	NS	NS
Fluoranthene	---	---	---	<1.0	---	---	---	<0.22	---	---	---	---	---	---	---	400	80
1-Methyl Naphthalene	---	---	---	27	---	---	---	22	---	---	---	---	---	---	---	NS	NS
Pyrene	---	---	---	<1.0	---	---	---	<0.2	---	---	---	---	---	---	---	250	50
Acenaphthalene	---	---	---	43	---	---	---	<10	---	---	---	---	---	---	---	NS	NS
Chrysene	---	---	---	<0.75	---	---	---	<0.26	---	---	---	---	---	---	---	0.2	0.02
Benzo (a) anthracene	---	---	---	<0.065	---	---	---	<0.22	---	---	---	---	---	---	---	NS	NS
Benzo (b) fluoranthene	---	---	---	<0.09	---	---	---	<0.2	---	---	---	---	---	---	---	0.2	0.02
Benzo (k) fluoranthene	---	---	---	<0.065	---	---	---	<0.16	---	---	---	---	---	---	---	NS	NS
Benzo (a) pyrene	---	---	---	<0.12	---	---	---	<0.22	---	---	---	---	---	---	---	0.2	0.02
Dibenzo (a,h) anthracene	---	---	---	<0.16	---	---	---	<0.24	---	---	---	---	---	---	---	NS	NS
Benzo (g,h,i) perylene	---	---	---	<0.38	---	---	---	<0.22	---	---	---	---	---	---	---	NS	NS
Indeno (1,2,3-cd) pyrene	---	---	---	<0.22	---	---	---	<0.24	---	---	---	---	---	---	---	NS	NS
Naphthalene	---	---	---	**93**	---	---	---	**89**	---	---	---	---	---	---	---	40	8
Biofeasibility Parameters																	
Dissolved Oxygen (mg/l)	---	---	---	---	---	---	---	0.66	0.35	0.20	1.76	1.31	0.28	0.79	0.81	NS	NS
Redox Potential (millivolts)	---	---	---	---	---	---	---	-32.7	-36.8	-48.6	---	-24.5	-54.9	-59.5	-68.4	NS	NS
Ferrous Iron (mg/l)	---	---	---	---	---	---	---	3.2	3.4	2.0	4.8	2.8	5.2	2.2	---	NS	NS
Manganese, Dissolved	---	---	---	---	---	---	---	860	740	780	740	720	840	990	---	NS	NS
Sulfate (mg/l)	---	---	---	---	---	---	---	7.9	<0.062	<0.13	5.9	0.26	1.1	3.0	---	NS	NS
Nitrate + Nitrite (mg/l)	---	---	---	---	---	---	---	0.047	<0.09	0.06	0.98	<0.08	<0.015	0.044A	---	NS	NS
Alkalinity as $CaCO_3$ (mg/l)	---	---	---	---	---	---	---	460	---	---	---	---	---	---	---	NS	NS
Total Organic Carbon (mg/l)	---	---	---	---	---	---	---	50	---	---	---	---	---	---	---	NS	NS
Methane	---	---	---	---	---	---	---	9,100	---	---	---	---	---	---	---	NS	NS
Total Heterotrophic Count (cfu/ml)	---	---	---	---	---	---	---	2.4E+06	---	---	---	---	---	---	---	NS	NS
Total HC Degrader Count (cfu/ml)	---	---	---	---	---	---	---	9.9E+04	---	---	---	---	---	---	---	NS	NS

Notes:
1. Concentrations expressed in micrograms per liter (µg/l) unless noted
2. ft btc = feet below top of casing
3. --- = Not analyzed
4. ND = Not Detected
5. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
6. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
7. NS = No Standard established
8. L = Lab reported low levels of toluene detected in samples (including trip blank at 17 µg/l) due to label printer using toluene to clean printing plates
9. A = Analyte present in blank at 0.041 mg/L
10. Exceedances ***bold, italics*** = Concentration exceeds NR 140 PAL
    bold, box = Concentration exceeds NR 140 ES
11. * = Well screen submerged under groundwater table

Table 2
Groundwater Quality Results
Speedway Station #2121 - 4265 S. 60th Street, Greenfield, Wisconsin
Sigma Project #5700

Parameter	MW-3															NR 140 ES	NR 140 PAL
	03/06/91	05/20/91*	08/07/92	11/04/91*	03/07/96	09/24/96	05/08/97	02/02/98	08/24/99*	12/01/99	03/02/00*	06/12/00	03/26/01*	09/06/01	03/29/02*		
	14.08	3.81	8.62	3.75	---	---	---	6.95	3.71	7.31	4.00	8.18	3.30	8.68	3.65		
Gasoline Range Organics (mg/l)	---	---	0.49	<0.1	<0.1	<0.1	<0.05	<0.05	---	---	---	---	---	---	---	NS	NS
Diesel Range Organics (mg/l)	---	---	---	<0.1	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Dissolved Lead (mg/l)	---	---	<0.004	0.002	---	---	---	---	---	---	---	---	---	---	---	0.015	0.0015
PVOCs and Detected VOCs																	
Benzene	<1.0	<1.0	***2.8***	<2.0	<0.8	<0.8	<0.20	***3.4***	<0.26	<0.27	***0.57***	0.26	<0.35	<0.45	<0.48	5.0	0.5
Toluene	<1.0	5.0	<1.0	<2.0	<1.4	<1.4	<0.40	<0.36	1.8L	<0.27	<0.21	<0.21	<0.38	<0.68	<0.47	1,000	200
Ethylbenzene	<1.0	<1.0	2.2	<2.0	<1.8	<1.8	<0.30	0.41	<0.24	<0.32	<0.24	<0.24	<0.37	<0.82	<0.43	700	140
Total Xylenes	2.0	<1.0	<1.0	<4.0	<5.6	<5.6	<1.10	<1.15	<1.34	<0.67	<1.34	<1.34	<1.14	<2.47	<1.94	10,000	1,000
Methyl tert butyl-ether	---	---	8.4	<8.0	***14***	***14***	***19***	***22***	***26***	***22***	***31***	***28***	***26***	***25***	10	60	12
Trimethylbenzenes	---	---	<2.0	<0.7	<3.7	<3.7	<0.60	0.39	<1.4	<0.49	<1.4	<1.4	<0.74	<1.86	<1.03	480	96
Naphthalene	---	---	<1.0	<0.6	---	---	---	---	---	---	---	---	---	---	---	40	8
Isopropylbenzene	---	---	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	NS	NS
p-Isopropyltoluene	---	---	<1.0	<0.1	---	---	---	---	---	---	---	---	---	---	---	NS	NS
n-Propylbenzene	---	---	<1.0	<0.1	---	---	---	---	---	---	---	---	---	---	---	NS	NS
n-Butylbenzene	---	---	<1.0	<0.2	---	---	---	---	---	---	---	---	---	---	---	NS	NS
sec-Butylbenzene	---	---	<1.0	<0.2	---	---	---	---	---	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	---	---	<1.0	<0.6	---	---	---	---	---	---	---	---	---	---	---	NS	NS
1,2,4-Trichlorobenzene	---	---	<1.0	<0.3	---	---	---	---	---	---	---	---	---	---	---	70	14
Methylene Chloride	---	---	<1.0	<0.8	---	---	---	---	---	---	---	---	---	---	---	5.0	0.5
Tetrachloroethene	---	---	<1.0	<0.3	---	---	---	---	---	---	---	---	---	---	---	5.0	0.5
1,2-Dibromomethane	---	---	<1.0	<0.8												0.05	0.005
Styrene	---	---	<1.0	---												100	10
Bromobenzene	---	---	<1.0	<0.3	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Diisopropylether	---	---	3.9	<1.0	---	---	---	---	---	---	---	---	---	---	---	NS	NS
PAHs																	
Fluorene	---	---	---	0.5	---	---	---	---	---	---	---	---	---	---	---	400	80
Phenanthrene	---	---	---	<0.64	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Fluoranthene	---	---	---	<0.21	---	---	---	---	---	---	---	---	---	---	---	400	80
1-Methyl Naphthalene	---	---	---	<1.8	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Pyrene	---	---	---	<0.27	---	---	---	---	---	---	---	---	---	---	---	250	50
Acenaphthalene	---	---	---	<2.3	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Chrysene	---	---	---	<0.15	---	---	---	---	---	---	---	---	---	---	---	0.2	0.02
Benzo (a) anthracene	---	---	---	<0.013	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Benzo (b) fluoranthene	---	---	---	<0.018	---	---	---	---	---	---	---	---	---	---	---	0.2	0.02
Benzo (k) fluoranthene	---	---	---	<0.017	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Benzo (a) pyrene	---	---	---	<0.023	---	---	---	---	---	---	---	---	---	---	---	0.2	0.02
Dibenzo (a,h) anthracene	---	---	---	<0.033	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Benzo (g,h,i) perylene	---	---	---	<0.076	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Indeno (1,2,3-cd) pyrene	---	---	---	<0.043	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Naphthalene	---	---	---	<1.8	---	---	---	---	---	---	---	---	---	---	---	40	8
Biofeasibility Parameters																	
Dissolved Oxygen (mg/l)	---	---	---	---	---	---	---	0.38	0.44	1.22	0.95	2.75	0.3	0.99	0.39	NS	NS
Redox Potential (millivolts)	---	---	---	---	---	---	---	39.8	15.9	27.4	---	126.3	27.2	64.6	-54.2	NS	NS
Ferrous Iron (mg/l)	---	---	---	---	---	---	---	1.5	0.0	0.0	3.0	0.2	0	0.4	---	NS	NS
Manganese, Dissolved	---	---	---	---	---	---	---	1,100	910	840	1,400	670	940	720	---	NS	NS
Sulfate (mg/l)	---	---	---	---	---	---	---	41	51	48	56	44	68	61	---	NS	NS
Nitrate +Nitrite (mg/l)	---	---	---	---	---	---	---	<0.026	<0.09	<0.037	0.92	<0.08	0.032	0.019A	---	NS	NS
Alkalinity as $CaCO_3$ (mg/l)	---	---	---	---	---	---	---	480	---	---	---	---	---	---	---	NS	NS
Total Organic Carbon (mg/l)	---	---	---	---	---	---	---	26	---	---	---	---	---	---	---	NS	NS
Methane	---	---	---	---	---	---	---	56	---	---	---	---	---	---	---	NS	NS
Total Heterotrophic Count (cfu/ml)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Total HC Degrader Count (cfu/ml)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	NS	NS

Notes:
1. Concentrations expressed in micrograms per liter (µg/l) unless noted
2. ft btc = feet below top of casing
3. --- = Not analyzed
4. ND = Not Detected
5. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
6. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
7. NS = No Standard established
8. L = Lab reported low levels of toluene detected in samples (including trip blank at 17 µg/l) due to label printer using toluene to clean printing plates.
9. A = Analyte present in blank at 0.041 mg/L
10. Exceedances ***bold, italics*** = Concentration exceeds NR 140 PAL
    bold, box = Concentration exceeds NR 140 ES
11. * = Well screen submerged under groundwater table

Table 2
Groundwater Quality Results
Speedway Station #2121 - 4265 S. 60th Street, Greenfield, Wisconsin
Sigma Project #5700

Parameter	MW-4								NR 140 ES	NR 140 PAL
	08/07/92	11/04/94*	03/07/96	09/24/96	05/08/97	02/02/98*	08/24/99*	03/26/01*		
	8.68	4.64	---	---	---	4.20	4.67	3.94		
Gasoline Range Organics (mg/l)	0.43	<0.1	<0.1	<0.1	<0.05	<0.05	---	---	NS	NS
Diesel Rrange Organics (mg/l)	---	0.13	---	---	---	---	---	---	NS	NS
Dissolved Lead (mg/l)	<0.004	0.002	---	---	---	---	---	---	0.015	0.0015
PVOCs and Detected VOCs										
Benzene	<1.0	<2.0	<0.8	<0.8	<0.20	<0.16	<0.26	<0.35	5.0	0.5
Toluene	<1.0	<2.0	<1.4	<1.4	<0.40	<0.36	1.7L	<0.38	1,000	200
Ethylbenzene	<1.0	<2.0	<1.8	<1.8	<0.30	<0.29	<0.24	<0.37	700	140
Total Xylenes	<1.0	<4.0	<5.6	<5.6	<1.10	<1.15	<1.34	<1.14	10,000	1,000
Methyl tert butyl-ether	3.7	<8.0	<1.6	<1.6	<0.20	<0.2	<0.22	<0.36	60	12
Trimethylbenzenes	<2.0	<0.7	<3.7	<3.7	<0.60	0.4	<1.4	<0.74	480	96
Naphthalene	<1.0	<0.6	---	---	---	---	---	---	40	8
Isopropylbenzene	<1.0	<2.0	---	---	---	---	---	---	NS	NS
p-Isopropyltoluene	<1.0	<0.1	---	---	---	---	---	---	NS	NS
n-Propylbenzene	<1.0	<0.1	---	---	---	---	---	---	NS	NS
n-Butylbenzene	<1.0	<0.2	---	---	---	---	---	---	NS	NS
sec-Butylbenzene	<1.0	<0.2	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	<1.0	<0.6	---	---	---	---	---	---	NS	NS
1,2,4-Trichlorobenzene	<1.0	<0.3	---	---	---	---	---	---	70	14
Methylene Chloride	<1.0	<0.8	---	---	---	---	---	---	5.0	0.5
Tetrachloroethene	<1.0	<0.3	---	---	---	---	---	---	5.0	0.5
1,2-Dibromomethane	<1.0	<0.8							0.05	0.005
Styrene	<1.0	---							100	10
Bromobenzene	<1.0	<0.3	---	---	---	---	---	---	NS	NS
Diisopropylether	3.7	<1.0	---	---	---	---	---	---	NS	NS
PAHs										
Fluorene	---	<0.21	---	---	---	---	---	---	400	80
Phenanthrene	---	<0.64	---	---	---	---	---	---	NS	NS
Fluoranthene	---	<0.21	---	---	---	---	---	---	400	80
1-Methyl Naphthalene	---	<1.8	---	---	---	---	---	---	NS	NS
Pyrene	---	<0.27	---	---	---	---	---	---	250	50
Acenaphthalene	---	<2.3	---	---	---	---	---	---	NS	NS
Chrysene	---	**0.2**	---	---	---	---	---	---	0.2	0.02
Benzo (a) anthracene	---	0.2	---	---	---	---	---	---	NS	NS
Benzo (b) fluoranthene	---	***0.1***	---	---	---	---	---	---	0.2	0.02
Benzo (k) fluoranthene	---	0.04	---	---	---	---	---	---	NS	NS
Benzo (a) pyrene	---	***0.08***	---	---	---	---	---	---	0.2	0.02
Dibenzo (a,h) anthracene	---	<0.033	---	---	---	---	---	---	NS	NS
Benzo (g,h,i) perylene	---	0.1	---	---	---	---	---	---	NS	NS
Indeno (1,2,3-cd) pyrene	---	<0.043	---	---	---	---	---	---	NS	NS
Naphthalene	---	<1.8	---	---	---	---	---	---	40	8
Biofeasibility Parameters										
Dissolved Oxygen (mg/l)	---	---	---	---	---	8.75	0.46	0.35	NS	NS
Redox Potential (millivolts)	---	---	---	---	---	---	---	-67.1	NS	NS
Ferrous Iron (mg/l)	---	---	---	---	---	0.0	0.2	5.0	NS	NS
Manganese, Dissolved	---	---	---	---	---	160	190	410	NS	NS
Sulfate (mg/l)	---	---	---	---	---	130	130	56	NS	NS
Nitrate +Nitrite (mg/l)	---	---	---	---	---	0.035	<0.09	<0.015	NS	NS
Alkalinity as $CaCO_3$ (mg/l)	---	---	---	---	---	630	---	---	NS	NS
Total Organic Carbon (mg/l)	---	---	---	---	---	5.1	---	---	NS	NS
Methane	---	---	---	---	---	2.3	---	---	NS	NS
Total Heterotrophic Count (cfu/ml)	---	---	---	---	---	---	---	---	NS	NS
Total HC Degrader Count (cfu/ml)	---	---	---	---	---	---	---	---	NS	NS

Notes:
1. Concentrations expressed in micrograms per liter (µg/l) unless noted
2. ft btc = feet below top of casing
3. --- = Not analyzed
4. ND = Not Detected
5. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
6. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
7. NS = No Standard established
8. L = Lab reported low levels of toluene detected in samples (including trip blank at 17 µg/l) due to label printer using toluene to clean printi
9. A = Analyte present in blank at 0.041 mg/L.
10. Exceedances ***bold, italics*** = Concentration exceeds NR 140 PAL
    bold, box = Concentration exceeds NR 140 ES
11. * = Well screen submerged under groundwater table

Table 2
Groundwater Quality Results
Speedway Station #2121 - 4265 S. 60th Street, Greenfield, Wisconsin
Sigma Project #5700

Parameter	Sample Location/Date													NR 140 ES	NR 140 PAL
	MW-5														
	08/07/92	11/04/94	03/07/96	09/24/96	05/08/97	02/02/98*	08/24/99*	12/01/99	03/02/00*	06/12/00*	03/28/01*	09/06/01*	03/29/02		
	6.92	5.70	---	---	---	4.28	4.40	5.17	3.77	3.42	3.46	3.46	5.45		
Gasoline Range Organics (mg/l)	7.1	3	4.9	2.2	2.1	4.9	---	---	---	---	---	---	---	NS	NS
Diesel Rrange Organics (mg/l)	---	0.66	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Dissolved Lead (mg/l)	<0.004	0.002	---	---	---	---	---	---	---	---	---	---	---	0.015	0.0015
PVOCs and Detected VOCs															
Benzene	85	50	56	38	17	85	36	54	26	50	22	26	49	5.0	0.5
Toluene	<50	10	58	6.4	13	12	15L	6.9	1.0	16	2.0	3.1	21	1,000	200
Ethylbenzene	700	*320*	*360*	*200*	*160*	*350*	100	*270*	11	22	9.0	39	120	700	140
Total Xylenes	750	196	586	164	171	191	112	55.6	7.8	14.5	5.3	10.2	238	10,000	1,000
Methyl tert butyl-ether	<50	<8.0	68	*45*	*14*	*34*	6.8	6.8	*46*	*17*	7.1	4.4	7.9	60	12
Trimethylbenzenes	60	67	*351*	*100*	*136.6*	*169.3*	49.1	17	8.5	9.1	3.2	3.5	59.4	480	96
Naphthalene	430	550	---	---	---	---	---	---	---	---	---	---	---	40	8
Isopropylbenzene	85	70	---	---	---	---	---	---	---	---	---	---	---	NS	NS
p-Isopropyltoluene	210	1.0	---	---	---	---	---	---	---	---	---	---	---	NS	NS
n-Propylbenzene	<50	150	---	---	---	---	---	---	---	---	---	---	---	NS	NS
n-Butylbenzene	80	33	---	---	---	---	---	---	---	---	---	---	---	NS	NS
sec-Butylbenzene	<50	12	---	---	---	---	---	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	60	2	---	---	---	---	---	---	---	---	---	---	---	NS	NS
1,2,4-Trichlorobenzene	<50	*30*	---	---	---	---	---	---	---	---	---	---	---	70	14
Methylene Chloride	<50	<0.8	---	---	---	---	---	---	---	---	---	---	---	5.0	0.5
Tetrachloroethene	<50	<0.3	---	---	---	---	---	---	---	---	---	---	---	5.0	0.5
1,2-Dibromomethane	<50	<0.8												0.05	0.005
Styrene	<50	---												100	10
Bromobenzene	<50	<0.3	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Diisopropylether	<50	<1.0	---	---	---	---	---	---	---	---	---	---	---	NS	NS
PAHs															
Fluorene	---	2	---	---	---	3.4	---	---	---	---	---	---	---	400	80
Phenanthrene	---	<3.0	---	---	---	2.2	---	---	---	---	---	---	---	NS	NS
Fluoranthene	---	<1.0	---	---	---	0.091	---	---	---	---	---	---	---	400	80
1-Methyl Naphthalene	---	34	---	---	---	52	---	---	---	---	---	---	---	NS	NS
Pyrene	---	<1.0	---	---	---	0.068	---	---	---	---	---	---	---	250	50
Acenaphthalene	---	30	---	---	---	1.7	---	---	---	---	---	---	---	NS	NS
Chrysene	---	<0.25	---	---	---	<0.013	---	---	---	---	---	---	---	0.2	0.02
Benzo (a) anthracene	---	<0.065	---	---	---	<0.011	---	---	---	---	---	---	---	NS	NS
Benzo (b) fluoranthene	---	<0.09	---	---	---	<0.010	---	---	---	---	---	---	---	0.2	0.02
Benzo (k) fluoranthene	---	<0.085	---	---	---	<0.008	---	---	---	---	---	---	---	NS	NS
Benzo (a) pyrene	---	<0.12	---	---	---	<0.011	---	---	---	---	---	---	---	0.2	0.02
Dibenzo (a,h) anthracene	---	<0.16	---	---	---	<0.012	---	---	---	---	---	---	---	NS	NS
Benzo (g,h,i) perylene	---	<0.38	---	---	---	<0.011	---	---	---	---	---	---	---	NS	NS
Indeno (1,2,3-cd) pyrene	---	<0.22	---	---	---	<0.012	---	---	---	---	---	---	---	NS	NS
Naphthalene	---	70	---	---	---	230	---	---	---	---	---	---	---	40	8
Biofeasibility Parameters															
Dissolved Oxygen (mg/l)	---	---	---	---	---	0.42	0.52	0.24	2.10	1.21	0.28	0.28	1.8	NS	NS
Redox Potential (millivolts)	---	---	---	---	---	-10.6	-103.5	-84.8	---	-68.9	-50.9	-91.6	-36.2	NS	NS
Ferrous Iron (mg/l)	---	---	---	---	---	4.1	---	2.4	3.0	3.0	4.2	2.2	---	NS	NS
Manganese, Dissolved	---	---	---	---	---	360	190	140	240	250	240	130	---	NS	NS
Sulfate (mg/ll)	---	---	---	---	---	21	2.1	12	55	14	29	20	---	NS	NS
Nitrate +Nitrite (mg/l)	---	---	---	---	---	0.037	<0.09	0.069	0.15	<0.08	0.02	0.025	---	NS	NS
Alkalinity as $CaCO_3$ (mg/l)	---	---	---	---	---	630	---	---	---	---	---	---	---	NS	NS
Total Organic Carbon (mg/l)	---	---	---	---	---	15	---	---	---	---	---	---	---	NS	NS
Methane	---	---	---	---	---	12,000	---	---	---	---	---	---	---	NS	NS
Total Heterotrophic Count (cfu/ml)	---	---	---	---	---	1.5E+05	---	---	---	---	---	---	---	NS	NS
Total HC Degrader Count (cfu/ml)	---	---	---	---	---	4.8E+04	---	---	---	---	---	---	---	NS	NS

Notes:
1. Concentrations expressed in micrograms per liter (µg/l) unless noted
2. ft btc = feet below top of casing
3. --- = Not analyzed
4. ND = Not Detected
5. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
6. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
7. NS = No Standard established
8. L = Lab reported low levels of toluene detected in samples (including trip blank at 17 µg/l) due to label printer using toluene to clean printing plates.
9. A = Analyte present in blank at 0.041 mg/L.
10. Exceedances *bold, italics* = Concentration exceeds NR 140 PAL
    bold, box = Concentration exceeds NR 140 ES
11. * = Well screen submerged under groundwater table

Table 2
Groundwater Quality Results
Speedway Station #2121 - 4265 S. 60th Street, Greenfield, Wisconsin
Sigma Project #5700

Parameter	MW-6												NR 140 ES	NR 140 PAL
	11/04/94	03/07/96	09/24/96	05/08/97	02/02/98*	08/24/99*	12/01/99*	03/02/00*	06/12/00*	03/26/01*	09/06/01*	03/29/02*		
	4.16	---	---	---	4.00	3.22	4.00	4.05	3.22	3.44	3.10	4.05		
Gasoline Range Organics (mg/l)	0.23	0.14	<0.1	0.12	0.14	---	---	---	---	---	---	---	NS	NS
Diesel Rrange Organics (mg/l)	0.21	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Dissolved Lead (mg/l)	0.001	---	---	---	---	---	---	---	---	---	---	---	0.015	0.0015
PVOCs and Detected VOCs														
Benzene	<2.0	<0.8	<0.8	<0.40	<0.32	<0.65	<0.27	***0.87***	***0.53***	<0.35	<0.45	<0.48	5.0	0.5
Toluene	<2.0	<1.4	<1.4	<0.80	<0.72	4.8L	<0.27	<0.42	<0.21	<0.38	<0.68	<0.47	1,000	200
Ethylbenzene	15	<1.8	<1.8	<0.60	<0.58	<0.60	<0.32	<0.48	<0.24	<0.37	<0.82	<0.43	700	140
Total Xylenes	<4.0	<5.6	<5.6	<2.20	<2.32	<3.32	<0.67	<2.64	<1.34	<1.14	<2.47	<1.94	10,000	1,000
Methyl tert butyl-ether	**350**	**240**	**200**	**220**	**230**	**250**	**180**	**210**	**160**	**200**	**110**	**200**	60	12
Trimethylbenzenes	1	<3.7	<3.7	<1.20	<1.28	<3.5	<0.49	<2.8	<1.40	<0.74	<1.86	<1.03	480	96
Naphthalene	<0.6	---	---	---	---	---	---	---	---	---	---	---	40	8
Isopropylbenzene	<2.0	---	---	---	---	---	---	---	---	---	---	---	NS	NS
p-Isopropyltoluene	<0.1	---	---	---	---	---	---	---	---	---	---	---	NS	NS
n-Propylbenzene	1	---	---	---	---	---	---	---	---	---	---	---	NS	NS
n-Butylbenzene	<0.2	---	---	---	---	---	---	---	---	---	---	---	NS	NS
sec-Butylbenzene	<0.2	---	---	---	---	---	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	<0.6	---	---	---	---	---	---	---	---	---	---	---	NS	NS
1,2,4-Trichlorobenzene	<0.3	---	---	---	---	---	---	---	---	---	---	---	70	14
Methylene Chloride	<0.8	---	---	---	---	---	---	---	---	---	---	---	5.0	0.5
Tetrachloroethene	<0.3	---	---	---	---	---	---	---	---	---	---	---	5.0	0.5
1,2-Dibromomethane	<0.8												0.05	0.005
Styrene	---												100	10
Bromobenzene	<0.3	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Diisopropylether	<1.0	---	---	---	---	---	---	---	---	---	---	---	NS	NS
PAHs														
Fluorene	<0.21	---	---	---	---	---	---	---	---	---	---	---	400	80
Phenanthrene	<0.64	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Fluoranthene	<0.21	---	---	---	---	---	---	---	---	---	---	---	400	80
1-Methyl Naphthalene	<1.8	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Pyrene	<0.27	---	---	---	---	---	---	---	---	---	---	---	250	50
Acenaphthalene	<2.3	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Chrysene	<0.15	---	---	---	---	---	---	---	---	---	---	---	0.2	0.02
Benzo (a) anthracene	<0.013	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Benzo (b) fluoranthene	<0.018	---	---	---	---	---	---	---	---	---	---	---	0.2	0.02
Benzo (k) fluoranthene	<0.017	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Benzo (a) pyrene	<0.023	---	---	---	---	---	---	---	---	---	---	---	0.2	0.02
Dibenzo (a,h) anthracene	<0.033	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Benzo (g,h,i) perylene	<0.076	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Indeno (1,2,3-cd) pyrene	<0.043	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Naphthalene	<1.8	---	---	---	---	---	---	---	---	---	---	---	40	8
Biofeasibility Parameters														
Dissolved Oxygen (mg/l)	---	---	---	---	2.49	1.13	1.58	1.15	1.62	0.22	0.56	0.79	NS	NS
Redox Potential (millivolts)	---	---	---	---	55.3	-38.8	65.0	---	81.4	62.2	89.1	95.1	NS	NS
Ferrous Iron (mg/l)	---	---	---	---	2.5	1.4	0.0	0.0	1.2	2.8	0.2	---	NS	NS
Manganese, Dissolved	---	---	---	---	370	230	370	250	320	280	250	---	NS	NS
Sulfate (mg/l)	---	---	---	---	41	41	48	48	42	43	52	---	NS	NS
Nitrate +Nitrite (mg/l)	---	---	---	---	<0.026	<0.09	0.052	0.99	<0.08	<0.015	0.039A	---	NS	NS
Alkalinity as $CaCO_3$ (mg/l)	---	---	---	---	530	---	---	---	---	---	---	---	NS	NS
Total Organic Carbon (mg/l)	---	---	---	---	3.1	---	---	---	---	---	---	---	NS	NS
Methane	---	---	---	---	150	---	---	---	---	---	---	---	NS	NS
Total Heterotrophic Count (cfu/ml)	---	---	---	---	9.5E+04	---	---	---	---	---	---	---	NS	NS
Total HC Degrader Count (cfu/ml)	---	---	---	---	6.7E+02	---	---	---	---	---	---	---	NS	NS

Notes:
1. Concentrations expressed in micrograms per liter (µg/l) unless noted
2. ft btc = feet below top of casing
3. --- = Not analyzed
4. ND = Not Detected
5. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
6. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
7. NS = No Standard established
8. L = Lab reported low levels of toluene detected in samples (including trip blank at 17 µg/l) due to label printer using toluene to clean printing plates.
9. A = Analyte present in blank at 0.041 mg/L
10. Exceedances ***bold, italics*** = Concentration exceeds NR 140 PAL
    bold, box = Concentration exceeds NR 140 ES
11. * = Well screen submerged under groundwater table

Table 2
Groundwater Quality Results
Speedway Station #2121 - 4265 S. 60th Street, Greenfield, Wisconsin
Sigma Project #5700

Parameter	MW-7									NR 140 ES	NR 140 PAL
	08/07/92	11/04/94*	03/07/96	09/24/96	05/08/97	02/02/98*	08/24/99*	03/26/01*	03/29/02*		
	14.61	4.37	---	---	---	5.87	3.41	4.62	5.3		
Gasoline Range Organics (mg/l)	0.45	<0.1	<0.1	<0.1	<0.05	<0.05	---	---	---	NS	NS
Diesel Rrange Organics (mg/l)	---	0.14	---	---	---	---	---	---	---	NS	NS
Dissolved Lead (mg/l)	<0.004	0.001	---	---	---	---	---	---	---	0.015	0.0015
PVOCs and Detected VOCs											
Benzene	<1.0	<2.0	<0.8	<0.8	<0.20	<0.16	<0.26	<0.35	<0.48	5.0	0.5
Toluene	<1.0	<2.0	<1.4	<1.4	<0.40	<0.36	1.7L	<0.38	<0.47	1,000	200
Ethylbenzene	<1.0	<2.0	<1.8	<1.8	<0.30	<0.29	<0.24	<0.37	<0.43	700	140
Total Xylenes	<1.0	<4.0	<5.6	<5.6	<1.10	<1.15	<1.34	<1.14	<1.94	10,000	1,000
Methyl tert butyl-ether	<1.0	<8.0	<1.6	<1.6	<0.20	<0.20	<0.22	<0.36	<0.67	60	12
Trimethylbenzenes	<2.0	<0.7	<3.7	<3.7	<0.60	<0.64	<1.4	<0.74	<1.03	480	96
Naphthalene	<1.0	<0.6	---	---	---	---	---	---	---	40	8
Isopropylbenzene	<1.0	<2.0	---	---	---	---	---	---	---	NS	NS
p-Isopropyltoluene	<1.0	<0.1	---	---	---	---	---	---	---	NS	NS
n-Propylbenzene	<1.0	<0.1	---	---	---	---	---	---	---	NS	NS
n-Butylbenzene	<1.0	<0.2	---	---	---	---	---	---	---	NS	NS
sec-Butylbenzene	<1.0	<0.2	---	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	<1.0	<0.6	---	---	---	---	---	---	---	NS	NS
1,2,4-Trichlorobenzene	<1.0	<0.3	---	---	---	---	---	---	---	70	14
Methylene Chloride	<1.0	<0.8	---	---	---	---	---	---	---	5.0	0.5
Tetrachloroethene	<1.0	<0.3	---	---	---	---	---	---	---	5.0	0.5
1,2-Dibromomethane	1.1	<0.8								0.05	0.005
Styrene	1.0	---								100	10
Bromobenzene	<1.0	<0.3	---	---	---	---	---	---	---	NS	NS
Diisopropylether	<1.0	<1.0	---	---	---	---	---	---	---	NS	NS
PAHs											
Fluorene	---	<0.21	---	---	---	---	---	---	---	400	80
Phenanthrene	---	<0.64	---	---	---	---	---	---	---	NS	NS
Fluoranthene	---	<0.21	---	---	---	---	---	---	---	400	80
1-Methyl Naphthalene	---	<1.8	---	---	---	---	---	---	---	NS	NS
Pyrene	---	<0.27	---	---	---	---	---	---	---	250	50
Acenaphthalene	---	<2.3	---	---	---	---	---	---	---	NS	NS
Chrysene	---	<0.15	---	---	---	---	---	---	---	0.2	0.02
Benzo (a) anthracene	---	<0.013	---	---	---	---	---	---	---	NS	NS
Benzo (b) fluoranthene	---	<0.018	---	---	---	---	---	---	---	0.2	0.02
Benzo (k) fluoranthene	---	<0.017	---	---	---	---	---	---	---	NS	NS
Benzo (a) pyrene	---	<0.023	---	---	---	---	---	---	---	0.2	0.02
Dibenzo (a,h) anthracene	---	<0.033	---	---	---	---	---	---	---	NS	NS
Benzo (g,h,i) perylene	---	<0.076	---	---	---	---	---	---	---	NS	NS
Indeno (1,2,3-cd) pyrene	---	<0.043	---	---	---	---	---	---	---	NS	NS
Naphthalene	<1.0	<1.8	---	---	---	---	---	---	---	40	8
Biofeasibility Parameters											
Dissolved Oxygen (mg/l)	---	---	---	---	---	2.40	0.52	0.38	1.86	NS	NS
Redox Potential (millivolts)	---	---	---	---	---	244.7	80.0	85.2	56.1	NS	NS
Ferrous Iron (mg/l)	---	---	---	---	---	1.0	0.0	0.0	---	NS	NS
Manganese, Dissolved	---	---	---	---	---	210	40	11	---	NS	NS
Sulfate (mg/l)	---	---	---	---	---	110	120	100	---	NS	NS
Nitrate +Nitrite (mg/l)	---	---	---	---	---	<0.026	<0.09	0.015	---	NS	NS
Alkalinity as $CaCO_3$ (mg/l)	---	---	---	---	---	500	---	---	---	NS	NS
Total Organic Carbon (mg/l)	---	---	---	---	---	4.3	---	---	---	NS	NS
Methane	---	---	---	---	---	2.8	---	---	---	NS	NS
Total Heterotrophic Count (cfu/ml)	---	---	---	---	---	1.4E+04	---	---	---	NS	NS
Total HC Degrader Count (cfu/ml)	---	---	---	---	---	1.1E+04	---	---	---	NS	NS

Notes:
1. Concentrations expressed in micrograms per liter (µg/l) unless noted
2. ft btc = feet below top of casing
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4. ND = Not Detected
5. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
6. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
7. NS = No Standard established
8. L = Lab reported low levels of toluene detected in samples (including trip blank at 17 µg/l) due to label printer using toluene to clean printing plat
9. A = Analyte present in blank at 0.041 mg/L.
10. Exceedances ***bold, italics*** = Concentration exceeds NR 140 PAL
bold, box = Concentration exceeds NR 140 ES
11. * = Well screen submerged under groundwater table

Table 2
Groundwater Quality Results
Speedway Station #2121 - 4265 S. 60th Street, Greenfield, Wisconsin
Sigma Project #5700

Parameter	MW-8												NR 140 ES	NR 140 PAL
	11/04/94*	03/07/96	09/24/96	05/08/97	02/02/98*	08/24/99*	12/01/99*	03/02/00*	06/12/00*	03/26/01*	09/06/01*	03/29/02*		
	4.19	---	---	---	3.20	3.71	5.15	3.68	2.83	4.27	3.55	4.45		
Gasoline Range Organics (mg/l)	<0.1	<0.1	<0.1	<0.05	<0.05	---	---	---	---	---	---	---	NS	NS
Diesel Rrange Organics (mg/l)	<0.1	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Dissolved Lead (mg/l)	0.003	---	---	---	---	---	---	---	---	---	---	---	0.015	0.0015
PVOCs and Detected VOCs														
Benzene	<2.0	<0.8	<0.8	<0.20	<0.16	<0.26	<0.27	<0.26	<0.26	***0.63***	<0.45	<0.48	5.0	0.5
Toluene	<2.0	<1.4	<1.4	<0.40	<0.36	1.9L	<0.27	<0.21	<0.21	<0.38	<0.68	<0.47	1,000	200
Ethylbenzene	<2.0	<1.8	<1.8	<0.30	<0.29	<0.24	<0.32	<0.24	<0.24	<0.37	<0.82	<0.43	700	140
Total Xylenes	<4.0	<5.6	<5.6	<1.10	<1.15	<1.34	<0.67	<1.34	<1.34	<1.14	<2.47	<1.94	10,000	1,000
Methyl tert butyl-ether	<8.0	5.2	4.7	11	**70**	**150**	**93**	**92**	**88**	**68**	***48***	***14***	60	12
Trimethylbenzenes	<0.7	<3.7	<3.7	<0.60	<0.64	<0.86	<0.49	<1.4	<1.4	<0.74	<1.86	<1.03	480	96
Naphthalene	<0.6	---	---	---	---	---	---	---	---	---	---	---	40	8
Isopropylbenzene	<2.0	---	---	---	---	---	---	---	---	---	---	---	NS	NS
p-Isopropyltoluene	<0.1	---	---	---	---	---	---	---	---	---	---	---	NS	NS
n-Propylbenzene	<0.1	---	---	---	---	---	---	---	---	---	---	---	NS	NS
n-Butylbenzene	<0.2	---	---	---	---	---	---	---	---	---	---	---	NS	NS
sec-Butylbenzene	<0.2	---	---	---	---	---	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	<0.6	---	---	---	---	---	---	---	---	---	---	---	NS	NS
1,2,4-Trichlorobenzene	<0.3	---	---	---	---	---	---	---	---	---	---	---	70	14
Methylene Chloride	<0.8	---	---	---	---	---	---	---	---	---	---	---	5.0	0.5
Tetrachloroethene	<0.3	---	---	---	---	---	---	---	---	---	---	---	5.0	0.5
1,2-Dibromomethane	<0.8												0.05	0.005
Styrene	---												100	10
Bromobenzene	<0.3	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Diisopropylether	<1.0	---	---	---	---	---	---	---	---	---	---	---	NS	NS
PAHs														
Fluorene	<0.21	---	---	---	<0.061	---	---	---	---	---	---	---	400	80
Phenanthrene	<0.64	---	---	---	0.17	---	---	---	---	---	---	---	NS	NS
Fluoranthene	<0.21	---	---	---	0.37	---	---	---	---	---	---	---	400	80
1-Methyl Naphthalene	<1.8	---	---	---	<0.45	---	---	---	---	---	---	---	NS	NS
Pyrene	<0.27	---	---	---	0.3	---	---	---	---	---	---	---	250	50
Acenaphthalene	<2.3	---	---	---	<0.51	---	---	---	---	---	---	---	NS	NS
Chrysene	<0.15	---	---	---	***0.15***	---	---	---	---	---	---	---	0.2	0.02
Benzo (a) anthracene	0.1	---	---	---	0.054	---	---	---	---	---	---	---	NS	NS
Benzo (b) fluoranthene	***0.08***	---	---	---	**0.23**	---	---	---	---	---	---	---	0.2	0.02
Benzo (k) fluoranthene	0.08	---	---	---	0.096	---	---	---	---	---	---	---	NS	NS
Benzo (a) pyrene	***0.03***	---	---	---	***0.18***	---	---	---	---	---	---	---	0.2	0.02
Dibenzo (a,h) anthracene	0.3	---	---	---	0.2	---	---	---	---	---	---	---	NS	NS
Benzo (g,h,i) perylene	<0.076	---	---	---	0.26	---	---	---	---	---	---	---	NS	NS
Indeno (1,2,3-cd) pyrene	<0.043	---	---	---	0.69	---	---	---	---	---	---	---	NS	NS
Naphthalene	<1.8	---	---	---	<0.48	---	---	---	---	---	---	---	40	8
Biofeasibility Parameters														
Dissolved Oxygen (mg/l)	---	---	---	---	1.30	0.5	0.21	0.57	2.93	0.34	0.71	1.08	NS	NS
Redox Potential (millivolts)	---	---	---	---	74.2	-2.7	10.0	-45.9	61.9	78.0	86.8	-24.0	NS	NS
Ferrous Iron (mg/l)	---	---	---	---	1.0	0.2	0.8	0.0	0.4	0.2	0.1	---	NS	NS
Manganese, Dissolved	---	---	---	---	2,300	2,700	2,500	1,800	1,900	2,000	2,100	---	NS	NS
Sulfate (mg/l)	---	---	---	---	23	24	16	29	19	20	14	---	NS	NS
Nitrate +Nitrite (mg/l)	---	---	---	---	<0.026	<0.09	0.048	0.64	0.15	<0.015	0.045A	---	NS	NS
Alkalinity as $CaCO_3$ (mg/l)	---	---	---	---	440	---	---	---	---	---	---	---	NS	NS
Total Organic Carbon (mg/l)	---	---	---	---	17	---	---	---	---	---	---	---	NS	NS
Methane	---	---	---	---	1.8	---	---	---	---	---	---	---	NS	NS
Total Heterotrophic Count (cfu/ml)	---	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Total HC Degrader Count (cfu/ml)	---	---	---	---	---	---	---	---	---	---	---	---	NS	NS

Notes:
1. Concentrations expressed in micrograms per liter (µg/l) unless noted
2. ft btc = feet below top of casing
3. --- = Not analyzed
4. ND = Not Detected
5. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
6. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
7. NS = No Standard established
8. L = Lab reported low levels of toluene detected in samples (including trip blank at 17 µg/l) due to label printer using toluene to clean printing plates.
9. A = Analyte present in blank at 0.041 mg/L.
10. Exceedances ***bold, italics*** = Concentration exceeds NR 140 PAL
    bold, box = Concentration exceeds NR 140 ES
11. * = Well screen submerged under groundwater table

Table 2
Groundwater Quality Results
Speedway Station #2121 - 4265 S. 60th Street, Greenfield, Wisconsin
Sigma Project #5700

Parameter	MW-9											NR 140 ES	NR 140 PAL
	03/07/96	09/24/96	05/08/97	02/02/98	08/24/99	12/01/99	03/02/00	06/12/00	03/26/01	09/06/01	03/29/02		
	---	---	---	9.70	9.97	10.38	10.40	---	10.05	10.45	10.00		
Gasoline Range Organics (mg/l)	<0.1	<0.1	<0.05	<0.05	---	---	---	---	---	---	---	NS	NS
Diesel Rrange Organics (mg/l)	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Dissolved Lead (mg/l)	---	---	---	---	---	---	---	---	---	---	---	0.015	0.0015
PVOCs and Detected VOCs													
Benzene	<0.8	<0.8	<0.20	<0.16	<0.26	<0.27	<0.26	<0.26	<0.35	<0.45	<0.48	5.0	0.5
Toluene	<1.4	<1.4	<0.40	<0.36	1.9L	<0.27	<0.21	<0.21	130	***200***	<0.47	1,000	200
Ethylbenzene	<1.8	<1.8	<0.30	<0.29	<0.24	<0.32	<0.24	<0.24	1.1	1.4	<0.43	700	140
Total Xylenes	<5.6	<5.6	<1.10	<1.15	<1.34	<0.67	<1.34	<1.34	<1.14	<2.47	<1.94	10,000	1,000
Methyl tert butyl-ether	<1.6	<1.6	<0.20	<0.20	<0.22	<0.32	<0.22	<0.22	<0.36	<0.43	<0.67	60	12
Trimethylbenzenes	<3.7	<3.7	<0.60	<0.64	<1.4	<0.49	<1.4	<1.4	<0.74	<1.86	<1.03	480	96
Naphthalene	---	---	---	---	---	---	---	---	---	---	---	40	8
Isopropylbenzene	---	---	---	---	---	---	---	---	---	---	---	NS	NS
p-Isopropyltoluene	---	---	---	---	---	---	---	---	---	---	---	NS	NS
n-Propylbenzene	---	---	---	---	---	---	---	---	---	---	---	NS	NS
n-Butylbenzene	---	---	---	---	---	---	---	---	---	---	---	NS	NS
sec-Butylbenzene	---	---	---	---	---	---	---	---	---	---	---	NS	NS
tert-Butylbenzene	---	---	---	---	---	---	---	---	---	---	---	NS	NS
1,2,4-Trichlorobenzene	---	---	---	---	---	---	---	---	---	---	---	70	14
Methylene Chloride	---	---	---	---	---	---	---	---	---	---	---	5.0	0.5
Tetrachloroethene	---	---	---	---	---	---	---	---	---	---	---	5.0	0.5
1,2-Dibromomethane												0.05	0.005
Styrene												100	10
Bromobenzene	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Diisopropylether	---	---	---	---	---	---	---	---	---	---	---	NS	NS
PAHs													
Fluorene	---	---	---	<0.061	---	---	---	---	---	---	---	400	80
Phenanthrene	---	---	---	<0.050	---	---	---	---	---	---	---	NS	NS
Fluoranthene	---	---	---	0.022	---	---	---	---	---	---	---	400	80
1-Methyl Naphthalene	---	---	---	<0.45	---	---	---	---	---	---	---	NS	NS
Pyrene	---	---	---	0.022	---	---	---	---	---	---	---	250	50
Acenaphthalene	---	---	---	<0.51	---	---	---	---	---	---	---	NS	NS
Chrysene	---	---	---	<0.13	---	---	---	---	---	---	---	0.2	0.02
Benzo (a) anthracene	---	---	---	0.013	---	---	---	---	---	---	---	NS	NS
Benzo (b) fluoranthene	---	---	---	0.01	---	---	---	---	---	---	---	0.2	0.02
Benzo (k) fluoranthene	---	---	---	<0.0080	---	---	---	---	---	---	---	NS	NS
Benzo (a) pyrene	---	---	---	0.016	---	---	---	---	---	---	---	0.2	0.02
Dibenzo (a,h) anthracene	---	---	---	<0.012	---	---	---	---	---	---	---	NS	NS
Benzo (g,h,i) perylene	---	---	---	<0.011	---	---	---	---	---	---	---	NS	NS
Indeno (1,2,3-cd) pyrene	---	---	---	0.025	---	---	---	---	---	---	---	NS	NS
Naphthalene	---	---	---	<0.48	---	---	---	---	---	---	---	40	8
Biofeasibility Parameters													
Dissolved Oxygen (mg/l)	---	---	---	2.60	0.43	0.18	0.34	1.58	0.30	0.59	0.56	NS	NS
Redox Potential (millivolts)	---	---	---	6.07	-66.0	-107.9	-35.7	-13.2	-11.9	-105.9	-35.3	NS	NS
Ferrous Iron (mg/l)	---	---	---	0.0	2.8	1.6	4.0	0.8	3.0	3.2	---	NS	NS
Manganese, Dissolved	---	---	---	50	1,300	450	1,600	6.5	1,400	790	---	NS	NS
Sulfate (mg/ll)	---	---	---	150	59	11	140	32	120	11	---	NS	NS
Nitrate +Nitrite (mg/l)	---	---	---	0.079	0.19	0.067	0.26	1.4	0.049	<0.014	---	NS	NS
Alkalinity as $CaCO_3$ (mg/l)	---	---	---	270	---	---	---	---	---	---	---	NS	NS
Total Organic Carbon (mg/l)	---	---	---	5.5	---	---	---	---	---	---	---	NS	NS
Methane	---	---	---	1.4	---	---	---	---	---	---	---	NS	NS
Total Heterotrophic Count (cfu/ml)	---	---	---	---	---	---	---	---	---	---	---	NS	NS
Total HC Degrader Count (cfu/ml)	---	---	---	---	---	---	---	---	---	---	---	NS	NS

Notes:
1. Concentrations expressed in micrograms per liter (µg/l) unless noted
2. ft btc = feet below top of casing
3. --- = Not analyzed
4. ND = Not Detected
5. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
6. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
7. NS = No Standard established
8. L = Lab reported low levels of toluene detected in samples (including trip blank at 17 µg/l) due to label printer using toluene to clean printing plates.
9. A = Analyte present in blank at 0.041 mg/L.
10. Exceedances ***bold, italics*** = Concentration exceeds NR 140 PAL
bold, box = Concentration exceeds NR 140 ES
11. * = Well screen submerged under groundwater table

Table 1
Soil Quality Results
SSA Station #2121 - 4265 S. 60th Street, Greenfield, WI
Sigma Project No. 5700

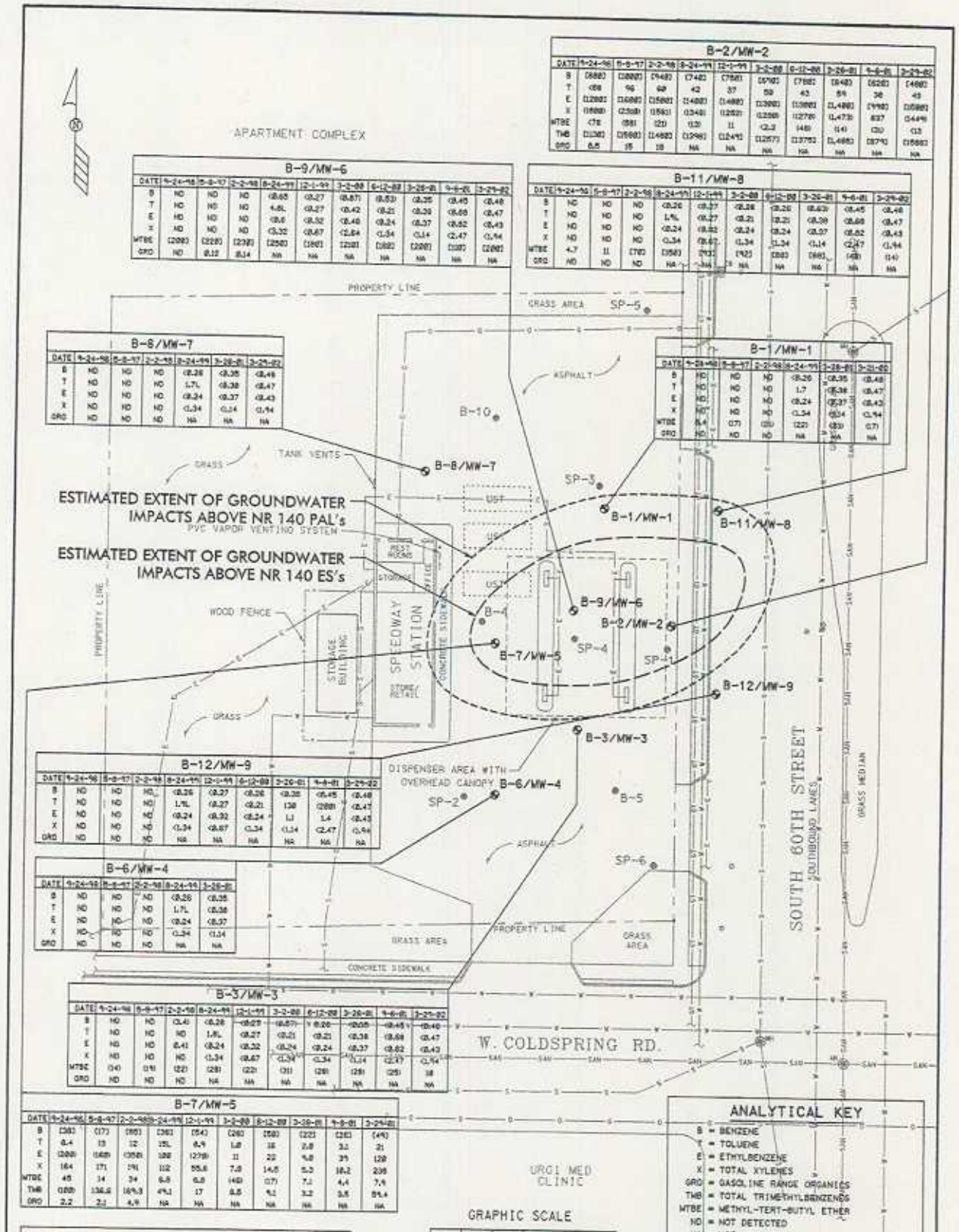
Soil Sample Location:		B-1/MW-1		B-2/MW-2		B-3/MW-3		B-4		B-5		B-6/MW-4		B-7/MW-5		NR 720 RCL[3]	NR 746 Table 1/ Table 2[4]
Sample Depth (feet bgs):		4.5 - 6	17 - 18.5	4.5 - 6	19.5 - 21	4.5 - 6	14.5 - 16	2 - 3.5	19.5 - 21	2 - 3.5	7 - 8.5	2 - 3.5	9.5 - 11	7 - 8.5	14.5 - 16		
	Date:	02/21/91	02/21/91	02/21/91	02/21/91	02/21/91	02/21/91	02/21/91	02/21/91	02/21/91	02/21/91	07/09/92	07/09/92	07/09/92	07/09/92		
Photoionization Detector	ppm	19.1	6.7	2772	959	1529	11.6	1093	13.3	94.6	18.1	164	<1	229	7.9	NS	NS / NS
Gasoline Range Organics	mg/kg	<4.0	<4.0	***1,300***	***790***	***130***	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<5.0	53	<5.0	100	NS / NS
Total Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***100.4***	5.18	4.97	4.96	50	NS / NS
PVOCs & Detected VOCs																	
Benzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	<1.0	***140***	3.0	5.5	8,500 / 1,100
Ethylbenzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	<1.0	910	<1.0	2,900	4,600 / NS
MTBE	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<8.0	<8.0	<8.0	<8.0	NS	NS / NS
Toluene	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1	<1.0	270	5.2	1,500	38,000 / NS
1,2,4-Trimethylbenzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	<1.0	3,100	2.4	NS	83,000 / NS
1,3,5-Trimethylbenzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	<1.0	1,000	<1.0	NS	11,000 / NS
Xylenes (total)	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0	<1.0	***5,500***	6.1	4,100	42,000 / NS

Notes:
1. mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
2. µg/kg = micrograms per kilogram (equivalent to parts per billion, ppb)
3. NR 720 RCL = Wisconsin Administrative Code, Chapter NR 720 generic Residual Contaminant Level
4. NR 746 Table 1/Table 2 = Wisconsin Administrative Code, Chapter NR 746 Table 1 ("Indicators of Residual Petroleum Hydrocarbon Product in Soil Pores") Soil Screening Levels / Table 2 ("Protection of Human Health from Direct Contact with Contaminated Soil") values
5. "Q" = Concentration detected between Limit of Detection and Limit of Quantitation; results are qualified due to the uncertainty of analyte concentrations within this range.
6. NS = no standard established
7. Exceedances: ***bold, italics*** = Concentration exceeds NR 720 RCL
   box = Concentration exceeds NR 746 Table 1 value
   * = Concentration exceeds NR 746 Table 2 value

Table 1
Soil Quality Results
Former Jacobus Bulk Plant - 2900 99th Street, Sturtevant, Wisconsin
Sigma Project No. 7331

Soil Sample Location:		B-8/MW-7		B-9/MW-6		B-10	B-11/MW-8		B-12/MW-9	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	NR 720 RCL[3]	NR 746 Table 1/ Table 2[4]
Sample Depth (feet bgs):		2 - 3.5	12 - 13.5	5 - 8	8 - 11	6 - 8	2 - 4	6 - 8	8 - 10	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5		
	Date:	07/09/92	07/09/92	07/31/92	07/31/92	09/26/94	09/26/94	09/26/94	09/26/94	11/02/98	11/02/98	11/02/98	11/02/98	11/02/98	11/02/98		
Photoionization Detector	ppm	516	0	1356	37.5	0	11	8	0	>2,000	0	0	527	0	0	NS	NS / NS
Gasoline Range Organics	mg/kg	***210***	<5.0	35	***880***	<10	<10	<10	<10	***2,000***	5.1	<3.0	***520***	<3.0	<3.2	100	NS / NS
Total Lead	mg/kg	10.98	5.29	NA	NA	7.59	11.3	6.55	10.2	NA	NA	NA	NA	NA	NA	50	NS / NS
PVOCs & Detected VOCs																	
Benzene	µg/kg	***550***	<1.0	NA	NA	<5	<5	<5	<5	***1,100 "Q" ****	<25	<25	***2,000 ****	<25	<25	5.5	8,500 / 1,100
Ethylbenzene	µg/kg	2,600	<1.0	NA	NA	<5	<5	<5	<5	***45,000***	89	<25	***20,000***	<25	<25	2,900	4,600 / NS
MTBE	µg/kg	96	<8.0	NA	NA	NA	NA	NA	NA	2600	<25	<25	1,000	<25	<25	NS	NS / NS
Toluene	µg/kg	22	1.9	NA	NA	<5	<5	<5	<5	<630	<25	<25	<200	<25	<25	1,500	38,000 / NS
1,2,4-Trimethylbenzene	µg/kg	4,800	1.6	NA	NA	<5	<5	<5	<5	150,000	<25	<25	39,000	<25	<25	NS	83,000 / NS
1,3,5-Trimethylbenzene	µg/kg	1,600	<1.0	NA	NA	<5	<5	<5	<5	47,000	<25	<25	12,000	<25	<25	NS	11,000 / NS
Xylenes (total)	µg/kg	3,100	2.2	NA	NA	<5	<5	<5	<5	***150,000***	102 "Q"	<50	***62,000***	<50	<50	4,100	42,000 / NS

Notes:
1. mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
2. µg/kg = micrograms per kilogram (equivalent to parts per billion, ppb)
3. NR 720 RCL = Wisconsin Administrative Code, Chapter NR 720 generic Residual Contaminant Level
4. NR 746 Table 1/Table 2 = Wisconsin Administrative Code, Chapter NR 746 Table 1 ("Indicators of Residual Petroleum Hydrocarbon Product in Soil Pores") Soil Screening Levels / Table 2 ("Protection of Human Health from Direct Contact with Contaminated Soil") values
5. "Q" = Concentration detected between Limit of Detection and Limit of Quantitation; results are qualified due to the uncertainty of analyte concentrations within this range.
6. NS = no standard established
7. Exceedances: ***bold, italics*** = Concentration exceeds NR 720 RCL
   box = Concentration exceeds NR 746 Table 1 value
   * = Concentration exceeds NR 746 Table 2 value



B-2/MW-2										
DATE	9-24-96	5-8-97	2-2-98	8-24-99	12-1-99	3-2-00	6-12-00	3-26-01	9-6-01	3-29-02
B	(5600)	(3800)	(9400)	(7400)	(7500)	(5900)	(7800)	(8400)	(6200)	(4600)
T	(69	96	69	42	37	59	43	54	38	43
E	(12000)	(6600)	(5800)	(14000)	(14000)	(13000)	(13000)	(1,400)	(9900)	(5800)
X	(1600)	(2,500)	(1,500)	(3,400)	(2,500)	(2,500)	(2,700)	(1,470)	837	(1,440)
MTBE	(78	(58)	(21)	(13)	11	(2.3	(48)	(14)	(31)	(13
TMB	(1,300)	(1,500)	(1,400)	(1,900)	(1,240)	(1,257)	(1,375)	(1,400)	(870)	(1,500)
GRO	6.5	15	18	NA	NA	NA	NA	NA	NA	NA

B-9/MW-6										
DATE	9-24-96	5-8-97	2-2-98	8-24-99	12-1-99	3-2-00	6-12-00	3-26-01	9-6-01	3-29-02
B	ND	ND	ND	<0.65	<0.27	(0.87)	(0.53)	<0.26	<0.45	<0.48
T	ND	ND	ND	1.6L	<0.27	<0.42	<0.21	<0.20	<0.66	<0.47
E	ND	ND	ND	<0.6	<0.32	<0.48	<0.24	<0.37	<0.62	<0.43
X	ND	ND	ND	<0.32	<0.67	<2.64	<1.34	<1.4	<2.47	<1.94
MTBE	(200)	(220)	(230)	(250)	(180)	(210)	(180)	(200)	(130)	(200)
GRO	ND	0.12	0.14	NA	NA	NA	NA	NA	NA	NA

B-11/MW-8										
DATE	9-24-96	5-8-97	2-2-98	8-24-99	12-1-99	3-2-00	6-12-00	3-26-01	9-6-01	3-29-02
B	ND	ND	ND	<0.26	<0.27	<0.26	<0.26	(0.63)	<0.45	<0.48
T	ND	ND	ND	1.4L	<0.27	<0.21	<0.21	<0.20	<0.66	<0.47
E	ND	ND	ND	<0.24	<0.32	<0.24	<0.24	<0.37	<0.62	<0.43
X	ND	ND	ND	<0.34	<0.67	<1.34	<1.34	<1.4	<2.47	<1.94
MTBE	4.7	11	(78)	(150)	(93)	(92)	(80)	(80)	(48)	(14)
GRO	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA

B-8/MW-7						
DATE	9-24-96	5-8-97	2-2-98	8-24-99	3-26-01	3-29-02
B	ND	ND	ND	<0.26	<0.35	<0.48
T	ND	ND	ND	1.7L	<0.38	<0.47
E	ND	ND	ND	<0.24	<0.37	<0.43
X	ND	ND	ND	<1.34	<1.4	<1.94
GRO	ND	ND	ND	NA	NA	NA

B-1/MW-1						
DATE	9-24-96	5-8-97	2-2-98	8-24-99	3-26-01	3-21-02
B	ND	ND	ND	<0.26	<0.35	<0.48
T	ND	ND	ND	1.7	<0.38	<0.47
E	ND	ND	ND	<0.24	<0.37	<0.43
X	ND	ND	ND	<1.34	<1.4	<1.94
MTBE	0.4	(7)	(21)	(22)	(33)	(7)
GRO	ND	ND	ND	NA	NA	NA

B-12/MW-9									
DATE	9-24-96	5-8-97	2-2-98	8-24-99	12-1-99	6-12-00	3-26-01	9-6-01	3-29-02
B	ND	ND	ND	<0.26	<0.27	<0.26	<0.26	<0.45	<0.48
T	ND	ND	ND	1.4L	<0.27	<0.21	130	(200)	<0.47
E	ND	ND	ND	<0.24	<0.32	<0.24	1.1	1.4	<0.43
X	ND	ND	ND	<1.34	<0.67	<1.34	<1.34	<2.47	<1.94
GRO	ND	ND	ND	NA	NA	NA	NA	NA	NA

B-6/MW-4						
DATE	9-24-96	5-8-97	2-2-98	8-24-99	3-26-01	
B	ND	ND	ND	<0.26	<0.35	
T	ND	ND	ND	1.7L	<0.38	
E	ND	ND	ND	<0.24	<0.37	
X	ND	ND	ND	<1.34	<1.34	
GRO	ND	ND	ND	NA	NA	

B-3/MW-3										
DATE	9-24-96	5-8-97	2-2-98	8-24-99	12-1-99	3-2-00	6-12-00	3-26-01	9-6-01	3-29-02
B	ND	ND	(1.4)	<0.26	<0.27	(0.87)	<0.26	<0.35	<0.45	<0.48
T	ND	ND	ND	1.8L	<0.27	<0.21	<0.21	<0.38	<0.66	<0.47
E	ND	ND	0.41	<0.24	<0.32	<0.24	<0.24	<0.37	<0.62	<0.43
X	ND	ND	ND	<1.34	<0.67	<1.34	<1.34	<1.4	<2.47	<1.94
MTBE	(14)	(19)	(22)	(28)	(22)	(31)	(29)	(29)	(25)	18
GRO	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA

B-7/MW-5										
DATE	9-24-96	5-8-97	2-2-98	8-24-99	12-1-99	3-2-00	6-12-00	3-26-01	9-6-01	3-29-02
B	(30)	(17)	(90)	(30)	(54)	(26)	(50)	(22)	(26)	(49)
T	0.4	13	12	15L	6.9	1.8	18	2.8	3.1	21
E	(200)	(140)	(350)	120	(270)	11	22	4.8	39	120
X	164	171	191	112	55.6	7.8	14.5	5.5	18.2	208
MTBE	45	14	34	6.8	6.8	(48)	(7)	7.1	4.4	7.9
TMB	(80)	136.6	169.3	49.1	17	8.8	9.1	3.2	3.8	84.4
GRO	2.2	2.1	4.9	NA	NA	NA	NA	NA	NA	NA

LEGEND

- B● = SOIL BORING (SIGMA)
- SP● = SOIL BORING (BY OTHERS)
- MW● = MONITORING WELL LOCATION (SIGMA)
- = WATER VALVE LOCATION
- = CATCH BASIN LOCATION
- = MANHOLE LOCATION
- —G— = GAS LINE
- —GT— = GAS / TELEPHONE LINE
- —S— = STORM SEWER LINE
- —SAN— = SANITARY SEWER LINE
- —W— = WATER LINE
- —E— = ELECTRIC LINE

GRAPHIC SCALE

0 10 20 30 60

NOTES:
1. MAP BASED ON SITE MAP PROVIDED BY SSA AND FIELD MEASUREMENTS.
2. UTILITY LOCATIONS BASED ON DIGGERS HOTLINE MARKINGS AND DRAWINGS PROVIDED BY CITY OF GREENFIELD.

ANALYTICAL KEY

B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENES
GRO = GASOLINE RANGE ORGANICS
TMB = TOTAL TRIMETHYLBENZENES
MTBE = METHYL-TERT-BUTYL ETHER
ND = NOT DETECTED
NA = NOT ANALYZED
[ ] = EXCEEDES NR 140 ES
( ) = EXCEEDES NR 140 PAL
L = LAB CONTAMINANT. TOLUENE DETECTED AT 17 (ug/l) IN TRIP BLANK
ALL BTEX CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER (ug/l)
ALL GRO CONCENTRATIONS EXPRESSED IN MILLIGRAMS PER LITER (mg/l)

SPEEDWAY SUPERAMERICA #2121
4265 S. 60TH STREET, GREENFIELD, WI

SIGMA ENVIRONMENTAL SERVICES, INC.

DATE: 1-13-03	DR. BY: BEB	DR.# 5700-008	SCALE: 1" = 30'

GROUNDWATER QUALITY MAP

FIGURE 5

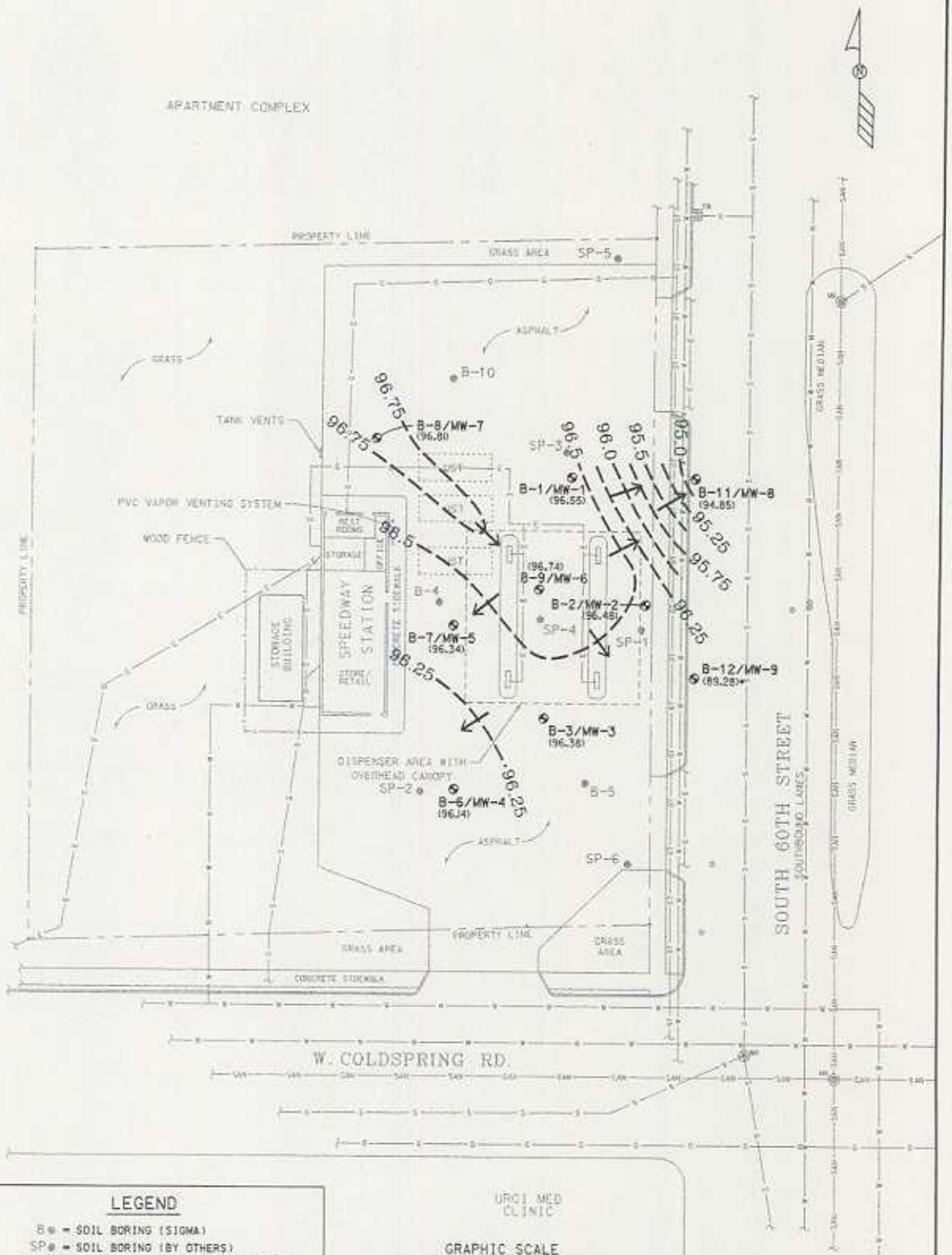
Table 3
Static Groundwater Elevations
SSA Station #2121 - 4265 S. 60th Street, Greenfield, Wisconsin
Sigma Project No. 5700

Well ID	Date	Ground Surface Elevation (feet SD)	Top of Casing Elevation (feet SD)	Depth to Groundwater (feet from toc)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet SD)	Well Screen Interval (feet bgs)
MW-1	03/06/91 *	100.0	99.80	5.69	5.9	94.11	8.0 to 18.0
	05/20/91 *			3.93	4.1	95.87	
	08/07/92 *			4.64	4.8	95.16	
	11/04/94 *			4.03	4.2	95.77	
	03/07/96			---			
	09/24/96			---			
	05/08/97			---			
	02/02/98 *			2.97	3.2	96.83	
	08/24/99 *			3.25	3.5	96.55	
	12/01/99 *			4.37	4.6	95.43	
	03/02/00 *			3.00	3.2	96.80	
	06/12/00 *			2.73	2.9	97.07	
	03/26/01 *			2.96	3.2	96.84	
	09/06/01 *			NM			
	03/29/02 *			3.82	4.0	95.98	
MW-2	03/06/91 *	99.8	99.59	3.57	3.8	96.02	9.0 to 19.0
	05/20/91 *			3.17	3.4	96.42	
	08/07/92 *			2.82	3.0	96.77	
	11/04/94 *			5.27	5.5	94.32	
	03/07/96			---			
	09/24/96			---			
	05/08/97			---			
	02/02/98 *			3.30	3.5	96.29	
	08/24/99 *			3.11	3.3	96.48	
	12/01/99 *			4.24	4.4	95.35	
	03/02/00 *			3.10	3.3	96.49	
	06/12/00 *			2.82	3.0	96.77	
	03/26/01 *			3.08	3.3	96.51	
	09/06/01 *			3.30	3.5	96.29	
	03/29/02 *			3.95	4.2	95.64	
MW-3	03/06/91	100.5	100.09	14.08	14.5	86.01	7.0 to 17.0
	05/20/91 *			3.81	4.2	96.28	
	08/07/92			8.62	9.0	91.47	
	11/04/94 *			3.75	4.2	96.34	
	03/07/96			---			
	09/24/96			---			
	05/08/97			---			
	02/02/98			6.95	7.4	93.14	
	08/24/99 *			3.71	4.1	96.38	
	12/01/99			7.31	7.7	92.78	
	03/02/00 *			4.00	4.4	96.09	
	06/12/00			8.18	8.6	91.91	
	03/26/01 *			3.30	3.7	96.79	
	09/06/01			8.68	9.1	91.41	
	03/29/02 *			3.65	4.1	96.44	
MW-4	03/06/91	101.1	100.81	NI			7.6 to 17.6
	05/20/91			NI			
	08/07/92			8.68	8.9	92.13	
	11/04/94 *			4.64	4.9	96.17	
	03/07/96			---			
	09/24/96			---			
	05/08/97			---			
	02/02/98 *			4.20	4.5	96.61	
	08/24/99 *			4.67	4.9	96.14	
	12/01/99 *			4.97	5.2	95.84	
	03/02/00 *			2.24	2.5	98.57	
	06/12/00 *			NM			
	03/26/01 *			3.94	4.2	96.87	
	09/06/01 *			NM			
	03/29/02 *			5.08	5.3	95.73	
MW-5	03/06/91	101.1	100.74	NI			5.0 to 15.0
	05/20/91			NI			
	08/07/92			6.92	7.2	93.82	
	11/04/94			5.70	6.0	95.04	
	03/07/96			---			
	09/24/96			---			
	05/08/97			---			
	02/02/98 *			4.28	4.6	96.46	
	08/24/99 *			4.40	4.7	96.34	
	12/01/99			5.17	5.5	95.57	
	03/02/00 *			3.77	4.1	96.97	
	06/12/00 *			3.42	3.7	97.32	
	03/26/01 *			3.46	3.8	97.28	
	09/06/01 *			3.64	4.0	97.10	
	03/29/02			5.45	5.8	95.29	

Table 3
Static Groundwater Elevations
SSA Station #2121 - 4265 S. 60th Street, Greenfield, Wisconsin
Sigma Project No. 5700

Well ID	Date	Ground Surface Elevation (feet SD)	Top of Casing Elevation (feet SD)	Depth to Groundwater (feet from toc)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet SD)	Well Screen Interval (feet bgs)
MW-6	03/06/91	100.4	99.96	NI			9.0 to 19.0
	05/20/91			NI			
	08/07/92			16.48	16.9	83.48	
	11/04/94 *			4.16	4.6	95.80	
	03/07/96			---			
	09/24/96			---			
	05/08/97			---			
	02/02/98 *			4.00	4.4	95.96	
	08/24/99 *			3.22	3.6	96.74	
	12/01/99 *			4.00	4.4	95.96	
	03/02/00 *			4.05	4.5	95.91	
	06/12/00 *			3.22	3.6	96.74	
	03/26/01 *			3.44	3.8	96.52	
	09/06/01 *			3.10	3.5	96.86	
	03/29/02 *			4.05	4.5	95.91	
MW-7	03/06/91	100.4	100.22	NI			8.0 to 18.0
	05/20/91			NI			
	08/07/92			14.61	14.8	85.61	
	11/04/94 *			4.37	4.6	95.85	
	03/07/96			---			
	09/24/96			---			
	05/08/97			---			
	02/02/98 *			5.87	6.1	94.35	
	08/24/99 *			3.41	3.6	96.81	
	12/01/99 *			7.68	7.9	92.54	
	03/02/00 *			6.07	6.3	94.15	
	06/12/00 *			4.11	4.3	96.11	
	03/26/01 *			4.62	4.8	95.60	
	09/06/01 *			NM			
	03/29/02 *			5.30	5.5	94.92	
MW-8	03/06/91	99.0	98.56	NI			6.0 to 16.0
	05/20/91			NI			
	08/07/92			NI			
	11/04/94 *			4.19	4.6	94.37	
	03/07/96			---			
	09/24/96			---			
	05/08/97			---			
	02/02/98 *			3.20	3.6	95.36	
	08/24/99 *			3.71	4.1	94.85	
	12/01/99 *			5.15	5.5	93.41	
	03/02/00 *			3.68	4.1	94.88	
	06/12/00 *			2.83	3.2	95.73	
	03/26/01 *			4.27	4.7	94.29	
	09/06/01 *			3.55	3.9	95.01	
	03/29/02 *			4.45	4.8	94.11	
MW-9	03/06/91	99.7	99.25	NI			6.0 to 16.0
	05/20/91			NI			
	08/07/92			NI			
	11/04/94			dry			
	03/07/96			---			
	09/24/96			---			
	05/08/97			---			
	02/02/98			9.70	10.2	89.55	
	08/24/99			9.97	10.4	89.28	
	12/01/99			10.38	10.8	88.87	
	03/02/00			10.40	10.9	88.85	
	06/12/00			NM			
	03/26/01			10.05	10.5	89.20	
	09/06/01			10.45	10.9	88.80	
	03/29/02			10.00	10.5	89.25	

Notes:
1. Wells MW-1 through MW-9 surveyed by Sigma on 10/24/94 relative to the storm sewer manhole cover in the westbound lane of Cold Spring Road; assumed elevation of 100.00 feet.
2. feet SD = feet relative to site datum (see Note 1)
3. feet from toc = feet below top of casing
4. feet bgs = feet below ground surface
5. NI = not installed
6. NM = not measured
7. --- = Information not readily available from SSA at time of closure request.
8. * = submerged well screen on this date



LEGEND

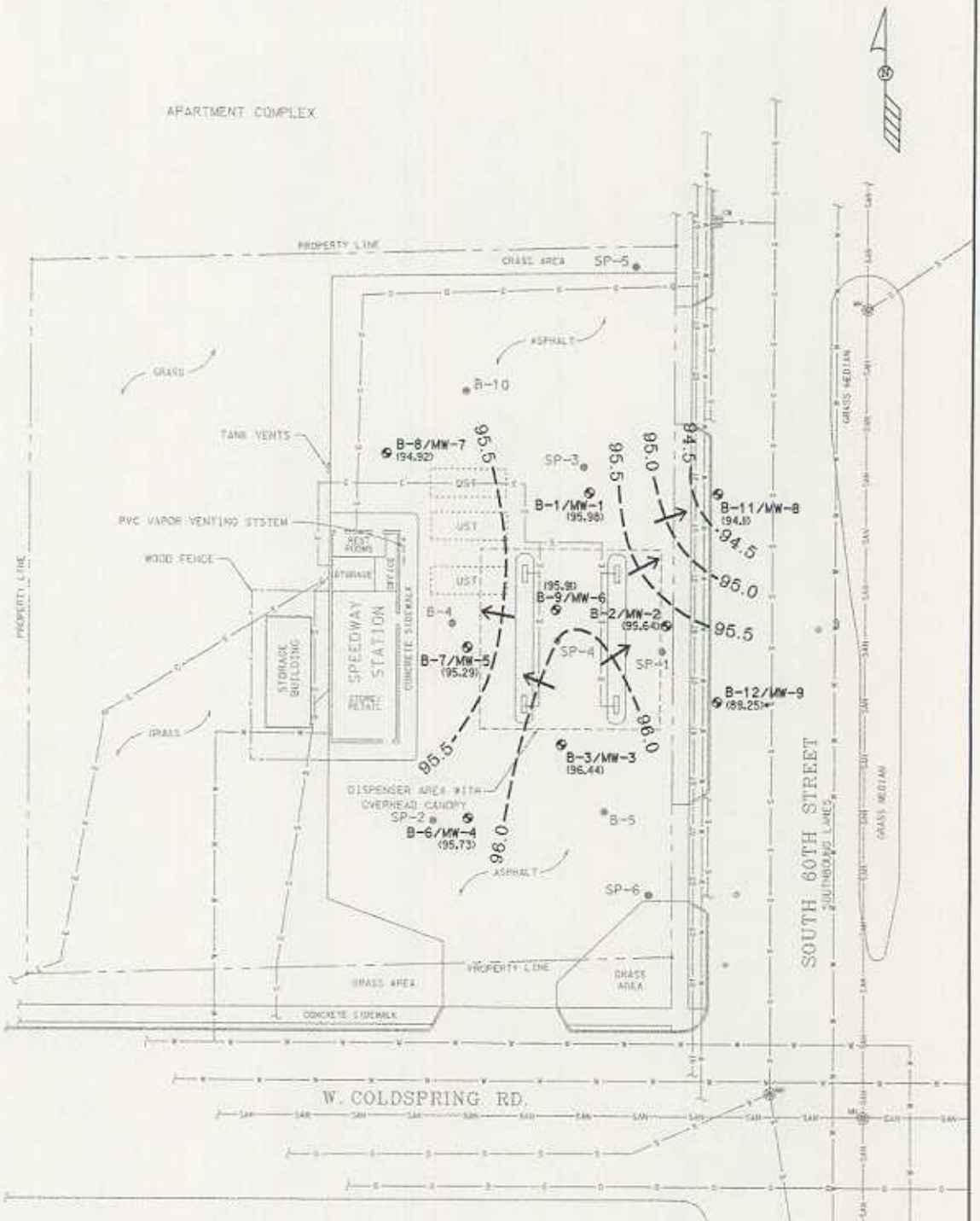
- B● = SOIL BORING (SIGMA)
- SP● = SOIL BORING (BY OTHERS)
- MW● = MONITORING WELL LOCATION (SIGMA)
- = WATER VALVE LOCATION
- = CATCH BASIN LOCATION
- = MANHOLE LOCATION
- G = GAS LINE
- ST = GAS / TELEPHONE LINE
- S = STORM SEWER LINE
- SAN = SANITARY SEWER LINE
- W = WATER LINE
- E = ELECTRIC LINE
- = GROUNDWATER CONTOUR LINE. CONTOUR INTERVAL = 0.25'
- ( ) = STATIC GROUNDWATER LEVEL (8-24-99)
- → = GROUNDWATER FLOW DIRECTION

GRAPHIC SCALE

0 10 20 30 60

NOTES:
1. MAP BASED ON SITE MAP PROVIDED BY SSA AND FIELD MEASUREMENTS.
2. UTILITY LOCATIONS BASED ON DIGGERS HOTLINE MARKINGS AND DRAWINGS PROVIDED BY CITY OF GREENFIELD.
3. * = STATIC GROUNDWATER LEVEL FROM WELL MW-9 WAS DISREGARDED DUE TO ANOMOLOUS DATA IN COMPARISON TO THE DATA FROM THE OTHER WELLS ON SITE.

SPEEDWAY SUPERAMERICA #2121 4265 S. 60TH STREET, GREENFIELD, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 1-13-03	DR. BY: BEB	DR.# 5700-006	SCALE: 1" = 30'
GROUNDWATER CONTOUR MAP (8-24-99)			FIGURE 6



LEGEND

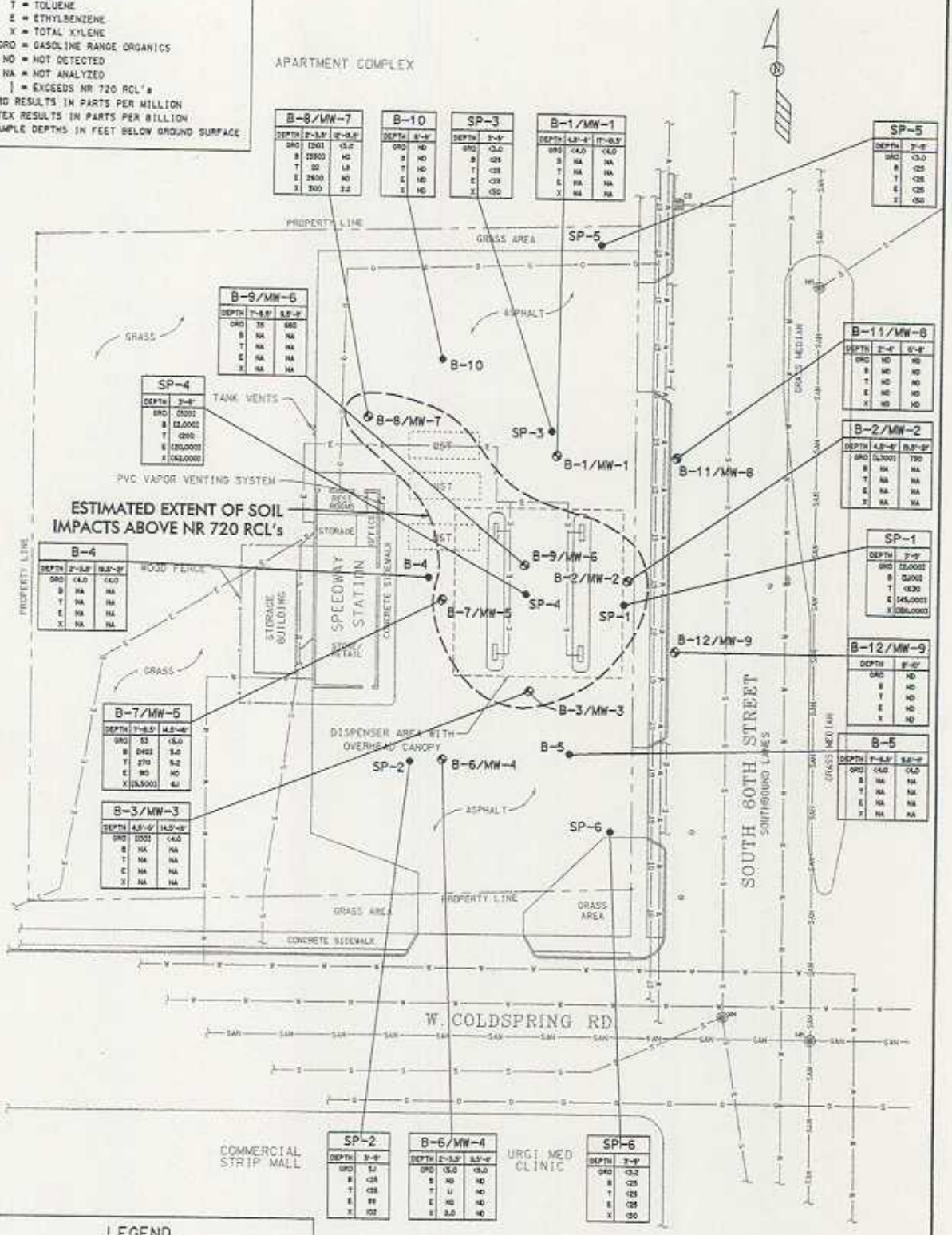
- B● = SOIL BORING (SIGMA)
- SP● = SOIL BORING (BY OTHERS)
- MW● = MONITORING WELL LOCATION (SIGMA)
- = WATER VALVE LOCATION
- = CATCH BASIN LOCATION
- = MANHOLE LOCATION
- G = GAS LINE
- GT = GAS / TELEPHONE LINE
- S = STORM SEWER LINE
- SAN = SANITARY SEWER LINE
- W = WATER LINE
- E = ELECTRIC LINE
- = GROUNDWATER CONTOUR LINE, CONTOUR INTERVAL = 0.5'
- ( ) = STATIC GROUNDWATER LEVEL (3-29-02)
- → = GROUNDWATER FLOW DIRECTION

NOTES:
1. MAP BASED ON SITE MAP PROVIDED BY SSA AND FIELD MEASUREMENTS.
2. UTILITY LOCATIONS BASED ON DIGGERS HOTLINE MARKINGS AND DRAWINGS PROVIDED BY CITY OF GREENFIELD.
3. * = STATIC GROUNDWATER LEVEL FROM WELL MW-9 WAS DISREGARDED DUE TO ANOMOLOUS DATA IN COMPARSISON TO THE DATA FROM THE OTHER WELLS ON SITE.

SPEEDWAY SUPERAMERICA #2121 4265 S. 60TH STREET, GREENFIELD, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 1-13-03	DR. BY: BEB	DR.# 5700-004	SCALE: 1" = 30'
GROUNDWATER CONTOUR MAP (3-29-02)			FIGURE 8

ANALYTICAL KEY

B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENE
GRO = GASOLINE RANGE ORGANICS
ND = NOT DETECTED
NA = NOT ANALYZED
[ ] = EXCEEDS NR 720 RCL's
GRO RESULTS IN PARTS PER MILLION
BTEX RESULTS IN PARTS PER BILLION
SAMPLE DEPTHS IN FEET BELOW GROUND SURFACE



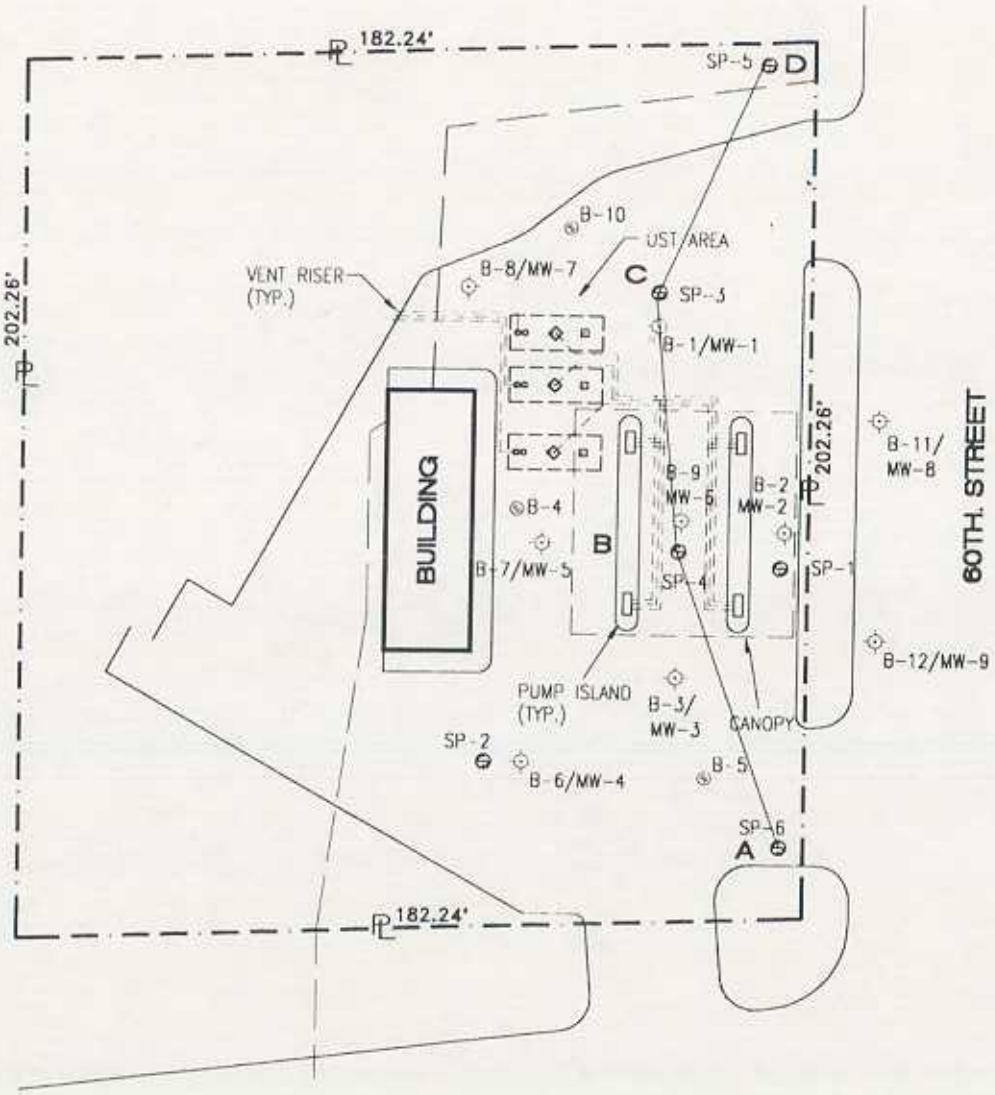
LEGEND

B● = SOIL BORING (SIGMA)
SP● = SOIL BORING (BY OTHERS)
MW● = MONITORING WELL LOCATION (SIGMA)
= WATER VALVE LOCATION
= CATCH BASIN LOCATION
= MANHOLE LOCATION
—G— = GAS LINE
—OT— = GAS / TELEPHONE LINE
—S— = STORM SEWER LINE
—SAN— = SANITARY SEWER LINE
—W— = WATER LINE
—E— = ELECTRIC LINE

NOTES:
1. MAP BASED ON SITE MAP PROVIDED BY SSA AND FIELD MEASUREMENTS.
2. UTILITY LOCATIONS BASED ON DIGGERS HOTLINE MARKINGS AND DRAWINGS PROVIDED BY CITY OF GREENFIELD.

GRAPHIC SCALE
0 10 20 30 60

SPEEDWAY SUPERAMERICA #2121 4265 S. 60TH STREET, GREENFIELD, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 1-13-03	DR. BY: BEB	DR.# 5700-009	SCALE: ~~4" = 30'~~
SOIL QUALITY MAP			FIGURE 3



LEGEND

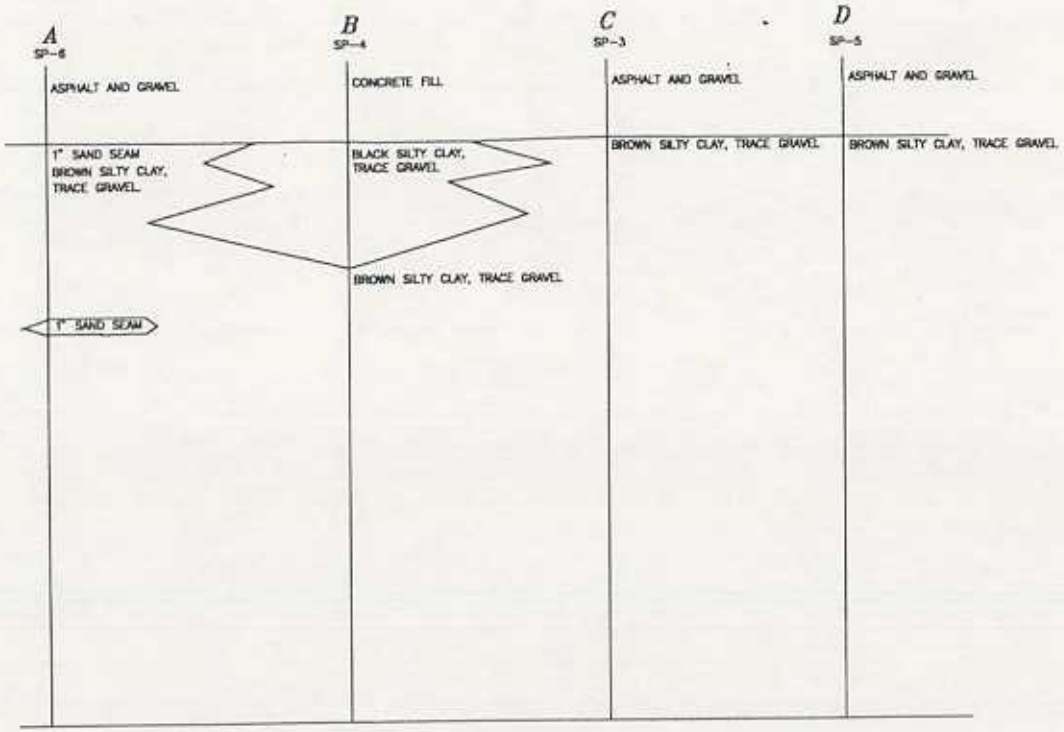
— —	UNDERGROUND GAS SERVICE
	[illegible]
— —	SANITARY SEWER
- - - - -	PRODUCT PIPING
— PL —	PROPERTY LINE
B-11/MW-8	PREVIOUSLY INSTALLED SOIL BORING AND MONITORING WELL LOCATIONS
B-4	PREVIOUSLY INSTALLED SOIL BORING LOCATIONS
SP-5	SOIL PROBE LOCATIONS
ABCD	CROSS SECTION (SEE FIGURE 3)

SCALE IN FEET
0 30'

Practical Environmental Consultants, Inc.
919 North Plum Grove Road
Suite H
Schaumburg, IL 60173
Phone (847) 517 1977
Facsimile (847) 517 1988

SITE PLAN		SPEEDWAY STATION 2121 60TH STREET AND COLD SPRING AV. GREENFIELD, WISCONSIN		
DATE	SCALE	APPROVED	DWN. BY	FIGURE
3-3-99	AS SHOWN		RS	2

PEC \ 2121BASE.DWG



SCALE IN FEET (VERTICAL)
0 2

SCALE IN FEET (HORIZONTAL)
0 30

Practical Environmental Consultants, Inc.				
919 North Plum Grove Road Suite H Schaumburg, IL 60173	PEC	Phone (847) 517 1977 Facsimile (847) 517 1988		
CROSS SECTION		SPEEDWAY STATION 2121 4265 SOUTH 60TH STREET GREENFIELD, WISCONSIN 53220		
DATE	SCALE	APPROVED	DWN. BY	FIGURE
3-3-99	AS SHOWN		RS	3

PEC \ 2121-3.DWG

STATEMENT BY RESPONSIBLE PARTY

Speedway SuperAmerica LLC, the responsible party for the property located at 4265 S. 60th Street, Greenfield, states that the legal description provided to the Wisconsin Department of Commerce in this case closure request / Geographic Information System (GIS) Registry packet for WDNR BRRTS #03-41-000158 is complete and accurate to the best of our knowledge.

Signature of Representative for Responsible Party

2-10-03
Date

SIGMA
ENVIRONMENTAL SERVICES INC.

220 East Ryan Road
Oak Creek, WI 53154-4533
414-768-7144
FAX: 414-768-7158

May 30, 2003

Project Reference #5700

Ms. Donna Rynders
Greenfield City Clerk
7325 W. Forest Home Avenue
Greenfield, WI 53220

Certified Mail

Subject: Notification of Contamination Within Right-of-Way
4264 S. 60th Street, Greenfield

Dear Ms. Rynders:

Enclosed, please find a copy of the Notification of Contamination within a public right-of-way letter, which was sent to Mr. Steve Helminiak of the City of Greenfield Engineering Department. Wisconsin Administrative Code, Chapter NR 726.05 (2)(b)(4) requires the Municipal Clerk and Municipal Department responsible for maintaining the street or highway be given written notification of the presence of petroleum impacts within the right-of-way. The attached letter serves as this notification. Please place a copy of this notification in the appropriate files.

If you have any questions or comments regarding this notification, please feel free to contact Sigma Environmental Services, Inc. at (414) 768-7144 or Speedway SuperAmerica LLC at (937) 863-7642.

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.

Adam J. Roder

Adam J. Roder, P.E.
Project Engineer

Stephen M. Owens

Stephen M. Owens, P.G.
Project Hydrogeologist

Enclosure: As noted

cc: Keith Hughes, SSA

i:\SSA\5700\ROWnotif.doc

SIGMA
ENVIRONMENTAL SERVICES INC.

220 East Ryan Road
Oak Creek, WI 53154-4533
414-768-7144
FAX: 414-768-7158

May 30, 2003

Project Reference #5700

Mr. Steve Helminiak
City of Greenfield Engineering Department
7325 W. Forest Home Avenue
Greenfield, WI 53220

Certified Mail

Subject: Notification of Contamination Within Right-of-Way
4265 S. 60th Street, Greenfield, Wisconsin

Dear Mr. Helminiak:

On behalf of Speedway SuperAmerica LLC (SSA), Sigma Environmental Services, Inc. (Sigma) is notifying the City of Greenfield Engineering Department of the likely presence of residual petroleum hydrocarbon impacts within groundwater beneath S. 60th Street, located east of SSA Store #2121 at 4265 S. 60th Street, Greenfield, Wisconsin. It is also possible that soil impacted with residual petroleum hydrocarbons may also extend into the right of way for S. 60th Street. Following is a summary of information that must be disclosed according to the Wisconsin Department of Natural Resources (WDNR):

County: Milwaukee
Roadway: S. 60th Street
Site name: SSA Store #2121
Site address: 4265 S. 60th Street, Greenfield, Wisconsin 53220
BRRTS #: 03-41-000158
PECFA #: 53220-3128-65
WDNR FID #: 241373220

Owner's name: Speedway SuperAmerica LLC (contact: Keith Hughes)
Owner's address: P.O. Box 1500, Springfield, OH 45501
Consulting firm: Sigma Environmental Services, Inc.
Consultant contact: Stephen Owens, P.G.
Consultant address: 220 East Ryan Road, Oak Creek, WI 53154
Phone and fax: (414) 768-7144 / (414) 768-7158
Email: sowens@thesigmagroup.com

Soil contamination: Possible
Depth to contaminated soil: Approximately 2 to 6 feet below ground surface (bgs)
Groundwater contamination: Likely
Depth to water table: Approximately 3 to 10 feet bgs
Description of contamination: Gasoline compounds: benzene, ethylbenzene, toluene, xylenes, trimethylbenzenes, methyl-tert-butyl-ether

Summary of cleanup activities: Groundwater quality has been monitored for up to 15 groundwater sampling events between March 1991 and March 2002. Decreasing and/or stable contaminant concentrations in groundwater have been demonstrated; natural attenuation will continue to address residual subsurface impacts.

Groundwater quality map: Attached, see "Groundwater Quality Map"

Soil quality map: Attached, see "Soil Quality Map"

The Wisconsin Department of Commerce will be evaluating the site for case closure in the coming months. As part of the closure process, the SSA Store #2121 property will be listed in the WDNR's Geographic Information System (GIS) Registry for sites with residual groundwater contamination above NR 140 Enforcement Standards and soil contamination above NR 720 Residual Contaminant Levels at the time of closure. Due to the likely off-site groundwater impacts within the western edge of the S. 60th Street right-of-way adjacent to (east of) the SSA property, it will also be listed in the groundwater GIS Registry.

If future construction activities disturb soil within the S. 60th Street right-of-way as described above, the excavated soil may be considered a solid waste and require proper disposal. In addition, if future construction activities require dewatering, or if groundwater is to be otherwise extracted in the vicinity of this area, the groundwater should be sampled and managed in compliance with applicable statutes and rules.

If you have any questions or comments, please contact Sigma at (414) 768-7144 or SSA at (937) 863-7642.

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.

Adam J. Roder

Adam J. Roder, P.E.
Project Engineer

Stephen M. Owens

Stephen M. Owens, P.G.
Project Hydrogeologist

Enclosures:

Groundwater Quality Map
Soil Quality Map

cc: Keith Hughes, SSA

3

Document Number	NOTICE OF CONTAMINATION TO PROPERTY

DOC. # 08865504

REGISTER'S OFFICE | SS
Milwaukee County, WI

RECORDED AT 08:00AM

09/16/2004

JOHN LA FAVE
REGISTER OF DEEDS

AMOUNT: 15.00

Recording Area

Name and Return Address
Land America
4111 Executive Parkway #304
Westerville, OH 43081

In Re:
That part of the Northeast ¼ of Section 22, Township 6 North, Range 21 East, in the City of Greenfield, described as follows: Commencing at the Southeast corner of said ¼ Section; running thence West along the South line of said ¼ Section, 237.27 feet to a point; thence North and parallel to the East line of said ¼ Section 247.29 feet to a point; thence East and parallel to the South line of said ¼ Section, 237.27 feet to a point in the East line of said ¼ Section; thence South along the East line of said ¼ Section, 247.29 feet to the place of beginning, except the East 55 feet and the South 45 feet thereof.

Parcel Identification Number (PIN)

572-89-39

STATE OF WISCONSIN)
) ss
COUNTY OF MILWAUKEE)

Section 1. Speedway SuperAmerica LLC is the owner of the above-described property.

Section 2. One or more petroleum discharges have occurred at this property. Contaminated soil remains in the vicinity of the former underground storage tanks and dispenser islands. Attached to this notice is a figure prepared by Sigma Environmental Services, Inc. that shows the soil boring locations and provides a summary of the soil quality test results. The data for this site (Commerce #53220-3128-65, WDNR BRRTS #03-41-000158) were presented in Sigma's *Case Summary and Request for Case Closure* report dated May 30, 2003.

Section 3. The owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the limitations and/or restrictions described below. The limitations and/or restrictions are hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above described property, whether by descent, devise, purchase or otherwise.

Residual petroleum contaminated soil remains in the area of the pump islands and UST basin, as shown on the attached figure. The property owner has selected a cover barrier of concrete and/or asphalt as the remedial option to limit potential direct contact with the residual petroleum contaminated soil. The site cap must be inspected, repaired and maintained on a regular basis until it can be demonstrated that the site cap is no longer needed. If contaminated soil is encountered during any future subsurface excavation or removal of the site building, the contamination shall be managed in accordance with all applicable laws.

And

Petroleum vapors have been detected within the existing site building, particularly during winter months. The passive subsurface venting system must remain in place to mitigate vapor migration into the existing building. If petroleum vapors are detected, the existing building as well as the subsurface soil should be actively vented as in the past.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Commerce, or its successor, issue a determination that the restrictions set forth in this covenant are no longer required. That property owner shall provide any and all necessary information to the Department in order for the Department to be able to make a determination. Upon receipt of such a request, the Department shall determine whether or not the restrictions contained herein can be extinguished. Conditions under which a restriction may be extinguished will be determined in accordance with the site specific standards, rules and laws for this property. If the Department determines that the restrictions can be extinguished, an affidavit, with a copy of the Department's written determination, may be recorded to give notice that this restriction, or portions of this restriction are no longer binding. Any restriction placed upon this property shall not be extinguished without the Department's written determination.

IN WITNESS WHEROF, the owner of the property has executed this document, this 26 day of August, 2004.

[When appropriate use the following clause]:

By signing this document, [he/she] acknowledges that [he/she] is duly authorized to sign this document on behalf of

Speedway SuperAmerica LLC.

Signature: _____ 8/30/04

Printed Name: Scott Hiser

Title: Manager, Corporate Environmental

Subscribed and sworn to before me

this 26 day of August, 2004.

_____

Notary Public, State of Ohio

My commission RHONDA L. BLAUVELT NOTARY PUBLIC COMMISION EXPIRES NOVEMBER 4, 2006

This document was drafted by the Wisconsin Department of Commerce