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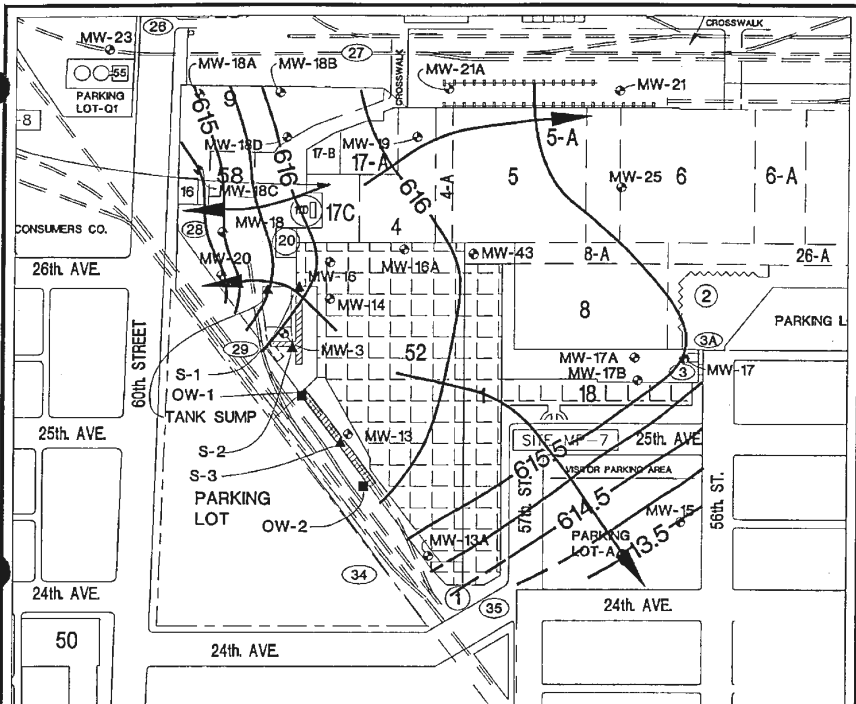
GROUND WATER MONITORING REPORT JULY, 1992

CHRYSLER CORPORATION MAIN PLANT
KENOSHA, WISCONSIN

TE TRIAD
ENGINEERING
INCORPORATED

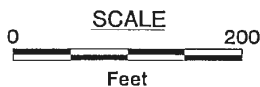
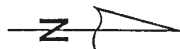
The **Chester** Engineers

 **SIMON** HYDRO-SEARCH



EXPLANATION

- MW-16 MONITOR WELL LOCATION AND DESIGNATION
- OW-1 OBSERVATION WELL LOCATION AND DESIGNATION
- S-1 SUMP LOCATION AND DESIGNATION
- 616 WATER TABLE CONTOUR (ft. msf)
(dashed where inferred)
- DIRECTION OF GROUND-WATER FLOW



NOTE : Water-Table Elevations
Presented in Appendix B

Base map from Chrysler Motors Corp. (6/15/89)

SIMON HYDRO-SEARCH

Brookfield Lakes Corporate Center XII
175 N. Corporate Drive, Suite 100
Brookfield, Wisconsin 53045

CHRYSLER MOTORS CORP.
KENOSHA FACILITIES

PRETEST CONDITIONS
(June 23, 1992)

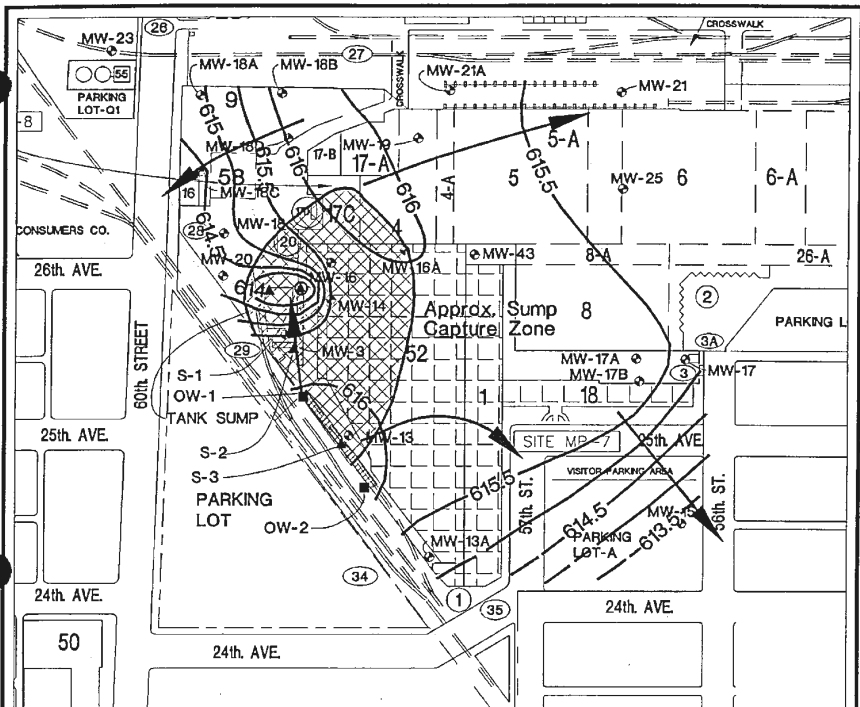
Dsgn. by: Chk. by: Apprv. by:

PROJECT: 251115093

DATE: 07/31/92

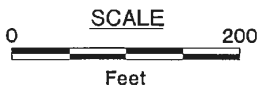
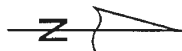
DRAWING NO.: 1509-10

FIGURE: 1



EXPLANATION

- MW-16 MONITOR WELL LOCATION AND DESIGNATION
- OW-1 OBSERVATION WELL LOCATION AND DESIGNATION
- S-1 SUMP LOCATION AND DESIGNATION
- 616 WATER TABLE CONTOUR (ft. msl)
(dashed where inferred)
- DIRECTION OF GROUND-WATER FLOW



Note: Water-Table Elevations
Presented in Appendix B

Base map from Chrysler Motors Corp. (6/15/89)

SIMON HYDRO-SEARCH

Brookfield Lakes Corporate Center XII
175 N. Corporate Drive, Suite 100
Brookfield, Wisconsin 53045

CHRYSLER MOTORS CORP.
KENOSHA FACILITIES

**SUMP 1 7-DAY DRAWDOWN
(June 29, 1992)**

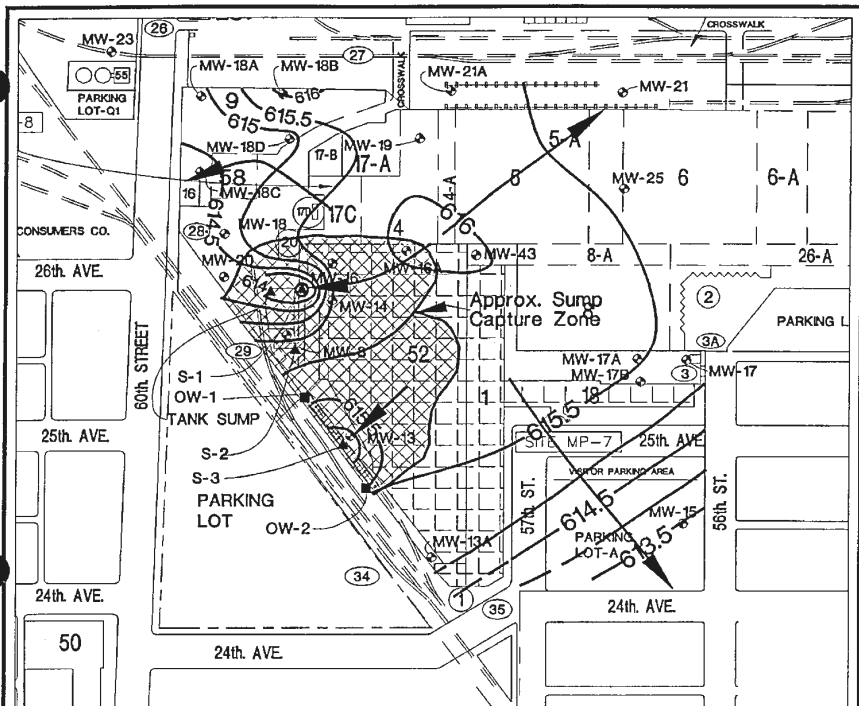
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PROJECT: 251115093

DATE: 07/31/92

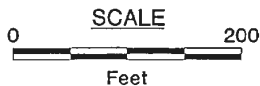
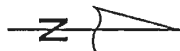
DRAWING NO.: 1509-12

FIGURE: 2



EXPLANATION

- MW-16 MONITOR WELL LOCATION AND DESIGNATION
- OW-1 OBSERVATION WELL LOCATION AND DESIGNATION
- S-1 SUMP LOCATION AND DESIGNATION
- 616 WATER TABLE CONTOUR (ft. msl)
(dashed where inferred)
- DIRECTION OF GROUND-WATER FLOW



Note: Water-Table Elevations
Presented in Appendix B

Base map from Chrysler Motors Corp. (6/15/89)

SIMON HYDRO-SEARCH

Brookfield Lakes Corporate Center XII
175 N. Corporate Drive, Suite 100
Brookfield, Wisconsin 53045

CHRYSLER MOTORS CORP.
KENOSHA FACILITIES

**SUMP 1 AND 2 DRAWDOWN
(July 6, 1992)**

Dsgn. by: Chk. by: Apprv. by:

PROJECT: 251115093

DATE: 07/31/92

DRAWING NO.: 1509-11

FIGURE: 3

Table 1.

Water-Level Observation Points for Trench-Sump Performance Test

<u>Monitor</u>	<u>Sump</u>
MW-3	Sump-1
MW-13A	Sump 2; Observation Sump
MW-14	Tank Sump
MW-15	
MW-16	
MW-16A	
MW-17	
MW-17A	
MW-18	
MW-18A	
MW-18B	
MW-18C	
MW-18D	
MW-19	
MW-20	
MW-21	
MW-21A	
MW-22	
MW-23	
MW-25	
OW-1	
OW-2	

Well and sump locations are depicted on Figure 1

Table 2. Kenosha Main Plant Quarterly Monitor Well Sampling and Analysis Specifications

Site/Well	VOCs (8021)*	BTEX (8020)*	Cyanide (335.2)*		Comments
<u>Site MP-2</u> Well:					
MW-10					Product in well
MW-29	X				
MW-29A	X				
MW-30	X				
MW-31	X				
MW-34R	X				
MW-35B	X				
MW-36A	X				
MW-37	X				
MW-38	X				
MW-40	X				
MW-41	X				
<u>Site MP-3</u> Well:					
MW-11	X				
MW-11A	X				
MW-11B	X				
MW-11C	X				
MW-11D					Well Abandoned
<u>Site MP-5</u> Well:					
MW-5		X			MW-4, MW-5A, MW-6C Will be Used For Water Levels

VOCs = Volatile Organic Compounds

* = EPA Analytical Method Number "Test methods For Evaluating Solid Waste, Physical/chemical Methods", U.S. EPA, SW-846, 3rd Edition, September 1986.

Note: Samples collected for cyanide analysis will be field filtered.

Table 2. Kenosha Main Plant Quarterly Monitor Well Sampling and Analysis Specifications (Cont'd.)

Site/Well	VOCs (8021)*	BTEX (8020)*	Cyanide (335.2)*		Comments
<u>Site MP-7</u>					
Well:					
MW-13					Well Abandoned
MW-13A					
MW-14	X		X		
MW-15	X				
MW-16	X		X		
MW-16A	X		X		
MW-17	X				
MW-17A	X		X		
MW-17B					
MW-43	X		X		
<u>Site MP-8</u>					
Well:					
MW-3					
MW-18	X		X		
MW-18A	X		X		
MW-18B	X		X		
MW-18C	X		X		
MW-18D	X		X		
MW-19	X		X		
MW-20	X		X		
<u>Site MP-9</u>					
Well:					
MW-21	X				
MW-21A	X				
<u>Site MP-16</u>					
Well:					
MW-25	X				
MW-26	X				
MW-27	X				

VOCs = Volatile Organic Compounds

* = EPA Analytical Method Number "Test methods For Evaluating Solid Waste, Physical/chemical Methods", U.S. EPA, SW-846, 3rd Edition, September 1986.

Note: Samples collected for cyanide analysis will be field filtered.

Table 2. Kenosha Main Plant Quarterly Monitor Well Sampling and Analysis Specifications (Cont'd.)

Site/Well	VOCs (8021)*	BTEX (8020)*	Cyanide (335.2)*		Comments
MW-27A	X				
MW-27B	X				
MW-27C	X				
MW-27D	X				
MW-27E	X				
MW-28	X				

VOCs = Volatile Organic Compounds

* = EPA Analytical Method Number "Test methods For Evaluating Solid Waste, Physical/chemical Methods", U.S. EPA, SW-846, 3rd Edition, September 1986.

Note: Samples collected for cyanide analysis will be field filtered.

Table 2-1. Kenosha Main Plant Quarterly Monitor Well Sampling and Analysis Specifications

Site/Well	VOCs (8021)*	BTEX (8020)*	Cyanide (335.2)*		Comments
Site MP-2					
Well:					
MW-10					Product in well
MW-29	X				
MW-29A	X				
MW-30	X				
MW-31	X				
MW-34R	X				
MW-35B					Product in well / Not sampled
MW-36A	X				
MW-37	X				
MW-38	X				
MW-40	X				
MW-41	X				
Site MP-3					
Well:					
MW-11	X				
MW-11A	X				
MW-11B	X				
MW-11C	X				
MW-11D					Well Abandoned
Site MP-4					
Well:					
MW-12	X				
Site MP-5					
Well:					
MW-5		X			MW-4, MW-5A, MW-6C Will be Used For Water Levels

VOCs = Volatile Organic Compounds

* = EPA Analytical Method Number "Test methods For Evaluating Solid Waste, Physical/chemical Methods", U.S. EPA, SW-846, 3rd Edition, September 1986.

Note: Samples collected for cyanide analysis will be field filtered.

Table 2-1. Kenosha Main Plant Quarterly Monitor Well Sampling and Analysis Specifications (Cont'd.)

Site/Well	VOCs (8021)*	BTEX (8020)*	Cyanide (335.2)*		Comments
<u>Site MP-7</u>					
Well:					
MW-13A					
MW-14	X		X		
MW-15	X				
MW-16	X		X		
MW-16A	X		X		
MW-17	X				
MW-17A	X		X		
MW-17B					
MW-43	X		X		
<u>Site MP-8</u>					
Well:					
MW-3					
MW-18	X		X		
MW-18A	X		X		
MW-18B	X		X		
MW-18C					Well was missed during sampling
MW-18D	X		X		
MW-19	X		X		
MW-20	X		X		
<u>Site MP-9</u>					
Well:					
MW-21	X				
MW-21A	X				
<u>Site MP-16</u>					
Well:					
MW-25	X				
MW-26	X				
MW-27	X				
MW-27A	X				
MW-27B	X				

VOCs = Volatile Organic Compounds

* = EPA Analytical Method Number "Test methods For Evaluating Solid Waste, Physical/chemical Methods", U.S. EPA, SW-846, 3rd Edition, September 1986.

Note: Samples collected for cyanide analysis will be field filtered.

Table 2-1. Kenosha Main Plant Quarterly Monitor Well Sampling and Analysis Specifications (Cont'd.)

Site/Well	VOCs (8021)*	BTEX (8020)*	Cyanide (335.2)*		Comments
MW-27C	X				
MW-27D	X				
MW-27E	X				
MW-28	X				

VOCs = Volatile Organic Compounds

* = EPA Analytical Method Number "Test methods For Evaluating Solid Waste, Physical/chemical Methods", U.S. EPA, SW-846, 3rd Edition, September 1986.

Note: Samples collected for cyanide analysis will be field filtered.

Table 3-1. Summary of Detected Constituents in Ground Water, Site MP-2

Parameter	HydroPunch Samples - Phase II							NR 140*	
	MP-2D 89819* 12/20/89	MP-2E 89699* 1/5/90	MP-2G 80038* 1/19/90	MP-2H 80038* 1/19/90	MP-2I 80090* 1/26/90	MP-2J 80090* 1/26/90	MP-2P 89699* 1/5/90	Enforcement Standard	PAL
	<u>Volatile Organic Compounds</u>								
Benzene (0.001)	0.002	0.001	ND	ND	ND	ND	0.005	0.005	0.000067
1,1-Dichloroethene (0.001)	ND	0.002	ND	ND	ND	ND	0.003	0.007	0.000024
trans-1,2-Dichloroethene (0.001)	0.001	0.004	ND	0.005	ND	ND	ND	0.100	0.020
Methylene Chloride (0.001)	0.004	0.002	ND	ND	ND	ND	0.004	0.150	0.015
1,1,1-Trichloroethane (0.001)	0.002	ND	ND	ND	ND	ND	ND	0.200	0.040
Vinyl Chloride (0.010)	1.325	ND	ND	2.130	ND	ND	0.334	0.0002	0.0000015
Xylenes (0.001)	ND	ND	ND	ND	ND	ND	0.130	0.620	0.124
Total BETX	0.002	0.001	ND	ND	ND	ND	0.135	***	***
Total VOCs	1.334	0.009	ND	2.135	ND	ND	0.476	***	***
<u>Total Petroleum Hydrocarbons (TPH) (0.2)</u>	ND	ND	ND	ND	ND	ND	1.5	***	***

NOTE: All values in milligrams per liter (mg/L).

() = Detection Limit (mg/L)

ND = Not Detected

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AIHA Accreditation #352, MDNR Certification #268181760.

** = Per Chapter NR140 of the Wisconsin Administrative Code

*** = No standards currently exist

PAL = Preventive Action Limit

Samples analyzed for VOCs and TPH

NA = Not analyzed

Table 3-1. Summary of Detected Constituents in Ground Water, Site NP-2 (Cont'd.)

Parameter												NR 140*	
	MU-29 B0337*	MU-29 B7978*	MU-29 B9797*	MU-29A B0367*	MU-29A B9797*	MU-30 B0337*	MU-30 B7978*	MU-30 B9797*	MU-31 B0337*	MU-31 B7978*	MU-31 B9797*	Enforcement Standard	PAL
	2/20/90	1/7-8/92	6/24/92	2/23/90	6/24/92	2/20/90	1/20/92	6/24/92	2/20/90	1/7-8/92	6/24/92		
Volatle Organic Compounds													
Toluene (0.001)	ND	0.002	ND	ND	ND	ND	0.002	ND	ND	ND	ND	0.343	0.0686
1,1,1-Trichloroethane (0.001)	ND	0.001	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.230	0.040
Trichloroethene (0.001)	ND	0.003	0.003	ND	0.003	ND	0.005	0.003	ND	ND	0.003	0.305	0.00518
Xylenes (0.001)	ND	0.002	ND	ND	ND	ND	0.002	ND	ND	ND	ND	0.620	0.124
Total BTEX	ND	0.004	ND	ND	ND	ND	0.004	ND	ND	ND	ND	***	***
Total VOCs	ND	0.008	0.003	ND	0.003	ND	0.010	0.003	ND	ND	0.003	***	***
Total Petroleum Hydrocarbons (TPH) (0.2)	ND	NA	NA	ND	NA	ND	NA	NA	ND	NA	NA	***	***

NOTE: All values in milligrams per liter (mg/l).

() = Detection Limit (mg/l)

ND = Not Detected

* = Laboratory Report Number; analysis by Swanson Environmental, Inc., Brookfield, WI, AIMA Accreditation #352, MDR Certification #268181760

** = Per Chapter NR160 of the Wisconsin Administrative Code

*** = No standards currently exist

PAL = Preventive Action Limit

NA = Not analyzed

Table 3-2. Summary of Detected Constituents In Ground Water, MW-1 to MP-2.

PARAMETER	B0337*	B1234*	B1450*	NS	NS	NS	NS	NR 140**	
	2/20/90	5/07/90	6/07/90	12/11/90	2/14/91	4/11/91	1/7-8/92	Enforcement Standard	PAL
Volatile Organic Compounds (VOCs)									
Carbon Tetrachloride (0.001)	ND	0.001	ND	NA	NA	NA	NA	0.005	0.0005
Chloroform (0.001)	ND	0.001	ND	NA	NA	NA	NA	0.006	0.0006
1,1-Dichloroethane (0.001)	ND	0.008	ND	NA	NA	NA	NA	0.050	0.005
trans-1,2-Dichloroethane (0.001)	ND	0.002	ND	NA	NA	NA	NA	0.100	0.020
Ethylbenzene (0.001)	ND	0.003	ND	NA	NA	NA	NA	1.360	0.272
Methylene Chloride (0.001)	ND	0.001	ND	NA	NA	NA	NA	0.150	0.015
Toluene (0.001)	ND	0.004	0.015	NA	NA	NA	NA	0.343	0.0686
1,1,1-Trichloroethane (0.001)	ND	0.001	ND	NA	NA	NA	NA	0.200	0.040
Trichloroethane (0.001)	ND	0.001	ND	NA	NA	NA	NA	0.605	0.00018
Xylenes (0.001)	ND	0.010	ND	NA	NA	NA	NA	0.200	0.124
Total DETX	ND	0.017	0.015	NA	NA	NA	NA	***	***
Total VOCs	ND	0.032	0.015	NA	NA	NA	NA	***	***
Total Petroleum Hydrocarbons (0.2)	ND	0.5	ND	NA	NA	NA	NA	***	***
Petroleum Free-Product Thickness In Well (ft.)	ND	ND	ND	6.67*	5.59*	7.20*	5.08*	***	***

Note: All values in milligrams per liter (mg/L).

() = Detection Limit (mg/L).

ND = Not Detected.

NA = Not Analyzed.

NS = Not Sampled, Product In Well.

PAL = Preventive Action Limit.

* = Product Thickness Measured Using An Olympic Water-Level Probe.

* = Product Thickness Measured Using A Keck Interface Probe.

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield,

Wisconsin, AHA Accreditation #352, WDNR Certification #268181760.

** = Per Chapter NR140 of the Wisconsin Administrative Code.

*** = No standards currently exist.

Table 3-3. Summary of Detected Constituents In Ground Water, MW-34 / MW-34R, Site HP-2

PARAMETER	B1239*	B3712*	B4364*	B4943*	B7978*	B9879*	NR 140**	
	MW-34 5/14/90	MW-34 12/11/90	MW-34R 2/19/91	MW-34R 4/11/91	MW-34R 1/7-8/92	MW-34R 6/25/92	Enforcement Standard	PAL
Volatle Organic Compounds (VOCs)								
1,1-Dichloroethane (0.001)	ND	ND	0.003	ND	ND	ND	0.050	0.085
Methylene Chloride (0.001)	0.005	ND	0.008	ND	ND	ND	0.150	0.015
Toluene (0.001)	ND	ND	ND	ND	0.001	ND	0.343	0.0086
1,1,1 Trichloroethane(0.001)	ND	ND	ND	ND	0.003	ND	0.200	0.040
Trichloroethene (0.001)	ND	ND	ND	ND	0.007	ND	0.005	0.00018
Xylenes (0.001)	ND	ND	ND	ND	0.001	ND	0.620	0.124
Total BETX	ND	ND	ND	ND	0.002	ND	***	***
Total VOCs	0.005	ND	0.011	ND	0.012	ND	***	***
Total Petroleum Hydrocarbons (0.2)	ND	ND	ND	ND	NA	NA	***	***
Petroleum Free-Product Thickness In Well (ft.)	ND	ND	ND	ND	ND	ND	***	***

Note: Damaged monitor well MW-34 was replaced with MW-34R on February 1, 1991.
 All values in milligrams per liter (mg/l).
 () = Detection Limit (mg/l).
 ND = Not Detected.
 PAL = Preventive Action Limit.
 * = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIHA Accreditation #352, WDNR Certification #260181760.
 ** = Per Chapter NR140 of the Wisconsin Administrative Code.
 *** = No standards currently exist.
 NA = Not Analyzed

Table 3-4. Summary of Detected Constituents In Ground Water, MW-35B, Site MP-2

PARAMETER	B1234*	B1234*	NS	NS	NS	B797B*	NR	140**
	(MW-35A, Duplicate)	5/07/90	12/11/90	2/14/91	4/11/91	1/7-8/92	Enforcement Standard	PAL
Volatile Organic Compounds (VOCs)								
Benzene (0.001)	7.505	7.766	NA	NA	NA	17.000	0.005	0.000067
Chloroethane (0.001)	0.018	0.019	NA	NA	NA	0.200	0.400	0.000
Chloroform (0.001)	0.009	0.008	NA	NA	NA	ND(0.100)	0.006	0.0006
1,1-Dichloroethane (0.001)	0.016	ND	NA	NA	NA	ND(0.100)	0.050	0.005
1,2-Dichloroethane (0.001)	0.001	0.002	NA	NA	NA	ND(0.100)	0.005	0.00005
1,1-Dichloroethene (0.001)	0.003	0.013	NA	NA	NA	ND(0.100)	0.007	0.000024
trans-1,2-Dichloroethene (0.001)	0.006	0.005	NA	NA	NA	ND(0.100)	0.100	0.020
Ethylbenzene (0.001)	0.251	0.133	NA	NA	NA	1.500	1.360	0.272
Methylene Chloride(0.001)	0.150	0.004	NA	NA	NA	ND(0.100)	0.010	0.015
Toluene (0.001)	2.154	1.677	NA	NA	NA	17.000	0.343	0.0606
1,1,1-Trichloroethane (0.001)	0.009	0.007	NA	NA	NA	0.250	0.200	0.040
Trichloroethene (0.001)	0.029	0.024	NA	NA	NA	1.500	0.005	0.00018
Vinyl Chloride (0.010)	0.042	0.030	NA	NA	NA	ND(0.500)	0.0002	0.000015
Xylenes (0.001)	1.646	1.436	NA	NA	NA	12.000	0.620	0.124
Total BETX	11.556	11.012	NA	NA	NA	47.50	***	***
Total VOCs	11.699	11.124	NA	NA	NA	47.95	***	***
Total Petroleum Hydrocarbons (0.2)								
	51.5	43.5	NA	NA	NA	NA	***	***
Petroleum Free-Product Thickness In Well (ft.)								
	ND	ND	2.8*	3.95-	0.86-	1.46-	***	***

Note: All values in milligrams per liter (mg/l).
 () = Detection Limit (mg/l).
 ND = Not Detected.
 NS = Not Sampled, Product In Well.
 NA = Not Analyzed.
 PAL = Preventative Action Limit.
 * = Product Thickness Measured Using An Olympic Water-Level Probe.
 - = Product Thickness Measured Using A Keck Interface Probe.
 # = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIIA Accreditation #352, WQNR Certification #268181760.
 ** = Per Chapter NR140 of the Wisconsin Administrative Code.
 *** = No standards currently exist.

Table 3-5. Summary of Detected Constituents In Ground Water, MW-36A, Site MP-2

PARAMETER	B1234*	B3712*	B4368*	B4943*	B7978*	B9797*	NR 140**	
	5/07/90	12/11/90	2/14/91.	4/11/91	1/7-8/92	6/24/92	Enforcement Standard	PAL
Volatile Organic Compounds (VOCs)								
Bromomethane (0.010)	ND	0.380	"	"	"	ND	***	***
Carbon Tetrachloride (0.001)	0.004	ND	ND	ND	ND	ND	0.005	0.0005
Chloroethane (0.001)	ND	ND	0.190	0.120	0.092	0.064	0.400	0.000
trans-1,2-Dichloroethene (0.001)	0.002	ND	ND	ND	ND	ND	0.100	0.020
Methylene Chloride(0.001)	0.003	ND	ND	ND	ND	ND	0.150	0.015
Toluene (0.001)	0.002	ND	ND	ND	ND	ND	0.343	0.0686
Trichloroethene (0.001)	ND	ND	ND	ND	ND	ND	0.003	0.005
Vinyl Chloride (0.010)	ND	ND	0.016	0.006	0.016	ND	0.0002	0.0000015
Xylenes (0.001)	0.004	ND	ND	ND	ND	ND	0.620	0.124
Total BETX	0.006	ND	ND	ND	ND	ND	***	***
Total VOCs	0.015	0.300	0.206	0.126	0.108	0.067	***	***
Total Petroleum Hydrocarbons (0.2)								
	ND	ND(0.4)	ND	ND	NA	NA	***	***
Petroleum Free-Product Thickness In Well (ft.)								
	ND	ND	ND	ND	ND	NA	***	***

Note: All values in milligrams per liter (mg/L).

- () = Detection Limit (mg/L).
 ND = Not Detected.
 ND* = Not Detected at 2 Times Normal Detection Limit
 PAL = Preventive Action Limit.
 " = Bromomethane and Chloroethane co-elute, analytical results reported as either compound.
 * = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIIA Accreditation #352, WDNR Certification #268181760.
 ** = Per Chapter NR140 of the Wisconsin Administrative Code.
 *** = No standards currently exist.
 NA = Not Analyzed

Table 3-6. Summary of Detected Constituents In Ground Water, MW-37, Site HP-2

PARAMETER	B1450*	B3712*	B4368*	B4943*	D7978*	D9946*	NR 140**	
	6/07/90	12/11/90	2/14/91	4/11/91	1/7-8/92	7/7-8/92	Enforcement Standard	PAL
Volatile Organic Compounds (VOCs)								
Benzene (0.001)	0.002	ND	ND	ND	ND	ND	0.005	0.000067
1,1-Dichloroethane (0.001)	ND	0.001	ND	0.001	0.001	0.002	0.850	0.085
Trichloroethene (0.001)	ND	ND	ND	ND	0.001	ND	0.005	0.00010
Total BTEX	ND	ND	ND	ND	ND	ND	***	***
Total VOCs	0.002	0.001	ND	0.001	0.002	0.002	***	***
Total Petroleum Hydrocarbons (0.2)	ND	ND	ND	ND	NA	NA	***	***
Petroleum Free-Product Thickness In Well (ft.)	ND	ND	ND	ND	ND	ND	***	***

Note: All values in milligrams per liter (mg/l).

() = Detection Limit (mg/l).

ND = Not Detected.

PAL = Preventive Action Limit.

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIIA Accreditation #352, UDNR Certification #268181760.

** = Per Chapter NR140 of the Wisconsin Administrative Code.

*** = No standards currently exist.

NA = Not Analyzed.

Table 3-7. Summary of Detected Constituents in Ground Water, MW-3B, Site MP-2

PARAMETER	B1234*	B3712*	B436B*	B4943*	B7978*	B7978*	B7978*	NR 140**	
	5/07/90	12/11/90	2/14/91	4/11/91	1/7-8/92	Dup. MW-300 1/7-8/92	6/24/92	Enforcement Standard	PAL
Volatile Organic Compounds (VOCs)									
Bromomethane (0.010)	"	0.038	"	"	"	"	ND	***	***
Chloroethane (0.001)	0.024*	"	0.010*	0.006*	0.020*	0.032*	0.023	0.400	0.080
Chloroform (0.001)	0.006	ND	ND	ND	0.007	ND	ND	0.006	0.0006
Chloromethane (0.010)	0.014	ND	ND	ND	ND	ND	ND	***	***
Dibromochloromethane (0.002)	ND	ND	ND	ND	0.015	ND	ND	0.215	0.043
1,1-Dichloroethane (0.001)	0.056	0.032	0.026	0.026	0.100	0.093	0.086	0.850	0.005
1,1-Dichloroethene (0.001)	ND	ND	ND	ND	0.001	0.001	ND	0.007	0.000024
trans-1,2-Dichloroethene (0.001)	0.012	0.003	0.010	0.009	0.012	0.013	0.009	0.100	0.020
cis-1,3-Dichloropropene (0.002)	0.003	ND	ND	ND	ND	ND	ND	***	***
Ethylbenzene (0.001)	0.002	ND	ND	ND	ND	ND	ND	1.360	0.272
Methylene Chloride (0.001)	0.003	ND	ND	ND	ND	ND	ND	0.150	0.015
Toluene (0.001)	0.002	ND	ND	ND	ND	ND	ND	0.343	0.0686
1,1,1-Trichloroethane (0.001)	0.009	ND	ND	ND	ND	0.004	ND	0.200	0.040
Trichloroethene (0.001)	0.013	0.005	0.005	0.011	0.014	0.016	0.014	0.005	0.00018
Vinyl Chloride (0.010)	0.331	0.500	0.270	0.540	0.410	0.390	0.260	0.0002	0.0000015
Xylenes (0.001)	0.004	ND	ND	0.004	ND	ND	ND	0.620	0.124
Total BETX	0.008	ND	ND	ND	ND	ND	ND	***	***
Total VOCs	0.479	0.578	0.321	0.596	0.507	0.549	0.392	***	***
Total Petroleum Hydrocarbons (0.2)	ND	ND	ND	ND	NA	NA	NA	***	***
Petroleum Free-Product Thickness In Well (ft.)	ND	ND	ND	ND	ND	ND	NA	***	***

Note: All values in milligrams per liter (mg/l).

() = Detection Limit (mg/l).

ND = Not Detected.

PAL = Preventive Action Limit.

" = Bromomethane and Chloroethane co-elute, analytical results reported as either compound.

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIIA Accreditation #352, WDNR Certification #268181760.

*** = Per Chapter NR140 of the Wisconsin Administrative Code.

**** = No standards currently exist.

Dup. = Field Duplicate

NA = Not Analyzed.

Table 3-8. Summary of Detected Constituents in Ground Water, MW-40, Site MP-2

PARAMETER	D1234*	B3712*	B4368*	B4943*	B7978*	B9797*	NR 140**	
	5/07/90	12/11/90	2/14/91	4/11/91	1/7-8/92	6/24/92	Enforcement Standard	PAL
Volatile Organic Compounds (VOCs)								
Chloroform (0.001)	0.004	ND	ND	ND	ND	ND	0.006	0.0006
1,2-Dichlorobenzene (0.002)	0.003	ND	ND	ND	ND	ND	1.250	0.125
1,3-Dichlorobenzene (0.002)	0.003	ND	ND	ND	ND	ND	1.250	0.125
1,4-Dichlorobenzene (0.002)	0.002	ND	ND	ND	ND	ND	0.075	0.015
Dichlorodifluoromethane (0.001)	ND	ND	0.056	0.025	0.014	ND	***	***
1,1-Dichloroethane (0.001)	0.015	0.007	ND	0.009	0.013	ND	0.850	0.085
trans-1,2-Dichloroethene (0.001)	0.004	ND	ND	ND	ND	ND	0.100	0.020
Ethylbenzene (0.001)	0.002	ND	ND	ND	ND	ND	1.360	0.272
Methylene Chloride(0.001)	0.003	ND	ND	ND	ND	ND	0.150	0.015
Tetrachloroethene (0.001)	0.002	ND	ND	ND	0.001	ND	0.001	0.0001
Toluene (0.001)	0.002	ND	ND	ND	ND	ND	0.343	0.0686
1,1,1-Trichloroethane (0.001)	0.007	ND	ND	0.001	0.004	ND	0.200	0.040
Trichloroethene (0.001)	0.003	0.002	ND	0.002	0.002	ND	0.005	0.00010
Xylenes (0.001)	0.004	ND	ND	0.002	ND	ND	0.620	0.124
Total BETX	0.008	ND	ND	ND	ND	ND	***	***
Total VOCs	0.054	0.009	0.056	0.039	0.034	ND	***	***
Total Petroleum Hydrocarbons (0.2)								
	ND	ND	ND	ND	NA	NA	***	***
Petroleum Free-Product Thickness In Well (ft.)								
	ND	ND	ND	ND	ND	NA	***	***

Note: All values in milligrams per liter (mg/L).

() = Detection Limit (mg/L).

ND = Not Detected.

PAL = Preventive Action Limit.

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIHA Accreditation #352, SDNR Certification #268181760.

** = Per Chapter NR140 of the Wisconsin Administrative Code.

*** = No standards currently exist.

NA = Not Analyzed.

Table 3-9. Summary of Detected Constituents In Ground Water, MW-41, Site MP-2

PARAMETER	B1234*	B3712*	B4368*	B4943*	B7978*	B9797*	NR 140**	
	5/07/90	12/11/90	2/14/91	4/11/91	1/7-8/92	6/24/92	Enforcement Standard	PAL
Volatile Organic Compounds (VOCs)								
Chloroform (0.001)	0.003	ND	ND	ND	ND	ND	0.006	0.0006
trans-1,2-Dichloroethene (0.001)	0.002	ND	ND	ND	ND	ND	0.100	0.020
Ethylbenzene (0.001)	0.002	ND	ND	ND	ND	ND	1.360	0.272
Methylene Chloride(0.001)	0.003	ND	ND	ND	ND	ND	0.150	0.015
Toluene (0.001)	0.002	ND	ND	ND	0.002	ND	0.343	0.0686
1,1,1-Trichloroethane (0.001)	0.003	ND	ND	ND	0.001	ND	0.200	0.040
Trichloroethene (0.001)	0.002	ND	ND	ND	0.004	ND	0.005	0.00018
Xylenes (0.001)	0.004	ND	ND	ND	0.002	ND	0.620	0.124
Total DETX	0.008	ND	ND	ND	0.004	ND	***	***
Total VOCs	0.021	ND	ND	ND	0.009	ND	***	***
Total Petroleum Hydrocarbons (0.2)	ND	ND	ND	ND	NA	NA	***	***
Petroleum Free-Product Thickness In Well (ft.)	ND	ND	ND	ND	ND	NA	***	***

Note: All values in milligrams per liter (mg/l).

() = Detection Limit (mg/l).

ND = Not Detected.

PAL = Preventive Action Limit.

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, ATIA Accreditation #352, WQNR Certification #268181760.

** = Per Chapter NR140 of the Wisconsin Administrative Code.

*** = No standards currently exist.

NA = Not Analyzed

Table 3-10. Summary of Detected Constituents in Ground Water, Sump-40, Site MP-2

PARAMETER	B1234*	B3712*	B4364*	B4943*	NS	NR 140**	
	5/07/90	12/11/90	2/19/91	4/11/91	1/14/92	Enforcement Standard	PAL
Volatile Organic Compounds (VOCs)							
Benzene (0.001)	3.842	0.500	3.950	3.500	NA	0.005	0.000067
Bromomethane (0.001)	*	ND*	0.370*	*	NA	***	***
Chlorobenzene (0.001)	0.000	ND*	ND-	ND	NA	***	***
Chloroethane (0.001)	0.062*	ND*	*	0.109*	NA	0.400	0.080
Chloroform (0.001)	0.004	ND*	ND-	ND	NA	0.006	0.0006
1,2-Dichlorobenzene (0.002)	0.064	ND*	ND-	ND	NA	1.250	0.125
1,3-Dichlorobenzene (0.002)	0.067	ND*	ND-	ND	NA	1.250	0.125
1,4-Dichlorobenzene (0.002)	0.040	ND*	ND-	ND	NA	0.075	0.015
1,1-Dichloroethane (0.001)	0.086	0.005	0.079	0.085	NA	0.850	0.085
cis-1,3-Dichloropropene (0.002)	0.056	ND*	ND-	ND	NA	***	***
Ethylbenzene (0.001)	0.085	0.052	0.350	0.330	NA	1.360	0.272
Methylene Chloride(0.001)	0.045	ND*	ND-	ND	NA	0.150	0.015
Toluene (0.001)	2.657	0.094	0.560	0.330	NA	0.343	0.0686
1,1,1-Trichloroethane (0.001)	0.095	ND*	ND-	ND	NA	0.200	0.040
Trichloroethene (0.001)	0.108	ND*	ND-	ND	NA	0.005	0.00018
Vinyl Chloride (0.010)	0.364	0.044	0.520	0.238	NA	0.0002	0.000015
Xylenes (0.001)	2.625	0.400	1.410	1.300	NA	0.620	0.124
Total DETX	9.209	1.046	6.270	5.360	NA	***	***
Total VOCs	10.288	1.095	7.239	5.792	NA	***	***
Total Petroleum Hydrocarbons (0.2)							
	65.6	6.0	48	35	NA	***	***
Petroleum Free-Product Thickness In Well (ft.)							
	unknown thickness	trace	no trace	sheen	0.01'	***	***

Note: All values in milligrams per liter (mg/L).

- () = Detection Limit (mg/L).
 ND = Not Detected.
 ND* = Not Detected at 5 times normal detection limit. Sample diluted 5 times by laboratory because of high concentration of a non-volatile compound.
 ND- = Not Detected at the analytical limits (50-500 mg/L) listed in the laboratory report. Sample diluted by laboratory because of high concentration of a non-volatile compound.
 PAL = Preventive Action Limit.
 * = Bromomethane and Chloroethane co-elute, analytical results reported as either compound.
 * = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIIA Accreditation #352, MDNR Certification #26818760.
 ** = Per Chapter NR140 of the Wisconsin Administrative Code.
 *** = No standards currently exist.
 NS = Not Sampled
 NA = Not Analyzed

Table 3-11. Summary of Detected Petroleum Product Thicknesses in Monitor Wells/Sumps.

Monitor Well / Sump Location & Designation	7/26/90 (Keck)	12/11/90 (OWLP)	1/22/91 (Keck)	2/14/91 (Keck)	2/19/91 (Keck)	3/19/91 (OWLP)	4/11/91 (Keck)	5/15/91 (OWLP)	9/17-18/91 (Keck)	1/14/92 (Keck)
Site MP-2 -----										
MW-10	0.07	6.67	---	5.59	---	---	7.20	---	5.05	5.08
MW-35B	2.93	2.80	---	3.95	---	---	0.86	---	1.18	1.46
Chrysler Sump-4	trace	trace	---	---	no trace	---	sheen	---	---	0.01
Site MP-3 -----										
MW-11C	trace	trace	---	---	0.38	---	0.09	---	0.50	trace
Site MP-7 -----										
Chrysler Sump-1	0.01	0.06	no trace	---	0.02	sheen	sheen	sheen	---	---
OW-1	<0.01	NM	trace	---	0.01	trace	trace	0.08	---	0.65
OW-2	0.04	NM	trace	---	trace	trace	trace	trace	---	---
Site MP-8 -----										
Chrysler Sump-2	0.05	0.42	0.03	---	0.01	0.02	0.02	0.04	---	0.08
Observation Sump	0.04	0.25	0.01	---	0.01	0.01	0.01	0.10	---	0.01
MW-3	0.11	NM	NM*	---	NM*	0.14	0.07	NM	---	NM*
MW-18C	trace	no trace	no trace	---	no trace	no trace	no trace	no trace	no trace	no trace
MW-18D	0.02	trace	trace	---	no trace	sheen	trace	0.12	0.01	no trace
MW-20	0.02	1.35	NM*	---	NM*	0.07	0.02	0.07	0.10	0.34

Note: All values in feet.

- trace = Thickness less than 0.01 feet, but observed on measuring device.
- = Not Measured as Part of Current Sampling Activities.
- NM = Not Measured, But More Than Trace Quantity.
- NM* = Not Measured, Flush-Mounted Well Cover Iced Over.
- OWLP = Olympic Water Level Probe.
- Keck = Keck Product-Water Interface Probe.

Table 3-12

CHRYSLER KENOSHA MAIN PLANT
CHRYSLER SUMP 4 (HSI SUMP 40)

SAMPLE DATE	SAMPLE PARAMETER				
	BENZENE (PPB)	ETHLY BENZENE (PPB)	TOLUENE (PPB)	XYLENE (PPB)	TPH (PPM)
08/06/90	3100	3.0	1900	2500	23
09/11/90	4500	200	31	2200	52
10/01/90	2500	210	2200	2300	47
11/08/90	ND	ND	ND	ND	ND
12/13/90	2900	5.0	910	2200	240
01/08/91	1100	<1.0	140	670	520
02/06/91	1500	<1.0	52	110	260
03/01/91	2600	<1.0	120	230	4.0
04/12/91	1400	5.0	100	320	96
05/20/91	1400	<1.0	260	940	78
06/03/91	300	<1.0	55	640	49
07/03/91	2400	89	780	860	180
08/05/91	1200	11	300	490	160
09/04/91	2.2	52	390	2000	18
10/01/91	4100	100	940	3900	5.2
11/04/91	190	3.8	77	280	5.7
01/07/91	3500	160	1900	2200	27

(From Triad Engineering, Inc.)

Table 3-13

**CHRYSLER KENOSHA MAIN PLANT
DISCHARGE VOLUME TO SANITARY SEWER**

MONTH	FLOW IN GALLONS			
	SUMP 1	SUMP 2	SUMP 3	SUMP 4
08/90	168,880	87,520	18,920	*** 103,080
09/90	ND	ND	ND	ND
10/90	103,335	119,340	4,800	49,680
11/90	111,800	113,570	12,480	ND
12/90	88,380	81,090	13,780	122,400
01/91	66,960	47,700	4,440	109,920
02/91	68,760	61,200	3,760	75,120
03/91	113,940	108,660	10,560	59,040
04/91	135,000	114,300	9,120	41,760
05/91	313,700	84,600	3,120	199,280
06/91	*124,290	63,450	5,280	201,600
07/91	70,530	36,360	2,880	173,280
08/91	55,200	55,020	6,000	197,520
09/91	49,680	57,150	6,720	203,040
10/91	141,160	112,500	11,040	212,640
11/91	198,480	107,460	9,840	246,480
12/91	230,880	75,690	5,520	151,440
01/92	56,160	**44,100	4,080	251,760

Note:

- * Problem with high hour reading due to plugged suction hose; total time pump was running was not at normal flow rate.
- ** Discharge line frozen, pump taken out of service mid-January.
- *** Pump hour meter not working; flows were estimated.

(From Triad Engineering, Inc.)

Table 3-14. Summary of Detected Constituents in Ground Water, Site MP-3

Parameter	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11A	MW-11A	MW-11A	NR 140**	
	80270*	80688*	81234*	89843*	Duplicate	81234*	87978*	89879*	Enforcement Standard	PAL
	1/23/90	3/19/90	5/8/90	6/26/92	6/26/92	5/8/90	1/7-8/92	6/25/92		
<u>Volatile Organic Compounds</u>										
Chloroethane (0.001)	ND	ND	NA	ND	ND	NA	ND	ND	0.400	0.080
Benzene (0.001)	0.031	0.050	0.078	0.016	0.024	0.039	0.100	<0.005	0.005	0.000067
Ethylbenzene (0.001)	0.001	0.017	0.523	0.340	0.360	0.011	0.007	<0.005	1.360	0.272
Toluene (0.001)	0.019	0.023	0.055	0.021	0.027	0.007	0.006	<0.005	0.343	0.0686
1,1,1-Trichloroethane	NA	ND	NA	<0.010	<0.005	NA	ND	<0.005	0.200	0.040
Trichloroethene	NA	ND	NA	<0.010	<0.005	NA	0.002	<0.005	0.005	0.00018
Xylenes (0.001)	1.271	1.509	2.162	0.980	0.910	0.209	0.200	0.010	0.620	0.124
Total BETX	1.322	1.599	2.818	1.357	1.321	0.266	0.313	0.010	***	***
Total VOCs	1.322	1.599	2.818	1.357	1.321	0.266	0.315	0.010	***	***
Total Petroleum Hydrocarbons (0.2)	6.1	16.0	18.2	NA	NA	2.7	NA	NA	***	***

NOTE: All values in milligrams per liter (mg/l).

() = Detection Limit (mg/l)

ND = Not Detected at or above the detection limit

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AIIHA Accreditation #352, WDNR Certification #268181760

** = Per Chapter NR140 of the Wisconsin Administrative Code

*** = No standards currently exist

PAL = Preventive Action Limit

Samples analyzed for VOCs and TPH

NA = Not analyzed

VOC detection limits for MW-11C ranged from 0.200 to 2.000 mg/l due to dilution of sample.

Table 3-14. Summary of Detected Constituents in Ground Water, Site MP-3 (Cont'd)

Parameter									NR 140**	
	MW-118 81234* 5/8/90	MW-118 B7978* 1/7-8/92	MW-118 B9946* 7/7&8/92	MW-11C 81234* 5/8/90	MW-11C B7978* 1/7-8/92	MW-11C B9946* 7/7&8/92	MW-11C DUPLICATE B9946* 7/7&8/92	MW-11D 81234* 5/7/90	Enforcement Standard	PAL
Volatiles Organic Compounds										
Chloroethane (0.001)	NA	ND	ND	NA	ND	0.240	0.270	NA	0.400	0.080
Benzene (0.001)	0.002	ND	ND	0.009	ND(0.200)	<0.010	<0.010	0.002	0.005	0.000067
Ethylbenzene (0.001)	0.002	ND	ND	0.009	ND(0.200)	<0.010	<0.010	0.002	1.360	0.272
Toluene (0.001)	0.001	ND	ND	0.006	0.200	<0.010	<0.010	0.001	0.343	0.0686
1,1,1-Trichloroethane	NA	ND	ND	NA	0.360	<0.010	<0.010	NA	0.200	0.040
Trichloroethene	NA	ND	ND	NA	0.740	<0.010	<0.010	NA	0.005	0.00018
Xylenes (0.001)	ND	ND	ND	0.007	ND(0.200)	0.013	0.015	ND	0.620	0.124
Total BETX	0.005	ND	ND	0.031	0.200	0.013	0.015	0.005	***	***
Total VOCs	0.005	ND	ND	0.031	1.300	0.253	0.285	0.005	***	***
Total Petroleum Hydrocarbons (0.2)	ND	NA	NA	0.4	NA	NA	NA	ND	***	***

NOTE: All values in milligrams per liter (mg/L).

() = Detection Limit (mg/L)

ND = Not Detected at or above the detection limit

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AIHA Accreditation #352, MDNR Certification #268181760

** = Per Chapter NR140 of the Wisconsin Administrative Code

*** = No standards currently exist

PAL = Preventive Action Limit

Samples analyzed for VOCs and TPH

NA = Not analyzed

VOC detection limits for MW-11C ranged from 0.200 to 2.000 mg/L due to dilution of sample.

Table 3-15. Summary of Detected Constituents in Ground-Water Samples, Site MP-16

Parameter	MW-25 Phase II B0290*	MW-25 B7978*	MW-25 B9946*	MW-26 Phase II B0337*	MW-26 B7978*	MW-26 B9879*	MW-27 Phase II B0337*	MW-27 Phase III B0715*	MW-27 B7978*	MW-27 B9879*	NR 140**	
	(01/24/90)	(01/07/92)	(7/788/92)	(01/20/90)	(01/07/92)	(06/25/92)	(01/20/90)	(03/29/90)	(01/13/92)	(06/25/92)	Enforce- ment Standard	PAL
Metals												
Cyanides (dissolved)(0.01)	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA		
Volatile Organic Compounds (VOCs) (0.05)												
Benzene (0.001)	ND	NA	<0.025	ND	ND	ND	ND	ND	ND	ND	0.005	0.000067
Chloroethane (0.001)	ND	NA	<0.025	ND	ND	ND	ND	ND	ND	ND	0.400	0.080
Chloroform (0.001)	ND	NA	<0.025	ND	ND	ND	ND	ND	0.001	ND	0.006	0.0006
Carbon Tetrachloride (0.001)	ND	NA	<0.025	ND	ND	ND	ND	0.001	ND	ND	0.005	0.0005
Cis-1,2-Dichloroethene (0.001)	ND	NA	NA	ND	ND	NA	ND	0.082	ND	NA	0.100	0.010
1,1-Dichloroethane (0.001)	ND	NA	<0.025	ND	ND	ND	0.011	0.003	0.009	0.005	0.850	0.085
1,2-Dichloroethane (0.001)	ND	NA	<0.025	ND	ND	ND	0.006	ND	ND	ND	0.0005	0.00005
1,1-Dichloroethene (0.001)	ND	NA	<0.025	ND	ND	ND	ND	ND	ND	ND	0.007	0.000024
Ethylbenzene (0.001)	ND	NA	<0.025	ND	ND	ND	ND	ND	ND	ND	1.360	0.272
Toluene (0.001)	ND	NA	<0.025	ND	ND	ND	ND	ND	ND	ND	0.363	0.0686
Trans-1,2-Dichloroethene (0.001)	ND	NA	0.740	ND	ND	ND	0.162	0.17	0.089	0.087	0.100	0.020
Trichloroethene (0.001)	ND	NA	0.370	ND	ND	ND	0.005	0.003	0.002	ND	0.005	0.00018
Trans-1,3-Dichloropropene (0.002)	ND	NA	<0.050	ND	ND	ND	ND	ND	ND	0.087	***	***
1,1,1-Trichloroethane(0.001)	ND	NA	<0.025	ND	0.004	0.002	0.013	0.002	0.011	0.003	0.200	0.040
Vinyl Chloride (0.010)	ND	NA	0.160	ND	ND	<0.010	ND	ND	ND	<0.010	0.0002	0.0000015
Xylenes (0.001)	ND	NA	0.039	ND	ND	ND	ND	0.003	ND	ND	0.620	0.124
Total BETX	ND	NA	0.039	ND	ND	ND	ND	0.003	ND	ND	***	***
Total VOCs	ND	NA	1.309	ND	0.004	0.002	0.197	0.264	0.112	0.182	***	***
Total Petroleum Hydrocarbons (TPH) (5)	ND	NA	NA	ND	ND	NA	ND	0.6	ND	NA	***	***

NOTE: All values in milligrams per liter (mg/l)

- () = Detection Limit (mg/l)
 ND = Not Detected at or above detection limit
 NA = Not Analyzed
 PAL = Preventive Action Limit
 * = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AIHA Accreditation #352, MDNR Certification #268181760.
 ** = Per Chapter NR140 of the Wisconsin Administrative Code
 *** = No standards currently exist

Table 3-15. Summary of Detected Constituents in Ground-Water Samples, Site MP-16 (Cont'd.)

Parameter	MW-27A Phase III B0718*	MW-27A Phase III B1730*	MW-27A B7978*	MW-27A B9843*	MW-27B Phase III B0718*	MW-27B Phase III B1730*	MW-27B B7978*	MW-27B B9879*	NR 140**	
	(03/27/90)	(06/27/90)	(01/07/92)	(06/26/92)	(03/27/90)	(06/27/90)	(01/07/92)	(06/25/92)	Enforce- ment Standard	PAL
Metals										
Cyanides (dissolved)(0.01)	NA	NA	ND	NA	NA	NA	ND	NA		
Volatile Organic Compounds (VOCs) (0.05)										
Benzene (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.00067
Chloroethane (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	***	***
Chloroform (0.001)	ND	ND	ND	ND	ND	0.002	ND	ND	0.006	0.0006
Carbon Tetrachloride (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.0005
Cis-1,2-Dichloroethene (0.0001)	ND	ND	ND	NA	ND	ND	ND	NA	0.100	0.010
1,1-Dichloroethane (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.850	0.085
1,2-Dichloroethane (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	0.00005
1,1-Dichloroethene (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.000024
Ethylbenzene (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	1.360	0.272
Toluene (0.001)	ND	ND	0.001	ND	0.003	ND	ND	ND	0.343	0.0686
Trans-1,2-Dichloroethene (0.001)	ND	ND	ND	0.006	ND	ND	ND	ND	0.100	0.020
Trichloroethene (0.001)	ND	ND	0.002	0.023	0.013	0.033	0.043	0.027	0.005	0.00018
Trans-1,3-Dichloropropene (0.002)	ND	ND	ND	ND	ND	ND	ND	ND	***	***
1,1,1-Trichloroethane(0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.200	0.040
Vinyl Chloride (0.010)	ND	ND	ND	ND	ND	ND	ND	ND	0.0002	0.000015
Xylenes (0.001)	ND	ND	0.002	ND	0.003	ND	ND	ND	0.620	0.124
Total BETX	ND	ND	0.003	ND	0.006	ND	ND	ND	***	***
Total VOCs	ND	ND	0.005	0.029	0.019	0.035	0.043	0.027	***	***
Total Petroleum Hydrocarbons (TPH) (5)	ND	ND	NA	NA	ND	ND	NA	NA	***	***

NOTE: All values in milligrams per liter (mg/l)

- () = Detection Limit (mg/l)
 ND = Not Detected at or above detection limit
 NA = Not Analyzed
 PAL = Preventive Action Limit
 * = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AIHA Accreditation #352, MDNR Certification #268181760.
 ** = Per Chapter NR140 of the Wisconsin Administrative Code
 *** = No standards currently exist

Table 3-15. Summary of Detected Constituents in Ground-Water Samples, Site MP-16 (Cont'd.)

Parameter	MW-278D (Dup 27-B) B9798*	MW-278 (Dup.) B9799*	MW-27C Phase III B0718*	MW-27C Phase III B1730*	MW-27C B0943*	MW-27D Phase III B0718*	MW-27D Phase III B1730*	MW-27D B7978*	NR 140**	
	(01/07/92)	(06/26/92)	(03/27/90)	(06/27/89)	(06/26/92)	(03/27/90)	(06/27/90)	(01/07/92)	Enforce- ment Standard	PAL
Metals										
Cyanides (dissolved)(0.01)	ND	NA	NA	NA	NA	NA	NA	ND		
Volatile Organic Compounds										
(VOCs) (0.05)									0.005	0.00067
Benzene (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	***	***
Chloroethane (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.006	0.0006
Chloroform (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.0005
Carbon Tetrachloride (0.001)	ND	NA	ND	ND	NA	ND	ND	ND	0.100	0.010
Cis-1,2-Dichloroethene (0.0001)	ND	ND	ND	ND	ND	ND	ND	ND	0.850	0.085
1,1-Dichloroethane (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	0.00005
1,2-Dichloroethane (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.000024
1,1-Dichloroethene (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	1.360	0.272
Ethylbenzene (0.001)	0.001	ND	ND	ND	ND	ND	ND	ND	0.343	0.0686
Toluene (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.100	0.020
Trans-1,2-Dichloroethene (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.00018
Trichloroethene (0.001)	0.042	0.027	ND	ND	ND	ND	ND	ND	***	***
Trans-1,3-Dichloropropene (0.002)	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.00018
1,1,1-Trichloroethane(0.001)	0.002	ND	ND	ND	ND	ND	ND	ND	0.200	0.040
Vinyl Chloride (0.010)	ND	ND	ND	ND	ND	ND	ND	ND	0.0002	0.0000015
Xylenes (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	0.620	0.124
Total BETX	0.001	ND	ND	ND	ND	ND	ND	ND	***	***
Total VOCs	0.045	0.027	ND	ND	ND	ND	ND	ND	***	***
Total Petroleum Hydrocarbons (TPH) (5)	NA	NA	ND	ND	NA	ND	ND	NA	***	***

NOTE: All values in milligrams per liter (mg/l)

- () = Detection Limit (mg/l)
 ND = Not Detected at or above detection limit
 NA = Not Analyzed
 PAL = Preventive Action Limit
 * = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AIHA Accreditation #352, WDNR Certification #268181760.
 ** = Per Chapter NR140 of the Wisconsin Administrative Code
 *** = No standards currently exist

Table 3-15. Summary of Detected Constituents in Ground-Water Samples, Site MP-16 (Cont'd.)

Parameter	MW-27D	MW-27E	MW-27E	MW-27E	MW-27E	MW-28	MW-28	NR 140**	
	B9843*	Phase III B0718*	Phase III B1730*	B7978*	B9843*	Phase II B0337*	B9843*	Enforce- ment Standard	PAL
	(06/26/92)	(03/27/90)	(06/27/90)	(01/07/92)	(06/26/92)	(01/20/90)	(06/26/92)		
Metals									
Cyanides (dissolved)(0.01)	NA	NA	NA	ND	NA	ND	NA		
Volatile Organic Compounds (VOCs) (0.05)									
Benzene (0.001)	ND	ND	ND	ND	ND	ND	ND	0.005	0.000067
Chloroethane (0.001)	ND	ND	ND	ND	ND	ND	ND	***	***
Chloroform (0.001)	ND	ND	ND	ND	ND	ND	ND	0.006	0.0006
Carbon Tetrachloride (0.001)	ND	ND	ND	ND	ND	ND	ND	0.005	0.0005
Cis-1,2-Dichloroethene (0.0001)	NA	ND	ND	ND	NA	ND	NA	0.100	0.010
1,1-Dichloroethane (0.001)	ND	ND	ND	ND	ND	ND	ND	0.850	0.085
1,2-Dichloroethane (0.001)	ND	ND	ND	ND	ND	ND	ND	0.0005	0.00005
1,1-Dichloroethene (0.001)	ND	ND	ND	ND	ND	ND	ND	0.007	0.000024
Ethylbenzene (0.001)	ND	ND	ND	ND	ND	ND	ND	1.360	0.272
Toluene (0.001)	ND	ND	ND	ND	ND	ND	ND	0.343	0.0686
Trans-1,2-Dichloroethene (0.001)	ND	ND	ND	0.070	0.047	ND	ND	0.100	0.020
Trichloroethene (0.001)	ND	0.010	0.001	0.045	0.300	ND	ND	0.005	0.00018
Trans-1,3-Dichloropropene (0.002)	ND	ND	ND	ND	ND	ND	ND	***	***
1,1,1-Trichloroethane(0.001)	ND	ND	ND	0.003	ND	ND	ND	0.200	0.040
Vinyl Chloride (0.010)	ND	ND	ND	0.050	0.014	ND	ND	0.0002	0.0000015
Xylenes (0.001)	ND	ND	ND	ND	ND	ND	ND	0.620	0.124
Total BETX	ND	ND	ND	ND	ND	ND	ND	***	***
Total VOCs	ND	0.010	0.001	0.168	0.361	ND	ND	***	***
Total Petroleum Hydrocarbons (TPH) (5)	NA	NA	ND	NA	NA	ND	NA	***	***

NOTE: All values in milligrams per liter (mg/L)

() = Detection Limit (mg/L)

ND = Not Detected at or above detection limit

NA = Not Analyzed

PAL = Preventive Action Limit

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AIHA Accreditation #352, WDMR Certification #268181760.

** = Per Chapter NR140 of the Wisconsin Administrative Code

*** = No standards currently exist

Table 3-16. Summary of Detected Constituents in Ground-Water Samples, Site MP-7 (Cont'd)

Parameter	MU-14 Phase III B1235* (05/09/90)	MU-14 B2052* (01/14/92)	MU-14 B9946* (7/745/92)	MU-15 Phase II B0041* (12/28/90)	MU-15 B8042* (01/09/92)	MU-15 B9946* (7/748/92)	MU-16 Phase III B0041* (12/28/89)	MU-16(A) (Dup. MU-16) B0041*	MU-16 Phase III B1235* (05/09/90)	MU-16 Phase III B3712* (12/11/90)	MU-16 Phase III B6095* (01/22/91)	MU-16 Phase III B4366* (02/19/91)	MU-16 Phase III B4662* (03/19/91)	MU-16 Phase III B4943* (04/11/91)	NR 140**	
	Enforcement Standard	PAL														
Metals																
Cyanides (total)(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	0.62	NA	NA	NA	NA	NA	0.200	0.040
Cyanides (soluble)(0.005)	ND	0.02	ND (0.01)	ND	NA	NA	0.517	0.083	0.58	0.72	0.80	0.64	0.71	0.62	0.010	0.001
Cadmium (soluble)(0.0002)	NA	NA	NA	ND	NA	NA	0.0002	0.0003	NA	NA	NA	NA	NA	NA	0.050	0.005
Chromium (soluble)(0.001)	NA	NA	NA	ND	NA	NA	0.001	ND	NA	NA	NA	NA	NA	NA	0.050	0.005
Zinc (soluble)(0.005)	NA	NA	NA	0.03	NA	NA	0.12	ND	NA	NA	NA	NA	NA	NA	5.0	2.5
Volatile Organic Compounds (VOCs)																
Benzene (0.001)	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.005	0.00067
Chloroform (0.001)	NA	ND	ND	ND	ND	ND	ND	0.031	NA	NA	NA	NA	NA	NA	0.005	0.0006
Dichloroethane	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.400	0.080
1,1-Dichloroethane (0.001)	NA	ND	ND	ND	ND	ND	0.008	0.009	NA	NA	NA	NA	NA	NA	0.850	0.085
1,2-Dichloroethane (0.001)	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.005	0.00005
Trans-1,2-Dichloroethane (0.001)	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.100	0.020
Ethylbenzene (0.001)	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	1.360	0.272
Methylene Chloride (0.001)	NA	ND	<0.002	ND	ND	<0.002	ND	ND	NA	NA	NA	NA	NA	NA	0.150	0.015
Toluene (0.001)	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	0.363	0.0686
Trichloroethene (0.001)	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	0.005	0.00018
1,1,1-Trichloroethane(0.001)	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	0.200	0.040
Xylenes (0.001)	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	0.620	0.124
Total BTEX	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	***	***
Total VOCs	NA	ND	ND	ND	ND	ND	0.008	0.010	NA	NA	NA	NA	NA	NA	***	***
Total Petroleum Hydrocarbons (TPH) (5)	NA	ND	NA	ND	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	***	***

NOTE: All values in milligrams per liter (mg/l).

(-) = Detection Limit (mg/l)

ND = Not Detected at or above detection limit

NA = Not Analyzed

PAL = Preventative Action Limit

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AHA Accreditation #352, MDNR Certification #26818760.

** = Per Chapter NR150 of the Wisconsin Administrative Code

*** = No standards currently exist

Table 3-16. Summary of Detected Constituents in Ground-Water Samples, Site MP-7 (Cont'd)

Parameter	MU-16 Phase III 85189* (05/15/91)	MU-16 88952* (01/14/92)	MU-16 89946* (7/788/92)	MU-16 Duplicate 89946* (7/788/92)	MU-16B Dup MU-16 88952* (01/14/92)	MU-16A Phase III 81235* (05/09/90)	MU-16A Phase III 83712* (12/11/90)	MU-16A Phase III 84809* (01/22/91)	MU-16A Phase III 84364* (02/19/91)	MU-16A Phase III 84662* (03/19/91)	MU-16A Phase III 84943* (04/11/91)	MU-16A Phase III 85189* (05/15/91)	MU-16A 88042* (01/14/92)	MU-16A 89946* (7/788/92)	NR 140**	
															Enforcement Standard	PAL
Metals																
Cyanides (total)(0.005)	NA	NA	NA	NA	NA	0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanides (soluble)(0.005)	0.675	ND	0.24	0.68	0.68	0.11	0.22	0.152	0.109	0.105	0.069	0.052	0.03	0.04	0.200	0.040
Cadmium (soluble)(0.002)	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	0.010	0.001
Chromium (soluble)(0.001)	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	0.050	0.005
Zinc (soluble)(0.005)	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	5.0	2.5
Volatile Organic Compounds																
(VOCs)																
Benzene (0.001)	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	0.005	0.00067
Chloroform (0.001)	NA	ND	ND	ND	ND	0.001	NA	NA	NA	NA	NA	NA	ND	ND	0.006	0.0036
Chloroethane (0.001)	NA	0.001	ND	0.001	0.002	ND	NA	NA	NA	NA	NA	NA	ND	ND	0.400	0.090
1,1-Dichloroethane (0.001)	NA	ND	0.001	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	0.850	0.085
1,2-Dichloroethane (0.001)	NA	ND	ND	ND	ND	0.001	NA	NA	NA	NA	NA	NA	ND	ND	0.005	0.00095
Trans-1,2-Dichloroethane (0.001)	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	0.100	0.020
Ethylbenzene (0.001)	NA	ND	ND	ND	ND	0.002	NA	NA	NA	NA	NA	NA	ND	ND	1.560	0.272
Methylene Chloride (0.001)	NA	0.002	<0.002	<0.002	0.004	ND	NA	NA	NA	NA	NA	NA	ND	ND	<0.002	0.150
Toluene (0.001)	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	0.343	0.015
Trichloroethane (0.001)	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	0.005	0.00018
1,1,1-Trichloroethane(0.001)	NA	ND	0.001	ND	ND	0.001	NA	NA	NA	NA	NA	NA	ND	ND	0.200	0.040
Xylenes (0.001)	NA	ND	ND	ND	ND	0.006	NA	NA	NA	NA	NA	NA	ND	ND	0.620	0.124
Total BTEX	NA	ND	ND	ND	ND	0.008	NA	NA	NA	NA	NA	NA	ND	ND	***	***
Total VOCs	NA	0.003	0.002	0.001	0.006	0.011	NA	NA	NA	NA	NA	NA	ND	ND	***	***
Total Petroleum Hydrocarbon (TPH) (5)	NA	NA	NA	NA	NA	0.3	NA	NA	NA	NA	NA	NA	NA	NA	***	***

NOTE: All values in milligrams per liter (mg/l).

- () = Detection Limit (mg/l)
- ND = Not Detected at or above detection limit
- = = Not Analyzed
- PAL = Preventative Action Limit
- * = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AIMA Accreditation #552, MWR Certification #268181760, Appendix C.
- ** = Per Chapter NR160 of the Wisconsin Administrative Code
- *** = No standards currently exist
- ^ = Water sampled collected with a Hydro-Punch.

Table 3-16. Summary of Detected Constituents in Ground-Water Samples, Site MP-7 (Cont'd)

Parameter	MU-17 Phase II B0041* (12/28/89)	MU-17 B7978* (01/07/92)	MU-17 B9946* (7/7&8/92)	MU-17A Phase II B0469* (03/05/90)	MU-17A Phase III B0688* (03/19/90)	MU-17A B7978* (01/07/92)	MU-17A B9946* (7/7&8/92)	MU-17B Phase II B0459* (03/05/90)	MU-17B Phase III B0688* (03/19/90)	MU-17B B7978* (01/07/92)	MU-43 Phase II B2092* (07/31/90)	MU-43 Phase III B3712* (12/11/90)	MU-43 Phase III B4089* (01/22/91)	MU-43 Phase III B4356* (02/19/91)	NR 140**	
	Enforcement Standard	PAL														
Metals																
Cyanides (total)(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.200	0.040
Cyanides (soluble)(0.005)	0.005	NA	NA	NA	NA	ND (0.01)	ND (0.01)	NA	NA	NA	NA	NA	NA	NA	0.010	0.001
Cadmium (soluble)(0.002)	0.0003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.050	0.005
Chromium (soluble)(0.001)	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0	2.5
Zinc (soluble)(0.005)	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Volatile Organic Compounds (VOCs)																
Benzene (0.001)	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	0.005	0.00067
Chloroform (0.001)	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND	ND	NA	NA	NA	0.006	0.0006
Chloroethane (0.001)	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND	ND	NA	NA	NA	0.400	0.080
1,1-Dichloroethane (0.001)	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND	0.002	NA	NA	NA	0.850	0.085
1,2-Dichloroethane (0.001)	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND	ND	NA	NA	NA	0.005	0.00005
Trans-1,2-Dichloroethane (0.001)	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND	0.012	NA	NA	NA	0.100	0.020
Ethylbenzene (0.001)	ND	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	NA	NA	NA	1.360	0.272
Methylene Chloride (0.001)	ND	ND	-0.002	NA	NA	ND	-0.002	NA	NA	ND	ND	NA	NA	NA	0.150	0.015
Toluene (0.001)	ND	ND	ND	ND	ND	0.001	ND	0.001	ND	ND	ND	NA	NA	NA	0.343	0.0666
Trichloroethane (0.001)	ND	ND	ND	NA	NA	0.001	ND	NA	NA	ND	0.024	NA	NA	NA	0.005	0.00018
1,1,1-Trichloroethane(0.001)	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND	ND	NA	NA	NA	0.200	0.040
Xylenes (0.001)	ND	ND	ND	0.001	ND	0.001	ND	0.075	0.015	ND	ND	NA	NA	NA	0.620	0.124
Total BETX	ND	ND	ND	0.002	ND	0.002	ND	0.078	0.015	ND	ND	NA	NA	NA	***	***
Total VOCs	ND	ND	ND	0.002	NA	0.003	ND	0.078	0.015	ND	0.038	NA	NA	NA	***	***
Total Petroleum Hydrocarbons (TPH) (5)	ND	NA	NA	ND	ND	NA	NA	1.8	0.77	NA	ND	NA	NA	NA	***	***

NOTE: All values in milligrams per liter (mg/L).

() = Detection Limit (mg/L)

ND = Not Detected at or above detection limit

NA = Not Analyzed

PAL = Preventative Action Limit

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AHA Accreditation #552, MDR Certification #268181760.

** = Per Chapter NR140 of the Wisconsin Administrative Code

*** = No standards currently exist

Table 3-16. Summary of Detected Constituents in Ground-Water Samples, Site MP-7 (Cont'd)

Parameter	MW-43 Phase III B4662* (03/19/91)	MW-43 Phase III B4943* (04/11/91)	MW-43 Phase III B5189* (05/15/91)	MW-43 B8042* (01/10/92)	MW-43 Duplicate B8042* (01/10/92)	MW-43 B8946* (7/7&8/92)	NR 140**	
							Enforcement Standard	PAL
Metals								
Cyanides (total)(0.005)	NA	NA	NA	NA	NA	NA	0.200	0.040
Cyanides (soluble)(0.005)	0.053	0.046	0.074	0.01	0.04	ND (0.01)	0.010	0.001
Cadmium (soluble)(0.0002)	NA	NA	NA	NA	NA	NA	0.050	0.005
Chromium (soluble)(0.001)	NA	NA	NA	NA	NA	NA	5.0	2.5
Zinc (soluble)(0.005)	NA	NA	NA	NA	NA	NA		
Volatile Organic Compounds (VOCs)								
Benzene (0.001)	NA	NA	NA	ND	ND	ND	0.005	0.00067
Chloroform (0.001)	NA	NA	NA	ND	ND	ND	0.006	0.0006
Chloroethane (0.001)	NA	NA	NA	ND	ND	ND	0.400	0.080
1,1-Dichloroethane (0.001)	NA	NA	NA	0.001	0.001	0.003	0.850	0.085
1,2-Dichloroethane (0.001)	NA	NA	NA	ND	ND	ND	0.005	0.00005
Trans-1,2-Dichloroethane (0.001)	NA	NA	NA	0.008	0.008	0.013	0.100	0.020
Ethylbenzene (0.001)	NA	NA	NA	ND	ND	ND	1.360	0.272
Methylene Chloride (0.001)	NA	NA	NA	NA	NA	<0.002	0.150	0.015
Toluene (0.001)	NA	NA	NA	ND	ND	ND	0.343	0.0686
Trichloroethene (0.001)	NA	NA	NA	0.014	0.014	0.022	0.005	0.00018
1,1,1-Trichloroethane(0.001)	NA	NA	NA	ND	ND	ND	0.200	0.040
Xylenes (0.001)	NA	NA	NA	ND	ND	ND	0.620	0.124
Total BETX	NA	NA	NA	ND	ND	ND	***	***
Total VOCs	NA	NA	NA	0.023	0.023	0.038	***	***
Total Petroleum Hydrocarbons (TPH) (5)	NA	NA	NA	NA	NA	NA	***	***

NOTE: All values in milligrams per liter (mg/l).

() = Detection Limit (mg/l)

ND = Not Detected at or above detection limit

NA = Not Analyzed

PAL = Preventative Action Limit

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AIHA Accreditation #352, WDNR Certification #268181760.

** = Per Chapter NR140 of the Wisconsin Administrative Code

*** = No standards currently exist

Table 3-17. Summary of Detected Constituents in Ground-Water Samples, Site NP-8

Parameter	MW-3		MW-18				NR 140**	
	MW-3 Phase I B8451* (6/01/90)	MW-3 Phase II 80337* (1/30/90)	MW-18 Phase II 80270* (1/23/90)	MW-18 Phase III B1239* (5/14/90)	MW-18 B8042* (1/09/92)	MW-18 B9946* (7/7&8/92)	Enforcement Standard	PAL
Metals								
Cadmium (total)(0.0002)	0.008	0.012	NA	NA	NA	NA		
Chromium (total)(0.001)	0.1	0.022	NA	NA	NA	NA		
Cyanides (total)(0.005)	0.008	NA	NA	0.020	NA	NA		
Lead (total)(0.02)	0.14	0.065	NA	NA	NA	NA		
Nickel (total)(0.02)	0.13	ND	NA	NA	NA	NA		
Zinc (total)(0.005)	0.94	0.46	NA	NA	NA	NA		
Cadmium (soluble)(0.0002)	NA	0.0002	NA	NA	NA	NA	0.010	0.001
Chromium (soluble)(0.001)	NA	0.001	NA	NA	NA	NA	0.050	0.005
Cyanides (soluble)(0.005)	NA	NA	NA	0.007	0.01	0.02	0.200	0.040
Lead (soluble)(0.02)	NA	ND	NA	NA	NA	NA	0.050	0.005
Nickel (soluble)(0.02)	NA	ND	NA	NA	NA	NA	***	***
Zinc (soluble)(0.005)	NA	0.03	NA	NA	NA	NA	5.0	2.5
Base/Neutral/Acid Extraction (BNAs)								
Naphthalene (0.010)	ND	NA	NA	NA	NA	NA	***	***
Phenols (0.005)	0.049	NA	NA	NA	NA	NA	***	***
Total BNAs	0.049	NA	NA	NA	NA	NA	***	***
Volatile Organic Compounds (VOCs)								
Acetone (0.050)	ND	ND	NA	NA	ND	NA	***	***
Carbon Tetrachloride (0.001)	ND	ND	NA	ND	ND	ND	0.005	0.0005
Chloroethane (0.001)	ND	ND	NA	ND	ND	ND	0.400	0.080
Chloroform (0.001)	ND	ND	NA	ND	ND	ND	0.006	0.0006
1,2-Dichlorobenzene (0.001)	ND	ND	NA	ND	ND	<0.020	1.250	0.125
1,3-Dichlorobenzene (0.001)	ND	ND	NA	ND	ND	<0.020	1.250	0.125
1,4-Dichlorobenzene (0.001)	ND	ND	NA	ND	ND	<0.020	0.075	0.015
1,1-Dichloroethane (0.001)	ND	ND	NA	0.010	0.007	0.004	0.850	0.085
1,2-Dichloroethane (0.001)	ND	ND	NA	0.002	ND	ND	0.005	0.00005
1,1-Dichloroethene (0.001)	ND	ND	NA	0.001	0.006	0.006	0.007	0.000024
Trans-1,2-Dichloroethene (0.001)	ND	ND	NA	0.129	0.260	0.097	0.100	0.020
Cis-1,3-Dichloropropene (0.001)	ND	ND	NA	ND	ND	<0.002	***	***
Ethylbenzene (0.001)	ND	0.109	ND	ND	ND	ND	1.360	0.272
Methylene Chloride (0.001)	ND	ND	NA	0.003	ND	0.002	0.150	0.015
Tetrachloroethene (0.001)	ND	ND	NA	ND	ND	ND	0.001	0.0001
Toluene ((0.001)	ND	ND	ND	ND	ND	ND	0.343	0.0686
1,1,1-Trichloroethane(0.001)	ND	ND	NA	ND	0.007	ND	0.200	0.040
Trichloroethene (0.001)	ND	ND	NA	0.900	2.400	1.400	0.005	0.00018
Vinyl Chloride (0.001)	ND	ND	NA	ND	0.150	0.170	0.0002	0.0000015
Xylenes (0.001)	ND	0.099	ND	ND	ND	ND	0.620	0.124
Total BETX	ND	0.208	ND	ND	ND	ND	***	***
Total VOCs	ND	0.208	NA	1.045	2.830	1.679	***	***
Oil and Grease (20)	364	NA	NA	NA	NA	NA	***	***
Total Petroleum Hydrocarbons (TPH) (5)	NA	306.2	ND	ND	NA	NA	***	***
PCBs (0.5)	ND	NA	NA	NA	NA	NA	***	***

Table 3-17. Summary of Detected Constituents in Ground-Water Samples, Site MP-8 (Cont'd)

Parameter	MW-18A			MW-18B			NR 140**	
	MW-18A Phase III B1235* (5/09/90)	MW-18A B8042* (1/09/92)	MW-18A B9946* (7/788/92)	MW-18B Phase III B1235* (5/09/90)	MW-18B B8042* (1/09/92)	MW-18B B9946* (7/788/92)	Enforcement Standard	PAL
Metals								
Cadmium (total)(0.0002)	NA	NA	NA	NA	NA	NA		
Chromium (total)(0.001)	NA	NA	NA	NA	NA	NA		
Cyanides (total)(0.005)	ND	NA	NA	ND	NA	NA		
Lead (total)(0.02)	NA	NA	NA	NA	NA	NA		
Nickel (total)(0.02)	NA	NA	NA	NA	NA	NA		
Zinc (total)(0.005)	NA	NA	NA	NA	NA	NA		
Cadmium (soluble)(0.0002)	ND	NA	NA	ND	NA	NA	0.010	0.001
Chromium (soluble)(0.001)	0.001	NA	NA	0.001	NA	NA	0.050	0.005
Cyanides (soluble)(0.005)	NA	ND (0.01)	ND (0.01)	NA	ND (0.01)	ND (0.01)	0.200	0.040
Lead (soluble)(0.02)	ND	NA	NA	ND	NA	NA	0.050	0.005
Nickel (soluble)(0.02)	ND	NA	NA	ND	NA	NA	***	***
Zinc (soluble)(0.005)	ND	NA	NA	ND	NA	NA	5.0	2.5
Base/Neutral/Acid Extraction (BNAs)								
Napthalene (0.010)	ND	NA	NA	ND	NA	NA	***	***
Phenols (0.005)	ND	NA	NA	ND	NA	NA	***	***
Total BNAs	ND	NA	NA	ND	NA	NA	***	***
Volatile Organic Compounds (VOCs)								
Acetone (0.050)	ND	ND	NA	ND	ND	NA	***	***
Carbon Tetrachloride (0.001)	ND	ND	ND	0.001	ND	ND	0.005	0.0005
Chloroethane (0.001)	ND	ND	ND	ND	ND	ND	0.400	0.080
Chloroform (0.001)	0.001	ND	ND	0.001	ND	ND	0.006	0.0006
1,2-Dichlorobenzene (0.001)	0.001	ND	<0.002	ND	ND	<0.002	1.250	0.125
1,3-Dichlorobenzene (0.001)	0.001	ND	<0.002	ND	ND	<0.002	1.250	0.125
1,4-Dichlorobenzene (0.001)	ND	ND	<0.002	ND	ND	<0.002	0.075	0.015
1,1-Dichloroethane (0.001)	ND	ND	ND	ND	ND	ND	0.850	0.085
1,2-Dichloroethane (0.001)	ND	ND	ND	ND	ND	ND	0.005	0.00005
1,1-Dichloroethene (0.001)	ND	ND	ND	ND	ND	ND	0.007	0.000024
Trans-1,2-Dichloroethene (0.001)	ND	ND	ND	ND	ND	ND	0.100	0.020
Cis-1,3-Dichloropropene (0.001)	ND	ND	<0.002	ND	ND	<0.002	***	***
Ethylbenzene (0.001)	ND	ND	ND	ND	ND	ND	1.360	0.272
Methylene Chloride (0.001)	0.001	ND	<0.002	0.001	ND	<0.002	0.150	0.015
Tetrachloroethene (0.001)	ND	ND	ND	ND	ND	ND	0.001	0.0001
Toluene ((0.001)	ND	ND	ND	ND	ND	ND	0.343	0.0686
1,1,1-Trichloroethane(0.001)	0.001	ND	ND	0.001	ND	ND	0.200	0.040
Trichloroethene (0.001)	ND	ND	ND	ND	ND	ND	0.005	0.00018
Vinyl Chloride (0.001)	ND	ND	<0.010	ND	ND	<0.010	0.0002	0.000015
Xylenes (0.001)	0.002	ND	ND	ND	ND	ND	0.620	0.124
Total BETX	0.002	ND	ND	ND	ND	ND	***	***
Total VOCs	0.007	ND	ND	0.004	ND	ND	***	***
Oil and Grease (20)	NA	NA	NA	NA	NA	NA	***	***
Total Petroleum Hydrocarbons (TPH) (5)	ND	NA	NA	ND	NA	NA	***	***
PCBs (0.5)	ND	NA	NA	ND	NA	NA	***	***

VOC detection limits on sample MW-18C and MW-18D 1/9/92 .050 - .500 ppm due to dilution of sample.

Table 3-17. Summary of Detected Constituents in Ground-Water Samples, Site MP-8 (Cont'd)

Parameter	MW-18C		MW-18D				NR 140**	
	MW-18C Phase III B1235* (5/09/90)	MW-18C B8042* (1/09/92)	MW-18D Phase III B1235* (5/09/90)	MW-18D (Dup. MW-18D) B1235*	MW-18D B8042* (1/09/92)	MW-18D B9946* (7/78/92)	Enforcement Standard	PAL
Metals								
Cadmium (total)(0.0002)	NA	NA	NA	NA	NA	NA		
Chromium (total)(0.001)	NA	NA	NA	NA	NA	NA		
Cyanides (total)(0.005)	0.008	NA	ND	ND	NA	NA		
Lead (total)(0.02)	NA	NA	NA	NA	NA	NA		
Nickel (total)(0.02)	NA	NA	NA	NA	NA	NA		
Zinc (total)(0.005)	NA	NA	NA	NA	NA	NA		
Cadmium (soluble)(0.0002)	ND	NA	ND	0.003	NA	NA	0.010	0.001
Chromium (soluble)(0.001)	0.001	NA	0.001	0.001	NA	NA	0.050	0.005
Cyanides (soluble)(0.005)	NA	ND (0.01)	NA	NA	ND (0.01)	ND (0.01)	0.200	0.040
Lead (soluble)(0.02)	ND	NA	ND	ND	NA	NA	0.050	0.005
Nickel (soluble)(0.02)	ND	NA	ND	ND	NA	NA	***	***
Zinc (soluble)(0.005)	ND	NA	ND	ND	NA	NA	5.0	2.5
Base/Neutral/Acid Extraction (BNAs)								
Naphthalene (0.010)	ND	NA	ND	ND	NA	NA	***	***
Phenols (0.005)	ND	NA	ND	ND	NA	NA	***	***
Total BNAs	ND	NA	ND	ND	NA	NA	***	***
Volatile Organic Compounds (VOCs)								
Acetone (0.050)	0.094	ND	0.061	0.095	ND	NA	***	***
Carbon Tetrachloride (0.001)	ND	ND	0.003	ND	ND	ND	0.005	0.0005
Chloroethane (0.001)	ND	ND	ND	ND	ND	ND	0.400	0.080
Chloroform (0.001)	ND	ND	0.004	0.004	ND	ND	0.006	0.0006
1,2-Dichlorobenzene (0.001)	ND	ND	0.003	ND	ND	<0.002	1.250	0.125
1,3-Dichlorobenzene (0.001)	ND	ND	0.003	ND	ND	<0.002	1.250	0.125
1,4-Dichlorobenzene (0.001)	ND	ND	0.002	ND	ND	<0.002	0.075	0.015
1,1-Dichloroethane (0.001)	0.038	0.078	ND	ND	ND	0.001	0.850	0.085
1,2-Dichloroethane (0.001)	ND	ND	ND	0.003	ND	ND	0.005	0.00005
1,1-Dichloroethene (0.001)	0.010	ND	0.001	ND	ND	ND	0.007	0.000024
Trans-1,2-Dichloroethene (0.001)	0.068	ND	0.003	ND	ND	ND	0.100	0.020
Cis-1,3-Dichloropropene (0.001)	0.002	ND	0.003	ND	ND	<0.002	***	***
Ethylbenzene (0.001)	ND	ND	0.005	0.002	ND	ND	1.360	0.272
Methylene Chloride (0.001)	0.001	ND	0.005	0.004	ND	<0.002	0.150	0.015
Tetrachloroethene (0.001)	ND	ND	0.001	ND	ND	ND	0.001	0.0001
Toluene (0.001)	ND	ND	0.002	0.002	ND	ND	0.343	0.0686
1,1,1-Trichloroethane(0.001)	ND	ND	0.004	0.004	ND	ND	0.200	0.040
Trichloroethene (0.001)	0.216	0.410	0.003	0.002	ND	ND	0.005	0.00018
Vinyl Chloride (0.001)	0.108	ND	ND	ND	ND	ND	0.0002	0.0000015
Xylenes (0.001)	0.001	ND	0.006	0.006	ND	ND	0.620	0.124
Total BETX	0.001	ND	0.013	0.010	ND	ND	***	***
Total VOCs	0.538	0.488	0.109	0.122	ND	0.001	***	***
Oil and Grease (20)								
	NA	NA	NA	NA	NA	NA	***	***
Total Petroleum Hydrocarbons (TPH) (5)								
	1.9	NA	0.3	0.3	NA	NA	***	***
PCBs (0.5)								
	ND	NA	ND	ND	NA	NA	***	***

Table 3-17. Summary of Detected Constituents in Ground-Water Samples, Site MP-8 (Cont'd)

Parameter	MW-19		MW-19				NR 140**	
	MW-19 Phase II B0270* (1/23/90)	MW-32 (Dup. MW-19) B0270*	MW-19 Phase III B1239* (5/14/90)	MW-19 B4364* (2/19/91)	MW-19 B4662* (3/19/91)	MW-19 B5189* (5/15/91)	Enforcement Standard	PAL
Metals								
Cadmium (total)(0.0002)	NA	NA	NA	NA	NA	NA		
Chromium (total)(0.001)	NA	NA	NA	NA	NA	NA		
Cyanides (total)(0.005)	ND	ND	ND	NA	NA	NA		
Lead (total)(0.02)	NA	NA	NA	NA	NA	NA		
Nickel (total)(0.02)	NA	NA	NA	NA	NA	NA		
Zinc (total)(0.005)	NA	NA	NA	NA	NA	NA		
Cadmium (soluble)(0.0002)	ND	ND	NA	NA	NA	NA	0.010	0.001
Chromium (soluble)(0.001)	0.002	0.001	NA	NA	NA	NA	0.050	0.005
Cyanides (soluble)(0.005)	ND	ND	ND	ND	ND	ND	0.200	0.040
Lead (soluble)(0.02)	ND	ND	NA	NA	NA	NA	0.050	0.005
Nickel (soluble)(0.02)	ND	ND	NA	NA	NA	NA	***	***
Zinc (soluble)(0.005)	0.02	0.02	NA	NA	NA	NA	5.0	2.5
Base/Neutral/Acid Extraction								
(BNAs)								
Naphthalene (0.010)	ND	ND	NA	NA	NA	NA	***	***
Phenols (0.005)	ND	ND	NA	NA	NA	NA	***	***
Total BNAs	ND	ND	NA	NA	NA	NA	***	***
Volatile Organic Compounds								
(VOCs)								
Acetone (0.050)	ND	ND	ND	NA	NA	NA	***	***
Carbon Tetrachloride (0.001)	ND	ND	ND	NA	NA	NA	0.005	0.0005
Chloroethane (0.001)	0.049	0.058	ND	NA	NA	NA	0.400	0.080
Chloroform (0.001)	ND	ND	ND	NA	NA	NA	0.006	0.0006
1,2-Dichlorobenzene (0.001)	ND	ND	ND	NA	NA	NA	1.250	0.125
1,3-Dichlorobenzene (0.001)	ND	ND	ND	NA	NA	NA	1.250	0.125
1,4-Dichlorobenzene (0.001)	ND	ND	ND	NA	NA	NA	0.075	0.015
1,1-Dichloroethane (0.001)	ND	ND	0.013	NA	NA	NA	0.850	0.085
1,2-Dichloroethane (0.001)	ND	ND	ND	NA	NA	NA	0.005	0.00005
1,1-Dichloroethene (0.001)	ND	ND	ND	NA	NA	NA	0.007	0.000024
Trans-1,2-Dichloroethene (0.001)	ND	ND	ND	NA	NA	NA	0.100	0.020
Cis-1,3-Dichloropropene (0.001)	ND	ND	ND	NA	NA	NA	***	***
Ethylbenzene (0.001)	ND	ND	ND	NA	NA	NA	1.360	0.272
Methylene Chloride (0.001)	ND	ND	0.007	NA	NA	NA	0.150	0.015
Tetrachloroethene (0.001)	ND	ND	ND	NA	NA	NA	0.001	0.0001
Toluene ((0.001)	0.002	ND	ND	NA	NA	NA	0.343	0.0686
1,1,1-Trichloroethane(0.001)	ND	ND	ND	NA	NA	NA	0.200	0.040
Trichloroethene (0.001)	0.003	0.003	0.021	NA	NA	NA	0.005	0.00018
Vinyl Chloride (0.001)	ND	ND	ND	NA	NA	NA	0.0002	0.0000015
Xylenes (0.001)	ND	ND	ND	NA	NA	NA	0.620	0.124
Total BETX	0.002	ND	ND	NA	NA	NA	***	***
Total VOCs	0.054	0.061	0.041	NA	NA	NA	***	***
Oil and Grease (20)	NA	NA	NA	NA	NA	NA	***	***
Total Petroleum Hydrocarbons (TPH) (5)	ND	ND	ND	NA	NA	NA	***	***
PCBs (0.5)	ND	ND	NA	NA	NA	NA	***	***

Table 3-17. Summary of Detected Constituents in Ground-Water Samples, Site MP-8 (Cont'd)

Parameter	MW-19		MW-20				NR 140**	
	MW-19	MW-19	MW-20	MW-20	MW-20	MW-20	Enforcement Standard	PAL
	B7978* (1/07/92)	B4662* (7/7&8/92)	Phase II B0270* (1/23/90)	Phase III B1235* (5/09/90)	B8042* (1/09/92)	B9946* (7/7&8/92)		
Metals								
Cadmium (total)(0.0002)	NA	NA	NA	NA	NA	NA		
Chromium (total)(0.001)	NA	NA	NA	NA	NA	NA		
Cyanides (total)(0.005)	NA	NA	0.017	0.009	NA	NA		
Lead (total)(0.02)	NA	NA	NA	NA	NA	NA		
Nickel (total)(0.02)	NA	NA	NA	NA	NA	NA		
Zinc (total)(0.005)	NA	NA	NA	NA	NA	NA		
Cadmium (soluble)(0.0002)	NA	NA	ND	NA	NA	NA	0.010	0.001
Chromium (soluble)(0.001)	NA	NA	0.001	NA	NA	NA	0.050	0.005
Cyanides (soluble)(0.005)	ND (0.01)	ND (0.01)	NA	NA	ND (0.01)	ND (0.01)	0.200	0.040
Lead (soluble)(0.02)	NA	NA	ND	NA	NA	NA	0.050	0.005
Nickel (soluble)(0.02)	NA	NA	ND	NA	NA	NA	***	***
Zinc (soluble)(0.005)	NA	NA	0.02	NA	NA	NA	5.0	2.5
Base/Neutral/Acid Extraction (BNAs)								
Naphthalene (0.010)	NA	NA	0.027	NA	NA	NA	***	***
Phenols (0.005)	NA	NA	0.094	NA	NA	NA	***	***
Total BNAs	NA	NA	0.121	NA	NA	NA	***	***
Volatile Organic Compounds (VOCs)								
Acetone (0.050)	ND	NA	ND	NA	ND	NA	***	***
Carbon Tetrachloride (0.001)	ND	ND	ND	ND	ND	<0.010	0.005	0.0005
Chloroethane (0.001)	0.005	0.009	0.013	ND	ND	0.036	0.400	0.080
Chloroform (0.001)	ND	ND	ND	0.070	ND	<0.010	0.006	0.0006
1,2-Dichlorobenzene (0.001)	ND	<0.002	ND	ND	ND	<0.020	1.250	0.125
1,3-Dichlorobenzene (0.001)	ND	<0.002	ND	ND	ND	<0.020	1.250	0.125
1,4-Dichlorobenzene (0.001)	ND	<0.002	ND	ND	ND	<0.020	0.075	0.015
1,1-Dichloroethane (0.001)	0.004	0.011	0.051	0.127	0.094	0.074	0.850	0.085
1,2-Dichloroethane (0.001)	ND	ND	ND	ND	ND	<0.010	0.005	0.00005
1,1-Dichloroethene (0.001)	ND	ND	ND	ND	ND	<0.010	0.007	0.000024
Trans-1,2-Dichloroethene (0.001)	ND	ND	ND	ND	ND	<0.010	0.100	0.020
Cis-1,3-Dichloropropene (0.001)	ND	<0.002	ND	ND	ND	<0.020	***	***
Ethylbenzene (0.001)	ND	ND	ND	ND	ND	<0.010	1.360	0.272
Methylene Chloride (0.001)	ND	<0.002	ND	0.084	ND	<0.020	0.150	0.015
Tetrachloroethene (0.001)	ND	ND	ND	ND	ND	<0.010	0.001	0.0001
Toluene (0.001)	ND	ND	ND	0.072	ND	<0.010	0.343	0.0686
1,1,1-Trichloroethane(0.001)	0.002	ND	0.016	0.080	ND	0.015	0.200	0.040
Trichloroethene (0.001)	0.034	0.030	0.226	0.398	0.075	0.040	0.005	0.00018
Vinyl Chloride (0.001)	ND	ND	ND	ND	ND	0.013	0.0002	0.000015
Xylenes (0.001)	ND	ND	ND	0.073	ND	0.010	0.620	0.124
Total BETX	ND	ND	ND	0.145	ND	0.010	***	***
Total VOCs	0.045	0.050	0.306	0.904	0.169	0.188	***	***
Oil and Grease (20)								
	NA	NA	NA	NA	NA	NA	***	***
Total Petroleum Hydrocarbons (TPH) (5)								
	NA	NA	ND	8.9	NA	NA	***	***
PCBs (0.5)								
	NA	NA	ND	NA	NA	NA	***	***

Table 3-18. Summary of Detected Constituents of Total and Soluble Cyanide in Ground Water, Site MP-8

Parameter	SUMP-1 B4089* 01/22/91	SUMP-1 B4364* 02/19/91	SUMP-1 B4662* 03/19/91	SUMP-1 B4943* 04/11/91	SUMP-1 B5189* 05/15/91	NR 140**	
						Enforcement Standard	PAL
Soluble Cyanide (0.005)	0.079	0.062	0.070	0.079	0.103	0.200	0.040

NOTE: All values in milligrams per liter (mg/L).
 () = Detection Limit (mg/L)
 * = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AIHA Accreditation #352, WDNR Certification #268181760.
 ** = Per Chapter NR140 of the Wisconsin Administrative Code
 PAL = Preventive Action Limit

Table 3-19. Summary of Detected Constituents in Ground-Water Samples, Site MP-9

Parameter	MW-21 Phase II B0270* (01/23/90)	MW-21 B7978* (01/07/92)	MW-21 B9946* (7/7&8/92)	MW-21A Phase II B1239* (05/14/90)	MW-21A B7978* (01/07/92)	MW-21A B9946* (7/7&8/92)	NR 140**	
							Enforcement Standard	PAL
Soluble Metals								
Chromium (soluble)(0.001)	0.001	NA	NA	0.003	NA	NA	0.050	0.005
Volatile Organic Compounds (VOCs)								
Benzene (0.001)	ND	0.007	0.002	ND	ND	<0.010	0.005	0.000067
Chloroform (0.001)	ND	ND	ND	0.002	ND	<0.010	0.006	0.0006
Trans-1-2-Dichloroethene (0.001)	ND	ND	ND	0.009	0.012	0.016	0.100	0.020
Cis-1,3-Dichloropropene (0.001)	ND	ND (0.002)	<0.002	ND	ND (0.002)	<0.020	***	***
Ethylbenzene (0.001)	ND	0.001	ND	ND	ND	<0.010	1.360	0.272
Methylene Chloride (0.001)	ND	ND	<0.002	0.006	ND	<0.020	0.150	0.015
Toluene (0.001)	0.002	0.001	ND	ND	ND	<0.010	0.343	0.0686
1,1,1-Trichloroethane (0.001)	ND	ND	ND	0.003	0.005	<0.010	0.200	0.040
Trichloroethene (0.001)	ND	0.004	ND	ND	ND	<0.010	0.005	0.00018
Vinyl Chloride (0.001)	ND	ND (0.005)	<0.010	0.312	0.120	0.120	0.000015	0.0000015
Xylenes (0.001)	0.002	0.002	ND	ND	ND	<0.010	0.620	0.124
Total BETX	0.004	0.011	0.002	ND	ND	ND	***	***
Total VOCs	0.004	0.015	0.002	0.332	0.137	0.136	***	***

NOTE: All values in milligrams per liter (mg/L).

() = Detection Limit (mg/L)

ND = Not Detected

NA = Not Analyzed

PAL = Preventive Action Limit

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AHA Accreditation #352,

** = MDNR Certification #268181760.

*** = Per Chapter NR140 of the Wisconsin Administrative Code

**** = No standards currently exist

CHRYSLER KENOSHA MAIN PLANT
CHRYSLER SUMP 1 (HSI SUMP 3)

SAMPLE DATE	SAMPLE PARAMETER				
	BENZENE (PPB)	ETHLY BENZENE (PPB)	TOLUENE (PPB)	XYLENE (PPB)	TPH (PPM)
08/06/90	1.9	<1.0	1.7	1.7	<4.0
09/11/90	ND	ND	ND	ND	ND
10/01/90	<1.0	<1.0	<1.0	<1.0	<4.0
11/08/90	<1.0	<1.0	<1.0	<1.0	<4.0
12/13/90	<1.0	<1.0	<1.0	<1.0	<4.0
01/08/91	<1.0	<1.0	<1.0	<1.0	<4.0
02/06/91	<1.0	<1.0	5.0	2.0	<4.0
03/01/91	<1.0	<1.0	<1.0	<1.0	<4.0
04/12/91	<1.0	<1.0	<1.0	<1.0	<4.0
05/20/91	<1.0	4.6	10	20	<4.0
06/03/91	7.0	5.6	24	27	<4.0
07/03/91	<1.0	<1.0	1.3	2.1	<4.0
08/05/91	<1.0	<1.0	<1.0	<1.0	<4.0
09/04/91	3.1	4.9	7.4	62	<4.0
10/01/91	<1.0	<1.0	1.9	1.5	<4.0
11/04/91	2.0	1.9	3.5	16	<4.0
01/07/91	<1.0	<1.0	<1.0	<1.0	<0.2

(From Triad Engineering, Inc.)

Table 3-21

CHRYSLER KENOSHA MAIN PLANT
CHRYSLER SUMP 2 (HSI SUMP 1)

SAMPLE DATE	SAMPLE PARAMETER				
	BENZENE (PPB)	ETHYL BENZENE (PPB)	TOLUENE (PPB)	XYLENE (PPB)	TPH (PPM)
08/06/90	84	<1.0	49	21	<4.0
09/11/90	6.5	ND	3.5	55	0.6
10/01/90	5.0	1.2	4.0	6.2	29
11/08/90	<1.0	<1.0	<1.0	<1.0	<4.0
12/13/90	<1.0	40	<1.0	130	<4.0
01/08/91	<1.0	<1.0	<1.0	<1.0	<4.0
02/06/91	3.0	4.0	2.5	29	82
03/01/91	<1.0	3.0	<1.0	7.0	33
04/12/91	6.4	2.2	12	7.4	<4.0
05/20/91	5.2	<1.0	<1.0	54	7.4
06/07/91	12	26	6.6	63	<4.0
07/03/91	12	26	34	210	150
08/05/91	<1.0	2.4	<1.0	5.9	<4.0
09/04/91	20	23	27	200	<4.0
10/01/91	7.0	1.8	2.0	11	<4.0
11/04/91	9.2	3.7	3.9	30	<4.0
01/07/91	<2.0	6.0	<2.0	11	0.65

(From Triad Engineering, Inc.)

Table 3-22. Summary of Detected Constituents in Ground Water, MW-5, Site MP-5

PARAMETER	B9484*	B9484*	B0684*	B0770*	B0817*	B0992*	B1254*	B1635*	B1948*	B3712*	B4368*	B4943*	B7978*	B9879*	NR	140**
	10/31/89	Duplicate 10/31/89	3/23/90	3/30/90	4/06/90	4/16/90	5/08/90	6/18/90	7/17/90	12/11/90	2/14/91	4/11/91	1/9/92	6/25/92	Enforce. Standard	PAL
VOCs																
Benzene (0.001)	0.746	0.687	0.063	0.373	0.506	1.305	2.246	1.205	1.763	1.811	1.800	1.500	0.470	0.14	0.005	0.00067
Chloroethane (0.001)	0.002	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.400	0.080
1,1-Dichloroethane (0.001)	0.002	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.850	0.085
1,4-Dichlorobenzene (0.002)	ND	0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.750	0.015
Ethylbenzene (0.001)	0.035	0.021	0.023	0.067	0.030	0.003	0.110	0.080	0.060	0.086	0.078	0.067	0.005	0.007	1.360	0.272
Methylene Chloride (0.001)	ND	0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.150	0.015
Toluene(0.001)	0.008	0.007	0.013	0.012	0.008	0.009	0.022	0.047	0.009	0.014	0.009	0.008	0.002	<0.001	0.343	0.0686
Xylenes (0.001)	0.061	0.053	0.025	0.026	0.023	0.011	0.025	0.158	0.006	0.011	0.004	0.006	0.002	<0.001	0.620	0.124
Total BETX	0.850	0.768	0.124	0.478	0.567	1.328	2.403	1.490	1.838	1.922	1.891	1.581	0.479	0.147	***	***
Oil & Grease (2)	NA	NA	2	2	ND	ND	ND	ND	3	NA	NA	NA	NA	NA	***	***
Total Petroleum Hydrocarbons (0.2)	5.3	4.7	3.6	2.6	2.9	4.7	10.2	3.8	7.6	6.0	12	7.0	NA	NA	***	***
BNAs																
Hexachloroethane (0.010)	0.013	0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***	***
Naphthalene(0.001)	0.012	0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.040	0.008
Phenol(0.010)	0.015	0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	1.2

Note: All values in milligrams per liter (mg/l).

() =

ND =

NA =

PAL =

* =

** =

*** =

Detection Limit (mg/l).

Not Detected.

Not Analyzed.

Preventive Action Limit.

Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIHA Accreditation

#352, WDNR Certification #268181760.

Per Chapter NR140 of the Wisconsin Administrative Code.

No standards currently exist.

Table J-23. Summary of Detected Constituents in Ground Water, Sump-45a, Building 45A

PARAMETER	B0684*	B0770*	B0817*	B0992*	B1234*	B1635*	B1948*	B3712*	B4368*	B4943*	NR 140**	
	3/23/90	3/30/90	4/06/90	4/16/90	5/08/90	6/18/90	7/17/90	12/11/90	2/14/91	4/11/91	Enforcement Standard	PAL
BETX Compounds												
Benzene (0.001)	ND	0.002	0.143	ND	ND	ND	0.009	0.009	0.019	0.009	0.005	0.000067
Ethylbenzene (0.001)	0.032	ND	0.019	ND	ND	0.001	0.002	0.002	0.005	0.002	1.360	0.272
Toluene (0.001)	0.008	ND	0.005	ND	ND	0.002	0.006	ND	ND	ND	0.343	0.0666
Xylenes (0.001)	0.134	ND	0.101	ND	ND	0.004	0.003	0.001	ND	ND	0.620	0.124
Total BETX	0.174	0.002	0.268	ND	ND	0.007	0.020	0.012	0.024	0.011	***	***
Oil & Grease (2)	3	2	5	ND	ND	3	4	NA	NA	NA	***	***
Total Petroleum Hydrocarbons (0.2)	NA	ND	1.1	ND	ND	ND	ND	ND	ND	ND	***	***

Note: All values in milligrams per liter (mg/l).

() = Detection Limit (mg/l).

ND = Not Detected.

PAL = Preventive Action Limit.

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIMA Accreditation #352, WDNR Certification #268181760.

** = Per Chapter NR140 of the Wisconsin Administrative Code.

*** = No standards currently exist.

Table 3-24

**CHRYSLER KENOSHA MAIN PLANT
CHRYSLER SUMP 3 (HSI SUMP 45-A)**

SAMPLE DATE	SAMPLE PARAMETER				
	BENZENE (PPB)	ETHYL BENZENE (PPB)	TOLUENE (PPB)	XYLENE (PPB)	TPH (PPM)
08/06/90	<1.0	<1.0	1.0	<1.0	<4.0
09/11/90	ND	ND	ND	ND	ND
10/01/90	1.4	<1.0	<1.0	<1.0	<4.0
11/08/90	<1.0	<1.0	<1.0	<1.0	<4.0
12/13/90	64	8.0	<1.0	<1.0	<4.0
01/08/91	<1.0	<1.0	<1.0	<1.0	<4.0
02/06/91	<1.0	<1.0	<1.0	<1.0	<4.0
03/01/91	<1.0	<1.0	<1.0	<1.0	<4.0
04/12/91	2.0	1.0	2.2	22	18
05/20/91	<1.0	<1.0	<1.0	<1.0	<4.0
06/03/91	<1.0	<1.0	<1.0	<1.0	<4.0
07/03/91	1.0	1.0	2.0	5.0	<4.0
08/05/91	<1.0	<1.0	<1.0	<1.0	<4.0
09/04/91	2.1	2.1	2.5	26	<4.0
10/01/91	5.2	<1.0	2.2	4.7	<4.0
11/07/91	15	1.7	4.1	16	<4.0
01/07/91	<1.0	<1.0	<1.0	<1.0	<0.2

(From Triad Engineering, Inc.)

Table 3-25. Summary of Detected Constituents in Ground-Water Samples, Site NP-4

Parameter	MW-12 Phase II B9843* (06/26/92)	NR 140**	
		Enforce- ment Standard	PAL
<u>Metals</u>			
Cyanides (dissolved)(0.01)	NA		
<u>Volatile Organic Compounds</u> (VOCs) (0.05)			
Benzene (0.001)	ND	0.005	0.000067
Chloroethane (0.001)	ND	0.400	0.080
Chloroform (0.001)	ND	0.006	0.0006
Carbon Tetrachloride (0.001)	ND	0.005	0.0005
Cis-1,2-Dichloroethene (0.0001)	ND	0.100	0.010
1,1-Dichloroethane (0.001)	ND	0.850	0.085
1,2-Dichloroethane (0.001)	ND	0.0005	0.00005
1,1-Dichloroethene (0.001)	ND	0.007	0.000024
Ethylbenzene (0.001)	ND	1.350	0.272
Toluene (0.001)	ND	0.343	0.0686
Trans-1,2-Dichloroethene (0.001)	ND	0.100	0.020
Trichloroethene (0.001)	ND	0.005	0.00018
Trans-1,3-Dichloropropene (0.002)	ND	***	***
1,1,1-Trichloroethane(0.001)	ND	0.200	0.040
Vinyl Chloride (0.010)	ND	0.0002	0.0000015
Xylenes (0.001)	ND	0.620	0.124
Total BETX	ND	***	***
Total VOCs	ND	***	***
Total Petroleum Hydrocarbons (TPH) (5)	NA	***	***

NOTE: All values in milligrams per liter (mg/L)
 () = Detection Limit (mg/L)
 ND = Not Detected at or above detection limit
 NA = Not Analyzed
 PAL = Preventive Action Limit
 * = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AHA Accreditation #352, WQNR Certification #268181760.
 ** = Per Chapter NR140 of the Wisconsin Administrative Code
 *** = No standards currently exist

APPENDIX A
GROUND-WATER LABORATORY RESULTS,
CHAIN-OF-CUSTODY, AND
WATER QUALITY SAMPLE FORMS

3150 North Brookfield Road
 Brookfield, Wisconsin 53045
 telephone (414) 783-6111
 FAX (414) 783-5752



WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9797

Simon Hydro-Search, Inc.
 175 North Corporate Drive, Suite 100
 Brookfield, WI 53045

Attn: Mr. Rick Binder
 Project #251115093

DATE: July 7, 1992
 PURCHASE ORDER:
 SEI NO: WL1685
 DATE COLLECTED: 06/24/92
 DATE RECEIVED: 06/25/92
 DATE ANALYZED: 06/29/92
 ANALYST: Janet S.

Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1685-1	1685-2	1685-3	1685-4
	Sample ID	MW-29	MW-30	MW-31	MW-38
EPA Method SW846-8021					
Benzene		<1	<1	<1	<1
Bromodichloromethane		<2	<2	<2	<2
Bromoform		<2	<2	<2	<2
Bromomethane		<10	<10	<10	<10
Carbon tetrachloride		<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1
Chloroethane		<1	<1	<1	23
2-Chloroethylvinyl ether		<4	<4	<4	<4
Chloroform		<1	<1	<1	<1
Chloromethane		<10	<10	<10	<10
Dibromochloromethane		<2	<2	<2	<2
1,2-Dichlorobenzene		<2	<2	<2	<2
1,3-Dichlorobenzene		<2	<2	<2	<2
1,4-Dichlorobenzene		<2	<2	<2	<2
Dichlorodifluoromethane		<1	<1	<1	<1
1,1-Dichloroethane		<1	<1	<1	86
1,2-Dichloroethane		<1	<1	<1	<1
1,1-Dichloroethene		<1	<1	<1	<1
trans-1,2-Dichloroethene		<1	<1	<1	9
1,2-Dichloropropane		<1	<1	<1	<1
cis-1,3-Dichloropropene		<2	<2	<2	<2
trans-1,3-Dichloropropene		<2	<2	<2	<2
Ethylbenzene		<1	<1	<1	<1

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WDR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9797

Simon Hydro-Search, Inc.
 175 North Corporate Drive, Suite 100
 Brookfield, WI 53045

Attn: Mr. Rick Binder
 Project #251115093

DATE: July 7, 1992
 PURCHASE ORDER:
 SEI NO: WL1685
 DATE COLLECTED: 06/24/92
 DATE RECEIVED: 06/25/92
 DATE ANALYZED: 06/29/92

Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1685-1	1685-2	1685-3	1685-4
	Sample ID	MW-29	MW-30	MW-31	MW-32
EPA Method SW846-8021					
Methylene chloride		<1	<1	<1	<1
1,1,2,2-Tetrachloroethane		<3	<3	<3	<3
Tetrachloroethene		<1	<1	<1	<1
Toluene		<1	<1	<1	<1
1,1,1-Trichloroethane		<1	<1	<1	<1
1,1,2-Trichloroethane		<1	<1	<1	<1
Trichloroethene		3	3	3	14
Trichlorofluoromethane		<1	<1	<1	<1
Vinyl chloride		<10	<10	<10	260
Xylenes		<1	<1	<1	<1

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WDRN Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9797

Simon Hydro-Search, Inc.
 175 North Corporate Drive, Suite 100
 Brookfield, WI 53045

Attn: Mr. Rick Binder
 Project #251115093

DATE: July 7, 1992
 PURCHASE ORDER:
 SEI NO: WL1685
 DATE COLLECTED: 06/24/92
 DATE RECEIVED: 06/25/92
 DATE ANALYZED: 06/29/92

Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1685-5	1685-6	1685-7	1685-8
	Sample ID	MW-41	MW-40	MW-29A	MW-36A
EPA Method SW846-8021					
Benzene		<1	<1	<1	<1
Bromodichloromethane		<2	<2	<2	<2
Bromform		<2	<2	<2	<2
Bromomethane		<10	<10	<10	<10
Carbon tetrachloride		<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1
Chloroethane		<1	<1	<1	64
2-Chloroethylvinyl ether		<4	<4	<4	<4
Chloroform		<1	<1	<1	<1
Chloromethane		<10	<10	<10	<10
Dibromochloromethane		<2	<2	<2	<2
1,2-Dichlorobenzene		<2	<2	<2	<2
1,3-Dichlorobenzene		<2	<2	<2	<2
1,4-Dichlorobenzene		<2	<2	<2	<2
Dichlorodifluoromethane		<1	<1	<1	<1
1,1-Dichloroethane		<1	<1	<1	<1
1,2-Dichloroethane		<1	<1	<1	<1
1,1-Dichloroethene		<1	<1	<1	<1
trans-1,2-Dichloroethene		<1	<1	<1	<1
1,2-Dichloropropane		<1	<1	<1	<1
cis-1,3-Dichloropropene		<2	<2	<2	<2
trans-1,3-Dichloropropene		<2	<2	<2	<2
Ethylbenzene		<1	<1	<1	<1

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WDR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9797

Simon Hydro-Search, Inc.
 175 North Corporate Drive, Suite 100
 Brookfield, WI 53045

Attn: Mr. Rick Binder
 Project #251115093

DATE: July 7, 1992
 PURCHASE ORDER:
 SEI NO: WL1685
 DATE COLLECTED: 06/24/92
 DATE RECEIVED: 06/25/92
 DATE ANALYZED: 06/29/92

Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1685-5	1685-6	1685-7	1685-8
	Sample ID	MW-41	MW-40	MW-29A	MW-36A
EPA Method SW846-8021					
Methylene chloride		<1	<1	<1	<1
1,1,2,2-Tetrachloroethane		<3	<3	<3	<3
Tetrachloroethene		<1	<1	<1	<1
Toluene		<1	<1	<1	<1
1,1,1-Trichloroethane		<1	<1	<1	<1
1,1,2-Trichloroethane		<1	<1	<1	<1
Trichloroethene		<1	<1	3	3
Trichlorofluoromethane		<1	<1	<1	<1
Vinyl chloride		<10	<10	<10	<10
Xylenes		<1	<1	<1	<1

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WDR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9797

Simon Hydro-Search, Inc.
 175 North Corporate Drive, Suite 100
 Brookfield, WI 53045

Attn: Mr. Rick Binder
 Project #251115093

DATE: July 7, 1992
 PURCHASE ORDER:
 SEI NO: WL1685
 DATE COLLECTED: 06/24/92
 DATE RECEIVED: 06/25/92
 DATE ANALYZED: 06/29/92

Matrix: Groundwater

Units: ug/l (ppb)

<u>VOLATILES</u>	SEI ID <u>Sample ID</u>	1685-9 <u>Trip Blank</u>
EPA Method SW846-8021		
Benzene		<1
Bromodichloromethane		<2
Bromform		<2
Bromomethane		<10
Carbon tetrachloride		<1
Chlorobenzene		<1
Chloroethane		<1
2-Chloroethylvinyl ether		<4
Chloroform		<1
Chloromethane		<10
Dibromochloromethane		<2
1,2-Dichlorobenzene		<2
1,3-Dichlorobenzene		<2
1,4-Dichlorobenzene		<2
Dichlorodifluoromethane		<1
1,1-Dichloroethane		<1
1,2-Dichloroethane		<1
1,1-Dichloroethene		<1
trans-1,2-Dichloroethene		<1
1,2-Dichloropropane		<1
cis-1,3-Dichloropropene		<2
trans-1,3-Dichloropropene		<2
Ethylbenzene		<1

3150 North Brookfield Road
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WDR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9797

Simon Hydro-Search, Inc.
 175 North Corporate Drive, Suite 100
 Brookfield, WI 53045

Attn: Mr. Rick Binder
 Project #251115093

DATE: July 7, 1992
 PURCHASE ORDER:
 SEI NO: WL1685
 DATE COLLECTED: 06/24/92
 DATE RECEIVED: 06/25/92
 DATE ANALYZED: 06/29/92


Matrix: Groundwater

Units: ug/l (ppb)

<u>VOLATILES</u>	<u>SEI ID</u> <u>Sample ID</u>	<u>1685-9</u> <u>Trip Blank</u>
------------------	-----------------------------------	------------------------------------

EPA Method SW846-8021

Methylene chloride	<1
1,1,2,2-Tetrachloroethane	<3
Tetrachloroethene	<1
Toluene	<1
1,1,1-Trichloroethane	<1
1,1,2-Trichloroethane	<1
Trichloroethene	<1
Trichlorofluoromethane	<1
Vinyl chloride	<10
Xylenes	<1


 Rosemary L. Dineen
 Laboratory Director

ORIGINAL

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WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9843

Simon Hydro-Search, Inc.
 175 North Corporate Drive, Suite 100
 Brookfield, WI 53045

Attn: Mr. Rick Binder
 Project #251E19533

RECEIVED
 JUL 20 1992
 HSI - BROOKFIELD

DATE: July 17, 1992
 PURCHASE ORDER:
 SEI/NO: WL1707
 DATE COLLECTED: 06/26/92
 DATE RECEIVED: 06/26/92
 DATE ANALYZED: 07/02/92
 ANALYST: Janet S.

Matrix: Groundwater

Units: ug/l (ppb)

MASTER FILE COPYProject # 25115093CC: B&K

	SEI ID	1707-1*	1707-2*	1707-3	1707-4
VOLATILES	Sample ID	MW-11	MW-101	MW-12	MW-27C
EPA Method SW846-8021					
Benzene		16	24	<1	<1
Bromodichloromethane		<20	<10	<2	<2
Bromform		<20	<10	<2	<2
Bromomethane		<100	<50	<10	<10
Carbon tetrachloride		<10	<5	<1	<1
Chlorobenzene		<10	<5	<1	<1
Chloroethane		<10	<5	<1	<1
2-Chloroethylvinyl ether		<40	<20	<4	<4
Chloroform		<10	<5	<1	<1
Chloromethane		<100	<50	<10	<10
Dibromochloromethane		<20	<10	<2	<2
1,2-Dichlorobenzene		<20	<10	<2	<2
1,3-Dichlorobenzene		<20	<10	<2	<2
1,4-Dichlorobenzene		<20	<10	<2	<2
Dichlorodifluoromethane		<10	<5	<1	<1
1,1-Dichloroethane		<10	<5	<1	<1
1,2-Dichloroethane		<10	<5	<1	<1
1,1-Dichloroethene		<10	<5	<1	<1
trans-1,2-Dichloroethene		<10	<5	<1	<1
1,2-Dichloropropane		<10	<5	<1	<1
cis-1,3-Dichloropropene		<20	<10	<2	<2
trans-1,3-Dichloropropene		<20	<10	<2	<2
Ethylbenzene		340	360	<1	<1

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ANALYTICAL REPORT

REPORT NUMBER: B9843

Simon Hydro-Search, Inc.
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Attn: Mr. Rick Binder
 Project #251E19533

DATE: July 17, 1992
 PURCHASE ORDER:
 SEI NO: WL1707
 DATE COLLECTED: 06/26/92
 DATE RECEIVED: 06/26/92
 DATE ANALYZED: 07/02/92

Matrix: Groundwater

Units: ug/l (ppb)

	SEI ID	1707-1*	1707-2*	1707-3	1707-4
<u>VOLATILES</u>	<u>Sample ID</u>	<u>MW-11</u>	<u>MW-101</u>	<u>MW-12</u>	<u>MW-27C</u>
EPA Method SW846-8021					
Methylene chloride		<10	<5	<1	<1
1,1,2,2-Tetrachloroethane		<30	<15	<3	<3
Tetrachloroethene		<10	<5	<1	<1
Toluene		21	27	<1	<1
1,1,1-Trichloroethane		<10	<5	<1	<1
1,1,2-Trichloroethane		<10	<5	<1	<1
Trichloroethene		<10	<5	<1	<1
Trichlorofluoromethane		<10	<5	<1	<1
Vinyl chloride		<100	<50	<10	<10
Xylenes		980	910	<1	<1

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WDRN Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9843

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 175 North Corporate Drive, Suite 100
 Brookfield, WI 53045

Attn: Mr. Rick Binder
 Project #251E19533

DATE: July 17, 1992
 PURCHASE ORDER:
 SEI NO: WL1707
 DATE COLLECTED: 06/26/92
 DATE RECEIVED: 06/26/92
 DATE ANALYZED: 07/02/92

Matrix: Groundwater

Units: ug/l (ppb)

<u>VOLATILES</u>	<u>SEI ID</u> <u>Sample ID</u>	<u>1707-5</u> <u>MW-27D</u>	<u>1707-6</u> <u>MW-27E</u>	<u>1707-7</u> <u>MW-27A</u>	<u>1707-8</u> <u>MW-28</u>
EPA Method SW846-8021					
Benzene		<1	<1	<1	<1
Bromodichloromethane		<2	<2	<2	<2
Bromofom		<2	<2	<2	<2
Bromomethane		<10	<10	<10	<10
Carbon tetrachloride		<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1
Chloroethane		<1	<1	<1	<1
2-Chloroethylvinyl ether		<4	<4	<4	<4
Chloroform		<1	<1	<1	<1
Chloromethane		<10	<10	<10	<10
Dibromochloromethane		<2	<2	<2	<2
1,2-Dichlorobenzene		<2	<2	<2	<2
1,3-Dichlorobenzene		<2	<2	<2	<2
1,4-Dichlorobenzene		<2	<2	<2	<2
Dichlorodifluoromethane		<1	<1	<1	<1
1,1-Dichloroethane		<1	<1	<1	<1
1,2-Dichloroethane		<1	<1	<1	<1
1,1-Dichloroethene		<1	<1	<1	<1
trans-1,2-Dichloroethene		<1	47	6	<1
1,2-Dichloropropane		<1	<1	<1	<1
cis-1,3-Dichloropropene		<2	<2	<2	<2
trans-1,3-Dichloropropene		<2	<2	<2	<2
Ethylbenzene		<1	<1	<1	<1

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Attn: Mr. Rick Binder
 Project #251E19533

DATE: July 17, 1992
 PURCHASE ORDER:
 SEI NO: WL1707
 DATE COLLECTED: 06/26/92
 DATE RECEIVED: 06/26/92
 DATE ANALYZED: 07/02/92

Matrix: Groundwater

Units: ug/l (ppb)

<u>VOLATILES</u>	<u>SEI ID</u> <u>Sample ID</u>	<u>1707-5</u> <u>MW-27D</u>	<u>1707-6</u> <u>MW-27E</u>	<u>1707-7</u> <u>MW-27A</u>	<u>1707-8</u> <u>MW-28</u>
EPA Method SW846-8021					
Methylene chloride		<1	<1	<1	<1
1,1,2,2-Tetrachloroethane		<3	<3	<3	<3
Tetrachloroethene		<1	<1	<1	<1
Toluene		<1	<1	<1	<1
1,1,1-Trichloroethane		<1	<1	<1	<1
1,1,2-Trichloroethane		<1	<1	<1	<1
Trichloroethene		<1	300	23	<1
Trichlorofluoromethane		<1	<1	<1	<1
Vinyl chloride		<10	14	<10	<10
Xylenes		<1	<1	<1	<1

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ANALYTICAL REPORT

REPORT NUMBER: B9843

Simon Hydro-Search, Inc.
 175 North Corporate Drive, Suite 100
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Attn: Mr. Rick Binder
 Project #251E19533

DATE: July 17, 1992
 PURCHASE ORDER:
 SEI NO: WL1707
 DATE COLLECTED: 06/19/92
 DATE RECEIVED: 06/26/92
 DATE ANALYZED: 07/02/92

Matrix: Groundwater

Units: ug/l (ppb)

<u>VOLATILES</u>	SEI ID <u>Sample ID</u>	1707-9 <u>Trip Blank</u>
EPA Method SW846-8021		
Benzene		<1
Bromodichloromethane		<2
Bromform		<2
Bromomethane		<10
Carbon tetrachloride		<1
Chlorobenzene		<1
Chloroethane		<1
2-Chloroethylvinyl ether		<4
Chloroform		<1
Chloromethane		<10
Dibromochloromethane		<2
1,2-Dichlorobenzene		<2
1,3-Dichlorobenzene		<2
1,4-Dichlorobenzene		<2
Dichlorodifluoromethane		<1
1,1-Dichloroethane		<1
1,2-Dichloroethane		<1
1,1-Dichloroethene		<1
trans-1,2-Dichloroethene		<1
1,2-Dichloropropane		<1
cis-1,3-Dichloropropene		<2
trans-1,3-Dichloropropene		<2
Ethylbenzene		<1

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ANALYTICAL REPORT

REPORT NUMBER: B9843

Simon Hydro-Search, Inc.
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 Brookfield, WI 53045

Attn: Mr. Rick Binder
 Project #251E19533


DATE: July 17, 1992
 PURCHASE ORDER:
 SEI NO: WL1707
 DATE COLLECTED: 06/19/92
 DATE RECEIVED: 06/26/92
 DATE ANALYZED: 07/02/92

Matrix: Groundwater

Units: ug/l (ppb)

<u>VOLATILES</u>	<u>SEI ID</u> <u>Sample ID</u>	<u>1707-9</u> <u>Trip Blank</u>
EPA Method SW846-8021		
Methylene chloride		<1
1,1,2,2-Tetrachloroethane		<3
Tetrachloroethene		<1
Toluene		<1
1,1,1-Trichloroethane		<1
1,1,2-Trichloroethane		<1
Trichloroethene		<1
Trichlorofluoromethane		<1
Vinyl chloride		<10
Xylenes		<1

- * Due to high concentration of several analytes, samples were diluted resulting in elevated detection limits.


 Rosemary L. Dineen
 Laboratory Director

ORIGINAL

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WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9879

Simon Hydro-Search, Inc.
175 North Corporate Drive, Suite 100
Brookfield, WI 53045

Attn: Mr. Rick Binder
Project #251115093

100 JUL 20 1992
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DATE: July 16, 1992
PURCHASE ORDER:
SEI NO: WL1702
DATE COLLECTED: 06/25/92
DATE RECEIVED: 06/26/92
DATE ANALYZED: 07/08/92
ANALYST: Janet S.

Matrix: Groundwater

Units: ug/l (ppb)

MASTER FILE COPY
Project # 251115093
CC: RSK

	SEI ID	1702-7
<u>VOLATILES</u>	<u>Sample ID</u>	<u>MW-5</u>

EPA Method SW846-8020		
Benzene		140
Toluene		<1
Ethylbenzene		7
Xylenes		<1

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WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: 89879

Simon Hydro-Search, Inc.
 175 North Corporate Drive, Suite 100
 Brookfield, WI 53045

Attn: Mr. Rick Binder
 Project #251115093

DATE: July 16, 1992
 PURCHASE ORDER:
 SEI NO: WL1702
 DATE COLLECTED: 06/25/92
 DATE RECEIVED: 06/26/92
 DATE ANALYZED: 07/08/92
 ANALYST: Janet S.

Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1702-1	1702-3	1702-4	1702-5
	Sample ID	MW-26	MW-34R	MW-27	MW-28B
EPA Method SW846-8021					
Benzene		<1	<1	<1	<1
Bromodichloromethane		<2	<2	<2	<2
Bromform		<2	<2	<2	<2
Bromomethane		<10	<10	<10	<10
Carbon tetrachloride		<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1
Chloroethane		<1	<1	<1	<1
2-Chloroethylvinyl ether		<4	<4	<4	<4
Chloroform		<1	<1	<1	<1
Chloromethane		<10	<10	<10	<10
Dibromochloromethane		<2	<2	<2	<2
1,2-Dichlorobenzene		<2	<2	<2	<2
1,3-Dichlorobenzene		<2	<2	<2	<2
1,4-Dichlorobenzene		<2	<2	<2	<2
Dichlorodifluoromethane		<1	<1	<1	<1
1,1-Dichloroethane		<1	<1	5	<1
1,2-Dichloroethane		<1	<1	<1	<1
1,1-Dichloroethene		<1	<1	<1	<1
trans-1,2-Dichloroethene		<1	<1	87	<1
1,2-Dichloropropane		<1	<1	<1	<1
cis-1,3-Dichloropropene		<2	<2	<2	<2
trans-1,3-Dichloropropene		<2	<2	87	<2
Ethylbenzene		<1	<1	<1	<1

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ANALYTICAL REPORT

REPORT NUMBER: B9879

Simon Hydro-Search, Inc.
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Attn: Mr. Rick Binder
 Project #251115093

DATE: July 16, 1992
 PURCHASE ORDER:
 SEI NO: WL1702
 DATE COLLECTED: 06/25/92
 DATE RECEIVED: 06/26/92
 DATE ANALYZED: 07/08/92

Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1702-1	1702-3	1702-4	1702-5
	Sample ID	MW-26	MW-34R	MW-27	MW-27B
EPA Method SW846-8021					
Methylene chloride		<1	<1	<1	<1
1,1,2,2-Tetrachloroethane		<3	<3	<3	<3
Tetrachloroethene		<1	<1	<1	<1
Toluene		<1	<1	<1	<1
1,1,1-Trichloroethane		2	<1	3	<1
1,1,2-Trichloroethane		<1	<1	<1	<1
Trichloroethene		<1	<1	<1	27
Trichlorofluoromethane		<1	<1	<1	<1
Vinyl chloride		<10	<10	<10	<10
Xylenes		<1	<1	<1	<1

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ANALYTICAL REPORT

REPORT NUMBER: B9879

Simon Hydro-Search, Inc.
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Attn: Mr. Rick Binder
 Project #251115093

DATE: July 16, 1992
 PURCHASE ORDER:
 SEI NO: WL1702
 DATE COLLECTED: 06/25/92
 DATE RECEIVED: 06/26/92
 DATE ANALYZED: 07/08/92

Matrix: Groundwater

Units: ug/l (ppb)

<u>VOLATILES</u>	SEI ID <u>Sample ID</u>	1702-6 <u>MW-72B</u>	1702-8 <u>Trip Blank</u>
EPA Method SW846-8021			
Benzene		<1	<1
Bromodichloromethane		<2	<2
Bromoform		<2	<2
Bromomethane		<10	<10
Carbon tetrachloride		<1	<1
Chlorobenzene		<1	<1
Chloroethane		<1	<1
2-Chloroethylvinyl ether		<4	<4
Chloroform		<1	<1
Chloromethane		<10	<10
Dibromochloromethane		<2	<2
1,2-Dichlorobenzene		<2	<2
1,3-Dichlorobenzene		<2	<2
1,4-Dichlorobenzene		<2	<2
Dichlorodifluoromethane		<1	<1
1,1-Dichloroethane		<1	<1
1,2-Dichloroethane		<1	<1
1,1-Dichloroethene		<1	<1
trans-1,2-Dichloroethene		<1	<1
1,2-Dichloropropane		<1	<1
cis-1,3-Dichloropropene		<2	<2
trans-1,3-Dichloropropene		<2	<2
Ethylbenzene		<1	<1

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ANALYTICAL REPORT

REPORT NUMBER: B9879

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Attn: Mr. Rick Binder
 Project #251115093

DATE: July 16, 1992
 PURCHASE ORDER:
 SEI NO: WL1702
 DATE COLLECTED: 06/25/92
 DATE RECEIVED: 06/26/92
 DATE ANALYZED: 07/08/92

Matrix: Groundwater

Units: ug/l (ppb)

<u>VOLATILES</u>	<u>SEI ID</u> <u>Sample ID</u>	<u>1702-6</u> <u>MW-72B</u>	<u>1702-8</u> <u>Trip Blank</u>
EPA Method SW846-8021			
Methylene chloride		<1	<1
1,1,2,2-Tetrachloroethane		<3	<3
Tetrachloroethene		<1	<1
Toluene		<1	<1
1,1,1-Trichloroethane		<1	<1
1,1,2-Trichloroethane		<1	<1
Trichloroethene		27	<1
Trichlorofluoromethane		<1	<1
Vinyl chloride		<10	<10
Xylenes		<1	<1

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WDR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9879

Simon Hydro-Search, Inc.
 175 North Corporate Drive, Suite 100
 Brookfield, WI 53045

Attn: Mr. Rick Binder
 Project #251115093

DATE: July 16, 1992
 PURCHASE ORDER:
 SEI NO: WL1702
 DATE COLLECTED: 06/25/92
 DATE RECEIVED: 06/26/92
 DATE ANALYZED: 07/08/92

Matrix: Groundwater

Units: ug/l (ppb)

	SEI ID	1702-2
<u>VOLATILES</u>	<u>Sample ID</u>	<u>MW-11A</u>

EPA Method SW846-8021

Benzene	<5
Bromodichloromethane	<10
Bromform	<10
Bromomethane	<50
Carbon tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<5
2-Chloroethylvinyl ether	<20
Chloroform	<5
Chloromethane	<50
Dibromochloromethane	<10
1,2-Dichlorobenzene	<10
1,3-Dichlorobenzene	<10
1,4-Dichlorobenzene	<10
Dichlorodifluoromethane	<5
1,1-Dichloroethane	<5
1,2-Dichloroethane	<5
1,1-Dichloroethene	<5
trans-1,2-Dichloroethene	<5
1,2-Dichloropropane	<5
cis-1,3-Dichloropropene	<10
trans-1,3-Dichloropropene	<10
Ethylbenzene	<5

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ANALYTICAL REPORT

REPORT NUMBER: B9879

Simon Hydro-Search, Inc.
 175 North Corporate Drive, Suite 100
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Attn: Mr. Rick Binder
 Project #251115093

DATE: July 16, 1992
 PURCHASE ORDER:
 SEI NO: WL1702
 DATE COLLECTED: 06/25/92
 DATE RECEIVED: 06/26/92
 DATE ANALYZED: 07/08/92

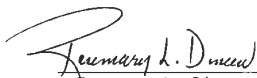
Matrix: Groundwater

Units: ug/l (ppb)

	SEI ID	1702-2
<u>VOLATILES</u>	<u>Sample ID</u>	<u>MW-11A</u>

EPA Method SW846-8021		
Methylene chloride		<5
1,1,2,2-Tetrachloroethane		<15
Tetrachloroethene		<5
Toluene		<5
1,1,1-Trichloroethane		<5
1,1,2-Trichloroethane		<5
Trichloroethene		<5
Trichlorofluoromethane		<5
Vinyl chloride		<50
Xylenes		10

Detection limit elevated due to matrix interference.


 Rosemary L. Dineen
 Laboratory Director

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WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9946

Simon Hydro-Search, Inc.
 175 North Corporate Drive, Suite 100
 Brookfield, WI 53045

Attn: Mr. Rick Binder
 Project #251115093

DATE: July 23, 1992
 PURCHASE ORDER:
 SEI NO: WL1855
 DATE COLLECTED: 07/07&08/92
 DATE RECEIVED: 07/09/92
 DATE ANALYZED: 07/20/92
 ANALYST: Dave M.

Matrix: Groundwater

Units: ug/l (ppb)

<u>SEI ID</u>	<u>Sample ID</u>	<u>Total Cyanides*</u>
1855-7	MW-16A	0.04
1855-8	MW-16	0.24
1855-9	MW-14	<0.01
1855-10	MW-106	0.68
1855-11	MW-43	<0.01
1855-12	MW-17A	<0.01
1855-14	MW-19	<0.01
1855-15	MW-18D	<0.01
1855-16	MW-18B	<0.01
1855-17	MW-18A	<0.01
1855-18	MW-18	0.02
1855-19	MW-20	<0.01

* EPA Method SW846-9010

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WDNR Certification #268181760

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 Project #251115093

DATE: July 23, 1992
 PURCHASE ORDER:
 SEI NO: WL1855
 DATE COLLECTED: 07/07&08/92
 DATE RECEIVED: 07/09/92
 DATE ANALYZED: 07/14/92
 ANALYST: Jim J.

Matrix: Groundwater

Units: ug/l (ppb)

	SEI ID	1855-1	1855-2 ^a	1855-3 ^a	1855-4 ^b
<u>VOLATILES</u>	<u>Sample ID</u>	<u>MW-11B</u>	<u>MW-11C</u>	<u>MW-101C</u>	<u>MW-25</u>
EPA Method SW846-8021					
Benzene		<1	<10	<10	<25
Bromodichloromethane		<2	<20	<20	<50
Bromoform		<2	<20	<20	<50
Bromomethane		<10	<100	<100	<250
Carbon tetrachloride		<1	<10	<10	<25
Chlorobenzene		<1	<10	<10	<25
Chloroethane		<1	240	270	<25
2-Chloroethylvinyl ether		<4	<40	<40	<100
Chloroform		<1	<10	<10	<25
Chloromethane		<10	<100	<100	<250
Dibromochloromethane		<2	<20	<20	<50
1,2-Dichlorobenzene		<2	<20	<20	<50
1,3-Dichlorobenzene		<2	<20	<20	<50
1,4-Dichlorobenzene		<2	<20	<20	<50
Dichlorodifluoromethane		<1	<10	<10	<25
1,1-Dichloroethane		<1	<10	<10	<25
1,2-Dichloroethane		<1	<10	<10	<25
1,1-Dichloroethene		<1	<10	<10	<25
trans-1,2-Dichloroethene		<1	<10	<10	740
1,2-Dichloropropane		<1	<10	<10	<25
cis-1,3-Dichloropropene		<2	<20	<20	<50
trans-1,3-Dichloropropene		<2	<20	<20	<50
Ethylbenzene		<1	<10	<10	<25

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 DATE ANALYZED: 07/14/92

Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1855-1	1855-2 ^a	1855-3 ^a	1855-4 ^b
	Sample ID	MW-11B	MW-11C	MW-101C	MW-25
EPA Method SW846-8021					
Methylene chloride		<2	<20	<10	<25
1,1,2,2-Tetrachloroethane		<3	<30	<30	<75
Tetrachloroethene		<1	<10	<10	<25
Toluene		<1	<10	<10	<25
1,1,1-Trichloroethane		<1	<10	<10	<25
1,1,2-Trichloroethane		<1	<10	<10	<25
Trichloroethene		<1	<10	<10	370
Trichlorofluoromethane		<1	<10	<10	<25
Vinyl chloride		<10	<100	<100	160
Xylenes		<1	13	15	39

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 DATE ANALYZED: 07/14/92

Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1855-5 ^a	1855-6	1855-7	1855-8
	Sample ID	MW-21A	MW-17	MW-16A	MW-16
EPA Method SW846-8021					
Benzene		<10	<1	<1	<1
Bromodichloromethane		<20	<2	<2	<2
Bromform		<20	<2	<2	<2
Bromomethane		<100	<10	<10	<10
Carbon tetrachloride		<10	<1	<1	<1
Chlorobenzene		<10	<1	<1	<1
Chloroethane		<10	<1	<1	<1
2-Chloroethylvinyl ether		<40	<4	<4	<4
Chloroform		<10	<1	<1	<1
Chloromethane		<100	<10	<10	<10
Dibromochloromethane		<20	<2	<2	<2
1,2-Dichlorobenzene		<20	<2	<2	<2
1,3-Dichlorobenzene		<20	<2	<2	<2
1,4-Dichlorobenzene		<20	<2	<2	<2
Dichlorodifluoromethane		<10	<1	<1	<1
1,1-Dichloroethane		<10	<1	<1	1
1,2-Dichloroethane		<10	<1	<1	<1
1,1-Dichloroethene		<10	<1	<1	<1
trans-1,2-Dichloroethene		16	<1	<1	<1
1,2-Dichloropropane		<10	<1	<1	<1
cis-1,3-Dichloropropene		<20	<2	<2	<2
trans-1,3-Dichloropropene		<20	<2	<2	<2
Ethylbenzene		<10	<1	<1	<1

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 DATE ANALYZED: 07/14/92

Matrix: Groundwater

Units: ug/l (ppb)

<u>VOLATILES</u>	<u>SEI ID</u> <u>Sample ID</u>	<u>1855-5^a</u> <u>MW-21A</u>	<u>1855-6</u> <u>MW-17</u>	<u>1855-7</u> <u>MW-16A</u>	<u>1855-8</u> <u>MW-16</u>
EPA Method SW846-8021					
Methylene chloride		<20	<2	<2	<2
1,1,2,2-Tetrachloroethane		<30	<3	<3	<3
Tetrachloroethene		<10	<1	<1	<1
Toluene		<10	<1	<1	<1
1,1,1-Trichloroethane		<10	<1	<1	1
1,1,2-Trichloroethane		<10	<1	<1	<1
Trichloroethene		<10	<1	<1	<1
Trichlorofluoromethane		<10	<1	<1	<1
Vinyl chloride		120	<10	<10	<10
Xylenes		<10	<1	<1	<1

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 DATE RECEIVED: 07/09/92
 DATE ANALYZED: 07/14-15/92

Matrix: Groundwater

Units: ug/l (ppb)

<u>VOLATILES</u>	<u>SEI ID</u> <u>Sample ID</u>	<u>1855-9</u> <u>MW-14</u>	<u>1855-10</u> <u>MW-106</u>	<u>1855-11</u> <u>MW-43</u>	<u>1855-12</u> <u>MW-17A</u>
EPA Method SW846-8021					
Benzene		<1	<1	<1	<1
Bromodichloromethane		<2	<2	<2	<2
Bromform		<2	<2	<2	<2
Bromomethane		<10	<10	<10	<10
Carbon tetrachloride		<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1
Chloroethane		<1	1	<1	<1
2-Chloroethylvinyl ether		<4	<4	<4	<4
Chloroform		<1	<1	<1	<1
Chloromethane		<10	<10	<10	<10
Dibromochloromethane		<2	<2	<2	<2
1,2-Dichlorobenzene		<2	<2	<2	<2
1,3-Dichlorobenzene		<2	<2	<2	<2
1,4-Dichlorobenzene		<2	<2	<2	<2
Dichlorodifluoromethane		<1	<1	<1	<1
1,1-Dichloroethane		<1	<1	3	<1
1,2-Dichloroethane		<1	<1	<1	<1
1,1-Dichloroethene		<1	<1	<1	<1
trans-1,2-Dichloroethene		<1	<1	13	<1
1,2-Dichloropropane		<1	<1	<1	<1
cis-1,3-Dichloropropene		<2	<2	<2	<2
trans-1,3-Dichloropropene		<2	<2	<2	<2
Ethylbenzene		<1	<1	<1	<1

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Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1855-9	1855-10	1855-11	1855-12
	Sample ID	MW-14	MW-106	MW-43	MW-17A
EPA Method SW846-8021					
Methylene chloride		<2	<2	<2	<2
1,1,2,2-Tetrachloroethane		<3	<3	<3	<3
Tetrachloroethene		<1	<1	<1	<1
Toluene		<1	<1	<1	<1
1,1,1-Trichloroethane		<1	<1	<1	<1
1,1,2-Trichloroethane		<1	<1	<1	<1
Trichloroethene		<1	<1	22	<1
Trichlorofluoromethane		<1	<1	<1	<1
Vinyl chloride		<10	<10	<10	<10
Xylenes		<1	<1	<1	<1

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 DATE ANALYZED: 07/14-15/92

Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1855-13	1855-14	1855-15	1855-16
	Sample ID	MW-15	MW-19	MW-18D	MW-18B
EPA Method SW846-8021					
Benzene		<1	<1	<1	<1
Bromodichloromethane		<2	<2	<2	<2
Bromform		<2	<2	<2	<2
Bromomethane		<10	<10	<10	<10
Carbon tetrachloride		<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1
Chloroethane		<1	9	<1	<1
2-Chloroethylvinyl ether		<4	<4	<4	<4
Chloroform		<1	<1	<1	<1
Chloromethane		<10	<10	<10	<10
Dibromochloromethane		<2	<2	<2	<2
1,2-Dichlorobenzene		<2	<2	<2	<2
1,3-Dichlorobenzene		<2	<2	<2	<2
1,4-Dichlorobenzene		<2	<2	<2	<2
Dichlorodifluoromethane		<1	<1	<1	<1
1,1-Dichloroethane		<1	11	1	<1
1,2-Dichloroethane		<1	<1	<1	<1
1,1-Dichloroethene		<1	<1	<1	<1
trans-1,2-Dichloroethene		<1	<1	<1	<1
1,2-Dichloropropane		<1	<1	<1	<1
cis-1,3-Dichloropropene		<2	<2	<2	<2
trans-1,3-Dichloropropene		<2	<2	<2	<2
Ethylbenzene		<1	<1	<1	<1

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 DATE ANALYZED: 07/14-15/92

Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1855-13	1855-14	1855-15	1855-16
	Sample ID	MW-15	MW-19	MW-18D	MW-18B
EPA Method SW846-8021					
Methylene chloride		<2	<2	<2	<2
1,1,2,2-Tetrachloroethane		<3	<3	<3	<3
Tetrachloroethene		<1	<1	<1	<1
Toluene		<1	<1	<1	<1
1,1,1-Trichloroethane		<1	<1	<1	<1
1,1,2-Trichloroethane		<1	<1	<1	<1
Trichloroethene		<1	30	<1	<1
Trichlorofluoromethane		<1	<1	<1	<1
Vinyl chloride		<10	<10	<10	<10
Xylenes		<1	<1	<1	<1

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Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1855-17	1855-18	1855-19 ^a	1855-20
	Sample ID	MW-18A	MW-18	MW-20	MW-21
EPA Method SW846-8021					
Benzene		<1	<1	<10	2
Bromodichloromethane		<2	<2	<20	<2
Bromform		<2	<2	<20	<2
Bromomethane		<10	<10	<100	<10
Carbon tetrachloride		<1	<1	<10	<1
Chlorobenzene		<1	<1	<10	<1
Chloroethane		<1	<1	36	<1
2-Chloroethylvinyl ether		<4	<4	<40	<4
Chloroform		<1	<1	<10	<1
Chloromethane		<10	<10	<100	<10
Dibromochloromethane		<2	<2	<20	<2
1,2-Dichlorobenzene		<2	<2	<20	<2
1,3-Dichlorobenzene		<2	<2	<20	<2
1,4-Dichlorobenzene		<2	<2	<20	<2
Dichlorodifluoromethane		<1	<1	<10	<1
1,1-Dichloroethane		<1	4	74	<1
1,2-Dichloroethane		<1	<1	<10	<1
1,1-Dichloroethene		<1	6	<10	<1
trans-1,2-Dichloroethene		<1	97	<10	<1
1,2-Dichloropropane		<1	<1	<10	<1
cis-1,3-Dichloropropene		<2	<2	<20	<2
trans-1,3-Dichloropropene		<2	<2	<20	<2
Ethylbenzene		<1	<1	<10	<1

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 DATE ANALYZED: 07/15/92

Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1855-17	1855-18	1855-19 ^a	1855-20
	Sample ID	MW-18A	MW-18	MW-20	MW-21
EPA Method SW846-8021					
Methylene chloride		<2	2	<20	<2
1,1,2,2-Tetrachloroethane		<3	<3	<30	<3
Tetrachloroethene		<1	<1	<10	<1
Toluene		<1	<1	<10	<1
1,1,1-Trichloroethane		<1	<1	15	<1
1,1,2-Trichloroethane		<1	<1	<10	<1
Trichloroethene		<1	1,400	40	<1
Trichlorofluoromethane		<1	<1	<10	<1
Vinyl chloride		<10	170	13	<10
Xylenes		<1	<1	10	<1

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 DATE ANALYZED: 07/16/92

Matrix: Groundwater

Units: ug/l (ppb)

	SEI ID	1855-21	1855-22
<u>VOLATILES</u>	<u>Sample ID</u>	<u>MW-37</u>	<u>Trip Blank</u>
EPA Method SW846-8021			
Benzene		<1	<1
Bromodichloromethane		<2	<2
Bromform		<2	<2
Bromomethane		<10	<10
Carbon tetrachloride		<1	<1
Chlorobenzene		<1	<1
Chloroethane		<1	<1
2-Chloroethylvinyl ether		<4	<4
Chloroform		<1	<1
Chloromethane		<10	<10
Dibromochloromethane		<2	<2
1,2-Dichlorobenzene		<2	<2
1,3-Dichlorobenzene		<2	<2
1,4-Dichlorobenzene		<2	<2
Dichlorodifluoromethane		<1	<1
1,1-Dichloroethane	2	<1	<1
1,2-Dichloroethane		<1	<1
1,1-Dichloroethene		<1	<1
trans-1,2-Dichloroethene		<1	<1
1,2-Dichloropropane		<1	<1
cis-1,3-Dichloropropene		<2	<2
trans-1,3-Dichloropropene		<2	<2
Ethylbenzene		<1	<1

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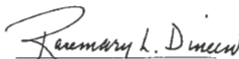
DATE: July 23, 1992
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 DATE COLLECTED: 07/07&08/92
 DATE RECEIVED: 07/09/92
 DATE ANALYZED: 07/16/92

Matrix: Groundwater

Units: ug/l (ppb)

VOLATILES	SEI ID	1855-21	1855-22
	Sample ID	MW-37	Trip Blank
EPA Method SW846-8021			
Methylene chloride		<2	<2
1,1,2,2-Tetrachloroethane		<3	<3
Tetrachloroethene		<1	<1
Toluene		<1	<1
1,1,1-Trichloroethane		<1	<1
1,1,2-Trichloroethane		<1	<1
Trichloroethene		<1	<1
Trichlorofluoromethane		<1	<1
Vinyl chloride		<10	<10
Xylenes		<1	<1

- a: Detection limits for this sample multiplied by 10x dilution factor.
 b: Detection limits for this sample multiplied by 25x dilution factor.


 Rosemary L. Dineen
 Laboratory Director

ORIGINAL

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	TEST PARAMETERS					SAMPLE TYPE (Specify groundwater, soil, wastewater, sludge, etc.)
25115093		25115093					Vocs (2021) (4000-2352)					
SAMPLERS: T. Jones Simon Hydro-Search												
SEI #	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION						
	MW-11B	7-7	11:00	X		Boyle	2	✓				* Samples were field filtered Total dissolved
	MW-11C	7-7-92	11:40	X		"	2	✓				analysis
	MW-16-1C	"	11:00	X		"	2	✓				Samples on ice
	MW-25	7-7-92	9:30	X		"	2	✓				
	MW-21H	7-7-92	7:45	X		"	2	✓				
	MW-17	7-8-92	8:15	X		"	2	✓				
	MW-16A	"	11:20	X		"	3	✓	✓			
	MW-16	"	11:40	X		"	3	✓	✓			
	MW-14	"	12:40	X		"	3	✓	✓			
	MW-16L	"	12:25	X		"	3	✓	✓			
	MW-43	"	1:45	X		"	3	✓	✓			
	MW-17H	"	2:20	X		"	3	✓	✓			
	MW-15	"	2:00	X		"	2	✓				

SAMPLE CONDITION: _____

SAMPLE LOCATION: _____

RELINQUISHED BY: <i>Thomas R Jones</i>	DATE / TIME 7/8/92	RELINQUISHED BY: <i>Richard J Binder</i>	DATE / TIME 7/8/92
RECEIVED BY: <i>Richard J Binder</i>	DATE / TIME 7/21/92	RECEIVED BY: <i>LeRoy Dehn</i>	DATE / TIME 7/21/92

SPECIAL REQUESTS: _____

REPORT TO:
NAME: *Richard J. Binder / Simon Hydro-Search*
ADDRESS: *175 N. Corporate Dr STE 100*
PHONE: *792-1282*



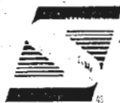
LABORATORY
3150 North Brookfield Rd.
Brookfield, WI 53045
(414) 783-6111
Fax (414) 783-5752

SWANSON ENVIRONMENTAL INC.

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME						TEST PARAMETERS		SAMPLE TYPE	
251115093		251115093						VOC's (6021) 2352*		2/2 (Specify groundwater, soil, wastewater, sludge, etc.)	
SAMPLERS:						NO. OF CONTAINERS					
SEI #	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION					
	MW-17	7-0-92	4:25	X		Chrysler		2	✓	✓	* Samples were field.
	MW-19D	7-2-92	8:10am	X		"		3	✓	✓	Followed Total dissolved
	MW-19A	"	8:45	X		"		3	✓	✓	analysis
	MW-19B	"	19:15	X		"		3	✓	✓	
	MW-18	"	10:30	X		"		3	✓	✓	Samples on ice
	MW-20	"	11:00	X		"		3	✓	✓	
	MW-21	"	11:40	X		"		2	✓		
	MW-37	"	12:30	X		"		2	✓		
	T.P. Blank	7/8/92				T.P. Blank		6	✓		
SAMPLE CONDITION:						SAMPLE LOCATION:					
RELINQUISHED BY:		DATE / TIME		RELINQUISHED BY:		DATE / TIME		SPECIAL REQUESTS:			
Thomas R Jones		7-5-92 3:55		Richard J Binder		7/4/92 16:15					
RECEIVED BY:		DATE / TIME		RECEIVED BY:		DATE / TIME		REPORT TO:			
Richard J Binder		7/4/92 16:15		Reka Nelson		7/4/92 16:15		NAME: Richard J. Binder			
								ADDRESS: 175 N. Corporate Dr. STE 100			
								PHONE: 792-1282			

LABORATORY
 3150 North Brookfield Rd.
 Brookfield, WI 53045
 (414) 783-8111
 Fax (414) 783-5752



SWANSON ENVIRONMENTAL INC.

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	TEST PARAMETERS										SAMPLE TYPE (Specify groundwater, soil, wastewater, sludge, etc.)							
25115093		25115093					VOCs 8021																	
SAMPLERS:						D.L. Nader, R.J. Binder																		
SEI #	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION																		
	MW-29	6/24	12:30		✓		2	✓																
	MW-30	6/24	14:00		✓		2	✓																
	MW-31	6/24	14:25		✓		2	✓																
	MW-38	6/24	15:10		✓		2	✓																
	MW-41	6/24	15:30		✓		2	✓																
	MW-40	6/24	15:45		✓		2	✓																
	MW-29A	6/24	16:00		✓		2	✓																
	MW-36A	6/24	16:30		✓		2	✓																
	TRIP BLANK	6/23					2	✓																
SAMPLE CONDITION: on ice						SAMPLE LOCATION:																		
RELINQUISHED BY: <i>Richard J. Binder</i>		DATE / TIME 6/25/11:30		RELINQUISHED BY:			DATE / TIME 		SPECIAL REQUESTS:															
RECEIVED BY: <i>Lisa DeLeon</i>		DATE / TIME 6/25/11:30		RECEIVED BY:			DATE / TIME 		REPORT TO: <i>Simon Hydro-Search</i>															
									NAME: <i>Richard J. Binder</i>															
									ADDRESS: <i>175 N. Wisconsin Ave STE 100</i> <i>Brookfield, WI 53045</i>															
									PHONE: <i>792-1282</i>															



SWANSON ENVIRONMENTAL INC.

LABORATORY
3150 North Brookfield Rd.
Brookfield, WI 53045
(414) 783-8111
Fax (414) 783-5752

REPORT TO: *Simon Hydro-Search*
NAME: *Richard J. Binder*
ADDRESS: *175 N. Wisconsin Ave STE 100*
Brookfield, WI 53045
PHONE: *792-1282*

CHAIN OF CUSTODY RECORD

PROJ. NO. 25115093		PROJECT NAME 25115093				NO. OF CONTAINERS	TEST PARAMETERS					SAMPLE TYPE (Specify groundwater, soil, wastewater, sludge, etc.)
SAMPLER: SA <i>Mr. D.L. Nader</i>							<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;"> VOCs (9021) PEST (9020) </div>					
SEI #	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION						
	MW-26	6/25/92	13:50		✓		2	✓				
	MW-11A	6/25/92	11:20		✓		2	✓				
	MW-34R	6/25/92	12:00		✓		2	✓				
	MW-27	6/25/92	15:25		✓		2	✓				
	MW-27B	6/25/92	14:55		✓		2	✓				
	MW-22B	6/25/92	15:00		✓		2	✓				
	MW-5	6/25/92	16:30		✓		2	✓				
	Trip Blank	6/23/92					2	✓				

SAMPLE CONDITION:	SAMPLE LOCATION:
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RELINQUISHED BY: <i>Richard J. Binder</i>	DATE / TIME 6/26/92 13:00	RELINQUISHED BY:	DATE / TIME	SPECIAL REQUESTS:
RECEIVED BY: <i>Simon Hydro-Search</i>	DATE / TIME 6/26/92 15:00	RECEIVED BY:	DATE / TIME	REPORT TO: <i>Simon Hydro-Search</i>

LABORATORY
 3150 North Brookfield Rd.
 Brookfield, WI 53045
 (414) 783-6111
 Fax (414) 783-5752

NAME: *Richard J. Binder*
 ADDRESS: *175 N. Corporate Drive Suite 100*
Brookfield, WI 53045
 PHONE: *(414) 792-1282*



SWANSON ENVIRONMENTAL INC.

CHAIN OF CUSTODY RECORD

PROJ. NO.		SUBJECT NAME					NO. OF CONTAINERS	TEST PARAMETERS										SAMPLE TYPE (Specify groundwater, soil, wastewater, sludge, etc.)		
SAMPLERS:		Dave Nader						VOC Method 80												
SEI #	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION														
1	MW-11	6/26	11 ¹⁰		✓		2	✓												
2	MW-10	6/26	11 ¹⁵		✓		2	✓												
3	MW-12	"	11 ⁴⁰		✓		2	✓												
4	MW-27C	"	12 ⁴⁵		✓		2	✓												
5	MW-27D	"	13 ¹⁰		✓		2	✓												
6	MW-27E	"	13 ⁴⁰		✓		2	✓												
7	MW-27A	"	14 ¹⁵		✓		2	✓												
8	MW-28	"	14 ⁵⁰		✓		2	✓												
9	Trip	6/19					2	✓												

(Specify groundwater, soil, wastewater, sludge, etc.)

GW

Received on 6/20

SAMPLE CONDITION:	SAMPLE LOCATION:
-------------------	------------------

RELINQUISHED BY: David Nader	DATE / TIME 6/26 4 ⁰⁰	RELINQUISHED BY:	DATE / TIME	SPECIAL REQUESTS:
RECEIVED BY: Kim Sorelle	DATE / TIME 6/26 4 ⁰⁰	RECEIVED BY:	DATE / TIME	REPORT TO:

NAME: Rick Binder
 ADDRESS: Simon Hydro-Search
 175 N. Corporate Dr.
 Suite 100
 PHONE:



LABORATORY
 3150 North Brookfield Rd.
 Brookfield, WI 53045
 (414) 783-6111
 Fax (414) 783-5752

SWANSON ENVIRONMENTAL INC.

Brookfield, WI 53045
 783-1282

FIELD WATER QUALITY SAMPLING AND ANALYSIS

PROJECT: Chrysler
 PROJECT #: 251125-093
 LOCATION: Kanisha, WI
 PERSONNEL: DCN

INSTRUMENTS
 TEMPERATURE: Cole-Parmer Digital Meter #7
 CONDUCTIVITY: VSI 24-C-T Meters #1
 pH: Cole-Parmer Dig. Tol Meter #7
 OTHER: _____

GENERAL: SAMPLE POINT		MW-29	MW-30	MW-31	MW-35	MW-41
WATER TYPE		Ground water				
DATE		6-24-92				
CLOCK TIME		12:30	14:00	14:25	15:10	15:30
WATER ELEVATION (ft)		9.06	10.82	13.39	10.49	10.67
MEASURED WELL DEPTH (ft)		20.64	21.89	21.56	17.45	15.70
PURGE VOL/CASING VOL (g)		7.6	7.2	5.3	4.5	3.3
DEPTH SAMPLE TAKEN						
SAMPLING DEVICE		Boiler				
FIELD TEMPERATURE (C)		11.8	12.3	12.2	13.2	12.5
ELEC. COND. (umhos/cm)	MEASURED AT 25 C	900	1300	1300	1100	800
PH		6.28	6.17	6.38	6.34	6.69
ALKALINITY						
COLOR		Brown	Brown	Brown	DK. Brown	Gray
ODOR		None	None	None	None	None
CLARITY		Silty	Silty	Silty	Silty	Silty, Sandy
SAMPLING PARAMETERS		# OF CONTAINERS & CONT. VOLUME; CONTAINER TYPE (A=AMBER GLASS; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE - (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES OR NO)				
VOCs (8031)		2 40 ml glass septum vials				
LABORATORY: SENT TO: DATE SENT:		Swanson				
SAMPLED BY:		DCN	DCN	DCN	DCN	DCN

FIELD WATER QUALITY SAMPLING AND ANALYSIS

PROJECT: Chrysker
 PROJECT #: 251115093
 LOCATION: Keweenaw WI
 PERSONNEL: DCN

INSTRUMENTS: Cole-Parmer Digital Meter #7
 TEMPERATURE: YSI SP-C-1 Meter #1
 CONDUCTIVITY: Cole-Parmer Digital Meter #7
 PH:
 OTHER:

GENERAL: SAMPLE POINT		MW-40	MW-29A	MW-30A	MW-11C	MW-11A
WATER TYPE		Groundwater				
DATE		6-24-92			6-25-92	6-25-92
CLOCK TIME		15:45	16:00	16:30	10:45	11:20
WATER ELEVATION (ft)		10.76	10.70	17.70	9.34	10.19
MEASURED WELL DEPTH (ft)		15.94	22.40	14.62	13.54	16.78
PURGE VOL/CASING VOL (g)		3.4	8.0	3.1	2.1	4.3
DEPTH SAMPLE TAKEN						
SAMPLING DEVICE		Bailer				
FIELD TEMPERATURE (C)		12.4	12.1	13.8	Product	13.2
ELEC. COND. (umhos/cm)	MEASURED	1000	550	2300	in	1200
	AT 25 C	1340	737	2944	well	1578
PH		9.08	7.24	6.63		6.29
ALKALINITY						
COLOR		DK Gray	DK Brown	DK Brown		DK Gray
ODOR		Seaweed odor	None	None		Earthy odor
CLARITY		SILTY, SANDY	SILTY	SILTY		SILTY, SANDY
SAMPLING PARAMETERS		# OF CONTAINERS & CONT. VOLUME; CONTAINER TYPE (A=AMBER GLASS; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE - (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES OR NO)				
VOCs (SO2)		2 40ml glass septum vials				
LABORATORY: SENT TO: DATE SENT:		SWANSON 6-25-92			7-9-92	6-26-92
SAMPLED BY:		DCN	DCN	DCN	DCN	DCN

FIELD WATER QUALITY SAMPLING AND ANALYSIS

PROJECT: Chriske
 PROJECT #: 25115093
 LOCATION: exposha, w. 1
 PERSONNEL: TCN

INSTRUMENTS: Cek-Primer Digital Meter #7
 TEMPERATURE: YSI SP-C-T Meter #1
 CONDUCTIVITY: YSI SP-C-T Meter #1
 pH: Cek-Primer Digital Meter #7
 OTHER: _____

GENERAL:	SAMPLE POINT	MW-34R	MW-11B	MW-25	MW-26	MW-27B
WATER TYPE	Ground water					
DATE	7/2/92	6-25-92				
CLOCK TIME	6:25-92	13:00	13:25	13:50	14:55	
WATER ELEVATION (ft)	16.45	6.70	13.35	11.33	16.14	
MEASURED WELL DEPTH (ft)	11.15	15.80	19.73	17.00	17.66	
PURGE VOL/CASING VOL (g)	0.5	6.0	4.0	3.7	5.0	
DEPTH SAMPLE TAKEN						
SAMPLING DEVICE	Boiler					
FIELD TEMPERATURE (C)	13.2	13.2	12.7	12.8	14.0	
ELEC. COND. (umhos/cm)	1300	450	1000	800	1100	
MEASURED AT 25 C	1716	592	1315	1650	1468	
pH	7.18	6.77	6.45	6.69	6.86	
ALKALINITY						
COLOR	Lt. Brown	Gray	Lt Brown	Lt Brown	Brown	
ODOR	Earthy	None	Sewage	None	Hydrocarbon?	
CLARITY	SILTY	Cloudy	SILTY	Cloudy, Sandy	Sandy	
SAMPLING PARAMETERS	# OF CONTAINERS & CONT. VOLUME; CONTAINER TYPE (A=AMBER GLASS; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE - (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES OR NO)					
VOCs (8021)	2 40 ml glass septum vials					Duplicate also taken 15:00 (-mw-72B)
LABORATORY: SENT TO: DATE SENT:	Scienceman - 6-26-92	7-9-92	7-9-92	6-26-92	6-26-92	
SAMPLED BY:	Dea'	Dea'	Dea'	Dea'	Dea'	

FIELD WATER QUALITY SAMPLING AND ANALYSIS

PROJECT: Chrysler
 PROJECT #: 35/115093
 LOCATION: Kenosha, WI
 PERSONNEL: DCW

INSTRUMENTS: Cole-Parmer Digital Meter #7
 TEMPERATURE: VS1 SP-C-T Meter #1
 CONDUCTIVITY: Cole-Parmer Digital Meter #7
 PH: VS1 SP-C-T Meter #1
 OTHER: _____

GENERAL: SAMPLE POINT		MW-27	MW-5	MW-11	MW-12	MW-27C
WATER TYPE		Ground water				
DATE		6-25-92	6-25-92	6-26-92		
CLOCK TIME		15:15	16:30	11:10	11:40	12:45
WATER ELEVATION (ft)		11.03	14.29	8.39	12.74	11.98
MEASURED WELL DEPTH (ft)		16.42	17.36	13.80	20.18	20.06
PURGE VOL/CASING VOL(g)		3.5	2.0	3.5	4.9	5.3
DEPTH SAMPLE TAKEN						
SAMPLING DEVICE		Boiler				
FIELD TEMPERATURE (C)		13.1	13.4	13.1	12.6	12.6
ELEC. COND. (µmhos/cm)	MEASURED AT 25 C	1150	1400	800	1100	1250
PH		6.86	6.89	6.82	6.80	6.92
ALKALINITY						
COLOR		Lt Brown	Gray	Gray	Lt Gray	Lt Gray
ODOR		Hydrocarbon?	Hydrocarbon?	Hydrocarbon	None	Earthy
CLARITY		Sandy	SILTY	Mucky	SILTY, Sandy	Cloudy
SAMPLING PARAMETERS		# OF CONTAINERS & CONT. VOLUME; CONTAINER TYPE (A=AMBER GLASS; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE - (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES OR NO)				
VOCs (8021)		2 46ml glass septum vials				
				Duplicate also taken 11:15 (MW-101)		
LABORATORY: SENT TO: Swanson						
DATE SENT: 6-26-92		6-26-92	6-26-92	6-26-92	6-26-92	6-26-92
SAMPLED BY: DCW		DCW	DCW	DCW	DCW	DCW

FIELD WATER QUALITY SAMPLING AND ANALYSIS

PROJECT: Chrysler
 PROJECT #: 351115 073
 LOCATION: Kansas, W1
 PERSONNEL: DCN

INSTRUMENTS: Cole-Parmer Digital Meter #7
 TEMPERATURE: VS1 SP-C-T Meter #1
 CONDUCTIVITY: Cole-Parmer Digital Meter #7
 PH: Cole-Parmer Digital Meter #7
 OTHER: _____

GENERAL: SAMPLE POINT	MW-27D	MW-27E	MW-27A	MW-28
WATER TYPE	Groundwater			
DATE	6-26-92			
CLOCK TIME	13:10	13:40	14:15	14:50
WATER ELEVATION (ft)	14.68	16.14	11.35	9.65
MEASURED WELL DEPTH (ft)	22.06	22.96	17.7	17.78
PURGE VOL/CASING VOL (g)	4.8	4.4	4.1	5.3
DEPTH SAMPLE TAKEN				
SAMPLING DEVICE	Bailer			
FIELD TEMPERATURE (C)	11.6	10.6	12.4	11.8
ELEC. COND. (µmhos/cm)	1400	375	800	700
MEASURED AT 25 C	1876	514	1072	1206
PH	7.18	7.29	7.27	7.10
ALKALINITY				
COLOR	Lt Gray	Lt Brown	Lt Brown	Lt Brown
ODOR	None	None	None	None
CLARITY	Cloudy	Silty	SILTY	SILTY
SAMPLING PARAMETERS	# OF CONTAINERS & CONT. VOLUME; CONTAINER TYPE (A=AMBER GLASS; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE - (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES OR NO)			
VOCs (8021)	2 40ml glass septum vials			
LABORATORY: SENT TO: Swenson				
DATE SENT: 6-26-92				
SAMPLED BY:	DCN	DCN	DCN	DCN

FIELD WATER QUALITY SAMPLING AND ANALYSIS

PROJECT: Chrysler
 PROJECT #: 25115093
 LOCATION: Roads/Sha + W1
 PERSONNEL: Tommy Jones, Rick Binder

INSTRUMENTS: Cole-Parmer Digital Meter #7
 TEMPERATURE: YSI 3P-C-T Meter #1
 CONDUCTIVITY: Cole-Parmer Digital Meter #7
 pH:
 OTHER:

GENERAL: SAMPLE POINT		MW-21A	MW-17	MW-16A	MW-16	MW-14
WATER TYPE		Groundwater →				
DATE		7-7-92	7-8-92	7-8-92	7-8-92	7-8-92
CLOCK TIME		14:10	8:00	10:45	11:00	11:45
DEPTH TO WATER*		10.42	7.35	10.12	6.58	6.68
MEASURED WELL DEPTH		16.22	13.20	17.14	13.48	13.34
PURGE VOL/CASING VOL(g)			5 gal bailed	5 gal bailed	5 gal bailed	5 gal bailed
DEPTH SAMPLE TAKEN						
SAMPLING DEVICE		Bailer →				
FIELD TEMPERATURE (°C)		13.9	13.8	14.6	14.6	14.5
ELEC. COND. (umhos/cm)	MEASURED	1300	2900	650	350	Metec Down
	AT 25°C	1664	3712	821	442	NA
pH		6.85	6.92	7.23	7.05	7.01
ALKALINITY						
COLOR		Brown	Brown	Brown	Brown	Brown
ODOR		None	None	None	HC odor	HC odor
CLARITY		Silty	Silty	Silty	Silty	Silty
SAMPLING PARAMETERS		# OF CONTAINERS & CONT. VOLUME; CONTAINER TYPE (A=AMBER GLASS; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE - (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES OR NO)				
VOCs		2G	2G	3G	3G	3G
Cyanide (Field Filtered)				3P/NAOH L	3P/NAOH L	3P/NAOH L
LABORATORY: SENT TO:		Swanson →				
DATE SENT:		Tommy Jones →				
SAMPLED BY:		7-7-92 →				

*Measured from top of well riser.

DCW

FIELD WATER QUALITY SAMPLING AND ANALYSIS

PROJECT: Chrysler
 PROJECT #: 257115093
 LOCATION: Remisha, WI
 PERSONNEL: Tommy Jones, Rick Binder

INSTRUMENTS: Cole-Parmer Digital Meter #7
 TEMPERATURE: YSI SP-C-T Meter #1
 CONDUCTIVITY: YSI SP-C-T Meter #1
 pH: Cole-Parmer Digital Meter #7
 OTHER: _____

GENERAL: SAMPLE POINT		MW-43	MW-17A	MW-15	MW-19	MW-18D
WATER TYPE		Ground water				→
DATE		7-8-92	7-8-92	7-8-92	7-8-92	7-9-92
CLOCK TIME		13:16	14:11	14:45	15:45	7:45
DEPTH TO WATER*		10.77	10.86	11.04	6.35	10.53
MEASURED WELL DEPTH		16.48	16.80	13.90	14.10	16.76
PURGE VOL/CASING VOL(g)		5 gal Bailed	5 gal Bailed	4 gal Bailed	7 gal bailed	5 gal bailed
DEPTH SAMPLE TAKEN						
SAMPLING DEVICE		Bailer				→
FIELD TEMPERATURE (°C)		15.2	14.5	14.4	14.8	15.4
ELEC. COND. (umhos/cm)	MEASURED	700	NA meter down	1200	2200	750
	AT 25°C	872	NA	1515	2739	923
pH		7.41	7.53	6.82	6.94	7.94
ALKALINITY						
COLOR		Brown	Brown	Brown	Brown	Brown
ODOR		None	None	None	None	None
CLARITY		Silty	Silty	Silty	Silty	Silty
SAMPLING PARAMETERS		# OF CONTAINERS & CONT. VOLUME; CONTAINER TYPE (A=AMBER GLASS; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE - (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES OR NO)				
VOCs		3G	3G	2G	2G	3G
Cyanide (Field Filtered)		3P/NaOH L	→		2P/NaOH L	3P/NaOH L
LABORATORY: SENT TO:		Swanson				→
DATE SENT:		7-9-92				→
SAMPLED BY:		Tommy Jones				→

*Measured from top of well riser.

DCN

FIELD WATER QUALITY SAMPLING AND ANALYSIS

PROJECT: Chryster
 PROJECT #: 251115079
 LOCATION: Nebraska, WJ
 PERSONNEL: Tommy Jones, Rick Binder

INSTRUMENTS
 TEMPERATURE: Cole-Parmer Digital Meter #7
 CONDUCTIVITY: YSI SP-C-T Meter #1
 pH: Cole-Parmer Digital Meter #7
 OTHER: _____

GENERAL: SAMPLE POINT		MW-18B	MW-18A	MW-18	MW-20	MW-21
WATER TYPE		Ground Water				
DATE		7-9-92	7-9-92	7-9-92	7-9-92	7-9-92
CLOCK TIME		8:20	8:52	10:00	10:40	11:20
DEPTH TO WATER*		11.83	13.72	9.20	10.35	10.78
MEASURED WELL DEPTH		16.73	17.92	13.75	12.80	16.04
PURGE VOL/CASING VOL(g)		5 gal Bailed		4 gal Bailed	4 gal Bailed	5 gal Pumped
DEPTH SAMPLE TAKEN					11.35' to product	
SAMPLING DEVICE		Bailer				Pump
FIELD TEMPERATURE (°C)		15.3	15.9	15.0	NA	14.8
ELEC. COND. (Umhos/cm)	MEASURED	850	850	1100	NA	1000
	AT 25°C	1046	1029	1370	NA	1245
pH		6.69	6.77	6.97	NA	7.13
ALKALINITY						
COLOR		Red	Red	Red	Gray	Lt. Brown
ODOR		None	None	None	Oily Water	None
CLARITY		Silty	Silty	Silty	Silty	Cloudy/Silty
SAMPLING PARAMETERS		# OF CONTAINERS & CONT. VOLUME; CONTAINER TYPE (A=AMBER GLASS; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES OR NO)				
VOCs		3G	3G	3G	3G	2G
Cyanide (Field Filtered)		3P/NaOH L				
LABORATORY: SENT TO:		Svensson				
DATE SENT:		7-9-92				
SAMPLED BY:		Tommy Jones				

*Measured from top of well riser.

D.C.N

FIELD WATER QUALITY SAMPLING AND ANALYSIS

PROJECT: Chryster
 PROJECT #: 25115093
 LOCATION: Remesha, WI
 PERSONNEL: Tommy Jones, Rick Binder

INSTRUMENTS
 TEMPERATURE: Cole-Parmer Digital Meter #7
 CONDUCTIVITY: YSI SP-C-1 Meter #1
 pH: Cole-Parmer Digital Meter #7
 OTHER: _____

GENERAL:	SAMPLE POINT	MW-37			
	WATER TYPE	Ground water			
	DATE	7-9-92			
	CLOCK TIME	12:20			
	DEPTH TO WATER*	11.76			
	MEASURED WELL DEPTH	16.50			
	PURGE VOL/CASING VOL(g)	5 gal Pumped			
	DEPTH SAMPLE TAKEN				
	SAMPLING DEVICE	Pump			
	FIELD TEMPERATURE (°C)	14.7			
	ELEC. COND. (umhos/cm)	MEASURED 750 AT 25°C 947			
	pH	6.93			
	ALKALINITY				
	COLOR	Clear			
	ODOR	None			
	CLARITY	Clear			
SAMPLING PARAMETERS		# OF CONTAINERS & CONT. VOLUME; CONTAINER TYPE (A=AMBER GLASS; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE - (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES OR NO)			
	VOCs	2 G			
LABORATORY:	SENT TO:	Swanson			
	DATE SENT:	7-9-92			
	SAMPLED BY:	Tommy Jones			

*Measured from top of well riser.

DCV

APPENDIX B
WATER LEVEL DATA

WATER LEVEL DATA

PROJECT: Chrysler Main Plant Kenosha, WI

WELL #	SCREEN TOP ELEV. (MSL, ft.)	GROUND SURFACE ELEV. (MSL, ft.)	RISER ELEV. (MSL, ft.)	WATER DEPTH 7/15/92 (ft.)	WATER ELEV. 7/15/92 (MSL, ft.)
1	618.48	625.14	624.72	7.41	617.31
2	617.55	625.05	624.51	5.64	618.87
3	620.71	623.21	622.29	NM	
4	613.64	621.64	620.95	8.8	612.15
5	612.79	621.37	620.82	13.66	607.16
5A	613.77	621.77	621.35	13.1	608.25
6	616.82	620.82	619.99	NM	619.99
6A	618.3	621.26	624.09	8.34	615.75
6B	616.3	621.53	624.45	(Well abandoned)	
6C	615.1	621.06	624.01	8.18	615.83
7	615.20	621.20	620.58	NM	
8	614.13	622.13	621.63	4.66	616.97
8A	614.64	622.69	621.91	NM	
9	(Not installed)				
10	612.33	625.79	628.82	19.55	609.27
11	619.75	624.35	623.88	5.77	618.11
11A	620.14	624.14	626.99	8.27	618.72
11B	620.00	623.00	625.90	5.24	620.66
11C	620.83	623.83	626.71	9.14	617.57
11D	620.86	623.86	626.87	(Well abandoned)	
12	615.46	623.46	625.88	12.26	613.62
13	615.20	619.17	618.70	(Well abandoned)	
13A	620.41	624.41	627.25	11.63	615.62
14	618.34	622.87	622.34	6.5	615.84
15	619.45	624.75	624.31	10.94	613.37
16	618.34	622.89	622.44	6.15	616.29
16A	618.69	623.09	626.17	8.92	617.25
17	618.59	623.35	622.79	5.48	617.31
17A	620.30	623.90	626.79	9.8	616.99
17B	620.15	624.15	627.10	9.7	617.40
18	620.09	624.86	624.09	8.76	615.33
18A	618.55	625.65	628.58	13.32	615.26
18B	621.20	625.30	627.93	10.81	617.12
18C	621.22	625.22	627.94	13.25	614.69
18D	620.06	624.06	626.79	9.95	616.84
19	617.40	622.94	622.40		
19*	617.40	622.96	622.42	5.71	616.71
20	621.03	625.23	624.85	10.19	614.66
21	619.56	623.76	625.81		
21*	619.56	624.64	626.09	9.92	616.17
21A	619.56	623.26	626.79		
21A*	619.56	623.66	626.09	9.59	616.50
22	623.01	625.00	627.01	6.44	620.57
23	621.01	625.21	624.55	9.58	614.97
24	610.87	620.56	619.87	2.99	616.88
24A	619.52	627.52	630.06	8.36	621.70
25	618.98	625.88	628.77		
25*	618.98	625.65	628.70	12.43	616.27
26	619.37	623.37	626.24	9.73	616.51
27	618.87	622.87	625.61	9.2	616.41
27A	617.3	622.31	625.14	10	615.14
27B	618.2	622.91	625.79	7.56	618.23
27C	617.9	624.47	627.87	10.84	617.03
27D	616.9	625.52	627.91	13.8	614.11
27E	617.6	627.33	629.43	15.38	614.05
28	615.89	621.19	623.69	8.02	615.67
29	616.03	624.03	626.43	7.43	619.00

29A	613.87	624.38	627.28	10.48	616.80
30	614.39	623.39	625.82	10.04	615.78
31	615.62	624.82	627.38	12.44	614.94
32	(Duplicate water sample of MW-19, 1/24/90)				
33	(Duplicate water sample of MW-26, 1/30/90)				
34	621.00	626.00	629.07		
34R	621.37	625.87	625.22	10.07	615.15
35B	619.75	625.75	628.80	15.82	612.98
36A	620.21	625.21	628.15	14.18	613.97
37	621.31	625.31	628.72	10.58	618.14
38	620.62	625.62	628.51	9.34	619.17
39	(Not installed; auger refusal)				
40	621.33	625.83	628.67	10.34	618.33
41	621.01	626.01	628.86	9.39	619.47
42	(Not installed)				
43	620.01	623.51	626.42	8.34	618.08
Sump40	7	623.54	629.35	20.33	609.02
Sump45a	7	621.37	626.97	22.23	604.74
BLDG.52					
SUMPS:					
S-1	7	623.47	625.00	11.69	613.31
S-2	7	623.14	626.10	10.15	615.95
S-3	7	617.95	621.98	7.44	614.54
USTSump	7	631.57	634.06	NH	
QW-1	7	617.95	620.83	5.35	615.48
QW-2	7	618.48	623.26	7.63	615.63

NOTE: " " " " Ground surface and riser elevations resurveyed by Triad Engineering,

WATER LEVEL DATA FILENAME: SUMPTEST.WK1

PROJECT: Chrysler Main Plant Kenosha, WI

WELL #	SCREEN	GROUND	RISER	State Plane Coord's.		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	TOP	SURFACE	ELEV.	Northing	Easting	DEPTH	ELEV.	DEPTH	ELEV.	DEPTH	ELEV.	DEPTH	ELEV.
	ELEV.	ELEV.	(MSL,ft.)			(MSL,ft.)	(ft.)	(MSL,ft.)	(ft.)	(MSL,ft.)	(ft.)	(MSL,ft.)	(ft.)
13A	620.41	624.41	627.25	219680.1460	2582162.2100	12.03	615.22	12.05	615.20	12.06	615.19	12.07	615.18
14	618.34	622.87	622.34	219459.9260	2581680.2100	6.19	616.15	6.42	615.92	6.46	615.88	6.5	615.84
15	619.45	624.75	624.31	220158.0120	2582083.0400	10.86	613.45	10.86	613.45	10.88	613.43	10.89	613.42
16	618.34	622.89	622.44	219448.4120	2581567.5800	6.32	616.12	6.39	616.05	6.42	616.02	6.45	615.99
16A	618.69	623.09	626.17	219609.8200	2581546.5200	10.02	616.15	10.06	616.11	10.09	616.08	10.09	616.08
17	618.59	623.35	622.79	220148.4577	2581771.6222	7.27	615.52	7.28	615.51	7.3	615.49	7.3	615.49
18	620.09	624.86	624.09	219293.8090	2581494.4400	9.02	615.07	9.03	615.06	9.05	615.04	9.06	615.03
18A	618.55	625.65	628.58	219264.3176	2581203.8251	13.54	615.04	13.56	615.02	13.58	615.00	13.59	614.99
18B	621.20	625.30	627.93	219404.0967	2581204.7430	11.67	616.26	11.72	616.21	11.73	616.20	11.74	616.19
18C	621.22	625.22	627.94	219277.1362	2581401.8623	13.46	614.48	13.47	614.47	13.48	614.46	13.49	614.45
18D	620.06	624.06	626.79	219429.4517	2581340.6307	10.66	616.13	10.71	616.08	10.73	616.06	10.75	616.04
19*	617.40	622.96	622.42	219619.8151	2581337.8798	6.47	615.95	6.5	615.92	6.52	615.90	6.47	615.95
20	621.03	625.23	624.85	219245.2290	2581575.2300	10.39	614.46	10.38	614.47	10.41	614.44	10.42	614.43
21*	619.56	624.64	626.09	219984.4351	2581262.5960	10.82	615.27	10.83	615.26	10.84	615.25	10.82	615.27
21A*	619.56	623.66	626.09	219705.0037	2581237.9993	10.38	615.71	10.41	615.68	10.42	615.67	10.41	615.68
25*	618.98	625.65	628.70	220024.1017	2581440.4424	13.32	615.38	13.35	615.35	13.36	615.34	13.34	615.36
43	620.01	623.51	626.42			10.48	615.94	10.51	615.91	10.52	615.90	10.48	615.94
S-1	?	623.47	625.00			8.89	616.11	11.51	613.49	11.65	613.35	11.59	613.41
S-2	?	623.14	626.10			9.87	616.23	9.96	616.14	10.02	616.08	10.03	616.07
S-3	?	617.95	621.98			5.81	616.17	5.82	616.16	5.84	616.14	5.87	616.11
OW-1	?	617.95	620.83			4.71	616.12	4.7	616.13	4.73	616.10	4.75	616.08
OW-2	?	618.48	623.26			7.05	616.21	7.06	616.20	7.1	616.16	7.12	616.14

NOTE: * = Ground surface and riser elevations resurveyed by Triad Engineering, Inc. on 3-7-91

WATER LEVEL DATA

PROJECT: Chrysler Main Plant Kenosha, WI

WELL #	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
	DEPTH	ELEV.	DEPTH	ELEV.	DEPTH	ELEV.	DEPTH	ELEV.	DEPTH	ELEV.	DEPTH	ELEV.
	6/29/92 (ft.)	6/29/92 (MSL,ft.)	6/30/92 (ft.)	6/30/92 (MSL,ft.)	7/01/92 (ft.)	7/01/92 (MSL,ft.)	7/02/92 (ft.)	7/02/92 (MSL,ft.)	7/06/92 (ft.)	7/06/92 (MSL,ft.)		
13A	12.12	615.13	12.13	615.12	12.15	615.10	12.17	615.08	12.21	615.04		
14	6.56	615.78	6.60	615.74	6.64	615.70	6.66	615.68	6.73	615.61		
15	10.92	613.39	10.93	613.38	10.95	613.36	10.96	613.35	11.10	613.21		
16	6.49	615.95	6.51	615.93	6.54	615.90	6.55	615.89	6.58	615.86		
16A	10.12	616.05	10.13	616.04	10.14	616.03	10.17	616.00	10.11	616.06		
17	7.32	615.47	7.38	615.41	7.39	615.40	7.42	615.37	7.39	615.40		
18	9.11	614.98	9.12	614.97	9.14	614.95	9.14	614.95	9.17	614.92		
18A	13.61	614.97	13.63	614.95	13.64	614.94	13.65	614.93	13.69	614.89		
18B	11.74	616.19	11.76	616.17	11.77	616.16	11.78	616.15	11.81	616.12		
18C	13.53	614.41	13.53	614.41	13.55	614.39	13.56	614.38	13.59	614.35		
18D	10.77	616.02	10.77	616.02	10.79	616.00	10.81	615.98	11.84	614.95		
19*	6.51	615.91	6.52	615.90	6.53	615.89	6.53	615.89	6.49	615.93		
20	10.45	614.40	10.57	614.28	10.46	614.39	10.54	614.31	10.55	614.30		
21*	10.84	615.25	10.85	615.24	10.86	615.23	10.87	615.22	10.83	615.26		
21A*	10.42	615.67	10.42	615.67	10.43	615.66	10.44	615.65	10.42	615.67		
25*	13.37	615.33	13.37	615.33	13.39	615.31	13.40	615.30	13.26	615.44		
43	10.53	615.89	10.54	615.88	10.56	615.86	10.56	615.86	10.38	616.04		
S-1	11.59	613.41	11.82	613.18	11.50	613.50	11.67	613.33	11.58	613.42		
S-2	10.15	615.95	10.20	615.90	10.24	615.86	10.27	615.83	10.37	615.73		
S-3	5.93	616.05	7.44	614.54	7.46	614.52	7.51	614.47	7.46	614.52		
OW-1	4.82	616.01	5.18	615.65	5.22	615.61	5.18	615.65	5.23	615.60		
OW-2	7.18	616.08	7.81	615.45	7.78	615.48	7.75	615.51	7.7	615.56		