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KENOSHA Co.



Chrysler Corporation
Chrysler Center

June 2, 1994

Ms. Pamela A. Mylotta, Hydrogeologist
Environmental Repair Program
State of Wisconsin Department of Natural Resources
4041 North Richards Street
Milwaukee, WI 53212

**RE: Soil Remedial Action Work Plan
Former UST #11, 12, 13 and AST #19 Area, Site MP-8
Chrysler Corporation, Kenosha Main Plant**

Dear Ms. Mylotta:

Attached please find the referenced work plan for your review/approval. I trust this information meets your needs. If you have any questions or comments, please call.

Sincerely,

A handwritten signature in blue ink that reads "Gregory M. Rose".

Gregory M. Rose
Environmental and Energy Affairs

RJB:klb



COPY

June 2, 1994

Mr. Gregory M. Rose
Deactivation Environmental Specialist
Energy and Environmental Affairs
Chrysler Corporation, Featherstone Road Engineering Center
2301 Featherstone Road, CIMS 429-02-04
Auburn Hills, Michigan 48326

**RE: Soil Remedial Action Work Plan
Former UST #11, 12, 13 and AST #19 Area, Site MP-8
Chrysler Corporation, Kenosha Main Plant
Triad Engineering Project No. W943163**

Dear Mr. Rose:

The proposed Soil Remedial Action Work Plan for the referenced area at the Chrysler Corporation, Kenosha Main Plant is presented herein. Our approach consists of both in-situ and ex-situ bioremediation of soils primarily containing diesel range organic (DRO) compounds and low levels of gasoline range organic (GRO) compounds. Based on a June 1, 1994 telephone conversation with Mr. George M. Mickelson P.E., CPG, Remedial Action Engineer for the LUST Program, Wisconsin Department of Natural Resources (WDNR), Mr. Mickelson concurs with our approach from a technical and engineering standpoint provided the action is in compliance with Chapter NR 718, Wisconsin Administrative Code (NR 718) requirements. The proposed approach appears to be in compliance with NR 718. Site background information and the proposed remedial action approach is described in the following sections.

I. BACKGROUND

As documented in previous reports submitted to the WDNR, three 60,000-gallon heating oil underground storage tanks (USTs #11, 12, and 13) and an aboveground storage tank (AST #19) used to store soluble oil were previously located east of former building 9 and south of former building 52 (Figure 1). The USTs were contained in a former concrete coal bin and an aggregate placed over them to provide structural support as well as a safety precaution. AST #19 was housed in a cinder block containment structure. The USTs and AST have been closed in accordance with state regulations and guidelines.

Release to site soils and groundwater was observed during initial investigations in the area. A groundwater recovery trench (Sump 2, Observation Sump) was installed in the area to facilitate recovery of free-phase product and groundwater. The recovery system continues to provide hydraulic control and recovery of product and groundwater in the release area.

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Mr. Gregory M. Rose
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Subsequent to removal of USTs #11, 12, and 13, coarse gravel was removed from the former coal bin structure and the concrete base removed. Approximately 100 yards of product-stained soils were removed and stockpiled on and covered with visqueen at the site. These soils will be disposed at an approved landfill. Per WDNR approval, a collection sump (Sump 17) was installed in the excavation to facilitate product/groundwater recovery and the coarse gravel placed back in the excavation. A surface depression is currently present at this location.

Based on investigation and remedial action in the area, the apparent extent of release to soil and groundwater has been assessed. A summary of site analytical and characterization data is provided in Attachment A. In addition, soil sample results for soils remaining in place at the base of the former coal bin and gravel placed back into the excavation is also attached. These results have not previously been submitted to WDNR. Based on the analytical results, DRO and several GRO compounds occur in site soils above Draft Chapter NR 720 Administrative Code standards. The extent of release to soils is depicted on Figure 1. In general, release to soils has been confined to the former coal bin area and up to the Building 52 foundation. It should be noted that as of June 1, 1994 free phase product recovery has reduced to de minimus levels and less than 0.01 foot of product could be measured in Sumps 2 and 17. No product was observed in the observation sump.

II. REMEDIAL ACTION APPROACH

In-situ and ex-situ bioremediation techniques will be used to treat soils in this area. In addition to soils remaining in place at the site, stockpiled soils, generated during the installation of a storm sewer in a separate area located to the west of the treatment site and containing similar petroleum compounds, will be transferred to the former coal bin area, for combined remediation. Analytical results for these soils are contained in Attachment B. The surface depression at the former coal bin area will provide proper confinement to the soils to be transferred to that location. The existing groundwater recovery trench and sump system, should provide effective hydraulic control at the site, thereby reducing the potential for any off-site migration during the bioremediation process.

A. Bioremediation Process.

The ultimate goal of bioremediation (biodegradation) at the site is to convert petroleum organic compounds into biomass and harmless byproducts of microbial metabolism such as CO₂, CH₄ and inorganic salts. Microorganisms (principally bacteria and fungi) make up the most significant group of organisms involved in biodegradation, and soil environments contain a diverse microbial population.



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B. System Design.

Pre-design Activities.

In order to optimize the biodegradation potential at the site, the following sampling and analysis shall be conducted.

Former Coal Bin Area:
(In-Situ)

Approximately 12 soil samples (8 samples inside the release area and 4 samples outside the release area) and 4 groundwater samples (2 samples inside the release area and 2 samples outside the release area), shall be collected. Two soil samples shall be collected from each of six soil borings, one within the unsaturated region and the second within the saturated region. Groundwater samples will be collected from the groundwater recovery system located within the release area and two site monitoring wells located outside the release area. This type of sampling and analysis will facilitate a comparative evaluation of the site in terms of its biodegradability.

Stockpiled Soil:
(Ex-Situ)

Approximately four composite soil samples shall be collected from the stockpiled soils for biodegradation evaluation.

All applicable WDNR regulations and guidelines shall be followed during the sample collection process.

The collected samples shall be shipped under chain-of-custody to a bioevaluation laboratory for testing and evaluation. Analyses to be conducted on the samples and their significance, are given in Table 1.



Table 1
Predesign Analytical Requirements

No.	Test	Significance
1	Comparative Enumeration Analysis	Will give an idea on the availability of indigenous microorganisms in terms of total microbial population and total hydrocarbon degrader population.
2	Metal Analysis	Will indicate the presence or absence of metals that may be inhibitory to biological activity.
3	Nutrient Analysis (both macro and micro)	Will indicate the amount of available nutrients and any deficiencies at the site. Will help in deciding whether any nutrient additions are required to sustain biological activity. Also, calculated values of C:N:P ratios will help in optimizing the bioremediation potential at the site.
4	Dissolved Oxygen (DO)	Will indicate the O ₂ availability at the site and help in designing O ₂ supply system, if required.
5	Porosity of Soils	An indirect indicator of O ₂ availability in unsaturated soils. Helps in deciding whether air and other amendments can be supplied to the subsurface.
6	Other Parameters (pH, redox potential, particle size distribution, temperature, etc.)	Helps in optimizing the biodegradation potential at the site.

Note: Dissolved oxygen, pH, temperature and redox potential tests will be conducted in the Field.

Field tests required to complete design of the system will also be conducted. The tests are described in Table 2.

Table 2
Predesign Field Evaluation

No.	Test	Significance
1	Percolation Test	Helps in designing infiltration galleries, for the supply of O ₂ , nutrients or microorganisms to the subsurface.
2	Air Extraction/Air Sparging Test	This is needed only when air extraction or air sparging techniques will be used to supply air (O ₂) to the sub surface.



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Design Activities.

Based on the results of the predesign tests the appropriate system will be designed to optimize biodegradation at the site. Some or all of the following elements may be needed to remediate site soils.


- An O₂ supply system, which may include air injection, air extraction, hydrogen peroxide infiltration, pure oxygen injection or a combination of these techniques.
- A nutrient supply system to amend the soils with any deficient nutrients.
- A pH adjustment system to maintain the pH at an optimum level and sustain the biological activity at its peak.

A report documenting the results of the above evaluations (including chain-of-custody forms and lab analysis reports) and a detailed design of the recommended bioremediation system shall be submitted to the WDNR, before operation of the system. The Operation and Maintenance Plan (O&M Plan) along with a Performance Monitoring Plan (showing sampling locations, parameters and frequencies) shall be included in the final report.


We trust this information meets your needs. If you have any questions or comments, please do not hesitate to call.

Sincerely,

TRIAD ENGINEERING INC.


Richard J. Binder, PG
Project Manager

TRIAD ENGINEERING INC.


for Thomas C. Bachman, P.E.
Project Engineer

RJB:klb

W943163\W943163.002\943163-B

cc: John P. Bugno, Chrysler/Kenosha Main Plant
Veer R. Karri, Triad
Valerie A. Jansen, Triad

TE

FIGURE

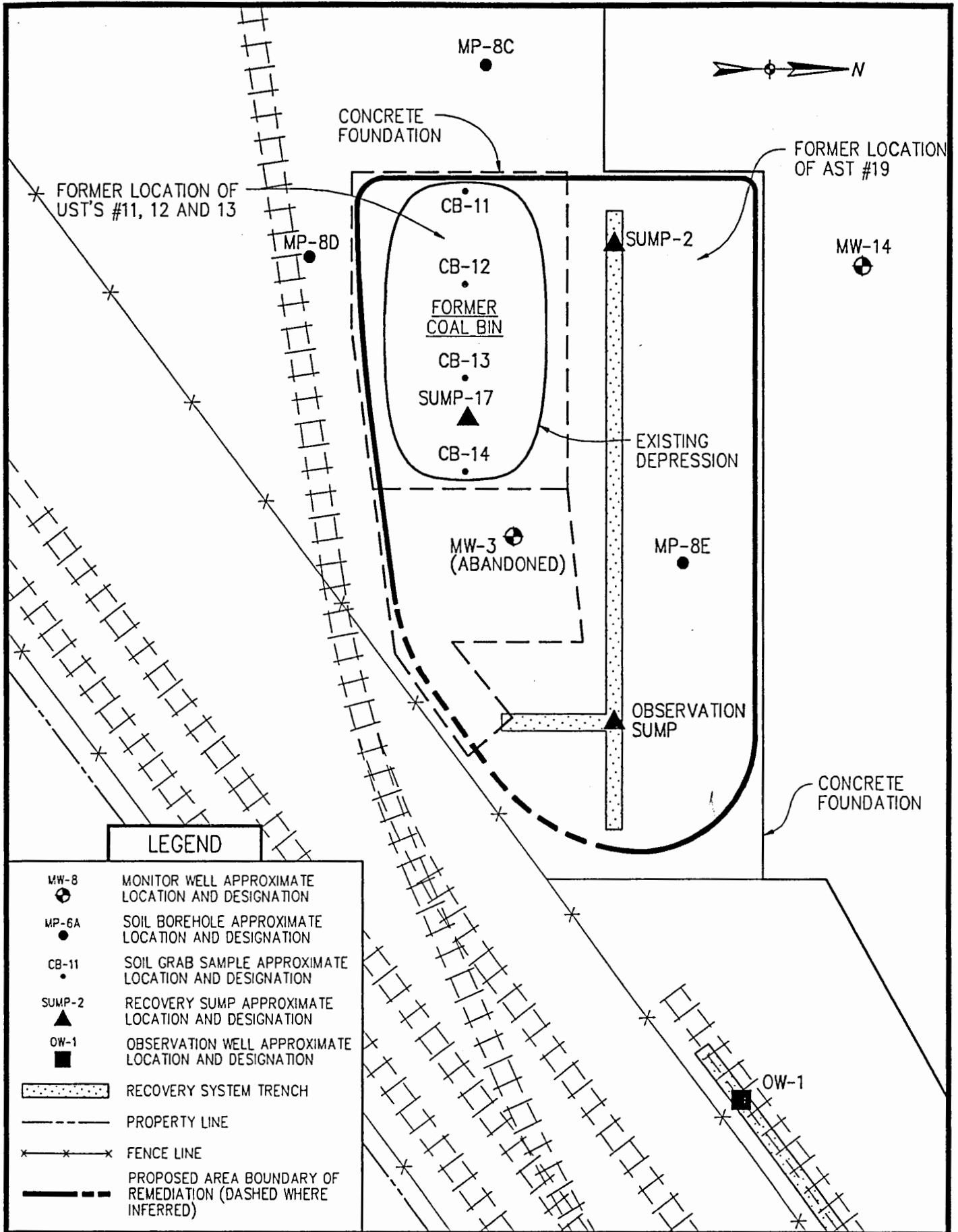


FIGURE 1
CHRYSLER KENOSHA MAIN PLANT
FORMER UST'S 11, 12, 13
AND AST 19 AREA

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ATTACHMENT A
SITE ANALYTICAL AND CHARACTERIZATION DATA

<u>ANALYTE</u>	<u>DETECTION LIMIT</u>	<u>CB-11^a</u>	<u>CB-12^b</u>	<u>CB-13</u>	<u>CB-14^c</u>	<u>CB-GRAVEL</u>
Volatile Organic Compounds (VOCs) [*]						
m-Butylbenzene	0.02	<0.2	2.53	<0.02	2.0	0.13
sec-Butylbenzene	0.04	<0.4	25.5 ^e	<0.04	<0.04	0.04
tert-Butylbenzene	0.02	<0.2	<0.4	<0.02	0.4	<0.02
Ethylbenzene	0.02	<0.2	1.3	<0.02	0.5	0.10
Isopropylbenzene	0.02	<0.2	4.4 ^e	<0.02	<0.2	<0.02
p-Isopropyltoluene	0.02	0.2	4.0 ^e	<0.02	3.3	0.07
Methylene Chloride	0.05	<0.5	<1.0	0.40	<0.5	0.84 ^f
Naphthalene	0.03	0.3	20.0 ^e	<0.03	2.8	0.10
n-Propylbenzene	0.03	<0.3	5.7	<0.03	0.3	0.04
Toluene	0.02	0.4	<0.4	<0.02	0.5	0.56 ^f
Trichlorofluoromethane	0.02	<0.2	<0.4	<0.02	<0.2	<0.02
1,2,4-Trimethylbenzene	0.04	<0.4	2.4	<0.04	1.0	<0.04
1,3,5-Trimethylbenzene	0.02	<0.2	17.5	<0.02	<0.2	<0.02
o-Xylenes	0.02	<0.2	6.4	<0.02	0.3	0.06
m&p Xylenes	0.02	<0.2	15.9	<0.02	<0.2	<0.02
TOTAL VOCs	---	0.6	85.6	0.4	8.3	1.8
DRO ^{**}	10	45 ^d	14,600 ^a	857	256	5,930

Concentrations are in mg/kg (ppm)

^{*} EPA Method #8021.

^{**} WDNR Modified DRO.

^a Elevated detection limits due to high analyte concentration; a 10X dilution necessary.

^b Elevated detection limits due to high analyte concentration; a 20X dilution necessary.

^c Elevated detection limits due to high analyte concentration; a 200X dilution necessary.

^d Baseline Raised, outside DRO window.

^e Elevated detection limits due to high analyte concentration; a 110X dilution necessary.

^f Elevated detection limits due to high analyte concentration; a 11X dilution necessary.

Table 4-9. Summary of Detected Constituents in Soil Samples, Site MP-8

Parameter	Phase I						Phase II				
	MP-8A B8450*		MP-8B B8450*		MW-3 B0450*		MP-8C B9833*	MP-8D B9833*	MP-8E B9833	MP-8G B0115*	
	0-5'	5-10'	0-5'	5-10'	0-5'	5-10'	4-6'	1-3'	2-4'	1-2'	4-5'
Metals (soluble)											
Cadmium (0.5)	1.0	0.9	1.3	3.7	4.7	1.3	NA	NA	NA	ND	ND
Chromium (1)	15	8	7	22	17	9	NA	NA	NA	18	11
Lead (2)	16	9	11	23	60	17	NA	NA	NA	57	27
Nickel (1)	11	6	7	18	18	13	NA	NA	NA	27	15
Zinc (1)	43	41	41	53	116	73	NA	NA	NA	86	41
Base/Neutral Extractables (BNAs)											
Acenaphthene (1)	ND	ND	ND	ND	ND	1	NA	NA	NA	ND	ND
Anthracene (1)	ND	ND	ND	ND	4	ND	NA	NA	NA	ND	ND
Benzo(a)anthracene (1)	ND	ND	ND	ND	3	ND	NA	NA	NA	ND	ND
Benzo(b)fluoranthene (1)	ND	ND	ND	ND	9	ND	NA	NA	NA	ND	ND
Benzo(k)fluoranthene (1)	ND	ND	ND	ND	7	ND	NA	NA	NA	ND	ND
Benzo(a)pyrene (1)	ND	ND	ND	ND	8	ND	NA	NA	NA	ND	ND
Bis(2-ethylhexyl)phthalate (1)	ND	ND	ND	ND	8	ND	NA	NA	NA	4	2
Chrysene (1)	ND	ND	ND	ND	11	ND	NA	NA	NA	ND	ND
Di-n-butylphthalate	ND	ND	ND	ND	1	ND	NA	NA	NA	ND	ND
1,2-Dichlorobenzene (1)	ND	ND	ND	ND	1	1	NA	NA	NA	ND	ND
1,4-Dichlorobenzene (1)	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND
Fluoranthene (1)	ND	ND	ND	ND	15	ND	NA	NA	NA	ND	ND
Fluorene (1)	ND	ND	ND	ND	5	ND	NA	NA	NA	13	ND
Naphthalene (1)	ND	ND	ND	ND	11	5	NA	NA	NA	8	ND
Phenanthrene (1)	ND	ND	ND	ND	29	10	NA	NA	NA	35	ND
Pyrene (1)	ND	ND	ND	ND	ND	ND	NA	NA	NA	5	ND
Total BNAs	ND	ND	ND	ND	112	17	NA	NA	NA	65	2
Volatile Organic Compounds (VOCs)											
Benzene (0.05)	ND	ND	ND	ND	ND	0.28	ND	ND	ND	ND	ND
Bromodichloromethane (0.05)	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND
Bromoform (0.05)	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND
Carbon Tetrachloride (0.05)	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND
Chloroform (0.05)	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND
1,1-Dichloroethane (0.05)	ND	ND	ND	0.12	ND	ND	NA	NA	NA	ND	ND
1,1-Dichloroethene (0.05)	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND
Trans-1,2-Dichloroethene (0.05)	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND
Trans-1,3-Dichloroethene (0.05)	ND	ND	ND	0.05	ND	ND	NA	NA	NA	ND	ND
1,2-Dichloropropane (0.05)	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND
Cis-1,3-Dichloropropene (0.05)	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND
Ethylbenzene (0.05)	ND	0.09	ND	ND	0.07	3.15	ND	ND	0.37	0.05	0.39
Methylene Chloride (0.05)	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND
Toluene (0.05)	ND	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (0.05)	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND
Trichloroethene (0.05)	ND	ND	ND	2.51	ND	ND	NA	NA	NA	ND	ND
Vinyl Chloride (0.05)	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND
Xylenes (0.05)	ND	0.83	ND	ND	0.49	16.44	ND	ND	0.89	0.54	0.33
Total BETX	ND	0.97	ND	ND	0.56	19.87	ND	ND	1.26	0.59	0.72
Total VOCs	ND	0.97	ND	2.48	0.56	19.87	ND	ND	1.26	0.59	0.72
Oil and Grease (20)	7660	1950	90	810	7910	2240	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (TPHs) (5)	NA	NA	NA	NA	NA	NA	ND	ND	406	253	348
PCBs (0.5)	7.0	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND

NOTE: All values in milligrams per kilogram (mg/kg)
 () = Detection Limit (mg/kg)
 ND = Not Detected
 NA = Not Analyzed
 * = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AIHA Accreditation #352, WDNR Certification #2681870, Appendix C.
 + = Located at Site MP-9.
 Borehole locations are depicted on Figure 4-8.

Table 4-10. Summary of Detected Constituents in Ground Water Samples, Site NP-8

Parameter	MU-3 Phase I 80451* (4/1/90)	MU-3 Phase II 80337* (1/20/90)	MU-18 Phase II 80270* (1/23/90)	MU-18 Phase III 81235* (5/14/90)	MU-18A Phase III 81231* (5/09/90)	MU-18B Phase III 81335* (5/09/90)	MU-18C Phase III 81235* (5/09/90)	MU-18D Phase III 81235* (5/09/90)	MU-18E (Dup. MU-18D) 81235*	MU-19 Phase II 80270* (1/13/90)	MU-32 (Dup. MU-19) 80270*	MU-19 Phase III 81239* (5/14/90)	MU-20 Phase III 80270* (1/23/90)	MU-20 Phase III 81235* (5/09/90)	MU-21* Phase III 81239* (5/14/90)	NR 100**	
	Enforcement Standard	PAL															
Metals																	
Cadmium (total)(0.0002)	0.008	0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium (total)(0.001)	0.1	0.022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cyanides (total)(0.005)	0.008	NA	NA	0.020	ND	ND	0.008	ND	ND	ND	ND	ND	0.017	0.009	ND	ND	
Lead (total)(0.02)	0.14	0.043	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel (total)(0.02)	0.13	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc (total)(0.005)	0.94	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Essential/Trace Elements																	
Cadmium (soluble)(0.0002)	NA	0.0002	NA	NA	ND	ND	ND	0.003	ND	ND	ND	NA	ND	NA	ND	NA	0.010
Chromium (soluble)(0.001)	NA	0.001	NA	NA	0.001	0.001	0.001	0.001	0.001	0.002	0.001	NA	0.001	NA	0.003	NA	0.050
Cyanides (soluble)(0.005)	NA	NA	NA	0.007	NA	NA	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA	0.200
Lead (soluble)(0.02)	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	0.050
Nickel (soluble)(0.02)	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	***
Zinc (soluble)(0.005)	NA	0.03	NA	NA	ND	ND	ND	ND	ND	0.02	0.02	NA	0.02	NA	ND	ND	3.0
Ess/Neutral/Acid Extraction (ENAs)																	
Naphthalene (0.010)	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	0.027	NA	ND	NA	***
Phenols (0.005)	0.049	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	0.094	NA	ND	NA	***
Total ENAs	0.049	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	0.121	NA	ND	NA	***
Volatiles Organic Compounds (VOCs)																	
Acetone (0.050)	ND	ND	NA	ND	ND	ND	0.094	0.061	ND	ND	ND	ND	ND	ND	ND	ND	***
Carbon Tetrachloride (0.001)	ND	ND	NA	ND	ND	0.001	ND	0.003	ND	ND	ND	ND	ND	ND	ND	ND	0.005
Chloroethane (0.001)	ND	ND	NA	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	ND	ND	***
Chloroform (0.001)	ND	ND	NA	ND	0.001	0.001	ND	0.004	0.004	0.049	0.058	ND	0.013	ND	ND	ND	***
1,2-Dichlorobenzene (0.001)	ND	ND	NA	ND	0.001	ND	ND	0.004	0.004	ND	ND	ND	ND	0.070	0.002	ND	0.006
1,3-Dichlorobenzene (0.001)	ND	ND	NA	ND	0.001	ND	ND	0.003	ND	ND	ND	ND	ND	ND	ND	ND	1.250
1,4-Dichlorobenzene (0.001)	ND	ND	NA	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	1.250
1,1-Dichloroethane (0.001)	ND	ND	NA	0.010	ND	ND	0.038	ND	ND	ND	ND	0.013	0.051	0.127	ND	ND	0.075
1,2-Dichloroethane (0.001)	ND	ND	NA	0.002	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	ND	0.850
1,1-Dichloroethene (0.001)	ND	ND	NA	0.001	ND	ND	0.010	0.001	ND	ND	ND	ND	ND	ND	ND	ND	0.005
Trans-1,2-Dichloroethene (0.001)	ND	ND	NA	0.129	ND	ND	0.068	0.003	ND	ND	ND	ND	ND	ND	ND	ND	0.007
Cis-1,3-Dichloropropene (0.001)	ND	ND	NA	ND	ND	ND	0.002	0.003	ND	ND	ND	ND	ND	ND	ND	ND	0.100
Ethylbenzene (0.001)	ND	0.109	ND	ND	ND	ND	ND	0.005	0.002	ND	ND	ND	ND	ND	ND	ND	1.340
Methylene Chloride (0.001)	ND	ND	NA	0.003	0.001	0.001	0.001	0.005	0.004	ND	ND	0.007	ND	0.004	0.004	ND	0.150
Tetrachloroethene (0.001)	ND	ND	NA	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND	0.001
Toluene (0.001)	ND	ND	NA	ND	ND	ND	ND	0.002	0.002	0.002	ND	ND	ND	ND	0.072	ND	0.343
1,1,1-Trichloroethane (0.001)	ND	ND	NA	ND	0.001	0.001	ND	0.004	0.004	ND	ND	ND	0.016	0.072	0.003	ND	0.200
Trichloroethene (0.001)	ND	ND	NA	0.900	ND	ND	0.216	0.001	0.002	0.003	0.003	0.021	0.050	0.398	ND	ND	0.040
Vinyl Chloride (0.001)	ND	ND	NA	ND	ND	ND	0.108	ND	ND	ND	ND	ND	0.224	0.398	ND	ND	0.005
Xylenes (0.001)	ND	0.099	ND	ND	0.002	ND	0.001	0.006	0.005	ND	ND	ND	ND	ND	0.312	ND	0.000011
Total BTEX	ND	0.204	ND	ND	0.002	ND	0.001	0.015	0.009	0.002	ND	ND	ND	0.145	ND	ND	***
Total VOCs	ND	0.204	ND	1.045	0.007	0.004	0.534	0.109	0.076	0.054	0.061	0.041	0.306	0.904	0.332	ND	***
Oil and Grease (20)																	
	364	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***
Total Petroleum Hydrocarbons (TPH) (5)																	
	NA	304.2	ND	ND	ND	ND	1.9	0.3	0.3	ND	ND	ND	ND	2.9	ND	ND	***
PCBs (0.3)																	
	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	***

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

() = Detection Limit (mg/l)

ND = Not Detected

NA = Not Analyzed

PAL = Preventative Action Limit

*** = Laboratory Report Number; analyses by Swanon Environmental, Inc., Brookfield, WI, AIMA Accreditation #352, NWEH Certification #2681870, Appendix C.

Per Chapter NR10 of the Wisconsin Administrative Code

ND = No standards currently exist

* = Located at Site NP-8.

Borehole locations are depicted on Figure 4-8.

Table 4-8. Summary of Detected Constituents in Ground-Water Samples, Site MP-7

Parameter	MP-71 ^a Phase II 89828 ^a (12/01/89)	MP-7J ^a Phase II 89828 ^a (12/01/89)	MP-7K ^a Phase II 89828 ^a (12/01/89)	MP-7N ^a Phase II 89828 ^a (12/01/89)	MP-7O ^a Phase II 89828 ^a (12/01/89)	MP-7P ^a Phase II 80115 ^a (12/19/89)	MP-7Q ^a Phase II 89833 ^a (12/13/89)	MP-7R ^a Phase II 89765 ^a (12/11/89)	MP-7S ^a Phase II 89833 ^a (12/13/89)	MP-7Z ^a (Dup. MP-7S ^a) 89833 ^a	MV-13 Phase II 80041 ^a (12/28/89)	MV-13A Phase III 81239 ^a (5/14/90)	MV-14 Phase II 80041 ^a (12/28/89)	MV-14 Phase III 81235 ^a (5/09/90)	MV-15 Phase II 80041 ^a (12/28/90)	MV-16 Phase II 80041 ^a (12/28/89)	MV-16(A) (Dup. MV-16) 80041 ^a
Metals																	
Cyanides (total)(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (soluble)(0.0002)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.0002	0.0003
Chromium (soluble)(0.001)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.001	ND
Cyanides (soluble)(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.517	0.083
Zinc (total)(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.03	0.12	ND
Volatile Organic Compounds (VOCs)																	
Benzene (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chloroform (0.001)	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND	ND	0.001
1,1-Dichloroethane (0.001)	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.008	ND	NA	NA	ND	0.008	0.009
1,2-Dichloroethane (0.001)	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND	ND	ND
Trans-1,2-Dichloroethene (0.001)	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND	ND	ND
Ethylbenzene (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND
Methylene Chloride (0.001)	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND	ND	ND
Toluene (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND
Trichloroethene (0.001)	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND	ND	ND
1,1,1-Trichloroethane(0.001)	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND	ND	ND
Xylenes (0.001)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND
Total BETX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND
Total VOCs	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.008	ND	NA	NA	ND	0.008	0.010
Total Petroleum Hydrocarbons (TPH) (5)	ND	ND	ND	ND	ND	ND	ND	0.03	ND	ND	ND	ND	ND	NA	ND	ND	ND

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

() = Detection Limit (mg/l)

ND = Not Detected

NA = Not Analyzed

PAL = Preventative Action Limit

* = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AHA Accreditation #352, MOHR Certification #2681870, Appendix C.

** = Per Chapter NR140 of the Wisconsin Administrative Code

*** = No standards currently exist

^ = Water sampled collected with a Hydro-Punch.

Borehole locations are depicted on Figure 4-4 and 4-5.

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



WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: A3435

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163.002

DATE: April 22, 1994
 PURCHASE ORDER:
 SEI NO: WL9848
 DATE COLLECTED: 03/18/94
 DATE RECEIVED: 03/21/94

Matrix: Soil
 Source: Chrysler - Kenosha

DATE EXTRACTED
 DRO - 03/21/94

Units: mg/kg (ppm)

DATE ANALYZED
 DRO - 03/25/94

DNR #	Analyte	SEI ID	9848-1	9848-2	9848-3	9848-4	9848-5
		Sample ID	<u>CB-11</u>	<u>CB-12</u>	<u>CB-13</u>	<u>CB-14</u>	<u>Soil Pile</u>
		PQL					
WDNR Modified Method DRO							
78919	DRO		45 ^d	14,600 ^e	857	256	3,110 ^f

^d Baseline raised, outside DRO window.

^e Elevated detection limits due to high analyte concentration; a 110x dilution necessary.

^f Elevated detection limits due to high analyte concentration; a 11x dilution necessary.

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 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163.002

DATE: April 22, 1994
 PURCHASE ORDER:
 SEI NO: WL9848
 DATE COLLECTED: 03/18/94
 DATE RECEIVED: 03/21/94
 DATE ANALYZED: 03/29/94

Matrix: Soil
 Source: Chrysler - Kenosha

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID	9848-1 ^a	9848-2 ^b	9848-3
		Sample ID	CB-11	CB-12	CB-13
		PQL			
EPA Method 8021					
78124	Benzene	0.02	<0.2	<0.4	<0.02
81555	Bromobenzene	0.02	<0.2	<0.4	<0.02
77297	Bromochloromethane	0.02	<0.2	<0.4	<0.02
32101	Bromodichloromethane	0.02	<0.2	<0.4	<0.02
32104	Bromoform	0.02	<0.2	<0.4	<0.02
14413	Bromomethane	0.02	<0.2	<0.4	<0.02
77342	n-Butylbenzene	0.02	<0.2	2.53	<0.02
77350	sec-Butylbenzene	0.04	<0.4	25.5 ^c	<0.04
77353	tert-Butylbenzene	0.02	<0.2	<0.4	<0.02
32102	Carbon tetrachloride	0.02	<0.2	<0.4	<0.02
34301	Chlorobenzene	0.02	<0.2	<0.4	<0.02
34306	Chlorodibromomethane	0.02	<0.2	<0.4	<0.02
34311	Chloroethane	0.02	<0.2	<0.4	<0.02
32106	Chloroform	0.02	<0.2	<0.4	<0.02
34418	Chloromethane	0.02	<0.2	<0.4	<0.02
77275	2-Chlorotoluene	0.02	<0.2	<0.4	<0.02
77277	4-Chlorotoluene	0.02	<0.2	<0.4	<0.02
38437	1,2-Dibromo-3-chloropropane	0.02	<0.2	<0.4	<0.02
77651	1,2-Dibromoethane	0.02	<0.2	<0.4	<0.02
77596	Dibromomethane	0.02	<0.2	<0.4	<0.02

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 DATE ANALYZED: 03/29/94

Matrix: Soil
 Source: Chrysler - Kenosha

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID	9848-1 ^a	9848-2 ^b	9848-3
		Sample ID	CB-11	CB-12	CB-13
		<u>PQL</u>			
EPA Method 8021					
34536	1,2-Dichlorobenzene	0.02	<0.2	<0.4	<0.02
34566	1,3-Dichlorobenzene	0.02	<0.2	<0.4	<0.02
34571	1,4-Dichlorobenzene	0.03	<0.3	<0.6	<0.03
34668	Dichlorodifluoromethane	0.02	<0.2	<0.4	<0.02
34496	1,1-Dichloroethane	0.03	<0.3	<0.6	<0.03
32103	1,2-Dichloroethane	0.02	<0.2	<0.4	<0.02
34501	1,1-Dichloroethene	0.02	<0.2	<0.4	<0.02
77093	cis-1,2-Dichloroethene	0.03	<0.3	<0.6	<0.03
34546	trans-1,2-Dichloroethene	0.03	<0.3	<0.6	<0.03
34541	1,2-Dichloropropane	0.02	<0.2	<0.4	<0.02
77173	1,3-Dichloropropane	0.02	<0.2	<0.4	<0.02
77170	2,2-Dichloropropane	0.03	<0.3	<0.6	<0.03
77168	1,1-Dichloropropene	0.02	<0.2	<0.4	<0.02
34704	cis-1,3-Dichloropropene	0.02	<0.2	<0.4	<0.02
34699	trans-1,3-Dichloropropene	0.02	<0.2	<0.4	<0.02
78113	Ethylbenzene	0.02	<0.2	1.3	<0.02
34391	Hexachlorobutadiene	0.03	<0.3	<0.6	<0.03
77223	Isopropylbenzene	0.02	<0.2	4.4 ^c	<0.02
77356	p-Isopropyltoluene	0.02	<0.2	4.0 ^c	<0.02
34423	Methylene chloride	0.05	<0.5	<1.0	0.40
34696	Naphthalene	0.03	0.3	20.0 ^c	<0.03

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 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163.002

DATE: April 22, 1994
 PURCHASE ORDER:
 SEI NO: WL9848
 DATE COLLECTED: 03/18/94
 DATE RECEIVED: 03/21/94
 DATE ANALYZED: 03/29/94

Matrix: Soil
 Source: Chrysler - Kenosha

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID Sample ID PQL	9848-1 ^a	9848-2 ^b	9848-3
			CB-11	CB-12	CB-13
EPA Method 8021					
77224	n-Propylbenzene	0.03	<0.3	5.7	<0.03
77128	Styrene	0.03	<0.3	<0.6	<0.03
77562	1,1,1,2-Tetrachloroethane	0.02	<0.2	<0.4	<0.02
34516	1,1,2,2-Tetrachloroethane	0.02	<0.2	<0.4	<0.02
34475	Tetrachloroethene	0.02	<0.2	<0.4	<0.02
78131	Toluene	0.02	0.4	<0.4	<0.02
77613	1,2,3-Trichlorobenzene	0.02	<0.2	<0.4	<0.02
34551	1,2,4-Trichlorobenzene	0.02	<0.2	<0.4	<0.02
34506	1,1,1-Trichloroethane	0.02	<0.2	<0.4	<0.02
34511	1,1,2-Trichloroethane	0.02	<0.2	<0.4	<0.02
39180	Trichloroethene	0.02	<0.2	<0.4	<0.02
34488	Trichlorofluoromethane	0.02	<0.2	<0.4	<0.02
77443	1,2,3-Trichloropropane	0.02	<0.2	<0.4	<0.02
77222	1,2,4-Trimethylbenzene	0.04	<0.4	2.4	<0.04
77226	1,3,5-Trimethylbenzene	0.02	<0.2	17.5	<0.02
39175	Vinyl Chloride	0.02	<0.2	<0.4	<0.02
77135	o-Xylenes	0.02	<0.2	6.4	<0.02
85795	m & p Xylenes	0.02	<0.2	15.9	<0.02

^a Elevated detection limits due to high analyte concentration; a 10x dilution necessary.

^b Elevated detection limits due to high analyte concentration; a 20x dilution necessary.

^c Elevated detection limits due to high analyte concentration; a 200x dilution necessary.

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 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163.002

DATE: April 22, 1994
 PURCHASE ORDER:
 SEI NO: WL9848
 DATE COLLECTED: 03/18/94
 DATE RECEIVED: 03/21/94
 DATE ANALYZED: 03/29/94

Matrix: Soil
 Source: Chrysler - Kenosha

Units: mg/kg (ppm)

<u>DNR #</u>	<u>Analyte</u>	<u>SEI ID</u>	<u>9848-4a</u>	<u>9848-5a</u>
		<u>Sample ID</u>	<u>CB-14</u>	<u>Soil Pile</u>
		<u>PQL</u>		
EPA Method 8021				
78124	Benzene	0.02	<0.2	<0.2
81555	Bromobenzene	0.02	<0.2	<0.2
77297	Bromochloromethane	0.02	<0.2	<0.2
32101	Bromodichloromethane	0.02	<0.2	<0.2
32104	Bromoform	0.02	<0.2	<0.2
14413	Bromomethane	0.02	<0.2	<0.2
77342	n-Butylbenzene	0.02	2.0	4.7
77350	sec-Butylbenzene	0.04	<0.4	1.6
77353	tert-Butylbenzene	0.02	0.4	<0.2
32102	Carbon tetrachloride	0.02	<0.2	<0.2
34301	Chlorobenzene	0.02	<0.2	<0.2
34306	Chlorodibromomethane	0.02	<0.2	<0.2
34311	Chloroethane	0.02	<0.2	<0.2
32106	Chloroform	0.02	<0.2	<0.2
34418	Chloromethane	0.02	<0.2	<0.2
77275	2-Chlorotoluene	0.02	<0.2	<0.2
77277	4-Chlorotoluene	0.02	<0.2	<0.2
38437	1,2-Dibromo-3-chloropropane	0.02	<0.2	<0.2
77651	1,2-Dibromoethane	0.02	<0.2	<0.2
77596	Dibromomethane	0.02	<0.2	<0.2

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ANALYTICAL REPORT

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Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163.002

DATE: April 22, 1994
 PURCHASE ORDER:
 SEI NO: WL9848
 DATE COLLECTED: 03/18/94
 DATE RECEIVED: 03/21/94
 DATE ANALYZED: 03/29/94

Matrix: Soil
 Source: Chrysler - Kenosha

Units: mg/kg (ppm)

DNR #	Analyte	PQL	SEI ID	9848-4 ^a	9848-5 ^a
			Sample ID	CB-14	Soil Pile
EPA Method 8021					
34536	1,2-Dichlorobenzene	0.02		<0.2	<0.2
34566	1,3-Dichlorobenzene	0.02		<0.2	<0.2
34571	1,4-Dichlorobenzene	0.03		<0.3	<0.3
34668	Dichlorodifluoromethane	0.02		<0.2	<0.2
34496	1,1-Dichloroethane	0.03		<0.3	<0.3
32103	1,2-Dichloroethane	0.02		<0.2	<0.2
34501	1,1-Dichloroethene	0.02		<0.2	<0.2
77093	cis-1,2-Dichloroethene	0.03		<0.3	<0.3
34546	trans-1,2-Dichloroethene	0.03		<0.3	<0.3
34541	1,2-Dichloropropane	0.02		<0.2	<0.2
77173	1,3-Dichloropropane	0.02		<0.2	<0.2
77170	2,2-Dichloropropane	0.03		<0.3	<0.3
77168	1,1-Dichloropropene	0.02		<0.2	<0.2
34704	cis-1,3-Dichloropropene	0.02		<0.2	<0.2
34699	trans-1,3-Dichloropropene	0.02		<0.2	<0.2
78113	Ethylbenzene	0.02		0.5	2.0
34391	Hexachlorobutadiene	0.03		<0.3	<0.3
77223	Isopropylbenzene	0.02		<0.2	0.5
77356	p-Isopropyltoluene	0.02		3.3	0.8
34423	Methylene chloride	0.05		<0.5	<0.5
34696	Naphthalene	0.03		2.8	4.7

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Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163.002

DATE: April 22, 1994
 PURCHASE ORDER:
 SEI NO: WL9848
 DATE COLLECTED: 03/18/94
 DATE RECEIVED: 03/21/94
 DATE ANALYZED: 03/29/94

Matrix: Soil
 Source: Chrysler - Kenosha

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID Sample ID PQL	9848-4 ^a	9848-5 ^a
			CB-14	Soil Pile
EPA Method 8021				
77224	n-Propylbenzene	0.03	0.3	4.8
77128	Styrene	0.03	<0.3	<0.3
77562	1,1,1,2-Tetrachloroethane	0.02	<0.2	<0.2
34516	1,1,2,2-Tetrachloroethane	0.02	<0.2	<0.2
34475	Tetrachloroethene	0.02	<0.2	<0.2
78131	Toluene	0.02	0.5	<0.2
77613	1,2,3-Trichlorobenzene	0.02	<0.2	<0.2
34551	1,2,4-Trichlorobenzene	0.02	<0.2	<0.2
34506	1,1,1-Trichloroethane	0.02	<0.2	<0.2
34511	1,1,2-Trichloroethane	0.02	<0.2	<0.2
39180	Trichloroethene	0.02	<0.2	<0.2
34488	Trichlorofluoromethane	0.02	<0.2	0.6
77443	1,2,3-Trichloropropane	0.02	<0.2	<0.2
77222	1,2,4-Trimethylbenzene	0.04	1.0	0.9
77226	1,3,5-Trimethylbenzene	0.02	<0.2	<0.2
39175	Vinyl Chloride	0.02	<0.2	<0.2
77135	o-Xylenes	0.02	0.3	1.1
85795	m & p Xylenes	0.02	<0.2	<0.2

^a Elevated detection limits due to high analyte concentration; a 10x dilution necessary.
^b Elevated detection limits due to high analyte concentration; a 20x dilution necessary.
^c Elevated detection limits due to high analyte concentration; a 200x dilution necessary.

Clark J. Crosby
 Laboratory Manager

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



WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: A3435

Triad Engineering, Inc.
325 East Chicago Street
Milwaukee, WI 53202

Attn: Mr. Rick Binder
Project #W943163.002

DATE: April 22, 1994
PURCHASE ORDER:
SEI NO: WL9848
DATE COLLECTED: 03/18/94
DATE RECEIVED: 03/21/94

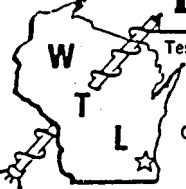
Matrix: Soil
Source: Chrysler - Kenosha

Units: mg/kg (ppm)

<u>Analyte</u>	<u>SEI ID</u> <u>Sample ID</u>	<u>9848-1</u> <u>Base of Coal Bin</u>
Grain Size		See Attached

Wisconsin

TESTING LABORATORIES



Testing and Inspection of:
Soils
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Asphalt
Geotechnical Reports
Soil Borings
Rock Coring

March 31, 1994

Mr. Kurt Goomey
Swanson Environmental, Inc.
3150 North Brookfield Road
Brookfield, Wisconsin 53045

Re: Grain Size Analysis
Soil Sample
Sample No. 9848-6
Purchase Order No. W-04635
(WTL L-9425)

Dear Mr. Goomey:

We are submitting herewith the results of a grain size analysis performed on the referenced sample, which was received at our laboratory on March 22, 1994.

We appreciate the opportunity to be of service to you. If there are any questions, or if we can be of any further assistance, please contact our office.

Very truly yours,

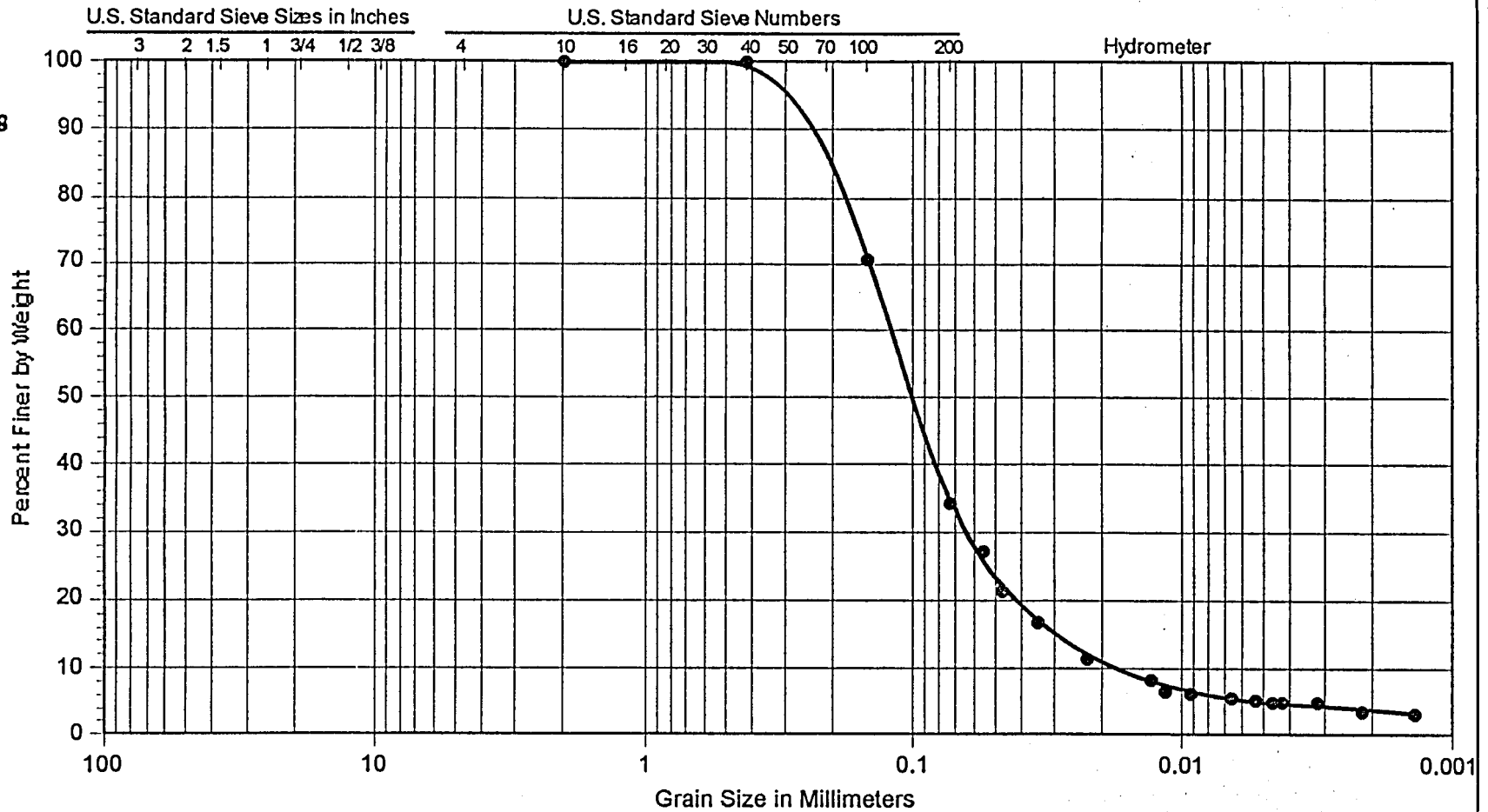
Jeffrey G. Smith, P.E.
Geotechnical Engineer

JGS/jlt

Copies (2) Client



GRAIN SIZE ANALYSIS



Sieve Size	Percent Passing
No. 10	100.0
No. 40	100.0
No. 100	70.7
No. 200	34.3

UNIFIED	GRAVEL	SAND	SILT AND CLAY
AASHTO	GRAVEL	SAND	SILT AND CLAY

NUMBER	DEPTH	w	w _L	w _P	CLASSIFICATION
9848-6					Silty Sand (SM) or Silty, Clayey Sand (SC-SM) or Clayey Sand (SC)

Project: 9848
 WTL Job No.: S-9425
 Client: Swanson Environmental, Inc.
 Date: March 28, 1994



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

WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: A3436

Triad Engineering, Inc.
325 East Chicago Street
Milwaukee, WI 53202

Attn: Mr. Rick Binder
Project #W943163.009

DATE: April 22, 1994
PURCHASE ORDER:
SEI NO: WL9924
DATE COLLECTED: 03/22/94
DATE RECEIVED: 03/24/94

Matrix: Soil
Source: Chrysler

DATE EXTRACTED
DRO - 03/24/94

Units: mg/kg (ppm)

DATE ANALYZED
DRO - 04/06/94

<u>DNR #</u>	<u>Analyte</u>	<u>SEI ID</u> <u>Sample ID</u> <u>PQL</u>	<u>9924-1</u> <u>CB-Gravel</u>
WDNR Modified Method DRO			
78919	DRO	10	5,930

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WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: A3436

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163.009

DATE: April 22, 1994
 PURCHASE ORDER:
 SEI NO: WL9924
 DATE COLLECTED: 03/22/94
 DATE RECEIVED: 03/24/94
 DATE ANALYZED: 04/05/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

<u>DNR #</u>	<u>Analyte</u>	<u>SEI ID</u> <u>Sample ID</u> <u>POL</u>	<u>9924-1</u> <u>CB-Gravel</u>
EPA Method 8021			
78124	Benzene	0.02	<0.02
81555	Bromobenzene	0.02	<0.02
77297	Bromochloromethane	0.02	<0.02
32101	Bromodichloromethane	0.02	<0.02
32104	Bromoform	0.02	<0.02
14413	Bromomethane	0.02	<0.02
77342	n-Butylbenzene	0.02	0.13
77350	sec-Butylbenzene	0.04	0.04
77353	tert-Butylbenzene	0.02	<0.02
32102	Carbon tetrachloride	0.02	<0.02
34301	Chlorobenzene	0.02	<0.02
34306	Chlorodibromomethane	0.02	<0.02
34311	Chloroethane	0.02	<0.02
32106	Chloroform	0.02	<0.02
34418	Chloromethane	0.02	<0.02
77275	2-Chlorotoluene	0.02	<0.02
77277	4-Chlorotoluene	0.02	<0.02
38437	1,2-Dibromo-3-chloropropane	0.02	<0.02
77651	1,2-Dibromoethane	0.02	<0.02
77596	Dibromomethane	0.02	<0.02

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



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DNR #	Analyte	SEI ID	9924-1
		Sample ID	CB-Gravel
		<u>PQL</u>	
EPA Method 8021			
34536	1,2-Dichlorobenzene	0.02	<0.02
34566	1,3-Dichlorobenzene	0.02	<0.02
34571	1,4-Dichlorobenzene	0.03	<0.03
34668	Dichlorodifluoromethane	0.02	<0.02
34496	1,1-Dichloroethane	0.03	<0.03
32103	1,2-Dichloroethane	0.02	<0.02
34501	1,1-Dichloroethene	0.02	<0.02
77093	cis-1,2-Dichloroethene	0.03	<0.03
34546	trans-1,2-Dichloroethene	0.03	<0.03
34541	1,2-Dichloropropane	0.02	<0.02
77173	1,3-Dichloropropane	0.02	<0.02
77170	2,2-Dichloropropane	0.03	<0.03
77168	1,1-Dichloropropene	0.02	<0.02
34704	cis-1,3-Dichloropropene	0.02	<0.02
34699	trans-1,3-Dichloropropene	0.02	<0.02
78113	Ethylbenzene	0.02	0.10
34391	Hexachlorobutadiene	0.03	<0.03
77223	Isopropylbenzene	0.02	<0.02
77356	p-Isopropyltoluene	0.02	0.07
34423	Methylene chloride	0.05	0.84 ^a
34696	Naphthalene	0.03	0.10

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Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

<u>DNR #</u>	<u>Analyte</u>	<u>SEI ID</u> <u>Sample ID</u> <u>PQL</u>	<u>9924-1</u> <u>CB-Gravel</u>
EPA Method 8021			
77224	n-Propylbenzene	0.03	0.04
77128	Styrene	0.03	<0.03
77562	1,1,1,2-Tetrachloroethane	0.02	<0.02
34516	1,1,2,2-Tetrachloroethane	0.02	<0.02
34475	Tetrachloroethene	0.02	<0.02
78131	Toluene	0.02	0.56 ^a
77613	1,2,3-Trichlorobenzene	0.02	<0.02
34551	1,2,4-Trichlorobenzene	0.02	<0.02
34506	1,1,1-Trichloroethane	0.02	<0.02
34511	1,1,2-Trichloroethane	0.02	<0.02
39180	Trichloroethene	0.02	<0.02
34488	Trichlorofluoromethane	0.02	<0.02
77443	1,2,3-Trichloropropane	0.02	<0.02
77222	1,2,4-Trimethylbenzene	0.04	<0.04
77226	1,3,5-Trimethylbenzene	0.02	<0.02
39175	Vinyl Chloride	0.02	<0.02
77135	o-Xylenes	0.02	0.06
85795	m & p Xylenes	0.02	<0.02

^a Elevated detection limits due to high analyte concentration; a 10x dilution necessary.

Clark J. Crosby
 Laboratory Manager

PROJ. NO.		PROJECT NAME					NO. OF CONTAINERS	TEST PARAMETERS										SAMPLE TYPE (Specify groundwater, soil, wastewater, sludge, etc.)				
W943163.009		CHRYSLER						/	/	/	/	/	/	/	/	/	/		/	/	/	/
SAMPLERS: VS, GM																						
SEI #	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION																
	MW-31	3/23/94	1523		X	MW-31 ✓	2	X													GROUNDWATER	
	MW-35B	3/23/94	1342		X	MW-35B ✓	2	X														
	MW-29A	3/22/94	1540		X	MW-29A ✓	2	X														
	MW-38	3/23/94	1345		X	MW-38 ✓	2	X														
	MW-238	3/23/94	1345		X	MW-238 ✓	2	X													↓	
		3/22/94	1625		X	CB-GRAVEL	1		X												SOIL	
		3/22/94	1625		X	CB-GRAVEL	1			X											SOIL	
		3/17/94			*	TRIP BLANK	1	X													GROUNDWATER	

SAMPLE CONDITION: Cyanide Samples were field filtered
VOC Samples preserved with HCl

SAMPLE LOCATION:

RELINQUISHED BY: <i>Theresa Mendenhall</i>	DATE / TIME 3/29/94 7:30	RELINQUISHED BY: <i>Jay J. Holder</i>	DATE / TIME 3/29/94 12:00
RECEIVED BY: <i>Jay J. Holder</i>	DATE / TIME 3/24/94 10:00	RECEIVED BY: <i>Larry E. Barry</i>	DATE / TIME 3/24/94 11:00

SPECIAL REQUESTS:

REPORT TO: RICK BINDER

NAME: TRIAD ENGINEERING

ADDRESS: 325 E. CHICAGO ST.
MILWAUKEE, WI 53202

PHONE: 291-8840 FAX: 291-8841

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



PROJ. NO. W943167.002		PROJECT NAME Chrysler, Kenosha					NO. OF CONTAINERS	TEST PARAMETERS								SAMPLE TYPE (Specify groundwater, soil, wastewater, sludge, etc.)	
SAMPLERS: James Tobin								VOC: 8021 DRO (WORK MODIFIED DRO METHOD) GRAIN SIZE ANALYSIS									
SEI #	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION											
	CB-11	03/18	1200		X	Base of coal bin W. END	2	X	X								SOIL
	CB-12	03/18	1310		X	Base of coal bin W. CENTER	2	X	X								SOIL
	CB-13	03/18	1320		X	Base of coal bin E. CENTER	2	X	X								SOIL
	CB-14	03/18	1330		X	Base of coal bin E. END	2	X	X								SOIL
	CB - SOIL PILE	03/18	1425		X	Stack piled soils from	2	X	X								SOIL
Coal Bin																	
	COAL BIN	03/18			X	Base of Coal bin	5			X							SOIL

SAMPLE CONDITION:

SAMPLE LOCATION:

RELINQUISHED BY: <i>James Tobin</i>	DATE / TIME 03/21/94	RELINQUISHED BY:	DATE / TIME
RECEIVED BY: <i>R. J. Thompson</i>	DATE / TIME 3/21/94	RECEIVED BY:	DATE / TIME

SPECIAL REQUESTS:

REPORT TO:

NAME:

ADDRESS:

PHONE:



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

CHAIN OF CUSTODY RECORD

PROJ. NO. W7431E3 .003		PROJECT NAME CHRYSLER					NO. OF CONTAINERS	TEST PARAMETERS										SAMPLE TYPE (Specify groundwater, soil, wastewater, sludge, etc.)			
SAMPLERS: 3PT 3PT								DRY WEIGHT ANALYSIS													
SEI #	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION															
	TP-1	3/14/94	1240		X	2.5'	1	X													SOIL
	TP-1	3/14/94	1243		X	4.5'	1	X													
	PIPE RUN	3/14/94	1315		X	2.0'	1	X													
	TP-2	3/14/94	1305		X	3.0'	1	X													
	TP-2	3/14/94	1325		X	5.0'	1	X													
	TP-3	3/14/94	1405		X	2.5'	1	X													
	TP-3	3/14/94	1410		X	5.0'	1	X													↓

SAMPLE CONDITION:

SAMPLE LOCATION:

RELINQUISHED BY: <i>[Signature]</i>	DATE / TIME 3/30/94 11:16	RELINQUISHED BY:	DATE / TIME
RECEIVED BY: <i>[Signature]</i>	DATE / TIME 3/30 11:35	RECEIVED BY:	DATE / TIME

SPECIAL REQUESTS:

REPORT TO:

NAME:

ADDRESS:

PHONE:



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

SWANSON ENVIRONMENTAL INC.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Chrysler Corp., Site #8 Bldgs. 4, 7B, 9, 17A, 17C, and 58		DRILLING METHOD: 8 in. O.D. HSA		BORING NO. MP-8C	
		SAMPLE METHOD: 2 in. x 2 ft. continuous split-spoon sampling		SHEET 1 OF 1	
		WATER LEVEL TIME DATE		DRILLING START TIME 1000 FINISH TIME 1030	
DATUM: msl		ELEVATION:		DATE 12/14/89	
DRILL RIG: Diedrich D-50		SURFACE CONDITIONS: 0.5 ft. concrete/0.5 ft. sand and gravel			
ANGLE: Vertical		BEARING ---		DATE 12/14/89	
SAMPLE HAMMER TORQUE 140#/30 in. drop		FT.-LBS		DATE 12/14/89	

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS								
							WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPEC. GRAVITY	OTHER TESTS	PID (ppm)			
		F	0.0 - 0.5: CONCRETE (Fill)												
2	13.5 5.3 (65%)	SP/SC	0.5 - 1.0: SAND and GRAVEL (Fill)	SS #1									<1		
4	1.2 3.2 (50%)	CL	1.0 - 2.0: CLAYEY SAND, some coarse-grained sand to fine-grained subangular to subrounded gravel, dark yellowish-brown (10YR 4/4), loose to medium dense, no odor, moist (SP/SC)	SS #2									<1		
6	1.5 8.9 (100%)	SW	2.0 - 5.0: SILTY CLAY, very dark gray (10YR 3/1), medium stiff, no odor, stiff (CL)	SS #3									<1		
8			5.0 - EOB: SILTY CLAY, very fine-grained, some clay, dark yellowish-brown (10YR 4/6), medium dense, no odor, saturated below 6.5 ft. (SW)												
			EOB: 7.0 ft.												

DRILLING CONTRACTOR: Wisconsin Test Drilling, Inc.

Schofield, Wisconsin

LOGGED BY Stephen D. Mueller

DATE 12/14/89

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Chrysler Corp., Site #8 Bldgs. 4, 7B, 9, 17A, 17C, and 58	DRILLING METHOD: 8 in. OD HSA SAMPLE METHOD: 2 in. x 2 ft. continuous split-spoon sampling	BORING NO. MP-80 SHEET 1 OF 1 DRILLING START TIME 1030 FINISH TIME 1100 DATE 12/14/89 DATE 12/14/89
DATUM: msl ELEVATION:		SURFACE CONDITIONS: One foot concrete.
DRILL RIG: Diedrich D-50 ANGLE: Vertical BEARING --- SAMPLE HAMMER TORQUE 140#/30 in. drop FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS					
							WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPEC. GRAVITY	OTHER TESTS	PID (ppm)
		F	0.0 - 1.0: CONCRETE (Fill)									
2	28, 29 15, 17 (75%)	SP/F	1.0 - 3.0: SAND and CINDER FILL, medium-grained sand, 0.5 to 1.0 cm. clasts of metallic slag, little gravel, dark brown (7.5YR 3/2) and dark reddish-brown (2.5Y 3/4), dense, no odor, damp (SP, Fill)	SS #1								<1
4	4, 7 7, 12 (75%)	CL/SW	3.0 - 4.0: SILTY CLAY and SAND; fine-grained sand, gray (10YR 5/1), medium dense, no odor, moist (CL/SW)	SS #2								<1
6	5, 9 14, 14 (50%)	SW	4.0 - EOB: SILTY SAND, very fine-grained, grayish brown (10YR 5/2), medium dense, no odor, moist grading to gray (10YR 5/1), saturated below 8.0 ft. (SW)	SS #3								<1
8	9, 8 10, 11 (100%)			SS #4								<1
10			EOB: 9.0 ft.									

DRILLING CONTRACTOR Wisconsin Test Drilling, Inc.

Schofield, Wisconsin

LOGGED BY Stephen D. Mueller

DATE 12/14/89

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Chrysler Corp., Site #8 Bldgs. 4, 7B, 9, 17A, 17C, and 58		DRILLING METHOD: 8 in. OO HSA		BORING NO. HP-2E	
		SAMPLE METHOD: 2 in. x 2 ft. continuous split-spoon sampling		SHEET 1 OF 1	
DATUM: msl		ELEVATION:		DRILLING START FINISH	
		CASING DEPTH		TIME TIME 1430 1600	
				DATE DATE 12/13/89 12/13/89	

DRILL RIG: Diedrich D-50		SURFACE CONDITIONS: One foot concrete	
ANGLE: Vertical	BEARING: ---		
SAMPLE HAMMER TORQUE 140#/30 in. drop FT.-LBS			

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON-CASING	TEST RESULTS						
							WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPEC. GRAVITY	PIB (ppm)		
		F	0.0 - 1.0: CONCRETE (Fill)										
2	14, 8 8, 9 (75%)	SW F	1.0 - 2.0: SILTY SAND, some gravel, poorly sorted, dark grayish-brown (10YR 4/2), medium dense, no odor, dry grading to moist below 1.25 ft. (SW)	SS #1									6
4	13, 5 8, 8	SW	2.0 - 3.0: SILTY SAND and GRAVEL, fine-grained sand, 0.5 to 1.0 cm. slag clasts, dark brown (7.5YR 3/4), medium dense, hydrocarbon odor, damp (SW/GW, Fill)	SS #2									54
6	13, 13 13, 14	SW	3.0 - 6.0: SILTY SAND, fine-grained, yellowish-brown (10YR 5/4), medium dense, hydrocarbon odor (gasoline-like), moist (SW)	SS #3									31
8			6.0 - EOB: SILTY SAND, very fine-grained, gray (10YR 5/1), medium dense, hydrocarbon odor, saturated below 6.0 ft. (SW) EOB: 7.0 ft.										

DRILLING CONTRACTOR Wisconsin Test Drilling, Inc.

Schofield, Wisconsin

LOGGED BY Stephen D. Mueller

DATE 12/13/89

BOREHOLE LOG

Project: Chrysler Subsurface Assess. 251E09533
 Location: Kenosha Main Plant and Support Sites

Borehole ID : MW-3
 Logged by: R. J. Binder

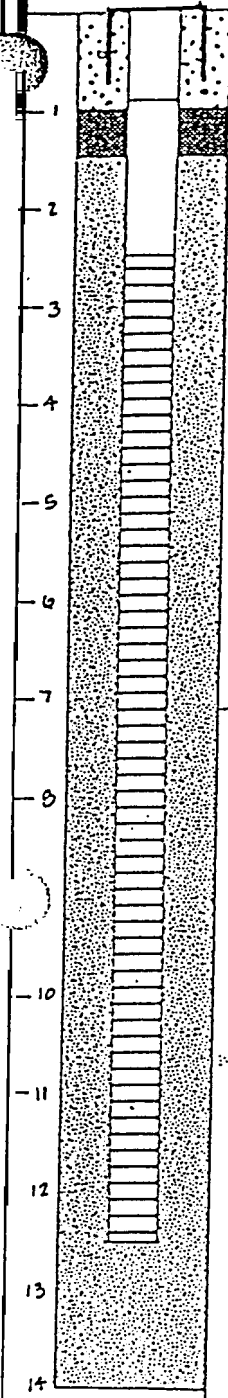
LOCATION: Main Plant, south of Building #52, east of USTs GROUND ELEV.: 623.21 ft. msl TOTAL DEPTH: 14.0 ft. BOREHOLE DIAM.: ~ 7-3/4 in.	DRILLER: Wis. Test Drilling, Inc Schofield, Wisconsin RIG: Diedrich D-50 BIT(S): 4-1/4" I.D. HSA FLUID: None	START DATE: 5/22/89 TIME: 12:00	END 5/22/89 13:00
	COMPLETED AS: Monitoring Well		

DEPTH ft.	S M P L E	R E C O R D	N V A L	H N u ppm		MATERIAL DESCRIPTIONS AND COMMENTS
1						0.0 - 0.5: CONCRETE
2	1	1.0	11	18		0.5 - 3.8: SILTY SAND and GRAVEL, fine- to coarse-grained, poorly sorted, very dark brown (10YR 2/2), medium dense, strong hydrocarbon odor, wet to saturated below 2.5 ft (SW-SM, Fill)
3						
4	2	1.8	20	60		3.8 - 5.0: SANDY SILT, fine-grained sand, nonplastic, grayish brown (10YR 5/2), very stiff, strong hydrocarbon odor, saturated (ML)
5						
6	3	2.0	6	60		5.0 - 6.0: SILTY SAND, very fine-grained to fine-grained, poorly sorted, grayish brown (10YR 5/2), loose, strong hydrocarbon odor, saturated (SM)
7						
8	4	0.6	35	70		6.0 - 8.0: SAND and GRAVEL, trace silt and clay, medium- to coarse-grained, poorly sorted, black (10YR 2/1), dense, strong hydrocarbon odor, saturated (GW)
9						
10	5	-	19	60		8.0 - EOB: SILTY SAND, fine- to medium-grained, poorly sorted, brown (10YR 5/1), medium dense to dense, strong hydrocarbon odor, saturated (SW-SM)
11						
12	6	.25	35	60		
13						EOB: 14.0 ft.
14	7	-	-	-		

WELL/PROBE CONSTRUCTION SUMMARY

PROJECT: Chrysler Subsurface Site
Assessment
 PROJECT NO.: 251EO9533
 PERSONNEL: R. J. Binder

ELEVATION:
 GROUND LEVEL: 623.21 ft. msl
 TOP OF RISER: 622.29 ft. msl
 TOP OF PROT. CASING: 623.21 ft. msl



DRILLING SUMMARY:
 TOTAL DEPTH: 14.0 ft.
 BOREHOLE DIAMETER: 7-3/4 in.
 DRILLER: Wiscosnin Test Drilling
Schofield, WI
 RIG: Diedrich D-50
 BIT(S): 4-1/4" ID HSA
 DRILLING FLUID: None
 SURFACE CASING: Flush-mounted steel
well vault

WELL DESIGN:
 BASIC: GEOLOGIC LOG X GEOPHYS. LOG
 CASING STRING(S): C=CASING / S=SCREEN
0.92 - 2.5 C1 2.5 - 12.5 S1
0.0 - 0.5 C2 - - - - -
- - - - -

CASING: C1: 2" dia. flush-threaded
Sch. 40 FVC
C2: 8" dia. flush-mounted
iron well vault
 SCREEN: S1: 2" dia., 0.010" factory
slot, flush-threaded,
Sch. 40 FVC

CENTRALIZERS: None
 FILTER MATERIAL: Coarse quartz sand
14.0 - 1.5 ft.
 ANNULAR SEAL: Volclay bentonite
pellets, 1.5 - 1.0 ft.
 CEMENT: _____
 OTHER: _____

TASK	START		FINISH	
	DATE	TIME	DATE	TIME
DRILLING: HSA	1989		1989	
	5/22	1200	5/22	1300
GEOPHYSICAL LOGGING: CASING:				
C1, S1	5/22	1305	5/22	1310
C2	5/22	1335	5/22	1345
FILTER PLACEMENT: CEMENTING:				
	5/22	1310	5/22	1330
	5/22	1330	5/22	1335
DEVELOPMENT OTHER: Ann. Seal	5/22	1310	5/22	1330

DEVELOPMENT SUMMARY:
Total of 26.0 callons purged
5/31 - 6/1 = 21.6 casing volumes

COMMENTS:

HYDRAULIC TEST DATA FOR WELL MW-3

RECOVERY DATA

Project: Chrysler Subsurface Site Assessment
 Project Number: 251E09533
 Location: Kenosha, Wisconsin
 Personnel: R.J. Binder, J.L. Fassbender

Type of Test : Bail/Recovery
 Meas. Pt. for Wtr.Lvl : Top of Riser
 Water Level Measured By: Olympic Water Level Probe
 Elev. of Meas. Pt. : 622.29 ft. msl
 Static Water Lvl. Elev.: 619.90 ft. msl
 Type of Pump: Bailer
 Discharge: 5.75 Gallons; 0.46 GPM

Pump or Bailing Started: Date 6/13/89 Time 1226.00
 Pump or Bailing Stopped: Date 6/13/89 Time 1232.42
 End Wtr. Lvl. Observation: Date 6/13/89 Time 1246.90

TIME		WATER LEVEL DATA				COMMENTS
Date	Clock Time	t' (min)	Reading (ft)	Water Residual Level Draw. s' (ft. msl) (ft.)	s'/so	
			Static Wtr. Lvl. Reading: 2.31 ft			
6/13/89	1232.75	0.0000	9.70	612.59	7.39	1.00
6/13/89	1232.87	0.1200	9.51	612.78	7.20	0.97
6/13/89	1233.00	0.2500	9.31	612.98	7.00	0.95
6/13/89	1233.25	0.5000	9.05	613.24	6.74	0.91
6/13/89	1233.42	0.6700	8.88	613.41	6.57	0.89
6/13/89	1233.58	0.8300	8.70	613.59	6.39	0.86
6/13/89	1233.78	1.0300	8.50	613.79	6.19	0.84
6/13/89	1234.00	1.2500	8.32	613.97	6.01	0.81
6/13/89	1234.30	1.5500	8.19	614.10	5.88	0.80
6/13/89	1234.60	1.8500	7.91	614.38	5.60	0.76
6/13/89	1235.00	2.2500	7.72	614.57	5.41	0.73
6/13/89	1235.38	2.6300	7.49	614.80	5.18	0.70
6/13/89	1235.75	3.0000	7.28	615.01	4.97	0.67
6/13/89	1236.08	3.3300	7.10	615.19	4.79	0.65
6/13/89	1236.50	3.7500	6.87	615.42	4.56	0.62
6/13/89	1236.92	4.1700	6.58	615.71	4.27	0.58
6/13/89	1237.33	4.5800	6.26	616.03	3.95	0.53
6/13/89	1237.75	5.0000	5.92	616.37	3.61	0.49
6/13/89	1238.17	5.4200	5.65	616.64	3.34	0.45
6/13/89	1238.50	5.7500	5.32	616.97	3.01	0.41
6/13/89	1239.00	6.2500	4.90	617.39	2.59	0.35
6/13/89	1239.42	6.6700	4.66	617.63	2.35	0.32
6/13/89	1240.08	7.3300	4.15	618.14	1.84	0.25
6/13/89	1240.58	7.8300	3.76	618.53	1.45	0.20
6/13/89	1241.17	8.4200	3.40	618.89	1.09	0.15

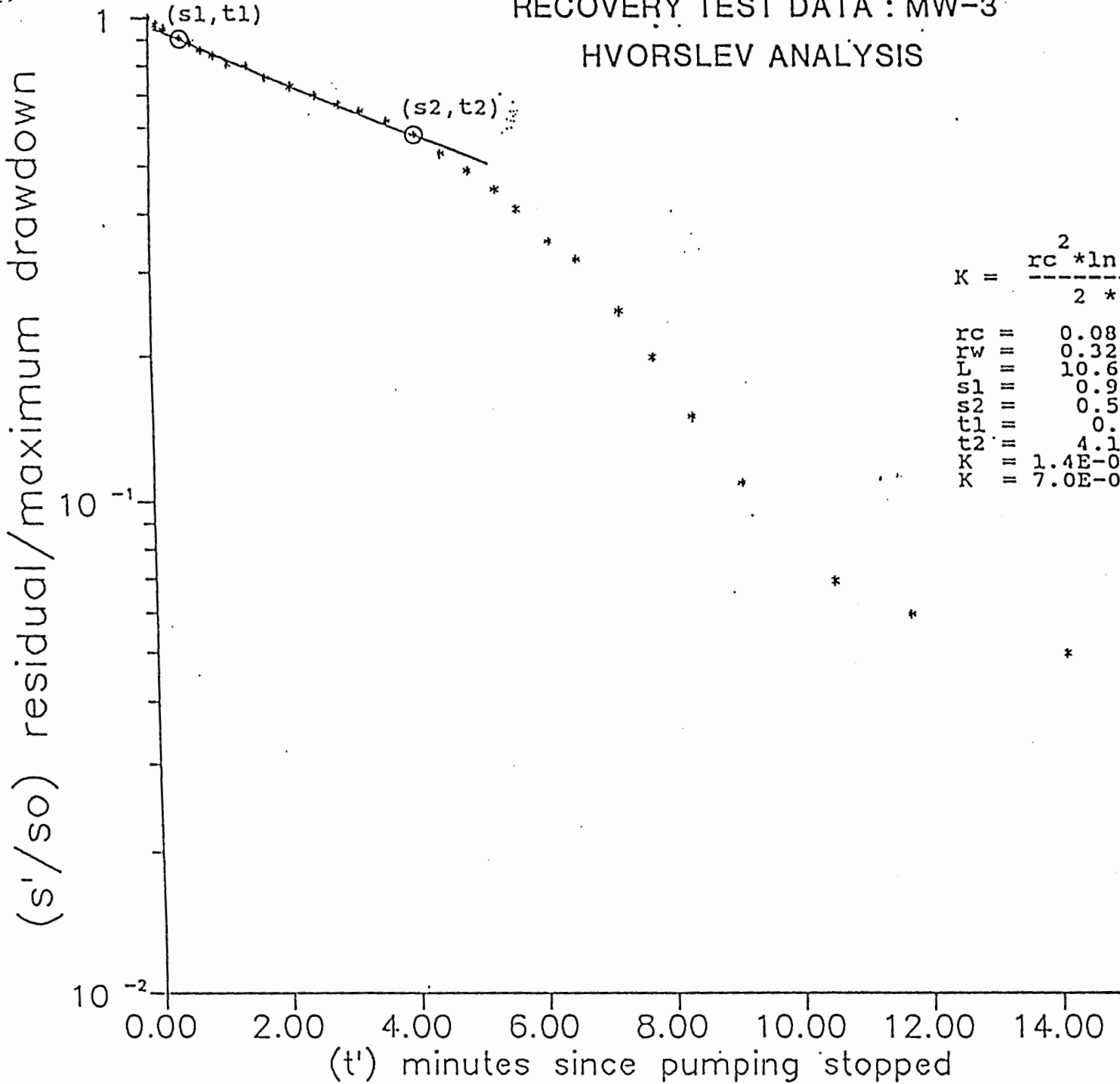
Hydro-Search, Inc.

HYDROLOGISTS·GEOLOGISTS·ENGINEERS

6/13/89	1241.92	9.1700
6/13/89	1243.33	10.5000
6/13/89	1244.50	11.7500
6/13/89	1246.90	14.1500

3.11	619.18	0.80	0.11
2.86	619.43	0.55	0.07
2.73	619.56	0.42	0.06
2.65	619.64	0.34	0.05

RECOVERY TEST DATA : MW-3
 HVORSLEV ANALYSIS



$$K = \frac{rc^2 \cdot \ln(L/rw) \cdot \ln(s_1/s_2)}{2 \cdot L \cdot (t_2 - t_1)}$$

- rc = 0.083 ft.
- rw = 0.323 ft.
- L = 10.67 ft.
- s1 = 0.91
- s2 = 0.58
- t1 = 0.5 min.
- t2 = 4.17 min.
- K = 1.4E-04 ft/min
- K = 7.0E-05 cm/sec

WELL DEVELOPMENT SUMMARY

WELL MW-3

PROJECT Chrysler (251E09533)
 LOCATION Kenosha Main Plant
 PERSONNEL R. J. Binder

South of Building 52
 WELL LOCATION East of USTs
 ELEVATION (FVC riser) 622.29
 GROUND LEVEL 623.21

DATE 1989	TIME	METHOD	VOL. gal.	APPEARANCE	TEMP. C	pH s.u.	COND. umho/cm	COMMENTS
5/31	1004	Bailer	Initial	Clear	21	6.9	330	Hydrocarbon odor
5/31	1010	Bailer	2.5	Brn., Turbid	19.5	6.9	450	Hydrocarbon odor
5/31	1015	Bailer	2.5	Brn., Turbid	19.5	6.8	430	Hydrocarbon odor
5/31	1020	Bailer	2.5	Clearing	19.5	6.8	440	Hydrocarbon odor
5/31	1024	Bailer	2.5	Clearing	19.5	6.8	440	Hydrocarbon odor
5/31	1028	Bailer	2.5	Clearing	19.5	6.8	435	Hydrocarbon odor
5/31	1032	Bailer	2.5	Clearing	19.5	6.8	440	Hydrocarbon odor
5/31	1037	Bailer	2.5	Clearing	19.5	6.8	430	Hydrocarbon odor
5/31	1042	Bailer	2.5	Clearing	19.5	6.8	440	Hydrocarbon odor
6/1	1720	Bailer	6.0	Clearing	—	—	—	Hydrocarbon odor
		TOTAL PURGED - 26.0 gallons = 21.6 casing volumes						

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: Chrysler Corp. Site #7 Inside building 52			DRILLING METHOD: 8 in. OD HSA			BORING NO. MW-14								
			SAMPLE METHOD: 2 in. x 2 in. continuous split-spoon sampling			SHEET 1 OF 1		DRILLING START FINISH TIME TIME 1030 1145 DATE DATE 11/30/89 11/30/89						
DATUM: msl		ELEVATION:		WATER LEVEL TIME DATE		CASING DEPTH								
DRILL RIG: Diedrich D-50			SURFACE CONDITIONS: Concrete floor											
ANGLE: Vertical		BEARING: ---		SAMPLE HAMMER TORQUE 140#/30 in. drop										
DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS							
							WATER CONTENT - X	LIQUID LIMIT X	PLASTIC LIMIT X	SPEC. GRAVITY	OTHER TESTS	PID (ppm)		
		F	0.0 - 1.0: Concrete (Fill)											
2	(80)	SW/ GW	1.0 - 3.0: SAND and GRAVEL (Fill SW/GW)	SS #1										
4	(60)	SW	3.0 - 7.5: SAND, fine-grained, well sorted, yellowish-brown (10YR 5/4), medium dense, moist to wet (SM)	SS #2										
6	(50)		7.5 - EOB: SAND, fine-grained, well sorted, dark gray (10YR 4/1), medium dense, saturated (SW)	SS #3										
8	(50)		EOB: 13.0 Feet	SS #4										
10	(65)			SS #5										
12	(70)			SS #6										
14														
													15	

DRILLING CONTRACTOR Wisconsin Test Drilling, Inc.

Schofield, Wisconsin

LOGGED BY Robert Schneider (HSI)

DATE 11/30/89

MONITOR WELL CONSTRUCTION SUMMARY

Well No. HW-14

Boring No. X-Ref: _____

Survey Coords: _____

Elevation Ground Level 622.87

Top of Casing 622.34

Drilling Summary:

Total Depth: 14.0 ft.
 Borehole Diameter: 8.0 in.
 Casing Stick-up Height: -.53 ft.
 Driller: Wisconsin Test Drilling, Inc.
Schofield, WI

Rig: Diedrich D-50

Drilling Fluid: None

Protective Casing: Flush-mounted steel well vault

Construction Time Log:

Task	Start		Finish	
	Date	Time	Date	Time
Drilling HSA	11/30	1030	11/30	1145
Casing:	11/30	1155	11/30	1220
Filter Placement: Cementing: Development:	11/30	1225	11/30	1245

Well Design & Specifications

Basic: Geologic Log X Geophysical Log _____
 Casing String(s): C = Casing S = Screen

Depth	String(s)	Elevation
0.0 - 0.1	C1	622.87 - 621.87
.53 - 4.0	C2	622.34 - 618.34
4.0 - 14.0	S1	618.34 - 608.34

Casing: C1: 8" dia., flush-mounted iron well vault

Casing: C2: 2" dia. flush-threaded Sch. 40 PVC

Screen: S1: 2" dia. 0.010" factory-slot, flush-threaded Sch. 40 PVC

Filter Pack: #30 flint sand 14.0 - 4.0 ft.
Fine silica sand 4.0 - 3.0 ft.

Grout Seal: Cement - 1.0 - 0.0 ft.

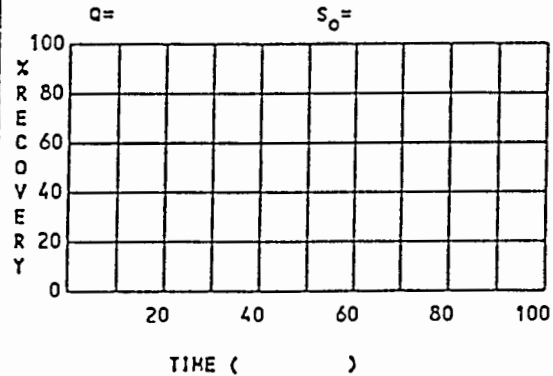
Bentonite Seal: Pellets 3.0 - 1.0 ft.

Well Development:

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)

Recovery Data:



Comments: _____

SITE NAME Chrysler Corp., Site MP-7

LOCATION Inside Building 52

SUPERVISED BY Robert A. Schneider (HSI)

DATE 11/30/89

HYDRAULIC TEST DATA FOR WELL MW-14

Elev. of Meas. Pt.: 622.34

Static Water Lvl. Elev.: 616.94

Discharge: 6.0 Gal.

.6 gpm SWL: 5.40

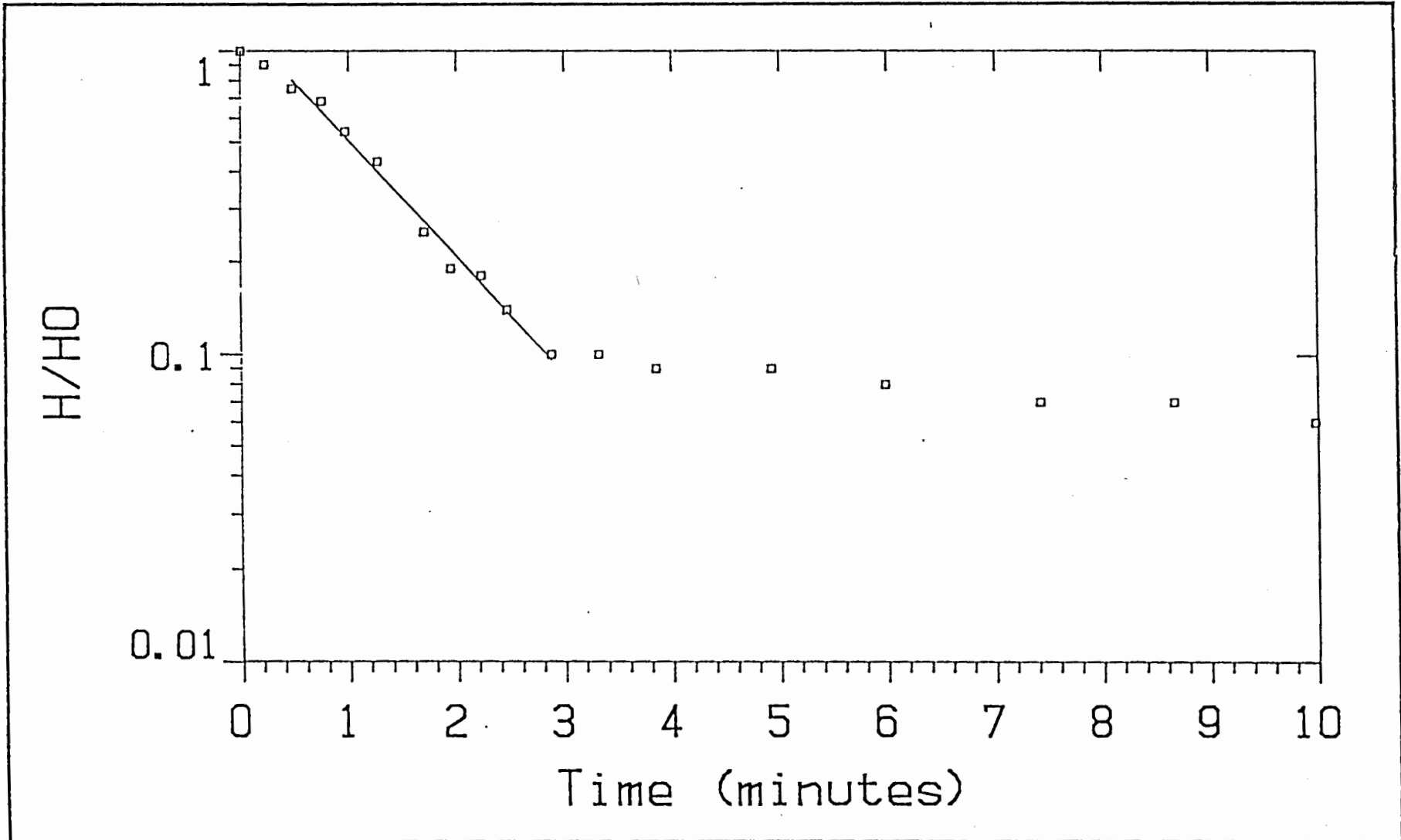
Type of Test: Bail/Recovery

Meas. Pt. for Water Level: Top of Riser

Type of Pump: Bailer

Personnel: R.J. Binder, S.D. Mueller, R.A. Schneiker

DATE	Clock Time	t' (min)	Reading (ft)	Residual Draw. s' (ft)	s'/so
02/07/90	12:36:00	0.00	10.20	4.80	1.00
02/07/90	12:36:13	0.22	9.74	4.34	0.90
02/07/90	12:36:29	0.48	8.98	3.58	0.75
02/07/90	12:36:45	0.75	8.66	3.26	0.68
02/07/90	12:36:58	0.97	7.98	2.58	0.54
02/07/90	12:37:16	1.27	7.45	2.05	0.43
02/07/90	12:37:42	1.70	6.62	1.22	0.25
02/07/90	12:37:57	1.95	6.29	0.89	0.19
02/07/90	12:38:14	2.23	6.28	0.88	0.18
02/07/90	12:38:28	2.47	6.09	0.69	0.14
02/07/90	12:38:53	2.88	5.90	0.50	0.10
02/07/90	12:39:19	3.32	5.86	0.46	0.10
02/07/90	12:39:51	3.85	5.84	0.44	0.09
02/07/90	12:40:55	4.92	5.82	0.42	0.09
02/07/90	12:41:59	5.98	5.80	0.40	0.08
02/07/90	12:43:25	7.42	5.75	0.35	0.07
02/07/90	12:44:40	8.67	5.72	0.32	0.07
02/07/90	12:45:59	9.98	5.69	0.29	0.06



MODEL TYPE: HVORSLEV CONDUCTIVITY: .0009530 ft/min TRANSMISSIVITY: .9520 sq. ft/min INITIAL HEAD: 1.000 ft		For: CHRYSLER	Well Slug Test Data
		by: Hydrosearch, Inc.	
Data Set: MP-7 Date: 02/07/90		WELL DATA: Units: ft AQUIFER: Endless THICKNESS: 999.0 SCREEN: top: 4.000 base: 14.00 DIAMETER: casing: .1660 intake: .6660 DEPTH: Water Table: 5.400 TD: 14.50	Well: MW-14 MAIN PLANT Kenosha

TE

ATTACHMENT B
STOCKPILED SOIL ANALYTICAL DATA

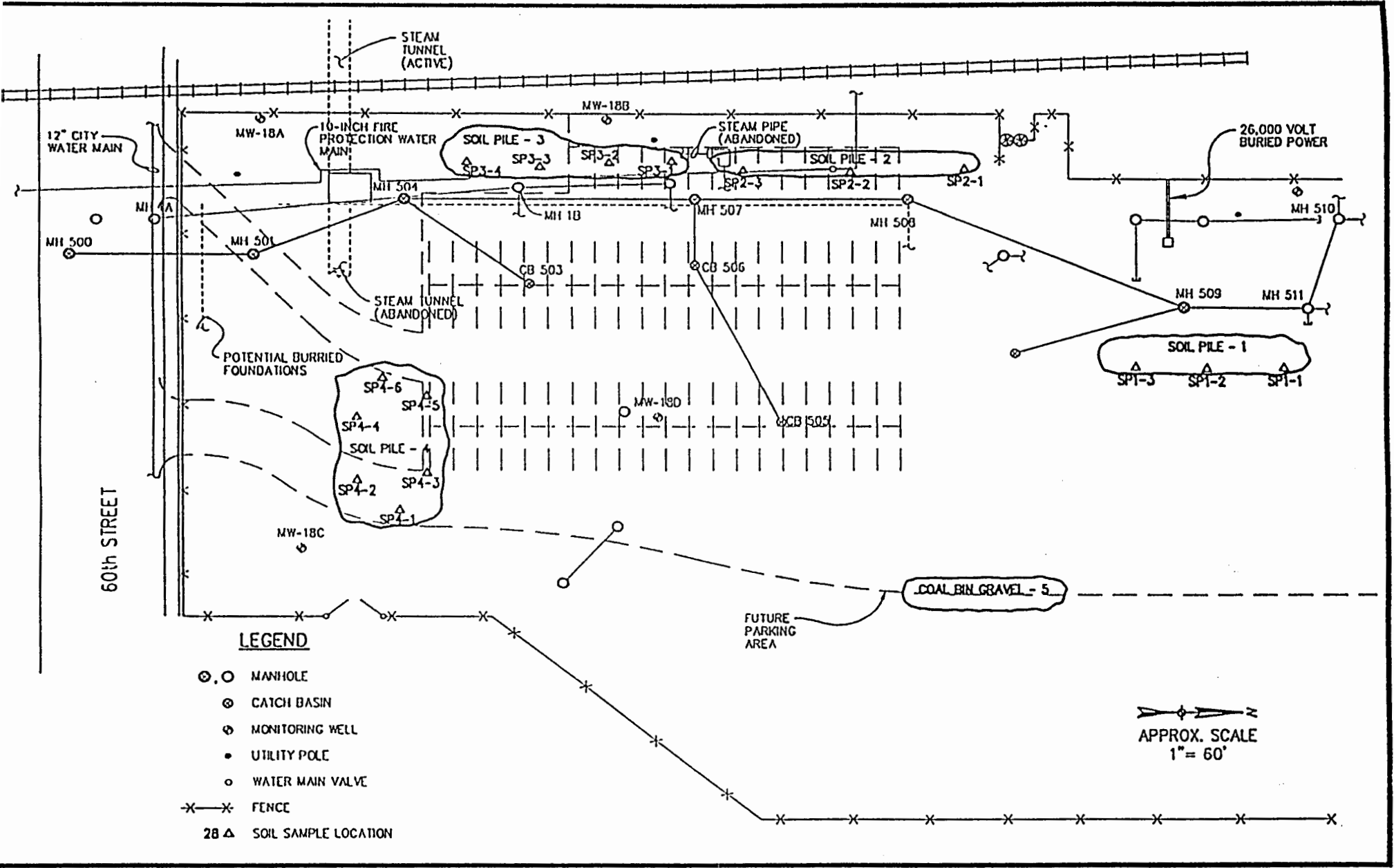


FIGURE 1
CHRYSLER KENOSHA MAIN PLANT
SOIL PILE AND SAMPLE LOCATIONS

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



ANALYTICAL REPORT

REPORT NUMBER: A3264

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163

DATE: April 5, 1994
 PURCHASE ORDER:
 SEI NO: WL9797
 DATE COLLECTED: 03/15/94
 DATE RECEIVED: 03/15/94

Matrix: Soil
 Source: Chrysler

DATE EXTRACTED
 DRO - 03/17/94

Units: mg/kg (ppm)

DATE ANALYZED
 DRO - 03/22&25/94

DNR #	Analyte	PQL	SEI ID	9797-1	9797-2	9797-3	9797-4	9797-5	9797-6
			Sample ID	SP1-1	SP1-2	SP1-3	SP2-1	SP2-2	SP2-3
WDNR Modified Method DRO									
78124	DRO	1		<1	699 ^a	167	<1	<1	5

DNR #	Analyte	PQL	SEI ID	9797-7	9797-8	9797-9	9797-10	9797-11	9797-12
			Sample ID	SP3-1	SP3-2	SP3-3	SP3-4	SP4-1	SP4-2
WDNR Modified Method DRO									
78124	DRO	1		150 ^b	<1	63 ^b	67 ^b	78	484 ^b

^a Sample pattern did not resemble Diesel.
^b Baseline raised with peaks outside DRO window.

Samples received "on ice"

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WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: A3264

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163

DATE: April 5, 1994
 PURCHASE ORDER:
 SEI NO: WL9797
 DATE COLLECTED: 03/14&15/94
 DATE RECEIVED: 03/15/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

DNR #	Analyte	POL	SEI ID	9797-13	9797-14	9797-15	9797-16
			Sample ID	SP4-3	SP4-4	SP4-5	SP4-6
WDNR Modified Method DRO							
78124	DRO	1		960 ^a	34 ^{ab}	1,280 ^{bc}	1,560 ^{adg}

- ^a Sample pattern did not resemble Diesel.
- ^b Baseline raised with peaks outside DRD window.
- ^c Elevated detection limits due to high analyte concentration; a 5x dilution necessary.
- ^d Elevated detection limits due to high analyte concentration; a 11x dilution necessary.
- ^e Elevated detection limits due to high analyte concentration; a 55x dilution necessary.
- ^g Baseline raised.

Samples received "on ice"

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 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163

DATE: April 5, 1994
 PURCHASE ORDER:
 SEI NO: WL9797
 DATE COLLECTED: 03/15/94
 DATE RECEIVED: 03/15/94
 DATE ANALYZED: 03/21/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID	9797-1	9797-2	9797-3	9797-4
		Sample ID	SP1-1	SP1-2	SP1-3	SP2-1
		PQL				
EPA Method 8021						
78124	Benzene	0.02	<0.02	<0.02	<0.02	<0.02
81555	Bromobenzene	0.02	<0.02	<0.02	<0.02	<0.02
77297	Bromochloromethane	0.02	<0.02	<0.02	<0.02	<0.02
32101	Bromodichloromethane	0.02	<0.02	<0.02	<0.02	<0.02
32104	Bromoform	0.02	<0.02	<0.02	<0.02	<0.02
14413	Bromomethane	0.02	<0.02	<0.02	<0.02	<0.02
77342	n-Butylbenzene	0.02	<0.02	<0.02	0.11	<0.02
77350	sec-Butylbenzene	0.04	<0.04	<0.04	0.20	<0.04
77353	tert-Butylbenzene	0.02	<0.02	<0.02	0.07	<0.02
32102	Carbon tetrachloride	0.02	<0.02	<0.02	<0.02	<0.02
34301	Chlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34306	Chlorodibromomethane	0.02	<0.02	<0.02	<0.02	<0.02
34311	Chloroethane	0.02	<0.02	<0.02	0.02	<0.02
32106	Chloroform	0.02	<0.02	<0.02	<0.02	<0.02
34418	Chloromethane	0.02	<0.02	<0.02	<0.02	<0.02
77275	2-Chlorotoluene	0.02	<0.02	<0.02	<0.02	<0.02
77277	4-Chlorotoluene	0.02	<0.02	<0.02	<0.02	<0.02
38437	1,2-Dibromo-3-chloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77651	1,2-Dibromoethane	0.02	<0.02	<0.02	<0.02	<0.02
77596	Dibromoethane	0.02	<0.02	<0.02	<0.02	<0.02

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 DATE COLLECTED: 03/15/94
 DATE RECEIVED: 03/15/94
 DATE ANALYZED: 03/21/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID	9797-1	9797-2	9797-3	9797-4
		Sample ID	SP1-1	SP1-2	SP1-3	SP2-1
		<u>PQL</u>				
EPA Method 8021						
34536	1,2-Dichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34566	1,3-Dichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34571	1,4-Dichlorobenzene	0.03	<0.03	<0.03	<0.03	<0.03
34668	Dichlorodifluoromethane	0.02	<0.02	<0.02	<0.02	<0.02
34496	1,1-Dichloroethane	0.03	<0.03	<0.03	<0.03	<0.03
32103	1,2-Dichloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34501	1,1-Dichloroethene	0.02	<0.02	<0.02	<0.02	<0.02
77093	cis-1,2-Dichloroethene	0.03	<0.03	<0.03	<0.03	<0.03
34546	trans-1,2-Dichloroethene	0.03	<0.03	<0.03	<0.03	<0.03
34541	1,2-Dichloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77173	1,3-Dichloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77170	2,2-Dichloropropane	0.03	<0.03	<0.03	<0.03	<0.03
77168	1,1-Dichloropropene	0.02	<0.02	<0.02	<0.02	<0.02
34704	cis-1,3-Dichloropropene	0.02	<0.02	<0.02	<0.02	<0.02
34699	trans-1,3-Dichloropropene	0.02	<0.02	<0.02	<0.02	<0.02
78113	Ethylbenzene	0.02	<0.02	<0.02	<0.02	<0.02
34391	Hexachlorobutadiene	0.03	<0.03	<0.03	<0.03	<0.03
77223	Isopropylbenzene	0.02	<0.02	<0.02	<0.02	<0.02
77336	- p-Isopropyltoluene	0.02	<0.02	<0.02	0.04	<0.02
34423	- Methylene chloride	0.05	<0.05	<0.05	0.12	<0.05
34696	- Naphthalene	0.03	<0.03	<0.03	0.05	<0.03

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DATE: April 5, 1994
 PURCHASE ORDER:
 SEI NO: WL9797
 DATE COLLECTED: 03/15/94
 DATE RECEIVED: 03/15/94
 DATE ANALYZED: 03/21/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID	9797-1	9797-2	9797-3	9797-4
		Sample ID	SP1-1	SP1-2	SP1-3	SP2-1
		PQL				
EPA Method 8021						
77224	n-Propylbenzene	0.03	<0.03	<0.03	<0.03	<0.03
77128	Styrene	0.03	<0.03	<0.03	<0.03	<0.03
77562	1,1,1,2-Tetrachloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34516	1,1,2,2-Tetrachloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34475	Tetrachloroethene	0.02	<0.02	<0.02	<0.02	<0.02
78131	Toluene	0.02	<0.02	<0.02	<0.02	<0.02
77613	1,2,3-Trichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34551	1,2,4-Trichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34506	1,1,1-Trichloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34511	1,1,2-Trichloroethane	0.02	<0.02	<0.02	<0.02	<0.02
39180	— Trichloroethene	0.02	<u>0.21</u>	<u>0.41^f</u>	<0.02	<0.02
34488	Trichlorofluoromethane	0.02	<0.02	<0.02	<0.02	<0.02
77443	1,2,3-Trichloropropane	0.02	<0.02	<0.02	<0.02	0.02
77222	1,2,4-Trimethylbenzene	0.04	<0.04	<0.04	<0.04	<0.04
77226	— 1,3,5-Trimethylbenzene	0.02	<0.02	<0.02	<0.02	0.02
39175	Vinyl Chloride	0.02	<0.02	<0.02	<0.02	<0.02
77135	— o-Xylenes	0.02	<0.02	<0.02	0.02	0.02
85795	m & p Xylenes	0.02	<0.02	<0.02	<0.02	<0.02

^f Elevated detection limit due to high analyte concentration; a 10x dilution necessary.

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DATE: April 5, 1994
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 SEI NO: WL9797
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 DATE RECEIVED: 03/15/94
 DATE ANALYZED: 03/21/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID	9797-5	9797-6	9797-7	9797-8
		Sample ID	SP2-2	SP2-3	SP3-1	SP3-2
		<u>PQL</u>				
EPA Method 8021						
78124	Benzene	0.02	<0.02	<0.02	<0.02	<0.02
81555	Bromobenzene	0.02	<0.02	<0.02	<0.02	<0.02
77297	Bromochloromethane	0.02	<0.02	<0.02	<0.02	<0.02
32101	Bromodichloromethane	0.02	<0.02	<0.02	<0.02	<0.02
32104	Bromoform	0.02	<0.02	<0.02	<0.02	<0.02
14413	Bromomethane	0.02	<0.02	<0.02	<0.02	<0.02
77342	n-Butylbenzene	0.02	<0.02	<0.02	<0.02	<0.02
77350	sec-Butylbenzene	0.04	<0.04	<0.04	<0.04	<0.04
77353	tert-Butylbenzene	0.02	<0.02	<0.02	<0.02	<0.02
32102	Carbon tetrachloride	0.02	<0.02	<0.02	<0.02	<0.02
34301	Chlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34306	Chlorodibromomethane	0.02	<0.02	<0.02	<0.02	<0.02
34311	Chloroethane	0.02	<0.02	<0.02	<0.02	<0.02
32106	Chloroform	0.02	<0.02	<0.02	<0.02	<0.02
34418	Chloromethane	0.02	<0.02	<0.02	<0.02	<0.02
77275	2-Chlorotoluene	0.02	<0.02	<0.02	<0.02	<0.02
77277	4-Chlorotoluene	0.02	<0.02	<0.02	<0.02	<0.02
38437	1,2-Dibromo-3-chloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77651	1,2-Dibromoethane	0.02	<0.02	<0.02	<0.02	<0.02
77596	Dibromomethane	0.02	<0.02	<0.02	<0.02	<0.02

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WDNR Certification #268181760

ANALYTICAL REPORT

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 325 East Chicago Street
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Attn: Mr. Rick Binder
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DATE: April 5, 1994
 PURCHASE ORDER:
 SEI NO: WL9797
 DATE COLLECTED: 03/15/94
 DATE RECEIVED: 03/15/94
 DATE ANALYZED: 03/21/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

<u>DNR #</u>	<u>Analyte</u>	<u>SEI ID</u> <u>Sample ID</u> <u>POL</u>	<u>9797-5</u>	<u>9797-6</u>	<u>9797-7</u>	<u>9797-8</u>
			<u>SP2-2</u>	<u>SP2-3</u>	<u>SP3-1</u>	<u>SP3-2</u>
EPA Method 8021						
34536	1,2-Dichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34566	1,3-Dichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34571	1,4-Dichlorobenzene	0.03	<0.03	<0.03	<0.03	<0.03
34668	Dichlorodifluoromethane	0.02	<0.02	<0.02	<0.02	<0.02
34496	1,1-Dichloroethane	0.03	<0.03	<0.03	<0.03	<0.03
32103	1,2-Dichloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34501	1,1-Dichloroethene	0.02	<0.02	<0.02	<0.02	<0.02
77093	cis-1,2-Dichloroethene	0.03	<0.03	<0.03	<0.03	<0.03
34546	trans-1,2-Dichloroethene	0.03	<0.03	<0.03	<0.03	<0.03
34541	1,2-Dichloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77173	1,3-Dichloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77170	2,2-Dichloropropane	0.03	<0.03	<0.03	<0.03	<0.03
77168	1,1-Dichloropropene	0.02	<0.02	<0.02	<0.02	<0.02
34704	cis-1,3-Dichloropropene	0.02	<0.02	<0.02	<0.02	<0.02
34699	trans-1,3-Dichloropropene	0.02	<0.02	<0.02	<0.02	<0.02
78113	Ethylbenzene	0.02	<0.02	<0.02	<0.02	<0.02
34391	Hexachlorobutadiene	0.03	<0.03	<0.03	<0.03	<0.03
77223	Isopropylbenzene	0.02	<0.02	<0.02	<0.02	<0.02
77356	p-Isopropyltoluene	0.02	<0.02	<0.02	<0.02	<0.02
34423	Methylene chloride	0.05	<0.05	<0.05	<0.05	<0.05
34696	Naphthalene	0.03	<0.03	<0.03	<0.03	<0.03

3150 North Brookfield Road
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WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: A3264

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163

DATE: April 5, 1994
 PURCHASE ORDER:
 SEI NO: WL9797
 DATE COLLECTED: 03/15/94
 DATE RECEIVED: 03/15/94
 DATE ANALYZED: 03/21/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

<u>DNR #</u>	<u>Analyte</u>	<u>SEI ID</u>	<u>9797-5</u>	<u>9797-6</u>	<u>9797-7</u>	<u>9797-8</u>
		<u>Sample ID</u>	<u>SP2-2</u>	<u>SP2-3</u>	<u>SP3-1</u>	<u>SP3-2</u>
		<u>POL</u>				
	EPA Method 8021					
77224	n-Propylbenzene	0.03	<0.03	<0.03	<0.03	<0.03
77128	Styrene	0.03	<0.03	<0.03	<0.03	<0.03
77562	1,1,1,2-Tetrachloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34516	1,1,2,2-Tetrachloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34475	Tetrachloroethene	0.02	<0.02	<0.02	<0.02	<0.02
78131	Toluene	0.02	<0.02	<0.02	<0.02	<0.02
77613	1,2,3-Trichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34551	1,2,4-Trichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34506	1,1,1-Trichloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34511	1,1,2-Trichloroethane	0.02	<0.02	<0.02	<0.02	<0.02
59180	Trichloroethene	0.02	<0.02	<0.02	<0.02	<0.02
34488	Trichlorofluoromethane	0.02	<0.02	<0.02	<0.02	<0.02
77443	1,2,3-Trichloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77222	1,2,4-Trimethylbenzene	0.04	<0.04	<0.04	<0.04	<0.04
77226	1,3,5-Trimethylbenzene	0.02	<0.02	<0.02	<0.02	<0.02
39175	Vinyl Chloride	0.02	<0.02	<0.02	<0.02	<0.02
77155	o-Xylenes	0.02	<0.02	<0.02	<0.02	<0.02
85795	m & p Xylenes	0.02	<0.02	<0.02	<0.02	<0.02



ANALYTICAL REPORT

REPORT NUMBER: A3264

Triad Engineering, Inc.
 325 East Chicago Street
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Attn: Mr. Rick Binder
 Project #W943163

DATE: April 5, 1994
 PURCHASE ORDER:
 SEI NO: WL9797
 DATE COLLECTED: 03/15/94
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 DATE ANALYZED: 03/21/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID	9797-9	9797-10	9797-11	9797-12
		Sample ID	SP3-3	SP3-4	SP4-1	SP4-2
		PQL				
EPA Method 8021						
78124	Benzene	0.02	<0.02	<0.02	<0.02	<0.02
81555	Bromobenzene	0.02	<0.02	<0.02	<0.02	<0.02
77297	Bromochloromethane	0.02	<0.02	<0.02	<0.02	<0.02
32101	Bromodichloromethane	0.02	<0.02	<0.02	<0.02	<0.02
32104	Bromoform	0.02	<0.02	<0.02	<0.02	<0.02
14413	Bromomethane	0.02	<0.02	<0.02	<0.02	<0.02
77342	- n-Butylbenzene	0.02	0.06	0.12	0.62 [±]	0.06
77350	sec-Butylbenzene	0.04	<0.04	0.22	<0.04	0.05
77353	- tert-Butylbenzene	0.02	0.03	0.06	0.05	<0.02
32102	Carbon tetrachloride	0.02	<0.02	<0.02	<0.02	<0.02
34301	Chlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34306	Chlorodibromomethane	0.02	<0.02	<0.02	<0.02	<0.02
34311	Chloroethane	0.02	<0.02	<0.02	<0.02	<0.02
32106	Chloroform	0.02	<0.02	<0.02	<0.02	<0.02
34418	Chloromethane	0.02	<0.02	<0.02	<0.02	<0.02
77275	2-Chlorotoluene	0.02	<0.02	<0.02	<0.02	<0.02
77277	4-Chlorotoluene	0.02	<0.02	<0.02	<0.02	<0.02
38437	1,2-Dibromo-3-chloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77651	1,2-Dibromoethane	0.02	<0.02	<0.02	<0.02	<0.02
77596	Dibromoethane	0.02	<0.02	<0.02	<0.02	<0.02

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ANALYTICAL REPORT

REPORT NUMBER: A3264

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163

DATE: April 5, 1994
 PURCHASE ORDER:
 SEI NO: WL9797
 DATE COLLECTED: 03/15/94
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 DATE ANALYZED: 03/21/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID	9797-9	9797-10	9797-11	9797-12
		Sample ID	SP3-3	SP3-4	SP4-1	SP4-2
		<u>PQL</u>				
EPA Method 8021						
34536	1,2-Dichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34566	1,3-Dichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34571	1,4-Dichlorobenzene	0.03	<0.03	<0.03	<0.03	<0.03
34668	Dichlorodifluoromethane	0.02	<0.02	<0.02	<0.02	<0.02
34496	1,1-Dichloroethane	0.03	<0.03	<0.03	<0.03	<0.03
32103	1,2-Dichloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34501	1,1-Dichloroethene	0.02	<0.02	<0.02	<0.02	<0.02
77093	cis-1,2-Dichloroethene	0.03	<0.03	<0.03	<0.03	<0.03
34546	trans-1,2-Dichloroethene	0.03	<0.03	<0.03	<0.03	<0.03
34541	1,2-Dichloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77173	1,3-Dichloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77170	2,2-Dichloropropane	0.03	<0.03	<0.03	<0.03	<0.03
77168	1,1-Dichloropropene	0.02	<0.02	<0.02	<0.02	<0.02
34704	cis-1,3-Dichloropropene	0.02	<0.02	<0.02	<0.02	<0.02
34699	trans-1,3-Dichloropropene	0.02	<0.02	<0.02	<0.02	<0.02
78113	— Ethylbenzene	0.02	<0.02	0.03	0.04	<0.02
34391	Hexachlorobutadiene	0.03	<0.03	<0.03	<0.03	<0.03
77223	— Isopropylbenzene	0.02	<0.02	<0.02	0.07	<0.02
77356	p-Isopropyltoluene	0.02	<0.02	<0.02	<0.02	<0.02
34423	Methylene chloride	0.05	<0.05	<0.05	<0.05	<0.05
34696	— Naphthalene	0.03	<0.03	1.6	2.3 ^f	<0.03

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WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: A3264

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163

DATE: April 5, 1994
 PURCHASE ORDER:
 SEI NO: WL9797
 DATE COLLECTED: 03/15/94
 DATE RECEIVED: 03/15/94
 DATE ANALYZED: 03/21/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

<u>DNR #</u>	<u>Analyte</u>	SEI ID	9797-9	9797-10	9797-11	9797-12
		<u>Sample ID</u>	<u>SP3-3</u>	<u>SP3-4</u>	<u>SP4-1</u>	<u>SP4-2</u>
		<u>POL</u>				
	EPA Method 8021					
77224	— n-Propylbenzene	0.03	0.05	0.10	0.15	0.04
77128	Styrene	0.03	<0.03	<0.03	<0.03	<0.03
77562	1,1,1,2-Tetrachloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34516	1,1,2,2-Tetrachloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34475	Tetrachloroethene	0.02	<0.02	<0.02	<0.02	<0.02
78131	Toluene	0.02	<0.02	<0.02	<0.02	<0.02
77613	1,2,3-Trichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34551	1,2,4-Trichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34506	1,1,1-Trichloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34511	1,1,2-Trichloroethane	0.02	<0.02	<0.02	<0.02	<0.02
39180	— Trichloroethene	0.02	<0.02	<0.02	<0.02	0.03
34488	Trichlorofluoromethane	0.02	<0.02	<0.02	<0.02	<0.02
77443	1,2,3-Trichloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77222	1,2,4-Trimethylbenzene	0.04	<0.04	<0.04	<0.04	<0.04
77226	1,3,5-Trimethylbenzene	0.02	<0.02	<0.02	<0.02	<0.02
39175	Vinyl Chloride	0.02	<0.02	<0.02	<0.02	<0.02
77135	— o-Nylenes	0.02	0.03	0.07	0.05	<0.02
85795	m & p Nylenes	0.02	<0.02	<0.02	<0.02	<0.02

^f Elevated detection limit due to high analyte concentration; a 10x dilution necessary.

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WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: A3261

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163

DATE: April 5, 1994
 PURCHASE ORDER:
 SEINO: WL9797
 DATE COLLECTED: 03/15/94
 DATE RECEIVED: 03/15/94
 DATE ANALYZED: 03/21/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID	9797-13	9797-14	9797-15	9797-16
		Sample ID	SP4-3	SP4-4	SP4-5	SP4-6
		PQL				
EPA Method 8021						
78124	Benzene	0.02	<0.02	<0.02	<0.02	<0.02
81555	Bromobenzene	0.02	<0.02	<0.02	<0.02	<0.02
77297	Bromochloromethane	0.02	<0.02	<0.02	<0.02	<0.02
32101	Bromodichloromethane	0.02	<0.02	<0.02	<0.02	<0.02
32104	Bromoforn	0.02	<0.02	<0.02	<0.02	<0.02
14413	Bromomethane	0.02	<0.02	<0.02	<0.02	<0.02
77342	— n-Butylbenzene	0.02	<0.02	<0.02	1.6 ^f	0.12
77350	— sec-Butylbenzene	0.04	<0.04	<0.04	2.2 ^f	0.24
77353	— tert-Butylbenzene	0.02	<0.02	0.16	1.0 ^f	0.08
32102	Carbon tetrachloride	0.02	<0.02	<0.02	<0.02	<0.02
34301	Chlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34306	Chlorodibromomethane	0.02	<0.02	<0.02	<0.02	<0.02
34311	⊗ Chloroethane	0.02	<0.02	<0.02	0.02	<0.02
32106	Chloroform	0.02	<0.02	<0.02	<0.02	<0.02
34418	Chloromethane	0.02	<0.02	<0.02	<0.02	<0.02
77275	2-Chlorotoluene	0.02	<0.02	<0.02	<0.02	<0.02
77277	4-Chlorotoluene	0.02	<0.02	<0.02	<0.02	<0.02
38437	1,2-Dibromo-3-chloroprop	0.02	<0.02	<0.02	<0.02	<0.02
77651	1,2-Dibromoethane	0.02	<0.02	<0.02	<0.02	<0.02
77596	Dibromoethane	0.02	<0.02	<0.02	<0.02	<0.02

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WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: A3264

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163

DATE: April 5, 1994
 PURCHASE ORDER:
 SEI NO: WL9797
 DATE COLLECTED: 03/15/94
 DATE RECEIVED: 03/15/94
 DATE ANALYZED: 03/21/94

Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID	9797-13	9797-14	9797-15	9797-16
		Sample ID	SP4-3	SP4-4	SP4-5	SP4-6
		POL				
EPA Method 8021						
34536	1,2-Dichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34566	1,3-Dichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34571	1,4-Dichlorobenzene	0.03	<0.03	<0.03	<0.03	<0.03
34668	Dichlorodifluoromethane	0.02	<0.02	<0.02	<0.02	<0.02
34496	1,1-Dichloroethane	0.03	<0.03	<0.03	<0.03	<0.03
32103	1,2-Dichloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34501	1,1-Dichloroethene	0.02	<0.02	<0.02	<0.02	<0.02
77093	cis-1,2-Dichloroethene	0.03	<0.03	<0.03	<0.03	<0.03
34546	trans-1,2-Dichloroethene	0.03	<0.03	<0.03	<0.03	<0.03
34541	1,2-Dichloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77173	1,3-Dichloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77170	2,2-Dichloropropane	0.03	<0.03	<0.03	<0.03	<0.03
77168	1,1-Dichloropropene	0.02	<0.02	<0.02	<0.02	<0.02
34704	cis-1,3-Dichloropropene	0.02	<0.02	<0.02	<0.02	<0.02
34699	trans-1,3-Dichloropropene	0.02	<0.02	<0.02	<0.02	<0.02
78113	Ethylbenzene	0.02	<0.02	<0.02	0.06	0.08
34391	Hexachlorobutadiene	0.03	<0.03	<0.03	<0.03	<0.03
77223	Isopropylbenzene	0.02	<0.02	<0.02	<0.02	<0.02
77356	p-Isopropyltoluene	0.02	<0.02	<0.02	0.19	<0.02
34423	Methylene chloride	0.05	<0.05	<0.05	0.10	0.06
34656	Naphthalene	0.03	<0.03	<0.03	0.08	<0.03

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ANALYTICAL REPORT

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Triad Engineering, Inc.
 325 East Chicago Street
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Attn: Mr. Rick Binder
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DATE: April 5, 1994
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 SEI NO: WL9797
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Matrix: Soil
 Source: Chrysler

Units: mg/kg (ppm)

DNR #	Analyte	SEI ID	9797-13	9797-14	9797-15	9797-16
		Sample ID	SP4-3	SP4-4	SP4-5	SP4-6
		PQL				
EPA Method 8021						
77224	n-Propylbenzene	0.03	<0.03	0.04	2.2 ^f	1.6 ^f
77128	Styrene	0.03	<0.03	<0.03	<0.03	<0.03
77562	1,1,1,2-Tetrachloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34516	1,1,2,2-Tetrachloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34475	Tetrachloroethene	0.02	<0.02	<0.02	<0.02	<0.02
78131	Toluene	0.02	<0.02	<0.02	<0.02	<0.02
77613	1,2,3-Trichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34551	1,2,4-Trichlorobenzene	0.02	<0.02	<0.02	<0.02	<0.02
34506	1,1,1-Trichloroethane	0.02	<0.02	<0.02	<0.02	<0.02
34511	1,1,2-Trichloroethane	0.02	<0.02	<0.02	<0.02	<0.02
39180	Trichloroethene	0.02	0.02	<0.02	<0.02	<0.02
34488	Trichlorofluoromethane	0.02	<0.02	<0.02	<0.02	<0.02
77443	1,2,3-Trichloropropane	0.02	<0.02	<0.02	<0.02	<0.02
77222	1,2,4-Trimethylbenzene	0.04	<0.04	0.25	<0.04	0.06
77226	1,3,5-Trimethylbenzene	0.02	<0.02	<0.02	<0.02	<0.02
39175	Vinyl Chloride	0.02	<0.02	<0.02	<0.02	<0.02
77135	o-Xylenes	0.02	<0.02	<0.02	0.15	0.13
85795	m & p Xylenes	0.02	<0.02	<0.02	<0.02	<0.02

^f Elevated detection limits due to high analyte concentration: a 10x dilution necessary.

Clark J. Crosby / p
 Clark J. Crosby
 Laboratory Manager

CHAIN OF CUSTODY RECORD

NO.		PROJECT NAME		TEST PARAMETERS										SAMPLE TYPE	
3163		CHRYSLER		<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">VOC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PRD</div> </div>										(Specify groundwater, soil, wastewater, sludge, etc.)	
ANALYZERS:															NO. OF CONTAINERS
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION										
SP1-1	3/15/79	1350		X	SOIL PILE # 1 (N) END	2	X	X							
SP1-2	"			X	" " " CENTER	2	X	X							
SP1-3	"			X	" " " (S) END	2	X	X							
SP2-1	"			X	SOIL PILE # 2 (N) END	2	X	X							
SP2-2	"			X	" " " CENTER	2	X	X							
SP2-3	"			X	" " " (S) END	2	X	X							
SP3-1	"			X	SOIL PILE # 3 (N) END	2	X	X							
SP3-2	"			X	" " " (N) CENTER	2	X	X							
SP3-3	"			X	" " " (S) CENTER	2	X	X							
SP3-4	"			X	" " " (S) END	2	X	X							
SP4-1	"			X	SOIL PILE # 4	2	X	X							
SP4-2	"			X	" " "	2	X	X							
SP4-3	"			X	" " "	2	X	X							

CONDITION: ALL CONTAINER LIDS ARE WRITTEN ON (SOUTH) END OF PLANT PROPERTY (EAST) END. ALL GRAB LIDS INCLUDE COVER

SAMPLE LOCATION: (SOUTH) END OF PLANT PROPERTY (EAST)

RELINQUISHED BY: <i>[Signature]</i>	DATE / TIME: 1	RELINQUISHED BY:	DATE / TIME: 1	SPECIAL REQUESTS:
RECEIVED BY: <i>[Signature]</i>	DATE / TIME: 7/17/79	RECEIVED BY:	DATE / TIME: 1	

REPORT TO:
 NAME: RICK BINDER
 ADDRESS: TRIAD
 PHONE:

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



SWANSON ENVIRONMENTAL INC.

CHAIN OF CUSTODY RECORD

NO. PROJECT NAME		TEST PARAMETERS										SAMPLE TYPE (Specify groundwater, soil, wastewater, sludge, etc.)					
ERS: JANSEN / TIM TOBIN		/ / / / / / / / / / / /															
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOC	DRD									
P4-4	1/15/14	1520		/	SOIL PIE # 4	2	X	X									
P4-5	"	1530		X	" "	2	X	X									
P4-6	"	1540		X	" "	2	X	X									

CONDITION: VOC: DRD CONTAINER LTL ARE WRITTEN IN GRAB - IT INCLUDES COVER

SAMPLE LOCATION: SOUTHEAST END OF PLANT PROPERTY

QUISHED BY: [Signature]	DATE / TIME: [Blank]	RELINQUISHED BY:	DATE / TIME: [Blank]
VED BY: [Signature]	DATE / TIME: [Blank]	RECEIVED BY:	DATE / TIME: [Blank]

SPECIAL REQUESTS:

REPORT TO: NAME: RICK BINDER ADDRESS: TRIAD PHONE:



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

SWANSON ENVIRONMENTAL INC.

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



ANALYTICAL REPORT

REPORT NUMBER: A3435

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163.002

DATE: April 22, 1994
 PURCHASE ORDER:
 SEI NO: WL9848
 DATE COLLECTED: 03/18/94
 DATE RECEIVED: 03/21/94

Matrix: Soil
 Source: Chrysler - Kenosha

DATE EXTRACTED
 DRO - 03/21/94

Units: mg/kg (ppm)

DATE ANALYZED
 DRO - 03/25/94

<u>DNR #</u>	<u>Analyte</u>	SEI ID Sample ID <u>PQL</u>	9848-5 <u>Soil Pile</u>
	WDNR Modified Method DRO		
78919	DRO		3,110 ^f

^d Baseline raised, outside DRO window.

^e Elevated detection limits due to high analyte concentration; a 110x dilution necessary.

^f Elevated detection limits due to high analyte concentration; a 11x dilution necessary.

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 Brookfield, Wisconsin 53045
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 FAX (414) 783-5752



ANALYTICAL REPORT

REPORT NUMBER: A3435

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163.002

DATE: April 22, 1994
 PURCHASE ORDER:
 SEI NO: WL9848
 DATE COLLECTED: 03/18/94
 DATE RECEIVED: 03/21/94
 DATE ANALYZED: 03/29/94

Matrix: Soil
 Source: Chrysler - Kenosha

Units: mg/kg (ppm)

<u>DNR #</u>	<u>Analyte</u>	<u>SEI ID</u> <u>Sample ID</u> <u>PQL</u>	<u>9848-5a</u> <u>Soil File</u>
EPA Method 8021			
78124	Benzene	0.02	<0.2
81555	Bromobenzene	0.02	<0.2
77297	Bromochloromethane	0.02	<0.2
32101	Bromodichloromethane	0.02	<0.2
32104	Bromoform	0.02	<0.2
14413	Bromomethane	0.02	<0.2
77342	n-Butylbenzene	0.02	4.7
77350	sec-Butylbenzene	0.04	1.6
77353	tert-Butylbenzene	0.02	<0.2
32102	Carbon tetrachloride	0.02	<0.2
34301	Chlorobenzene	0.02	<0.2
34306	Chlorodibromomethane	0.02	<0.2
34311	Chloroethane	0.02	<0.2
32106	Chloroform	0.02	<0.2
34418	Chloromethane	0.02	<0.2
77275	2-Chlorotoluene	0.02	<0.2
77277	4-Chlorotoluene	0.02	<0.2
38437	1,2-Dibromo-3-chloropropane	0.02	<0.2
77651	1,2-Dibromoethane	0.02	<0.2
77596	Dibromomethane	0.02	<0.2



ANALYTICAL REPORT

REPORT NUMBER: A3435

Triad Engineering, Inc.
325 East Chicago Street
Milwaukee, WI 53202Attn: Mr. Rick Binder
Project #W943163.002DATE: April 22, 1994
PURCHASE ORDER:
SEI NO: WL9848
DATE COLLECTED: 03/18/94
DATE RECEIVED: 03/21/94
DATE ANALYZED: 03/29/94Matrix: Soil
Source: Chrysler - Kenosha

Units: mg/kg (ppm)

<u>DNR #</u>	<u>Analyte</u>	<u>SEI ID</u> <u>Sample ID</u> <u>PQL</u>	<u>9848-5a</u> <u>Soil Pile</u>
EPA Method 8021			
34536	1,2-Dichlorobenzene	0.02	<0.2
34566	1,3-Dichlorobenzene	0.02	<0.2
34571	1,4-Dichlorobenzene	0.03	<0.3
34668	Dichlorodifluoromethane	0.02	<0.2
34496	1,1-Dichloroethane	0.03	<0.3
32103	1,2-Dichloroethane	0.02	<0.2
34501	1,1-Dichloroethene	0.02	<0.2
77093	cis-1,2-Dichloroethene	0.03	<0.3
34546	trans-1,2-Dichloroethene	0.03	<0.3
34541	1,2-Dichloropropane	0.02	<0.2
77173	1,3-Dichloropropane	0.02	<0.2
77170	2,2-Dichloropropane	0.03	<0.3
77168	1,1-Dichloropropene	0.02	<0.2
34704	cis-1,3-Dichloropropene	0.02	<0.2
34699	trans-1,3-Dichloropropene	0.02	<0.2
78113	- Ethylbenzene	0.02	2.0
34391	Hexachlorobutadiene	0.03	<0.3
77223	- Isopropylbenzene	0.02	0.5
77356	- p-Isopropyltoluene	0.02	0.8
34423	Methylene chloride	0.05	<0.5
34696	- Naphthalene	0.03	4.7

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WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: A3435

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #W943163.002

DATE: April 22, 1994
 PURCHASE ORDER:
 SEI NO: WL9848
 DATE COLLECTED: 03/18/94
 DATE RECEIVED: 03/21/94
 DATE ANALYZED: 03/29/94

Matrix: Soil
 Source: Chrysler - Kenosha

Units: mg/kg (ppm)

<u>DNR #</u>	<u>Analyte</u>	<u>SEI ID</u> <u>Sample ID</u> <u>POL</u>	<u>9848-5^a</u> <u>Soil Pile</u>
EPA Method 8021			
77224	n-Propylbenzene	0.03	4.8
77128	Styrene	0.03	<0.3
77562	1,1,1,2-Tetrachloroethane	0.02	<0.2
34516	1,1,2,2-Tetrachloroethane	0.02	<0.2
34475	Tetrachloroethene	0.02	<0.2
78131	Toluene	0.02	<0.2
77613	1,2,3-Trichlorobenzene	0.02	<0.2
34551	1,2,4-Trichlorobenzene	0.02	<0.2
34506	1,1,1-Trichloroethane	0.02	<0.2
34511	1,1,2-Trichloroethane	0.02	<0.2
39180	Trichloroethene	0.02	<0.2
34488	Trichlorofluoromethane	0.02	0.6
77443	1,2,3-Trichloropropane	0.02	<0.2
77222	1,2,4-Trimethylbenzene	0.04	0.9
77226	1,3,5-Trimethylbenzene	0.02	<0.2
39175	Vinyl Chloride	0.02	<0.2
77135	o-Xylenes	0.02	1.1
85795	m & p Xylenes	0.02	<0.2

- ^a Elevated detection limits due to high analyte concentration; a 10x dilution necessary.
^b Elevated detection limits due to high analyte concentration; a 20x dilution necessary.
^c Elevated detection limits due to high analyte concentration; a 200x dilution necessary.

Clark J. Crosby
 Laboratory Manager



PROJECT

May 17, 1994

Mr. John P. Bugno
Site Administrator/Wisconsin Operations Manager
Chrysler Corporation
5555 30th Avenue
Kenosha, Wisconsin 53144-2800

RE: Soil Disposal
Monitoring Well Abandonment/Replacement
Chrysler Corporation Kenosha Main Plant
Triad Engineering Project No. W943163

Dear Jack:

This letter is to inform you that 10 55-gallon Department of Transportation-approved drums containing soil generated during the abandonment and/or replacement of monitoring wells, MW-3, MW-5, MW-11C, MW-15 and MW-24A have been removed from the Kenosha Main Plant Site and adjacent properties. Drum removal/transport and disposal was performed by Bane-Nelson under the supervision of Triad personnel.

Analytical results of soil and groundwater samples corresponding to soils contained in the drums are attached. The analytical results were compared with analytical results of soil samples from existing storm sewer excavation soil piles (Figure 1). The soil in each drum was placed onto the respective soil pile with soils containing similar compounds.

<u>Location</u>	<u>Quantity of Drums</u>	<u>Disposition</u>
MW-3 (abandoned)	1	Soil Pile 5
MW-5 (replaced)	2	Soil Pile 4
MW-11C (replaced)	3	Soil Pile 1
MW-15 (abandoned)	2	Soil Pile 2 (clean soil)
MW-24A (abandoned)	2	Soil Pile 2 (clean soil)

The empty drums were disposed by Bane-Nelson. The enclosed data will be used to supplement Triads May 2, 1994, letter to Greg Rose regarding stockpiled soil characterization and evaluation of Disposal/Treatment Alternatives.

325 east chicago street
milwaukee, wisconsin 53202
414/291-8840
fax: 414/291-8841



Mr. John P. Bugno
May 17, 1994
Page 2

We trust this information meets your needs. If you have any questions or comments, please feel free to call.

Sincerely,

TRIAD ENGINEERING INC.

A handwritten signature in cursive script, appearing to read 'Richard J. Binder'.

Richard J. Binder, P.G.
Project Manager

TRIAD ENGINEERING INC.

A handwritten signature in cursive script, appearing to read 'Valerie A. Jansen'.

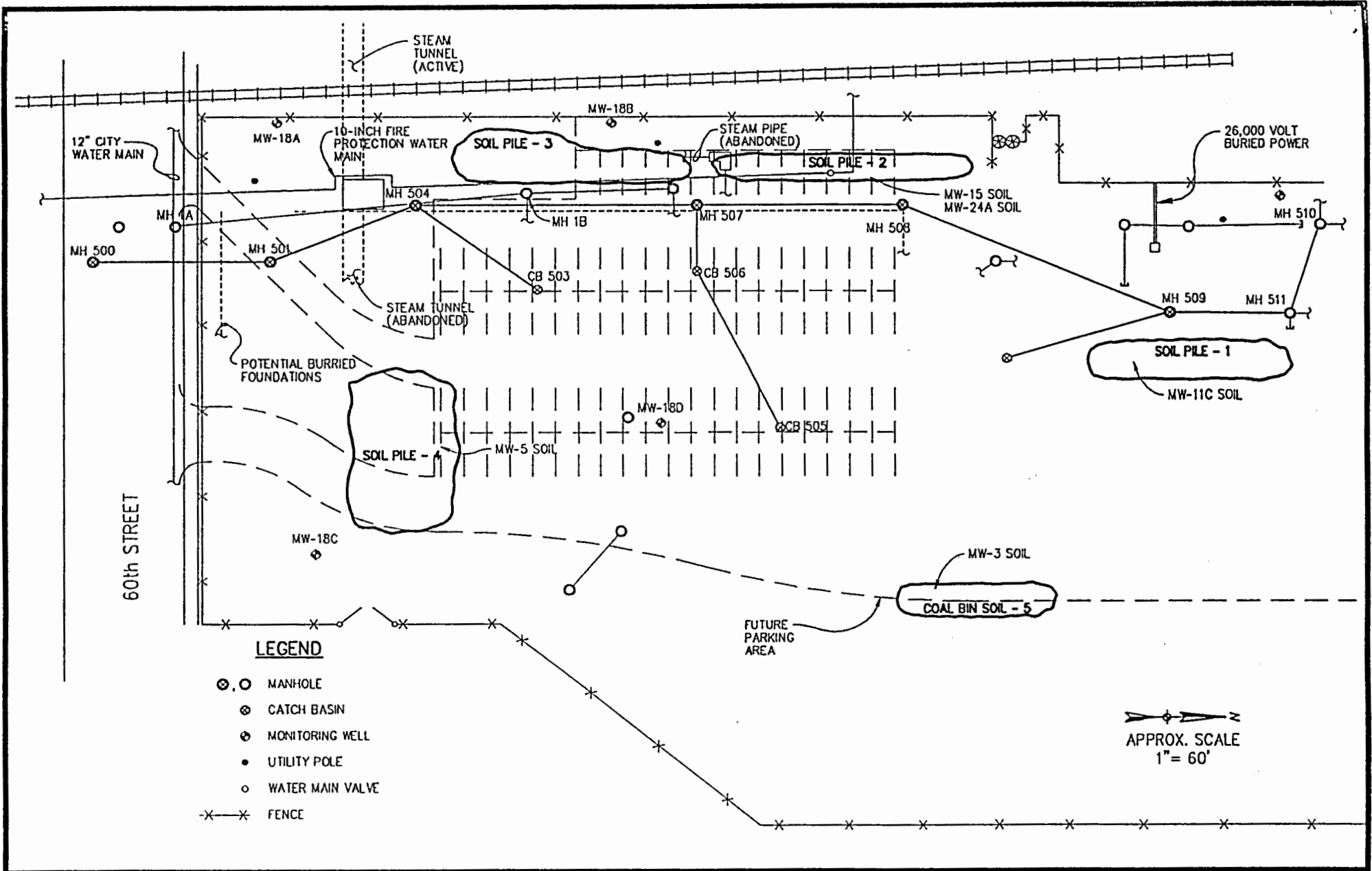
Valerie A. Jansen
Project Hydrogeologist

RJB:klb

W9431631943163.0081943163-B

Enclosures

cc: Greg Rose, Chrysler\Environmental and Energy Affairs



LEGEND

- ⊙ ○ MANHOLE
- ⊙ ○ CATCH BASIN
- ⊙ ○ MONITORING WELL
- ○ UTILITY POLE
- ○ WATER MAIN VALVE
- x-x- FENCE

APPROX. SCALE
1" = 60'

FIGURE 1
CHRYSLER KENOSHA MAIN PLANT
SOIL PILE AND MONITORING WELL ABANDONMENT/
REPLACEMENT SOIL DISPOSAL LOCATIONS

LABORATORY DOCUMENTATION

MW-3

Table 5-10. Summary of Detected Constituents in Soil Samples, Kenosha Main Plant, Area 4 (Cont'd)

Parameter	MP-9B			MP-9C			MP-9D			MW-3	
	0-5'	5-10'	10-15'	0-5'	5-10'	10-15'	0-5'	5-10'	10-15'	0-5'	5-10'
Cadmium (0.5)	8.4	2.2	0.9	3.1	0.9	ND	3.3	1.5	0.8	4.7	1.3
Chromium (1)	23	17	5	20	6	4	20	8	5	17	9
Lead	21	18	3	44	6	4	49	10	18	60	17
Nickel (1)	30	15	7	20	6	5	17	9	7	18	13
Zinc (1)	728	43	41	96	39	26	82	40	42	116	73
Oil & Grease (20)	1360	40	20	420	210	ND	230	ND	70	7910	2240

Base/Neutral Extractables

Acenaphthene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Anthracene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	ND
Benzo(a)anthracene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND
Benzo(b)fluoranthene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	ND
Benzo(k)fluoranthene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND
Benzo(a)pyrene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	ND
Bis(2-ethylhexyl)phthalate (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	ND
Chrysene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND
Di-n-butylphthalate (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND
1,2 - Dichlorobenzene (1)	ND	1	1.6	ND	ND	ND	ND	ND	ND	1	1
Fluoranthene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND
Fluorene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	ND
Naphthalene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	5
Phenanthrene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	29	10
Pyrene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	22	3
Total BNAs	ND	1	1.6	ND	ND	ND	ND	ND	ND	134	20

VOCs

Acetone (5.0)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene (0.05)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28
1,1-Dichloroethane (0.05)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloroethene (0.05)	ND	ND	ND	ND	ND	ND	ND	ND	0.06	ND	ND
Ethylbenzene (0.05)	ND	ND	ND	3.50	0.77	ND	ND	ND	ND	0.07	3.15
Methylene chloride (0.05)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (0.05)	ND	ND	ND	0.74	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (0.05)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (0.05)	ND	ND	ND	0.38	ND	ND	ND	ND	ND	ND	ND
Toluene (0.05)	ND	ND	ND	0.40	ND	ND	ND	ND	ND	ND	ND
Xylenes (0.05)	ND	ND	ND	18.76	0.17	ND	ND	ND	ND	0.49	16.44
Total VOCs	ND	ND	ND	23.78	0.94	ND	ND	ND	0.06	0.56	19.87

NOTE: All values in milligrams per kilogram (mg/kg)

() = Detection Limit (mg/kg)

ND = Not Detected

Borehole locations are depicted on Figure 5-5



ANALYTICAL REPORT

REPORT NUMBER: B8450

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 14, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9707
 DATE COLLECTED: 05/22-24/89
 DATE RECEIVED: 05/24/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 0.05, unless otherwise noted below in ()

	SEI ID	9707-6	9707-7	9707-8	9707-9	9707-10
		05/22	05/22	05/22	05/22	05/16
VOLATILES		MP3D-2	MW1-1	MW1-2	MW1-3	MW3-1
(Purge & Trap)	Sample ID	5-10'	0-5'	5-10'	10-15'	0-5'
Acetone (5.0)		ND	ND	ND	ND	ND
Benzene		ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND
Carbon tetrachloride		ND	ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND
2-Chloroethylvinylether		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND
trans-1,3-Dichloroethene		ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND
Ethylbenzene		ND	ND	ND	ND	0.07

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

3150 North Brookfield Road
 Brookfield, Wisconsin 53005
 telephone (414) 783-6111
 facsimile (414) 783-5752



AIHA Accreditation #352
 WDNR Certification #26818170

REPORT NUMBER: B8450

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 14, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9707
 DATE COLLECTED: 05/22-24/89
 DATE RECEIVED: 05/24/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 0.05, unless otherwise noted below in ()

	SEI ID	9707-6	9707-7	9707-8	9707-9	9707-10
		05/22	05/22	05/22	05/22	05/16
VOLATILES		MP3D-2	MW1-1	MW1-2	MW1-3	MW3-1
(Purge & Trap)	Sample ID	5-10'	0-5'	5-10'	10-15'	0-5'
Methylene chloride		0.05	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	0.07	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND
Toluene		ND	ND	ND	ND	ND
Vinyl chloride		ND	ND	ND	ND	ND
Xylenes		ND	ND	ND	ND	0.49

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

3150 North Brookfield Road
 Brookfield, Wisconsin 53005
 telephone (414) 783-6111
 facsimile (414) 783-5752



AIHA Accreditation #352
 WDNR Certification #26818170

ANALYTICAL REPORT

REPORT NUMBER: 88450

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 14, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9707
 DATE COLLECTED: 05/22-24/89
 DATE RECEIVED: 05/24/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 2, unless otherwise noted below in ()

	SEI ID	9707-6	9707-7	9707-8	9707-9	9707-10
		05/22	05/22	05/22	05/22	05/22
ACID		MP3D-2	MW1-1	MW1-2	MW1-3	MW3-1
EXTRACTABLES	Sample ID	5-10'	0-5'	5-10'	10-15'	0-5'
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND
2,4-Dinitrophenol (20)		ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol (20)		ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND
Pentachlorophenol		ND	ND	ND	ND	ND
Phenol		ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

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 Brookfield, Wisconsin 53005
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AIHA Accreditation #352
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ANALYTICAL REPORT

REPORT NUMBER: B8450

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 14, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9707
 DATE COLLECTED: 05/22-24/89
 DATE RECEIVED: 05/24/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 0.05, unless otherwise noted below in ()

	SEI ID	9707-11	9707-12	9707-13	9707-14	9707-15
		05/22	05/22	05/22	05/22	05/22
		MW3-2	MP7A-1	MP7A-2	MP7B-1	MP7B-2
VOLATILES (Purge & Trap)	Sample ID	5-10'	0-5'	5-10'	0-5'	5-10'
Acetone (5.0)		ND	ND	ND	ND	ND
Benzene		0.28	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND
Carbon tetrachloride		ND	ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND
2-Chloroethylvinylether		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	0.16	ND	ND	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND
trans-1,3-Dichloroethene		ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND
Ethylbenzene		3.15	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #26818170

REPORT NUMBER: 88450

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 14, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9707
 DATE COLLECTED: 05/22-24/89
 DATE RECEIVED: 05/24/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 0.05, unless otherwise noted below in ()

	SEI ID	9707-11	9707-12	9707-13	9707-14	9707-15
		05/22	05/22	05/22	05/22	05/22
VOLATILES		MW3-2	MP7A-1	MP7A-2	MP7B-1	MP7B-2
(Purge & Trap)	Sample ID	5-10'	0-5'	5-10'	0-5'	5-10'
Methylene chloride		ND	ND	0.05	0.05	0.05
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND
Toluene		ND	ND	ND	ND	ND
Vinyl chloride		ND	ND	ND	ND	ND
Xylenes		16.44	0.10	ND	0.19	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #26818170

REPORT NUMBER: B8450

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 14, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9707
 DATE COLLECTED: 05/22-24/89
 DATE RECEIVED: 05/24/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 0.05, unless otherwise noted below in ()

	SEI ID	9707-11	9707-12	9707-13	9707-14	9707-15
		05/22	05/22	05/22	05/22	05/22
VOLATILES		MW3-2	MP7A-1	MP7A-2	MP7B-1	MP7B-2
(Purge & Trap)	Sample ID	5-10'	0-5'	5-10'	0-5'	5-10'
Methylene chloride		ND	ND	0.05	0.05	0.05
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND
Toluene		ND	ND	ND	ND	ND
Vinyl chloride		ND	ND	ND	ND	ND
Xylenes		16.44	0.10	ND	0.19	ND

ND--Not Detected

Reviewed & Approved by:

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AIHA Accreditation #352
 WDNR Certification #26818170

ANALYTICAL REPORT

REPORT NUMBER: 88450

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 14, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9707
 DATE COLLECTED: 05/22-24/89
 DATE RECEIVED: 05/24/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)
 Detection Limit: Noted below in ()

Parameter	Sample ID	SEI ID	9707-1	9707-2	9707-3	9707-4	9707-5
			05/22 MP3B-1 0-5'	05/22 MP3B-2 5-10'	05/22 MP3C-1 0-5'	05/22 MP3C-2 5-10'	05/22 MP3D-1 0-5'
Cadmium (0.5)			3.5	0.9	1.6	1.1	2.2
Chromium (1)			11	6	9	7	16
Lead (3)			21	7	16	7	20
Nickel (1)			18	8	10	8	15
Zinc (1)			57	37	50	50	48
Oil & Grease* (20)			ND	80	ND	20	50
Total PCB's** (1.0)			ND	ND	ND	ND	ND

Parameter	Sample ID	SEI ID	9707-6	9707-7	9707-8	9707-9	9707-10
			05/22 MP3D-2 5-10'	05/22 MW1-1 0-5'	05/22 MW1-2 5-10'	05/22 MW1-3 10-15'	05/22 MW3-1 0-5'
Cadmium (0.5)			0.9	1.3	1.2	1.1	4.7
Chromium (1)			6	7	6	17	17
Lead (3)			7	12	9	2	60
Nickel (1)			8	6	9	6	18
Zinc (1)			44	21	46	40	116
Oil & Grease* (20)			ND	100	ND	40	7910
Total PCB's** (1.0)			ND	ND	ND	ND	ND

* Method 503E.
 ** Concentration of Total PCB's based on response of Arochlor 1242, 1248, 1254, and 1260.

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

ND--Not Detected

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AIHA Accreditation #352
 WDNR Certification #26818170

REPORT NUMBER: 88450

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 14, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9707
 DATE COLLECTED: 05/22-24/89
 DATE RECEIVED: 05/24/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)
 Detection Limit: Noted below in ()

	SEI ID	9707-11	9707-12	9707-13	9707-14	9707-15
		05/22	05/22	05/22	05/22	05/22
		MW3-2	MP7A-1	MP7A-2	MP7B-1	MP7B-2
<u>Parameter</u>	<u>Sample ID</u>	<u>5-10'</u>	<u>0-5'</u>	<u>5-10'</u>	<u>0-5'</u>	<u>5-10'</u>
Cadmium (0.5)		1.3	1.5	1.3	4.7	0.9
Chromium (1)		9	9	7	24	6
Lead (3)		17	20	8	293	9
Nickel (1)		13	12	7	26	8
Zinc (1)		73	62	39	401	52
Oil & Grease* (20)		2240	11570	120	2090	100
Total PCB's** (1.0)		ND	ND	ND	ND	ND

	SEI ID	9707-16	9707-17	9707-18	9707-19	9707-20
		05/22	05/22	05/23	05/23	05/23
		MP7C-1	MP7C-2	MP8A-1	MP8A-2	MP8B-1
<u>Parameter</u>	<u>Sample ID</u>	<u>0-5'</u>	<u>5-10'</u>	<u>0-5'</u>	<u>5-10'</u>	<u>0-5'</u>
Cadmium (0.5)		1.5	0.9	1.0	0.9	1.3
Chromium (1)		9	8	15	8	7
Lead (3)		8	8	16	9	11
Nickel (1)		9	8	11	6	7
Zinc (1)		38	42	43	41	41
Oil & Grease* (20)		4620	90	7660	1950	90
Total PCB's** (1.0)		ND	ND	7.0	ND	ND

* Method 503E.

** Concentration of Total PCB's based on response of Arochlor 1242, 1248, 1254, and 1260.

Reviewed & Approved by:

ND--Not Detected

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #26818170

ANALYTICAL REPORT

REPORT NUMBER: 88450

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 14, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9707
 DATE COLLECTED: See Below
 DATE RECEIVED: 05/24/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 1, unless otherwise noted below in ()

	SEI ID	9707-6	9707-7	9707-8	9707-9	9707-10
		05/22	05/22	05/22	05/22	05/22
BASE/NEUTRAL		MP3D-2	MW1-1	MW1-2	MW1-3	MW3-1
EXTRACTABLES	Sample ID	5-10'	0-5'	5-10'	10-15'	0-5'
Acenaphthene		ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	4
Anthracene		ND	ND	ND	ND	3
Benzidine (10)		ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	9
Benzo(b)fluoranthene		ND	ND	ND	ND	7
Benzo(k)fluoranthene		ND	ND	ND	ND	8
Benzo(a)pyrene		ND	ND	ND	ND	8
Benzyl butyl phthalate		ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate		ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	11
Di-n-butylphthalate		ND	ND	ND	ND	1
1,2-Dichlorobenzene		ND	ND	1	2	1
1,3-Dichlorobenzene		ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

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AIHA Accreditation #352
 WDNR Certification #26818170

ANALYTICAL REPORT

REPORT NUMBER: 88450

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 14, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9707
 DATE COLLECTED: See Below
 DATE RECEIVED: 05/24/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 1, unless otherwise noted below in ()

	SEI ID	9707-6	9707-7	9707-8	9707-9	9707-10
		05/22	05/22	05/22	05/22	05/22
BASE/NEUTRAL EXTRACTABLES	Sample ID	MP3D-2	MW1-1	MW1-2	MW1-3	MW3-1
		5-10'	0-5'	5-10'	10-15'	0-5'
Diethyl phthalate		ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND
2,4-Dinitrotoluene (2)		ND	ND	ND	ND	ND
2,6-Dinitrotoluene (2)		ND	ND	ND	ND	ND
Di-n-octylphthalate		ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND	15
Fluorene		ND	ND	ND	ND	5
Hexachlorobenzene		ND	ND	ND	ND	ND
Hexachlorobutadiene (10)		ND	ND	ND	ND	ND
Hexachlorocyclopentadiene (10)		ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND
Naphthalene		ND	ND	ND	ND	11
Nitrobenzene		ND	ND	ND	ND	ND
n-Nitrosodimethylamine (100)		ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine (100)		ND	ND	ND	ND	ND
n-Nitrosodiphenylamine (50)		ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	29
Pyrene		ND	ND	ND	ND	22
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #26818170

ANALYTICAL REPORT

REPORT NUMBER: B8450

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251F09533)

DATE: July 14, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9707
 DATE COLLECTED: See Below
 DATE RECEIVED: 05/24/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 1, unless otherwise noted below in ()

	SEI ID	9707-11	9707-12	9707-13	9707-14	9707-15
		05/22	05/22	05/22	05/22	05/22
BASE/NEUTRAL		MW3-2	MP7A-1	MP7A-2	MP7B-1	MP7B-2
EXTRACTABLES	Sample ID	5-10'	0-5'	5-10'	0-5'	5-10'
Acenaphthene		1	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	5	ND
Benidine (10)		ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	2	ND
Benzo(a)pyrene		ND	ND	ND	2	ND
Benzyl butyl phthalate		ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate		ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	2	ND
Di-n-butylphthalate		ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	1	ND	ND
1,3-Dichlorobenzene)		ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

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AIHA Accreditation = 352
 WDNR Certification = 26818170

ANALYTICAL REPORT

REPORT NUMBER: 88450

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 14, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9707
 DATE COLLECTED: See Below
 DATE RECEIVED: 05/24/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 1, unless otherwise noted below in ()

	SEI ID	9707-11	9707-12	9707-13	9707-14	9707-15
		05/22	05/22	05/22	05/22	05/22
BASE/NEUTRAL EXTRACTABLES	Sample ID	MW3-2	MP7A-1	MP7A-2	MP7B-1	MP7B-2
		5-10'	0-5'	5-10'	0-5'	5-10'
Diethyl phthalate		ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND
2,4-Dinitrotoluene (2)		ND	ND	ND	ND	ND
2,6-Dinitrotoluene (2)		ND	ND	ND	ND	ND
Di-n-octylphthalate		ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	4	ND
Fluorene		ND	ND	ND	1	ND
Hexachlorobenzene		ND	ND	ND	ND	ND
Hexachlorobutadiene (10)		ND	ND	ND	ND	ND
Hexachlorocyclopentadiene (10)		ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND
Naphthalene		5	ND	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND
n-Nitrosodimethylamine (100)		ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine (100)		ND	ND	ND	ND	ND
n-Nitrosodiphenylamine (50)		ND	ND	ND	ND	ND
Phenanthrene		10	ND	ND	ND	ND
Pyrene		3	ND	ND	3	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

Table 5-5. SUMMARY OF DETECTED CONSTITUENTS IN GROUND-WATER SAMPLES, KENOSHA MAIN PLANT

Parameter	MW-1	MW-2	MW-3	MW-4	Dup. MW-2 MW-5*	Field Blank MW-6#	Trip Blank	NR140***	
								ES	PAL
Total Cadmium (0.0002)	ND*	0.0008*	0.0080*	0.0002*	0.0110*	ND*	--	0.010	0.001
Total Chromium (0.001)	0.019*	0.056*	0.10*	0.077*	0.12*	0.003*	--	0.050	0.005
Total Lead (0.001)	0.015*	0.034*	0.14*	0.023*	0.13*	0.002*	--	0.050	0.005
Total Nickel (0.02)	ND*	0.06*	0.13*	0.04*	0.11*	ND*	--	**	**
Total Zinc (0.02)	0.09*	0.28*	0.94*	0.22*	0.55*	0.74*	--	5.0	2.5
Cyanides (0.005)	ND*	ND*	0.008*	ND*	ND*	ND*	--	0.200	0.040
Oil & Grease* (1)	ND	ND	364	ND	ND	5	5	**	**
Phenols (0.005)	ND	0.015	0.049	ND	ND	0.020	--	**	**
<u>Volatiles</u>									
Xylenes (0.001)	ND	ND	0.021	0.002	ND	ND	ND	0.620	0.124

NOTE:

All values in milligrams per liter (mg/l)

() = Detection Limit (mg/l)

Monitor Well locations are depicted on Figure 5-1.

ND = Not Detected

* The samples were not field filtered. Chapter NR140 of the Wisconsin Administrative Code standards are for filtered analysis and therefore, cannot be applied to this result.

** No Standards Currently Exist

*** Per Chapter NR140 of the Wisconsin Administrative Code

ES - Enforcement Standard

PAL - Preventative Action Limit

* - THE LABORATORY FIELD DUPLICATE FROM MW-2 WAS DESIGNATED AS "MW-5", MONITORING WELL MW-5 WAS NOT INSTALLED AT THE TIME OF SAMPLING.

- THE LABORATORY FIELD BLANK WAS DESIGNATED AS "MW-6" MONITORING WELL MW-6 WAS NOT INSTALLED Analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIHA Accreditation #352, WDNR Certification #26818170

AT THE TIME OF SAMPLING.

*Subsurface
site E.A.R.*

*7/28/89
ppt.*

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AIHA Accreditation #352
 WDNR Certification #26818170

ANALYTICAL REPORT

REPORT NUMBER: E8451

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 17, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9784
 DATE COLLECTED: 06/01/89
 DATE RECEIVED: 06/02/89

Groundwater Samples (Chrysler, Kenosha)

Units: mg/l (ppm)

Detection Limit: Noted below in ()

Parameter	SEI ID Sample ID	9784-1 MW-1	9784-2 MW-2	9784-3 MW-3	9784-4 MW-4	9784-5 MW-5***
Cadmium (0.0002)		ND	0.0008	0.0080	0.0002	0.0110
Chromium (0.001)		0.019	0.056	0.10	0.077	0.12
Lead (0.001)		0.015	0.034	0.14	0.023	0.13
Nickel (0.02)		ND	0.06	0.13	0.04	0.11
Zinc (0.02)		0.09	0.28	0.94	0.22	0.55
Cyanides (0.005)		ND	ND	0.008	ND	ND
Oil & Grease* (1)		ND	ND	364	ND	ND
Phenols (0.005)		ND	0.015	0.049	ND	ND
Total PCB's**, ug/l (1.0)		ND	ND	ND	ND	ND

Parameter	SEI ID Sample ID	9784-6 MW-6***	9784-7 Trip Blank
Cadmium (0.0002)		ND	--
Chromium (0.001)		0.003	--
Lead (0.001)		0.002	--
Nickel (0.02)		ND	--
Zinc (0.02)		0.74	--
Cyanides (0.005)		ND	--
Oil & Grease* (1)		5	5
Phenols (0.005)		0.020	--
Total PCB's**, ug/l (1.0)		ND	ND

* Method 503E.

** Concentration of Total PCB's based on response of Arochlor 1242, 1248, 1254, and 1260.

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

*** - DUPLICATE OF MW-2 DESIGNATED AS "MW-5", MONITORING WELL, MW-5 DID NOT EXIST AT THE TIME OF SAMPLING.

*** - FIELD BLANK DESIGNATED MW-6, MONITORING WELL MW-6 DID NOT EXIST AT THE TIME OF SAMPLING.

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AIHA Accreditation =352
 WDNR Certification =26818170

ANALYTICAL REPORT

REPORT NUMBER: 88451

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 17, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9784
 DATE COLLECTED: 06/01/89
 DATE RECEIVED: 06/02/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 20, unless otherwise noted below in ()

ACID EXTRACTABLES	SEI ID Sample ID	9784-1 MW-1	9784-2 MW-2	9784-3 MW-3	9784-4 MW-4	9784-5 MW-5***
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND
2,4-Dinitrophenol (200)		ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol (200)		ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND
Pentachlorophenol		ND	ND	ND	ND	ND
Phenol		ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND

ACID EXTRACTABLES	SEI ID Sample ID	9784-6 MW-6***	9784-7 Trip Blank
4-Chloro-3-methylphenol		ND	ND
2-Chlorophenol		ND	ND
2,4-Dichlorophenol		ND	ND
2,4-Dimethylphenol		ND	ND
2,4-Dinitrophenol (200)		ND	ND
2-Methyl-4,6-dinitrophenol (200)		ND	ND
2-Nitrophenol		ND	ND
4-Nitrophenol		ND	ND
Pentachlorophenol		ND	ND
Phenol		ND	ND
2,4,6-Trichlorophenol		ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

***-DUPLICATE OF MW-2 DESIGNATED AS "MW-5", MONITORING WELL, MW-5 DID NOT EXIST AT THE TIME OF SAMPLING.

****-FIELD BLANK DESIGNATED MW-6 MONITORING WELL, MW-6 DID NOT EXIST AT THE TIME OF SAMPLING.

3150 North Brookfield Road
 Brookfield, Wisconsin 53005
 telephone (414) 783-6111
 facsimile (414) 783-5752



AIHA Accreditation #352
 WDNR Certification #26818170

ANALYTICAL REPORT

REPORT NUMBER: B8451

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 17, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9784
 DATE COLLECTED: 06/01/89
 DATE RECEIVED: 06/02/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 10, unless otherwise noted below in ()

BASE/NEUTRAL EXTRACTABLES	SEI ID Sample ID	9784-1 MW-1	9784-2 MW-2	9784-3 MW-3	9784-4 MW-4	9784-5 MW-5***
Acenaphthene		ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	ND
Benzidine (100)		ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND
Benzo(a)pyrene		ND	ND	ND	ND	ND
Benzo(g,h,i)perylene (30)		ND	ND	ND	ND	ND
Benzyl butyl phthalate		ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate		ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene (30)		ND	ND	ND	ND	ND
Di-n-butylphthalate		ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

***--DUPLICATE OF MW-2 DESIGNATED AS "MW-5", MONITORING WELL, MW-5 DID NOT EXIST AT THE TIME OF SAMPLING.

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AIHA Accreditation #352
 WDNR Certification #26818170

ANALYTICAL REPORT

REPORT NUMBER: 88451

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

 Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 17, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9784
 DATE COLLECTED: 06/01/89
 DATE RECEIVED: 06/02/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)
 Detection Limit: 10, unless otherwise noted below in ()

BASE/NEUTRAL EXTRACTABLES	SEI ID Sample ID	9784-1 MW-1	9784-2 MW-2	9784-3 MW-3	9784-4 MW-4	9784-5 MW-5 ***
Diethyl phthalate		ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND
2,4-Dinitrotoluene (20)		ND	ND	ND	ND	ND
2,6-Dinitrotoluene (20)		ND	ND	ND	ND	ND
Di-n-octylphthalate		ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND
Hexachlorobutadiene (20)		ND	ND	ND	ND	ND
Hexachlorocyclopentadiene (100)		ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene (30)		ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND
Naphthalene		ND	ND	ND	ND	ND
Nitrobenzene (20)		ND	ND	ND	ND	ND
n-Nitrosodimethylamine (100)		ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine (100)		ND	ND	ND	ND	ND
n-Nitrosodiphenylamine (50)		ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

***-DUPLICATE OF MW-2 DESIGNATED AS "MW-5", MONITORING WELL, MW-5 DID NOT EXIST AT THE TIME OF SAMPLING.

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AIHA Accreditation #352
 WDNR Certification #26818170

REPORT NUMBER: B3451

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 17, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9784
 DATE COLLECTED: 06/01/89
 DATE RECEIVED: 06/02/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 10, unless otherwise noted below in ()

BASE/NEUTRAL EXTRACTABLES	SEI ID Sample ID	9784-6 MW-6	9784-7 Trip Blank
Diethyl phthalate		ND	ND
Dimethyl phthalate		ND	ND
2,4-Dinitrotoluene (20)		ND	ND
2,6-Dinitrotoluene (20)		ND	ND
Di-n-octylphthalate		ND	ND
Fluoranthene		ND	ND
Fluorene		ND	ND
Hexachlorobenzene		ND	ND
Hexachlorobutadiene (20)		ND	ND
Hexachlorocyclopentadiene (100)		ND	ND
Hexachloroethane		ND	ND
Indeno(1,2,3-cd)pyrene (30)		ND	ND
Isophorone		ND	ND
Naphthalene		ND	ND
Nitrobenzene (20)		ND	ND
n-Nitrosodimethylamine (100)		ND	ND
n-Nitrosodi-n-propylamine (100)		ND	ND
n-Nitrosodiphenylamine (50)		ND	ND
Phenanthrene		ND	ND
Pyrene		ND	ND
1,2,4-Trichlorobenzene		ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

* * * * - FIELD BLANK DESIGNATED MULTIPLE MONITORING WELL MW-6 DOES NOT EXIST AT

3150 North Brookfield Road
 Brookfield, Wisconsin 53005
 telephone (414) 783-6111
 facsimile (414) 783-5752



AIHA Accreditation #352
 WDNR Certification #26818170

ANALYTICAL REPORT

REPORT NUMBER: B8451

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

 Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 17, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9784
 DATE COLLECTED: 06/01/89
 DATE RECEIVED: 06/02/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 1, unless otherwise noted below in ()

VOLATILES (Purge & Trap)	SEI ID Sample ID	9784-1 MW-1	9784-2 MW-2	9784-3 MW-3	9784-4 MW-4	9784-5 MW-5 ***
Acetone, mg/l (0.1)		ND	ND	ND	ND	ND
Benzene		ND	ND	ND	ND	ND
Bromomethane (10)		ND	ND	ND	ND	ND
Bromodichloromethane (2)		ND	ND	ND	ND	ND
Bromoform (2)		ND	ND	ND	ND	ND
Carbon tetrachloride		ND	ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND
2-Chloroethylvinylether (4)		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Chloromethane (10)		ND	ND	ND	ND	ND
Dibromochloromethane (2)		ND	ND	ND	ND	ND
1,2-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,3-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,4-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND
trans-1,3-Dichloroethene		ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene (2)		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene (2)		ND	ND	ND	ND	ND
Ethylbenzene		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

***-DUPLICATE OF MW-2 DESIGNATED AS "MW-5", MONITORING WELL, MW-5 DID NOT EXIST AT THE TIME OF SAMPLING.

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AIHA Accreditation #352
 WDNR Certification #26818170

ANALYTICAL REPORT

REPORT NUMBER: B8451

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: July 17, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL9784
 DATE COLLECTED: 06/01/89
 DATE RECEIVED: 06/02/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 1, unless otherwise noted below in ()

VOLATILES (Purge & Trap)	SEI ID Sample ID	9784-1 MW-1	9784-2 MW-2	9784-3 MW-3	9784-4 MW-4	9784-5 MW-5***
Methylene chloride		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane (3)		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene		ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND
Vinyl chloride (10)		ND	ND	ND	ND	ND
Xylenes		ND	ND	21	2	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

***-DUPLICATE OF MW-2 DESIGNATED AS "MW-5", MONITORING WELL, MW-5 DID NOT EXIST AT THE TIME OF SAMPLING.

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: B0337

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project #251E09533)

DATE February 20, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1824
 DATE COLLECTED:
 DATE RECEIVED: 01/31/90

Groundwater Samples (Chrysler, Kenosha)

Units: mg/l (ppm)

Detection Limit: 0.02, unless otherwise noted below in ()

Parameter	SEI ID Sample ID	1824-1 MW-2	1824-2 MW-3
Total			
Cadmium (0.0002)		0.0090	0.012
Chromium (0.001)		0.21	0.022
Lead (0.001)		0.14	0.065
Nickel		0.23	ND
Zinc		0.79	0.46

Parameter	SEI ID Sample ID	1824-1 MW-2	1824-2 MW-3	1824-5 MW-23	1824-8 MW-28
Soluble					
Cadmium (0.0002)		0.0002	0.0002	0.0011	ND
Chromium (0.001)		0.001	0.001	ND	ND
Lead (0.001)		ND	ND	ND	ND
Nickel		ND	ND	ND	ND
Zinc		0.02	0.03	0.02	ND
Cyanides, Total (0.005)		--	--	ND	ND
Phenols (0.005)		--	--	ND	ND
Total PCB's*, ug/l (0.5)		--	--	ND	ND

* Concentration of Total PCB's based on response of seven Arochlors.

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B0337

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

 Attn: Mr. Rick Binder
 (Project #251E09533)

DATE February 20, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1824
 DATE COLLECTED:
 DATE RECEIVED: 01/31/90

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)
 Detection Limit: 1, unless otherwise noted below in ()

VOLATILES	SEI ID	1824-2	1824-3	1824-5	1824-6	1824-7
PURGE & TRAP	Sample ID	MW-3	MW-10	MW-23	MW-26	MW-27
Acetone (50)		--	--	ND	--	--
Benzene		ND	ND	ND	ND	ND
Bromomethane (10)		ND	ND	ND	ND	ND
Bromodichloromethane (2)		ND	ND	ND	ND	ND
Bromoform (2)		ND	ND	ND	ND	ND
Carbon tetrachloride		ND	ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND
2-Chloroethylvinylether (4)		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Chloromethane (10)		ND	ND	ND	ND	ND
Dibromochloromethane (2)		ND	ND	ND	ND	ND
1,2-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,3-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,4-Dichlorobenzene (2)		ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	11
1,2-Dichloroethane		ND	ND	ND	ND	6
1,1-Dichloroethene		ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		ND	ND	ND	ND	162
1,2-Dichloropropane		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene (2)		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene (2)		ND	ND	ND	ND	ND
Ethylbenzene		109	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

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 facsimile (414) 783-5752



AIHA Accreditation #352
 WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B0337

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project #251E09533)

DATE February 20, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1824
 DATE COLLECTED:
 DATE RECEIVED: 01/31/90

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 1, unless otherwise noted below in ()

VOLATILES	SEI ID	1824-2	1824-3	1824-5	1824-6	1824-7
<u>PURGE & TRAP</u>	<u>Sample ID</u>	<u>MW-3</u>	<u>MW-10</u>	<u>MW-23</u>	<u>MW-26</u>	<u>MW-27</u>
Methylene chloride		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane (3)		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene		ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	ND	13
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	0.5??
Trichlorofluoromethane		ND	ND	ND	ND	ND
Vinyl chloride (10)		ND	ND	ND	ND	ND
Xylenes		99	ND	ND	ND	ND
Total Petroleum Hydrocarbons, mg/l (0.2)		306.2*	ND	ND	ND	ND

* Concentration based on a fuel oil standard using the State of California Method.

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

Summary of Detected Constituents in Site Soils
Building 45-A Property

Parameters	MP-5D	MP-5E	MP-5F	MP-5G	MW5	MW-5A	MW-6	MW-6	MW-6	MP-6D	MP-6E
<u>VOCs</u>	<u>10-12'</u>	<u>12-14'</u>	<u>13-15'</u>	<u>12-14'</u>	<u>12-14'</u>	<u>14.5-16.5'</u>	<u>1-3'</u>	<u>4-6'</u>	<u>9-11'</u>	<u>9-10'</u>	<u>7-8'</u>
Benzene(0.05)	ND	ND	ND	ND	1.29	ND	ND	ND	ND	ND	0.73
Ethylbenzene (0.05)	ND	ND	ND	ND	0.18	ND	ND	ND	ND	ND	2.35
Toluene (0.05)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06
Xylene (0.05)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.18
Total Petroleum Hydrocarbons (TPH) (5)	ND	ND	ND	ND	8	ND	ND	ND	ND	ND	175

Note: All values in parts per million (ppm)
() = Detection Limit (ppm)
ND = Not Detected
VOCs = Volatile Organic Compounds

Analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, WDNR Certification #26818170.

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facsimile (414) 783-5752



ANALYTICAL REPORT

RECEIVED OCT 31 1989

AMA Accreditation #352
MDHR Certification #268181780

REPORT NUMBER: B9360

Hydro-Search, Inc.
235 Executive Drive, Suite 309
Brookfield, WI 53005

Attn: Mr. Rick Binder
(Project 251E09533)

DATE: October 30, 1989
PURCHASE ORDER:
SEI JOB NO: WL0947
DATE COLLECTED: 10/10-12/89
DATE RECEIVED: 10/13/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)
Detection Limit: 0.2

<u>SEI ID</u>	<u>Sample ID</u>	<u>Organo Lead</u>
0947-4	MW-5	ND
0947-5	MP-5F	ND
0947-6	MP-6D	ND
0947-7	MP-6E	ND
0947-8	MP-5D	ND
0947-9	MP-5E	ND
0947-10	MW-5A	ND
0947-11	MP-5G	ND
0947-12	MP-6F	ND
0947-13	MP-6G	ND

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Project # 251E09533 20001
CC: RJB

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dyeen
Rosemary L. Dyeen
Laboratory Supervisor

3150 North Brookfield Road
 Brookfield, Wisconsin 53005
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 facsimile (414) 783-5752



AHA Accreditation #352
 W.DNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9360

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

DATE: October 30, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL0947
 DATE COLLECTED: 10/10-12/89
 DATE RECEIVED: 10/13/89

Attn: Mr. Rick Binder
 (Project 251E09533)

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 0.05, unless otherwise noted below in ()

<u>SEI ID</u>	<u>Sample ID</u>	<u>Benzene</u>	<u>Ethyl- benzene</u>	<u>Toluene</u>	<u>Xylenes</u>
0947-4	MW-5	1.29	0.18	ND	ND
0947-5	MP-5F	ND	ND	ND	ND
0947-6	MP-6D	ND	ND	ND	ND
0947-7	MP-6E	0.73	2.35	0.06	29.18
0947-8	MP-5D	ND	ND	ND	ND
0947-9	MP-5E	ND	ND	ND	ND
0947-10	MW-5A	ND	ND	ND	ND
0947-11	MP-5G	ND	ND	ND	ND
0947-12	MP-6F	ND	ND	ND	ND
0947-13	MP-6G	ND	ND	ND	ND

<u>SEI ID</u>	<u>Sample ID</u>	<u>Total Petroleum Hydrocarbons (5)</u>
0947-1	MW6-1	ND
0947-2	MW6-2	ND
0947-3	MW6-3	ND
0947-4	MW-5	8
0947-5	MP-5F	ND
0947-6	MP-6D	ND
0947-7	MP-6E	175
0947-8	MP-5D	ND
0947-9	MP-5E	ND
0947-10	MW-5A	ND
0947-11	MP-5G	ND
0947-12	MP-6F	ND
0947-13	MP-6G	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dingen
 Laboratory Supervisor

ANALYTICAL REPORT

Report Date: 05/05/94

Date Received: 04/28/94

To: Triad Engineering, Inc.
325 East Chicago Street
Milwaukee, WI 53202

Your Reference: 943163.9

Attn: Val Jansen

SEI Project: WL 10399

Date Collected: 04/27/94

Our Reference

AA01345

Sample Point

MW-5R

Analyte	Units	PQL	Analytical Method	Analyzed	Result
PRELIMINARY DATA					
Benzene	ug/L	0.7	EPA 602	04/28/94	1.5
Ethylbenzene	ug/L	1.0	EPA 602	04/28/94	Not Detected
Toluene	ug/L	0.9	EPA 602	04/28/94	Not Detected
Xylenes, Total	ug/L	1.5	EPA 602	04/28/94	2.5

Table 5. Summary of Detected Constituents in Ground Water Samples, Building 45-A Property

Parameters	MW-4	MW-5	MW-5A	MW-6	MW-9 Field Blank	MW-10 Dup. of MW-5	NR140**	
							Enforcement Standard	(PAL)
<u>Dissolved Metals</u>								
Cadmium (0.0002)	0.0025	NA	NA	NA	NA	NA	0.010	0.001
Chromium (0.001)	0.002	NA	NA	NA	NA	NA	0.050	0.005
Lead (0.001)	0.008	NA	NA	NA	NA	NA	0.050	0.005
Zinc (0.02)	0.05	NA	NA	NA	NA	NA	5.0	2.5
<u>VOCS</u>								
Benzene (.001)	ND	0.746	ND	ND	ND	0.687	0.00067	0.000067
Chloroethane (.001)	ND	0.002	ND	ND	ND	0.001	*	*
1,1-Dichloroethane (.001)	ND	0.002	ND	0.002	ND	ND	.850	.085
1,4-Dichlorobenzene (.002)	ND	ND	ND	ND	ND	0.002	*	*
Ethylbenzene (.001)	ND	0.035	ND	ND	ND	0.021	1.360	.272
Methylene Chloride (.001)	ND	ND	ND	ND	ND	0.002	.150	.015
Toluene (.001)	ND	0.008	ND	ND	ND	0.007	.343	.0686
Xylenes (.001)	ND	0.061	ND	ND	ND	0.053	.620	.124
Total Petroleum Hydrocarbons (TPH) (0.2)	ND	5.3	ND	ND	ND	4.7	*	*
<u>Acid Extractables</u>								
Phenol (0.020)	NA	0.015	ND	ND	ND	0.020	*	*
<u>Base/Neutral Extractables</u>								
Hexachloroethane (0.010)	NA	0.013	ND	ND	ND	0.010	*	*
Naphthalene (0.010)	NA	0.012	ND	ND	ND	0.011	*	*

Note: All values in parts per million (ppm)
 () = Detection Limit (ppm)
 Monitor well locations are depicted on Figure 3.
 ND = Not Detected
 NA = Not analyzed

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 39484

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 303
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: November 13, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL1108
 DATE COLLECTED: 10/31/89
 DATE RECEIVED: 11/06/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 1, unless otherwise noted below in ()

VOLATILES (Purge & Trap)	SEI ID Sample ID	1108-1 MW-4	1108-2 MW-5	1108-3 MW-5A	1108-4 MW-6	1108-5 MW-7
Benzene		ND	745	ND	ND	ND
Bromomethane (10)		ND	ND	ND	ND	ND
Bromodichloromethane (2)		ND	ND	ND	ND	ND
Bromoform (2)		ND	ND	ND	ND	ND
Carbon tetrachloride		ND	ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	ND	ND
Chloroethane		ND	2	ND	ND	ND
2-Chloroethyvinylether (4)		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Chloromethane (10)		ND	ND	ND	ND	ND
Dibromochloromethane (2)		ND	ND	ND	ND	ND
1,2-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,3-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,4-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	2	ND	2	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND
trans-1,3-Dichloroethane		ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene (2)		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene (2)		ND	ND	ND	ND	ND
Ethylbenzene		ND	35	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: 33484

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: November 13, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL1103
 DATE COLLECTED: 10/31/89
 DATE RECEIVED: 11/06/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 1, unless otherwise noted below in ()

VOLATILES (Purge & Trap)	SEI ID Sample ID	1108-1 MW-4	1108-2 MW-5	1108-3 MW-5A	1108-4 MW-6	1108-5 MW-7
Methylene chloride		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane (3)		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene		ND	8	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND
Vinyl chloride (10)		ND	ND	ND	ND	ND
Xylenes		ND	61	ND	ND	ND
Total Petroleum Hydrocarbons, mg/l (0.2)		ND	5.3	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

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AHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: B9434

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: November 13, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL1108
 DATE COLLECTED: 10/31/89
 DATE RECEIVED: 11/06/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (pob)

Detection Limit: 20, unless otherwise noted below in ()

ACID EXTRACTABLES	SEI ID Sample ID	1108-2 MW-5	1108-3 MW-5A	1108-4 MW-6	1108-5 MW-7	1108-6 MW-8
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND
2,4-Dinitrophenol (200)		ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol (200)		ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND
Pentachlorophenol		ND	ND	ND	ND	ND
Phenol		15	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND

ACID EXTRACTABLES	SEI ID Sample ID	1108-7 MW-8A	1108-9 MW-10
4-Chloro-3-methylphenol		ND	ND
2-Chlorophenol		ND	ND
2,4-Dichlorophenol		ND	ND
2,4-Dimethylphenol		ND	ND
2,4-Dinitrophenol (200)		ND	ND
2-Methyl-4,6-dinitrophenol (200)		ND	ND
2-Nitrophenol		ND	ND
4-Nitrophenol		ND	ND
Pentachlorophenol		ND	ND
Phenol		ND	20
2,4,6-Trichlorophenol		ND	ND

ND--Not Detected

Reviewed & Approved by:

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 Rosemary L. Dineen
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AIHA Accreditation #352
 WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: 89484

Hydro-Search, Inc.
 235 Executive Drive, Suite 303
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: November 13, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL1103
 DATE COLLECTED: 10/31/89
 DATE RECEIVED: 11/06/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 10, unless otherwise noted below in ()

BASE/NEUTRAL EXTRACTABLES	SEI ID Sample ID	1108-2 MW-5	1108-3 MW-5A	1108-4 MW-6	1108-5 MW-7	1108-6 MW-8
Acenaphthene		ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	ND
Benzidine (100)		ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND
Benzo(a)pyrene		ND	ND	ND	ND	ND
Benzo(g,h,i)perylene (30)		ND	ND	ND	ND	ND
Benzyl butyl phthalate		ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate		ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene (30)		ND	ND	ND	ND	ND
Di-n-butylphthalate		ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 89484

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 300
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: November 13, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL1108
 DATE COLLECTED: 10/31/89
 DATE RECEIVED: 11/06/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 10, unless otherwise noted below in ()

<u>BASE/NEUTRAL EXTRACTABLES</u>	<u>SEI ID Sample ID</u>	<u>1108-2 MW-5</u>	<u>1108-3 MW-5A</u>	<u>1108-4 MW-6</u>	<u>1108-5 MW-7</u>	<u>1108-6 MW-8</u>
Diethyl phthalate		ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND
2,4-Dinitrotoluene (20)		ND	ND	ND	ND	ND
2,6-Dinitrotoluene (20)		ND	ND	ND	ND	ND
Di-n-octylphthalate		ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND
Hexachlorobutadiene (20)		ND	ND	ND	ND	ND
Hexachlorocyclooctadiene (100)		ND	ND	ND	ND	ND
Hexachlorocethane		13	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene (30)		ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND
Naphthalene		12	ND	ND	ND	ND
Nitrobenzene (20)		ND	ND	ND	ND	ND
n-Nitrosodimethylamine (100)		ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine (100)		ND	ND	ND	ND	ND
n-Nitrosodiphenylamine (50)		ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

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Air/AJHA Accreditation #352
 WICWDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9484

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: November 13, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL1108
 DATE COLLECTED: 10/31/89
 DATE RECEIVED: 11/06/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 1, unless otherwise noted below in ()

VOLATILES (Purge & Trap)	SEI ID Sample ID	1108-1 MW-4	1108-2 MW-5	1108-3 MW-5A	1108-4 MW-6	1108-5 MW-7
Benzene		ND	746	ND	ND	ND
Bromomethane (10)		ND	ND	ND	ND	ND
Bromodichloromethane (2)		ND	ND	ND	ND	ND
Bromoform (2)		ND	ND	ND	ND	ND
Carbon tetrachloride		ND	ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	ND	ND
Chloroethane		ND	2	ND	ND	ND
2-Chloroethylvinylether (4)		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Chloromethane (10)		ND	ND	ND	ND	ND
Dibromochloromethane (2)		ND	ND	ND	ND	ND
1,2-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,3-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,4-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	2	ND	2	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND
trans-1,3-Dichloroethene		ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene (2)		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene (2)		ND	ND	ND	ND	ND
Ethylbenzene		ND	35	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Carol Koroghlanian
 Carol Koroghlanian
 Laboratory Supervisor

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ANHA Accreditation #352
 W/DNR Certification #269181760

ANALYTICAL REPORT

REPORT NUMBER: B9484

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 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: November 13, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL1108
 DATE COLLECTED: 10/31/89
 DATE RECEIVED: 11/06/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 1, unless otherwise noted below in ()

VOLATILES (Purge & Trap)	SEI ID Sample ID	1108-1 MW-4	1108-2 MW-5	1108-3 MW-5A	1108-4 MW-6	1108-5 MW-7
Methylene chloride		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane (3)		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene		ND	8	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND
Vinyl chloride (10)		ND	ND	ND	ND	ND
Xylenes		ND	61	ND	ND	ND
Total Petroleum Hydrocarbons, mg/l (0.2)		ND	5.3	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Carol Koroghlanian
 Carol Koroghlanian
 Laboratory Supervisor

MW-11C

Table 4-4. Summary of Detected Constituents in Soil Samples, Site MP-3

Parameter	Phase I								Phase II					Phase III			
	MP-3A B8347* 5/19/89		MP-3B B8450* 5/22/89		MP-3C B8450* 5/22/89		MP-3D B8450* 5/22/89		MW-11 B9833* 12/14/89					MW-11A B1003* 4/18/90	MW-11B B1003* 4/18/90	MW-11C B1084* 4/23/90	MW-11D B1003* 4/18/90
	0-5'	5-10'	0-5'	5-10'	0-5'	5-10'	0-1'	1-2'	0-1'	1-2'	2-3'	3-4'	4-5'	3-5'	5-7'	1-3'	5-7'
Metals																	
Cadmium (0.5)	15	1.5	3.5	0.9	1.6	1.1	2.2	0.9	2.8	ND	ND	ND	ND	NA	NA	NA	NA
Chromium (1)	44	7	11	6	9	7	16	6	39	24	28	32	22	NA	NA	NA	NA
Lead (2)	110	13	21	7	16	7	20	7	286	223	216	73	55	NA	NA	NA	NA
Nickel (1)	48	7	18	8	10	8	15	8	23	12	17	26	18	NA	NA	NA	NA
Zinc (1)	100	37	57	37	50	50	48	44	257	197	176	213	78	NA	NA	NA	NA
Chromium EPTOX (0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead EPTOX (0.05)	NA	NA	NA	NA	NA	NA	NA	NA	0.38	NA	NA	NA	NA	NA	NA	NA	NA
Nickel EPTOX (0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.03	NA	NA	NA	NA	NA
Zinc EPTOX (0.02)	NA	NA	NA	NA	NA	NA	NA	NA	4.01	NA	NA	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables																	
Anthracene (1)	2.8	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene (1)	4.7	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene (1)	3.6	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene (1)	5.6	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene (1)	5.2	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene (1)	4.1	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total BNAs	26.0	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (VOCs)																	
Acetone (5.0)	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene (0.05)	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	0.05	ND
Ethylbenzene (0.05)	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	NA	ND
Methylene Chloride (0.05)	ND	1.96	ND	0.08	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	NA	0.08
1,1,1-Trichloroethane (0.05)	ND	ND	ND	ND	ND	ND	ND	0.05	NA	NA	NA	NA	NA	ND	ND	NA	ND
Toluene (0.05)	ND	0.07	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	0.08
Xylenes (0.05)	ND	5.96	ND	0.15	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	0.07
Total BETX	ND	6.03	ND	0.15	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	0.05	0.15
Total VOCs	ND	7.99	ND	0.23	ND	ND	ND	0.05	NA	NA	NA	NA	NA	ND	ND	0.05	0.23
Oil & Grease (20)	40	110	ND	80	ND	20	50	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (TPHs) (5.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
PCBs (0.5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTE:

All values in milligrams per kilogram (mg/kg)

() = Detection Limit (mg/kg)

ND = Not Detected

NA = Not Analyzed

* = Laboratory Report Number; Analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIHA Accreditation #352, WDNR Certification #26818170, Appendix C.

Borehole locations are depicted on Figure 4-3.

Table 4-5. Summary of Detected Constituents in Ground Water, Site MP-3

Parameter	Phase II		Phase III								NR 140**	
	MW-11 B0270*	MW-11 B0688*	MW-11 B1234*	MW-11A B1234*	MW-11B B1234*	MW-11C B1234*	MW-11D B1234*	TRIP BLANK B0270*	TRIP BLANK B1234*	Enforcement Standard	PAL	
	1/23/90	3/19/90	5/8/90	5/8/90	5/8/90	5/8/90	5/7/90	1/23/90	5/7/90			
<u>Volatile Organic Compounds</u>												
Benzene (0.001)	0.031	0.050	0.078	0.039	0.002	0.009	0.002	ND	ND	0.005	0.000067	
Ethylbenzene (0.001)	0.001	0.017	0.523	0.011	0.002	0.009	0.002	ND	ND	1.360	0.272	
Toluene (0.001)	0.019	0.023	0.055	0.007	0.001	0.006	0.001	ND	ND	0.343	0.0686	
Xylenes (0.001)	1.271	1.509	2.162	0.209	ND	0.007	ND	ND	ND	0.620	0.124	
Total BETX	1.322	1.599	2.818	0.266	0.005	0.031	0.005	ND	ND	***	***	
Total Petroleum Hydrocarbons (0.2)	6.1	16.0	18.2	2.7	ND	0.4	ND	NA	ND	***	***	

NOTE: All values in milligrams/liter (mg/l).
 () = Detection Limit (mg/l)
 ND = Not Detected
 * = Laboratory Report Number; analyses by Swanson Environmental, Inc., Brookfield, WI, AIHA Accreditation #352, WDNR Certification #2681870, Appendix C.
 ** = Per Chapter NR140 of the Wisconsin Administrative Code
 *** = No standards currently exist
 PAL = Preventative Action Limit
 Monitor well locations are depicted on Figure 4-3.



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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: B1084

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Richard Binder
 (Project #251E09533)

DATE May 9, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL2662
 DATE COLLECTED: 04/23&24/90
 DATE RECEIVED: 04/26/90

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)
 Detection Limit: 0.05

<u>SEI ID</u>	<u>Sample ID</u>	<u>Cyanides, Total (0.5)</u>
2662-1	MP7AD1 1-2'	ND
2662-2	MP7AD2 2-3'	ND
2662-3	MP7AD3 3-4'	ND
2662-4	MP7AD4 4-5'	ND
2662-5	MP7AD5 5-6'	0.6
2662-6	MP7AC 1-2'	ND
2662-7	MP7AE1 1-2'	0.9
2662-8	MP7AE2 2-3'	ND
2662-9	MP7AE3 3-4'	ND
2662-10	MP7AE4 4-5'	ND
2662-11	MP7AE5 5-6'	ND
2662-17	MW16A1 1-2'	2.73
2662-18	MW16A2 2-3'	ND
2662-19	MW16A3 3-4'	0.5
2662-20	MW16A4 5-6'	ND

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 Project # 251E09533
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MAY 14 1990
 ylenes

<u>SEI ID</u>	<u>Sample ID</u>	<u>Benzene</u>	<u>Ethyl- benzene</u>	<u>Toluene</u>	<u>Ylenes</u>
2662-16	MP11C 1-3'	0.05	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Director

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: B1084

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Richard Binder
 (Project #251E09533)

DATE May 9, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL2662
 DATE COLLECTED: 04/23&24/90
 DATE RECEIVED: 04/26/90

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)
 Detection Limit: 5

<u>SEI ID</u>	<u>Sample ID</u>	<u>Total Petroleum Hydrocarbons*</u>
2662-4	MP7AD4 4-5'	413
2662-6	MP7AC 1-2'	ND
2662-10	MP7AE 4-5'	ND
2662-12	MP8Q1 4-5' 1-2'	ND
2662-13	MP8Q2 5-6'	ND
2662-14	MP8R 1-2'	ND
2662-15	MP8S 1-2'	ND
2662-16	MW11C 1-3'	ND
2662-19	MW16A3 3-4'	ND
2662-21	MW21A1 2-3'	ND
2662-22	MW21A2 4-5'	ND

FILE CO

* Concentration based on a fuel oil standard using the State of California Method.

MAY 14 1990

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
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 Laboratory Director



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AIHA Accreditation #352
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REPORT NUMBER: B1234

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
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Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: May 29, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL2772
 DATE COLLECTED: 05/07&08/90
 DATE RECEIVED: 05/08/90

Groundwater Samples (Chryster, Kenosha)

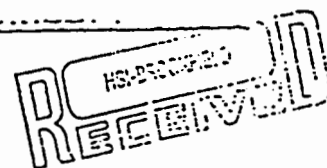
Units: ug/l (ppb)
 Detection Limit: 1

SEI ID	Sample ID	Benzene	Ethyl- benzene	Toluene	Xylenes
2772-1	MW-5	2,246	110	22	25
2772-3	MW-11	78	523	55	2,162
2772-4	MW-11A	39	11	7	209
2772-5	MW-11B	2	2	1	ND
2772-6	MW-11C	9	9	6	7
2772-7	MW-11D	2	2	1	ND
2772-15	Sump 45A	ND	ND	ND	ND
2772-16	STF Inflow	19	2	4	5
2772-17	STF Outflow	8	1	2	2

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JUN 1 1990

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
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AIHA Accreditation #352
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REPORT NUMBER: B1234

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
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Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: May 29, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL2772
 DATE COLLECTED: 05/07&08/90
 DATE RECEIVED: 05/08/90

Groundwater Samples (Chrysler, Kenosha)

Units: mg/l (ppm)
 Detection Limit: 0.2

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SEI ID	Sample ID	Total Petroleum Hydrocarbons*
2772-1	MW-5	10.2
2772-2	MW-10	0.5
2772-3	MW-11	18.2
2772-4	MW-11A	2.7
2772-5	MW-11B	ND
2772-6	MW-11C	0.4
2772-7	MW-11D	ND
2772-8	MW-35A	51.5
2772-9	MW-35B	43.5
2772-10	MW-36A	ND
2772-11	MW-38	ND
2772-12	MW-40	ND
2772-13	MW-41	ND
2772-14	Sump 40	65.6
2772-15	Sump 45A	ND
2772-16	STF Inflow	0.3
2772-17	STF Outflow	ND
2772-18	Trip Blank	ND

RECEIVED

JUN 1 1990

* Concentration based on a gasoline standard using the State of California Method.

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Director

MW-15

Table 4-10. Summary of Detected Constituents in Soil Samples, Site MP-7 (Cont'd.)

Parameter	MP-7I B9828*	MP-7L B9828*	MP-7H B9828*	MP-7T B9699*		MP-7U B0301*	MP-7V B0301*	MP-7W B0301*	MJ-13 B9819*		MJ-15 B9699*		MJ-16 B9828*		MJ-17 B9699*		MJ-17B B0301*	Common Natural Range** (ppm)
	3-5'	11-13'	7-9'	0-2'	4-6'	3-5'	5-6'	3-5'	0-1'	4-5'	0-2'	4-6'	0-1'	4-5'	1-3'	5-7'	3-5'	
Metals																		
Cadmium (0.5)	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	NA	ND	ND	NA	0.01 - 7
Chromium (1)	NA	NA	NA	11	14	NA	NA	NA	NA	NA	11	13	18	5	14	20	NA	5 - 200
Lead (2)	NA	NA	NA	89	28	NA	NA	NA	NA	56	48	96	48	26	8	27	24	15 - 25
Nickel (1)	NA	NA	NA	15	11	NA	NA	NA	NA	NA	12	13	22	7	14	19	NA	10 - 200
Zinc (1)	NA	NA	NA	76	44	NA	NA	NA	NA	NA	78	79	44	42	37	39	NA	3 - 75
Lead EPTOX (0.05)	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	---
Base/Neutral Extractables																		
Acenaphthene (1)	NA	ND	ND	ND	ND	NA	NA	NA	4	ND	ND	ND	1	ND	ND	ND	NA	
Anthracene (1)	NA	ND	ND	ND	ND	NA	NA	NA	2	1	ND	ND	1	ND	ND	ND	NA	
Benzo(a)anthracene (1)	NA	ND	ND	ND	ND	NA	NA	NA	2	ND	ND	ND	3	ND	ND	ND	NA	
Benzo(b)fluoranthene (1)	NA	ND	ND	ND	ND	NA	NA	NA	1	ND	ND	ND	1	ND	ND	ND	NA	
Benzo(k)fluoranthene (1)	NA	ND	ND	ND	ND	NA	NA	NA	1	ND	ND	ND	1	ND	ND	ND	NA	
Benzo(a)pyrene (1)	NA	ND	ND	ND	ND	NA	NA	NA	1	1	ND	ND	1	ND	ND	ND	NA	
Benzo(g,h,i) perylene (3.0)	NA	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	1	ND	ND	ND	NA	
Bis(2-ethylhexyl)phthalate (1)	NA	1	1	ND	ND	NA	NA	NA	3	3	ND	ND	2	2	ND	ND	NA	
Chrysene (1)	NA	ND	ND	ND	ND	NA	NA	NA	2	1	ND	ND	3	ND	ND	ND	NA	
Fluoranthene (1)	NA	1	ND	ND	ND	NA	NA	NA	23	2	ND	ND	5	ND	1	ND	NA	
Fluorene (1)	NA	1	ND	ND	ND	NA	NA	NA	4	ND	ND	ND	1	ND	ND	ND	NA	
Naphthalene (1)	NA	ND	ND	ND	ND	NA	NA	NA	2	ND	ND	ND	1	ND	ND	ND	NA	
Phenanthrene (1)	NA	1	ND	ND	ND	NA	NA	NA	6	5	ND	ND	6	ND	2	ND	NA	
Pyrene (1)	NA	ND	ND	ND	ND	NA	NA	NA	10	5	ND	ND	6	ND	2	ND	NA	
Total BHAs	--	4	1	ND	ND	NA	NA	NA	61	18	ND	ND	33	2	5	ND	NA	
Volatile Organic Compounds (VOCs)																		
Acetone (5.0)	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	
1,1-Dichloroethane (0.05)	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	
Trans-1,2-Dichloroethene (0.05)	ND	ND	ND	0.12	0.12	NA	NA	NA	NA	NA	0.08	ND	ND	ND	0.05	ND	NA	
Methylene Chloride (0.05)	ND	ND	ND	0.23	ND	NA	NA	NA	NA	NA	0.07	ND	ND	0.06	0.10	0.12	NA	
1,1,1-Trichloroethane (0.05)	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	0.06	ND	ND	NA	
Toluene (0.05)	ND	0.09	ND	0.06	ND	ND	ND	ND	NA	NA	0.05	ND	ND	ND	0.08	ND	NA	
Xylenes (0.05)	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	NA	
Total VOCs	ND	0.09	ND	0.41	0.12	ND	ND	ND	--	--	0.20	ND	ND	0.12	0.23	0.12	NA	State of Wisconsin Guideline***
Oil & Grease (20)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Petroleum Hydrocarbons (TPHs) (5)	ND	ND	ND	ND	ND	ND	ND	ND	170	498	ND	ND	ND	ND	ND	ND	ND	10.0
PCBs (0.5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

NOTE: All values in parts per million (ppm)
 () = Detection Limit (ppm)
 ND = Not Detected
 NA = Not Analyzed
 * = Laboratory Report Number; Analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIHA Accreditation #352, WDHR Certification #26818170, Appendix C.
 ** = From Wisconsin Department of Natural Resources (WDNR), 1980
 *** = From Wisconsin Department of Natural Resources (WDNR), April, 1986, Memo to District Directors, "Practices and Standards for the Management of VOC Contaminated Soils," from Paul Didier, File Ref. 4430.
 Borehole locations are depicted on figures 4-5 and 4-6.

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 29600

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project #251E09533)

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/08/89
 DATE RECEIVED: 12/09/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)
 Detection Limit: 1, unless otherwise noted below in ()

	SEI ID	1416-1	1416-2	1416-3	1416-4	1416-5
		1-3'	5-7'	0-2'	4-6'	0-2'
Parameter	Sample ID	MW171	MW172	MW151	MW152	MP7T1
Cadmium		ND	ND	ND	ND	ND
Chromium		14	20	11	13	11
Lead (2)		27	24	96	48	80
Nickel		14	19	12	13	15
Zinc		37	39	78	79	76
Total PCB's* (0.5)		ND	ND	ND	ND	ND

	SEI ID	1416-6
		4-6'
Parameter	Sample ID	MP7T2
Cadmium		ND
Chromium		14
Lead (2)		28
Nickel		11
Zinc		44
Total PCB's* (0.5)		ND

* Concentration of Total PCB's based on response of Arochlor 1242, 1248, 1254, and 1260.

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 20509

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

 Attn: Mr. Rick Binder
 (Project #251E09533)

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/08/89
 DATE RECEIVED: 12/09/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 1, unless otherwise noted below in ()

	SEI ID	1416-1	1416-2	1416-3	1416-4	1416-5
		1-3'	5-7'	0-2'	4-6'	0-2'
ACID	Sample ID	MW171	MW172	MW151	MW152	MP7T1
EXTRACTABLES						
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND
2,4-Dinitrophenol (20)		ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol (20)		ND	ND	ND	ND	ND
2-Nitrophenol (2)		ND	ND	ND	ND	ND
4-Nitrophenol (2)		ND	ND	ND	ND	ND
Pentachlorophenol (2)		ND	ND	ND	ND	ND
Phenol		ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9699

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project #251E09533)

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/08/89
 DATE RECEIVED: 12/09/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 1, unless otherwise noted below in ()

ACID	SEI ID	1416-6
EXTRACTABLES	Sample ID	MP7T2
4-Chloro-3-methylphenol		ND
2-Chlorophenol		ND
2,4-Dichlorophenol		ND
2,4-Dimethylphenol		ND
2,4-Dinitrophenol (20)		ND
2-Methyl-4,6-dinitrophenol (20)		ND
2-Nitrophenol (2)		ND
4-Nitrophenol (2)		ND
Pentachlorophenol (2)		ND
Phenol		ND
2,4,6-Trichlorophenol		ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 89699

ANALYTICAL REPORT

Hydro-Search, Inc.
 135 Executive Drive, Suite 309
 Brookfield, WI 53005
 Attn: Mr. Rick Binder
 (Project #251E09533)

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/09/89
 DATE RECEIVED: 12/09/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)
 Detection Limit: 10, unless otherwise noted below in ()

ACID	SEI ID	1416-9	1416-10
EXTRACTABLES	Sample ID	MW-24	MP-15H
4-Chloro-2-methylphenol		ND	ND
2-Chlorophenol		ND	ND
2,4-Dichlorophenol		ND	ND
1,4-Dimethylphenol		ND	ND
2,4-Dinitrophenol (100)		ND	ND
1-Methyl-4,6-dinitrophenol (100)		ND	ND
2-Nitrophenol (20)		ND	ND
4-Nitrophenol (20)		ND	ND
Pentachlorophenol (20)		ND	ND
Phenol		ND	ND
2,4,6-Trichlorophenol		ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 89699

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project #251E09533)

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1415
 DATE COLLECTED: 12/03/89
 DATE RECEIVED: 12/09/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 1, unless otherwise noted below in ()

	SEI ID	1416-1	1416-2	1416-3	1416-4	1416-5
		1-3'	5-7'	0-2'	4-6'	0-2'
BASE/NEUTRAL EXTRACTABLES	Sample ID	MW171	MW172	MW151	MW152	MP7T1
Acenaphthene		ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	ND
Benzidine (10)		ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND
Benzo(a)pyrene		ND	ND	ND	ND	ND
Benzo(ghi)perylene (3)		ND	ND	ND	ND	ND
Benzyl butyl phthalate		ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate		ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene (3)		ND	ND	ND	ND	ND
Di-n-butylphthalate		ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 39909

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project #251E09533)

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/02/89
 DATE RECEIVED: 12/09/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)
 Detection Limit: 1, unless otherwise noted below in ()

	SEI ID	1416-1	1416-2	1416-3	1416-4	1416-5
		1-3'	5-7'	0-2'	4-6'	0-2'
BASE/NEUTRAL EXTRACTABLES	Sample ID	MW171	MW172	MW151	MW152	MP7T1
Diethyl phthalate		ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND
2,4-Dinitrotoluene (2)		ND	ND	ND	ND	ND
2,6-Dinitrotoluene (2)		ND	ND	ND	ND	ND
Di-n-octylphthalate		ND	ND	ND	ND	ND
Fluoranthene	1	ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND
Hexachlorobutadiene (2)		ND	ND	ND	ND	ND
Hexachlorocyclopentadiene (10)		ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene (3)		ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND
Naphthalene		ND	ND	ND	ND	ND
Nitrobenzene (2)		ND	ND	ND	ND	ND
n-Nitrosodimethylamine (10)		ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine (10)		ND	ND	ND	ND	ND
n-Nitrosodiphenylamine (5)		ND	ND	ND	ND	ND
Phenanthrene	2	ND	ND	ND	ND	ND
Pyrene	2	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 23599

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
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Attn: Mr. Rick Binder
 (Project #251E09533)

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/08/89
 DATE RECEIVED: 12/09/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)
 Detection Limit: 1, unless otherwise noted below in ()

	SEI ID	1416-6
BASE/NEUTRAL		4-6'
EXTRACTABLES	Sample ID	MP712

Acenaphthene	ND
Acenaphthylene	ND
Anthracene	ND
Benzidine (10)	ND
Benzo(a)anthracene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Benzo(a)pyrene	ND
Benzo(ghi)perylene (3)	ND
Benzyl butyl phthalate	ND
Bis(2-chloroethyl)ether	ND
Bis(2-chloroethoxy)methane	ND
Bis(2-chloroisopropyl)ether	ND
Bis(2-ethylhexyl)phthalate	ND
4-Bromophenyl phenyl ether	ND
2-Chloronaphthalene	ND
4-Chlorophenyl phenyl ether	ND
Chrysene	ND
Dibenzo(a,h)anthracene (3)	ND
Di-n-butylphthalate	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
3,3'-Dichlorobenzidine	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
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REPORT NUMBER: B9599

ANALYTICAL REPORT

Hydro-Search, Inc.
235 Executive Drive, Suite 309
Brookfield, WI 53005

Attn: Mr. Rick Binder
(Project #251E09533)

DATE January 5, 1990
PURCHASE ORDER:
SEI JOB NO: WL1415
DATE COLLECTED: 12/09/89
DATE RECEIVED: 12/09/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 1, unless otherwise noted below in ()

BASE/NEUTRAL EXTRACTABLES	SEI ID Sample ID	1416-6 4-6' MP7T2
Diethyl phthalate		ND
Dimethyl phthalate		ND
2,4-Dinitrotoluene (2)		ND
2,6-Dinitrotoluene (2)		ND
Di-n-octylphthalate		ND
Fluoranthene		ND
Fluorene		ND
Hexachlorobenzene		ND
Hexachlorobutadiene (2)		ND
Hexachlorocyclopentadiene (10)		ND
Hexachloroethane		ND
Indeno(1,2,3-cd)pyrene (3)		ND
Isophorone		ND
Naphthalene		ND
Nitrobenzene (2)		ND
n-Nitrosodimethylamine (10)		ND
n-Nitrosodi-n-propylamine (10)		ND
n-Nitrosodiphenylamine (5)		ND
Phenanthrene		ND
Pyrene		ND
1,2,4-Trichlorobenzene		ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
Rosemary L. Dineen
Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 83599

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brockfield, WI 53005

Attn: Mr. Rick Binder
 (Project #251E09533)

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/09/89
 DATE RECEIVED: 12/09/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 10, unless otherwise noted below in ()

BASE/NEUTRAL EXTRACTABLES	SEI ID Sample ID	1416-9 NW-24	1416-10 MP-15H
Acenaphthene		ND	ND
Acenaphthylene		ND	ND
Anthracene		ND	ND
Benzidine (100)		ND	ND
Benzo(a)anthracene		ND	ND
Benzo(b)fluoranthene		ND	ND
Benzo(k)fluoranthene		ND	ND
Benzo(a)pyrene		ND	ND
Benzo(ghi)perylene (30)		ND	ND
Benzyl butyl phthalate		ND	ND
Bis(2-chloroethyl)ether		ND	ND
Bis(2-chloroethoxy)methane		ND	ND
Bis(2-chloroisopropyl)ether		ND	ND
Bis(2-ethylhexyl)phthalate		ND	ND
4-Bromophenyl phenyl ether		ND	ND
2-Chloronaphthalene		ND	ND
4-Chlorophenyl phenyl ether		ND	ND
Chrysene		ND	ND
Dibenzo(a,h)anthracene (30)		ND	ND
Di-n-butylphthalate		ND	ND
1,2-Dichlorobenzene		ND	ND
1,3-Dichlorobenzene		ND	ND
1,4-Dichlorobenzene		ND	ND
3,3'-Dichlorobenzidine		ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
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 Laboratory Supervisor



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REPORT NUMBER: 89699

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project #251EQ9533)

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/08/89
 DATE RECEIVED: 12/09/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 10, unless otherwise noted below in ()

BASE/NEUTRAL EXTRACTABLES	SEI ID Sample ID	1416-9 MW-24	1416-10 MP-15H
Diethyl phthalate		ND	ND
Dimethyl phthalate		ND	ND
2,4-Dinitrotoluene (20)		ND	ND
2,6-Dinitrotoluene (20)		ND	ND
Di-n-octylphthalate		ND	ND
Fluoranthene		ND	ND
Fluorene		ND	ND
Hexachlorobenzene		ND	ND
Hexachlorobutadiene (20)		ND	ND
Hexachlorocyclopentadiene (100)		ND	ND
Hexachloroethane		ND	ND
Indeno(1,2,3-cd)pyrene (30)		ND	ND
Isophorone		ND	ND
Naphthalene		ND	ND
Nitrobenzene (20)		ND	ND
n-Nitrosodimethylamine (100)		ND	ND
n-Nitrosodi-n-propylamine (100)		ND	ND
n-Nitrosodichethylamine (50)		ND	ND
Phenanthrene		ND	ND
Pyrene		ND	ND
1,2,4-Trichlorobenzene		ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
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AIHA Accreditation #352
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REPORT NUMBER: B9699

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/08/89
 DATE RECEIVED: 12/09/89

Attn: Mr. Rick Binder
 (Project #251E09533)

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)
 Detection Limit: 0.05

	SEI ID	1416-1	1416-2	1416-3	1416-4	1416-5
		1-3'	5-7'	0-2'	4-6'	0-2'
VOLATILES	Sample ID	MW171	MW172	MW151	MW152	MP7T1
PURGE & TRAP						
Acetone		ND	ND	ND	ND	ND
Benzene		ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND
Carbon tetrachloride		ND	ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND
2-Chloroethylvinylether		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		0.05	ND	0.03	ND	0.12
1,2-Dichloropropane		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND
Ethylbenzene		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 30630

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

 Attn: Mr. Rick Binder
 (Project #251E09533)

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/08/89
 DATE RECEIVED: 12/09/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)
 Detection Limit: 0.05, unless otherwise noted below in ()

	SEI ID	1416-1	1416-2	1416-3	1416-4	1416-5
		1-3'	5-7'	0-2'	4-6'	0-2'
	Sample ID	MW171	MW172	MW151	MW152	MP7T1
VOLATILES						
PURGE & TRAP						
Methylene chloride		0.10	0.12	0.07	ND	0.23
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene		0.08	ND	0.05	ND	0.06
1,1,1-Trichloroethane		ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND
Vinyl chloride		ND	ND	ND	ND	ND
Xylenes		ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons (5)		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 300-1

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 Project #25E09532

DATE January 23, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1590
 DATE COLLECTED: 12/22/89
 DATE RECEIVED: 12/29/89

Groundwater Samples (Chrysler, Kenosha)

Units: mg/l (ppm)
 Detection Limit: Noted below in ()

Parameter	SEI ID Sample ID	1590-1 MW-13	1590-4 MW-15	1590-5 MW-16	1590-6 MW-16A	1590-7 MW-17
Soluble						
Cadmium (0.0002)		ND	ND	0.0002	0.0003	0.0003
Chromium (0.001)		0.006	ND	0.001	ND	ND
Lead (0.001)		ND	ND	ND	ND	ND
Nickel (0.02)		ND	ND	ND	ND	ND
Zinc (0.02)		ND	0.03	0.12	ND	ND
Cyanide (0.005)		--	ND	0.517	0.082	0.005
Phenols (0.005)		--	ND	ND	ND	ND
Total PCB's*, mg/l (0.5)		--	ND	ND	ND	ND

* Concentration of Total PCB's based on response of Arochlor 1242, 1248, 1254, and 1260.

ND--Not Detected

Reviewed & Approved by:

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: SC041

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 Project #25E09533

DATE January 23, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1590
 DATE COLLECTED: 12/26/89
 DATE RECEIVED: 12/29/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 10, unless otherwise noted below in ()

ACID EXTRACTABLES	SEI ID Sample ID	1590-1 MW-13	1590-4 MW-15	1590-5 MW-16	1590-6 MW-16A	1590-7 MW-17
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND
2,4-Dinitrophenol (100)		ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol (100)		ND	ND	ND	ND	ND
2-Nitrophenol (20)		ND	ND	ND	ND	ND
4-Nitrophenol (20)		ND	ND	ND	ND	ND
Pentachlorophenol (20)		ND	ND	ND	ND	ND
Phenol		ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 80041

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 303
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 Project #25E09533

DATE January 23, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1590
 DATE COLLECTED: 12/28/89
 DATE RECEIVED: 12/29/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 10, unless otherwise noted below in ()

BASE/NEUTRAL EXTRACTABLES	SEI ID Sample ID	1590-1 MW-13	1590-4 MW-15	1590-5 MW-15	1590-6 MW-15A	1590-7 MW-17
Acenaphthene		ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	ND
Benzidine (100)		ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND
Benzo(a)pyrene		ND	ND	ND	ND	ND
Benzo(ghi)perylene (30)		ND	ND	ND	ND	ND
Benzyl butyl phthalate		ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND
Bis(2-chloroethyl)methane		ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate		ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene (30)		ND	ND	ND	ND	ND
Di-n-butylphthalate		ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor



ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 Project #25EG9533

DATE January 23, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1590
 DATE COLLECTED: 12/29/89
 DATE RECEIVED: 12/29/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 10, unless otherwise noted below in ()

BASE/NEUTRAL EXTRACTABLES	SEI ID Sample ID	1590-1 MW-13	1590-4 MW-15	1590-5 MW-16	1590-6 MW-16A	1590-7 MW-17
Diethyl phthalate		ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND
2,4-Dinitrotoluene (20)		ND	ND	ND	ND	ND
2,6-Dinitrotoluene (20)		ND	ND	ND	ND	ND
Di-n-octylphthalate		ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND
Hexachlorobutadiene (30)		ND	ND	ND	ND	ND
Hexachlorocyclopentadiene (100)		ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene (30)		ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND
Naphthalene		ND	ND	ND	ND	ND
Nitrobenzene (20)		ND	ND	ND	ND	ND
n-Nitrosodimethylamine (100)		ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine (100)		ND	ND	ND	ND	ND
n-Nitrosodiphenylamine (50)		ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor



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REPORT NUMBER: 30041

ANALYTICAL REPORT

Hydro-Search, Inc.
225 Executive Drive, Suite 309
Brookfield, WI 53005

Attn: Mr. Rick Binder
Project #25E09533

DATE January 23, 1990
PURCHASE ORDER:
SEI JOB NO: WL1590
DATE COLLECTED: 12/29/89
DATE RECEIVED: 12/29/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 1, unless otherwise noted below in ()

Parameter	SEI ID	1590-2	1590-3
	Sample ID	MW-14	Trip Blank
Benzene		ND	ND
Ethylbenzene		ND	ND
Toluene		ND	ND
Xylenes		ND	ND
Total Petroleum Hydrocarbons, mg/l (0.2)		ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
Rosemary L. Dineen
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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 500-1

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 Project #25E09533

DATE January 23, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1590
 DATE COLLECTED: 12/28/89
 DATE RECEIVED: 12/29/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 1, unless otherwise noted below in ()

VOLATILES	SEI ID	1590-1	1590-4	1590-5	1590-6	1590-7
PURGE & TRAP	Sample ID	MW-13	MW-15	MW-16	MW-16A	MW-17
Acetone (50)		--	ND	ND	ND	ND
Benzene		ND	ND	ND	ND	ND
Bromodichloromethane (2)		ND	ND	ND	ND	ND
Bromoform (2)		ND	ND	ND	ND	ND
Bromomethane (10)		ND	ND	ND	ND	ND
Carbon tetrachloride		ND	ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND
2-Chloroethylvinyl ether (4)		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	1	ND
Chloromethane (10)		ND	ND	ND	ND	ND
Dibromochloromethane (2)		ND	ND	ND	ND	ND
1,2-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,3-Dichlorobenzene (2)		ND	ND	ND	ND	ND
1,4-Dichlorobenzene (2)		ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND
1,1-Dichloroethane		ε	ND	ε	ε	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND
trans-1,2-Dichloroethane		ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene (2)		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene (2)		ND	ND	ND	ND	ND
Ethylbenzene		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

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REPORT NUMBER: 800-1

ANALYTICAL REPORT

Hydro-Search, Inc.
 288 Executive Drive, Suite 308
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 Project #25ED9833

DATE January 23, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1590
 DATE COLLECTED: 12/29/89
 DATE RECEIVED: 12/29/89

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)

Detection Limit: 1, unless otherwise noted below in ()

VOLATILES PURGE & TRAP	SEI ID Sample ID	1590-1 MW-13	1590-4 MW-15	1590-5 MW-16	1590-6 MW-16A	1590-7 MW-17
Methylene chloride		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane (3)		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene		ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND
Vinyl chloride (10)		ND	ND	ND	ND	ND
Xylenes		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

MW-24A

Table 4-24 Summary of Detected Constituents in Soil Samples, Site MP-14

Parameters	MP-14A1 B9671*	MP-14A2 B9671*	MP-14B1 B9674*	MP-14B2 B9674*	MP-14C1 B9674*	MP-14C2 B9674*	MP-14D1 B9674*	MP-14D2 B9674*	MP-14E1 B9674*	MP-14E2 B9674*	MP-14F1 B9671*	MP-14F2 B9671*	MP-14G1 B9671*	MP-14G2 B9671*	MP-14H1 B9671* (MW-24A)	MP-14H2 B9671* (MW-24A)	MP-14I1 B9671*	MP-14I2 B9671*	Common Natural Range** (ppm)	
	0-2'	4-6'	0-2'	4-6'	0-2'	4-6'	0-2'	4-6'	0-2'	4-6'	0-2'	4-6'	0-2'	4-6'	0-2'	4-6'	0-2'	4-6'		
Metals																				
Cadmium (0.5)	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01 - 0.7 5 - 200 15 - 25 10 - 200 3 - 75
Chromium (1)	10	37	24	21	2	20	18	21	14	15	22	9	19	15	32	18	14	17		
Lead (2)	25	48	635	203	19	20	24	24	43	18	51	15	86	19	56	25	21	26		
Nickel (1)	8	38	37	31	ND	24	16	25	ND	19	25	16	16	17	36	21	11	23		
Zinc (1)	66	287	303	134	64	40	37	41	58	35	50	37	91	39	72	46	36	43		
Base/Neutral Extractables																				
Benzo(a)anthracene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	State of Wisconsin Guideline*** 10.0
Benzo(b)fluoranthene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.6	ND	ND	ND	ND	ND	ND	
Benzo(k)fluoranthene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.6	ND	ND	ND	ND	ND	ND	
Benzo(a)pyrene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	
Benzo(g,h,i)perylene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	
Bis(2-ethylhexyl)phthalate (1)	ND	ND	2.5	ND	5.5	3.9	6.3	ND	7.1	ND	ND	ND	ND	ND	5.1	ND	ND	ND	ND	
Chrysene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	
Fluoranthene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8	ND	ND	ND	1.4	1.1	ND	
Indeno(1,2,3-cd)pyrene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	
Phenanthrene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	1.0	2.3	ND	
Pyrene (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	ND	ND	1.1	1.2	ND	
Total BNAs	ND	ND	2.5	ND	5.5	3.9	6.3	ND	7.1	ND	ND	ND	32.9	ND	ND	5.1	3.5	5.6	ND	
Volative Organic Compounds (VOCs)																				
Chloroform (0.05)	ND	ND	0.15	0.26	0.23	0.10	0.23	0.07	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	State of Wisconsin Guideline*** 10.0
Ethylbenzene (0.05)	ND	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride (0.05)	ND	ND	0.33	0.09	ND	0.07	ND	0.10	ND	0.17	ND	0.08	0.05	0.07	0.06	0.07	ND	ND	0.09	
1,1,1-trichloroethane (0.05)	ND	ND	0.05	ND	ND	ND	ND	ND	ND	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene (0.05)	ND	ND	0.09	ND	ND	ND	ND	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene (0.05)	ND	ND	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylenes (0.05)	ND	ND	1.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total VOCs	ND	ND	2.35	0.35	0.23	0.17	0.23	0.17	ND	0.44	ND	0.08	0.05	0.07	0.06	0.07	ND	0.09	ND	
Total Petroleum Hydrocarbons (TPHs) (5)																				
	ND	ND	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.0
PCBs (0.5)																				
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

NOTE: All values in parts per million (ppm)
 () = Detection Limit (ppm)
 ND = Not Detected
 NA = Not Analyzed
 * = Laboratory Report Number; Analyses by Swanson Environmental, Inc., Brookfield, Wisconsin, AIHA Accreditation #352, WDNR Certification #26818170, Appendix C.
 ** = From Wisconsin Department of Natural Resources (WDNR), 1980
 *** = From Wisconsin Department of Natural Resources (WDNR), April, 1986, Memo to District Directors, "Practices and Standards for the Management of VOC Contaminated Soils," from Paul Oldier, File Ref. 4430.
 Borehole locations are depicted on Figure 4-11.

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AIHA Accreditation #352
 WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: 89671

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

DATE: December 7, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL1209
 DATE COLLECTED: 11/14/89
 DATE RECEIVED: 11/16/89

Attn: Mr. Rick Binder
 (Project 251E09533)

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)
 Detection Limit: 1, unless otherwise noted below in ()

Parameter	SEI ID	1209-6 0-2'	1209-7 4-6'	1209-8 2-4'	1209-9 4-6'	1209-10 2-4'
	Sample ID	MP-14A1	MP-14A2	MP-14F1	MP-14F2	MP-14G1
Total						
Cadmium		ND	12	ND	ND	ND
Chromium		10	37	22	9	19
Lead (2)		25	48	51	15	86
Nickel		8	38	25	16	16
Zinc		66	287	50	37	91
Total PCB's* (1.0)		ND	ND	ND	ND	ND

Parameter	SEI ID	1209-11 4-6'	1209-12 2-4'	1209-13 4-6'	1209-14 0-2'	1209-15 4-6'
	Sample ID	MP-14G2	MP-14H1 MW-24A	MP-14H2 MW-24A	MP-14I1	MP-14I2
Total						
Cadmium		ND	ND	ND	ND	ND
Chromium		15	32	18	14	17
Lead (2)		19	56	25	21	26
Nickel		17	36	21	11	23
Zinc		39	72	46	36	43
Total PCB's* (1.0)		ND	ND	ND	ND	ND

Concentration of Total PCB's based on response of Arochlor 1242, 1248, 1254, and 1260.

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor



ANALYTICAL REPORT

Hydro-Search, Inc.
 125 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: December 7, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL1209
 DATE COLLECTED: 11/14/89
 DATE RECEIVED: 11/16/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 0.05, unless otherwise noted below in ()

	SEI ID	1209-11	1209-12	1209-13	1209-14	1209-15
	Sample ID	4-6'	2-4'	4-6'	0-2'	4-6'
VOLATILES		MP-14G2	MP-14H1	MP-14H2	MP-14I1	MP-14I2
TURGE & TRAP			MW-24A	MW-24A		
Acetone (5.0)		ND	ND	ND	ND	ND
Benzene		ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND
Carbon tetrachloride		ND	ND	ND	ND	ND
o-xylene		ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND
p-Chloroethylvinylether		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND
trans-1,2-Dichloroethane		ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND
Ethylbenzene		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 39671

ANALYTICAL REPORT

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brockfield, WI 53005

Attn: Mr. Rick Binder
 (Project 251E09533)

DATE: December 7, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL1209
 DATE COLLECTED: 11/14/89
 DATE RECEIVED: 11/16/89

Soil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)

Detection Limit: 0.05, unless otherwise noted below ()

	SEI ID	1209-11	1209-12	1209-13	1209-14	1209-15
		4-6'	2-4'	4-6'	0-2'	4-6'
<u>PURGE & TRAP</u>	<u>Sample ID</u>	<u>MP-14G2</u>	<u>MP-14H1</u> <u>MW-24A</u>	<u>MP-14H2</u> <u>MW-24A</u>	<u>MP-14I1</u>	<u>MP-14I2</u>
Methylene chloride		0.07	0.06	0.07	ND	0.09
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene		ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND
Vinyl chloride		ND	ND	ND	ND	ND
Xylenes		ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons (5)		ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor



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REPORT NUMBER: 89699

ANALYTICAL REPORT

Geo-Search, Inc.
Executive Drive, Suite 309
Brookfield, WI 53005

DATE January 5, 1990
PURCHASE ORDER:
SEI JOB NO: WL1416
DATE COLLECTED: 12/03/89
DATE RECEIVED: 12/09/89

Client: Mr. Rick Binder
(Project #251E09533)

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)
Action Limit: 1, unless otherwise noted below in ()

ANALYTES	SEI ID	1416-12
GE & TRAP	Sample ID	MP-14H MW-24A
Acetone		ND
Bromomethane (10)		ND
Dichloromethane (2)		ND
Formaldehyde (2)		ND
Carbon tetrachloride		ND
Benzene		ND
Chloroethane		ND
Diethylvinylether (4)		ND
Formaldehyde		ND
Bromomethane (10)		ND
Monochloromethane (2)		ND
-Dichlorobenzene (2)		ND
-Dichlorobenzene (2)		ND
-Dichlorobenzene (2)		ND
-Dichloroethane		ND
-Dichloroethane		ND
-Dichloroethane		ND
trans-1,2-Dichloroethene		ND
-Dichloropropane		ND
-1,3-Dichloropropane (2)		ND
trans-1,3-Dichloropropane (2)		ND
Styrene		ND

Not Detected

Reviewed & Approved by:

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Rosemary L. Dineen
Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #268181760

REPORT NUMBER: 89699

ANALYTICAL REPORT

dro-Search, Inc.
 5 Executive Drive, Suite 309
 Brookfield, WI 53005

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/09/89
 DATE RECEIVED: 12/09/89

Attn: Mr. Rick Binder
 (Project #251E09533)

Groundwater Samples (Chrysler, Kenosha)

Units: ug/l (ppb)
 Detection Limit: 1, unless otherwise noted below in ()

ANALYTES	SEI ID	1416-12
SCREEN & TRAP	Sample ID	MP-14H mw-24A
Ethylene chloride		ND
1,1,2,2-Tetrachloroethane (3)		ND
Tetrachloroethene		ND
Benzene		ND
1,1,1-Trichloroethane		ND
1,1,2-Trichloroethane		ND
Chloroethene		ND
Trichlorofluoromethane		ND
Vinyl chloride (10)		ND
Arenes		ND

Not Detected

Reviewed & Approved by:

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 Laboratory Supervisor

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AIHA Accreditation #352
 WDNR Certification #268 181760

REPORT NUMBER: B9671

ANALYTICAL REPORT

Hydro-Search, Inc.
 35 Executive Drive, Suite 309
 Brookfield, WI 53005

Attention: Mr. Rick Binder
 (Project 251E09533)

DATE: December 7, 1989
 PURCHASE ORDER:
 SEI JOB NO: WL1209
 DATE COLLECTED: 11/14/89
 DATE RECEIVED: 11/16/89

Oil Samples (Chrysler, Kenosha)

Units: mg/kg (ppm)
 Detection Limit: 2, unless otherwise noted below in ()

SEI ID	1209-11	1209-12	1209-13	1209-14	1209-15
4-6'	4-6'	2-4'	4-6'	0-2'	4-6'
EXTRACTABLES	MP-14G2	MP-14H1	MP-14H2	MP-14I1	MP-14I2
Sample ID		MW-24A	MW-24A		
-Chloro-3-methylphenol	ND	ND	ND	ND	ND
-Chlorophenol	ND	ND	ND	ND	ND
,4-Dichlorophenol	ND	ND	ND	ND	ND
,4-Dimethylphenol	ND	ND	ND	ND	ND
,4-Dinitrophenol (20)	ND	ND	ND	ND	ND
-Methyl-4,6-dinitrophenol	ND	ND	ND	ND	ND
)					
-Nitrophenol	ND	ND	ND	ND	ND
-Nitrophenol	ND	ND	ND	ND	ND
entachlorophenol	ND	ND	ND	ND	ND
phenol	ND	ND	ND	ND	ND
,4,6-Trichlorophenol	ND	ND	ND	ND	ND

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor



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AIHA Accreditation #352
 WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B9699

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project #251E09533)

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/09/89
 DATE RECEIVED: 12/09/89

Groundwater Samples (Chrysler, Kenosha)

Units: mg/l (ppm)
 Detection Limit: Noted below in ()

	SEI ID	1416-7	1416-8	
		17'	17'	
Parameter	Sample ID	MP2E	MP2P	
Organo Lead		†	*	

	SEI ID	1416-9	1416-10	1416-12
		MW-24	MP-15H	MP-14H
Parameter	Sample ID			MW-24A
Soluble				
Cadmium (0.0002)		ND	ND	ND
Chromium (0.001)		ND	0.001	ND
Lead (0.001)		0.004	0.003	0.004
Nickel (0.02)		0.03	0.02	ND
Zinc (0.02)		ND	0.05	ND
Cyanides, Total (0.005)		ND	ND	--
Phenols (0.002)		0.029	0.025	--
Total PCB's, ug/l (0.5)		8.0	ND	--

* Insufficient sample
 ** Concentration of Total PCB's based on response of Arochlor 1242, 1248, 1254, and 1260.

ND=Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
 Laboratory Supervisor

Table 4-26. Summary of Detected Constituents in Ground Water Samples, Site MP-14

Parameter	MP-14API B9671*	MW-24A B9699*	NR140**	
			Enforcement Standard	PAL
<u>Soluble Metals</u> Lead (0.001)	ND	0.004	0.050	0.005

Note: All values in parts per million (ppm)

() = Detection Limit (ppm)

ND = Not Detected

* Laboratory Report Number; Analyses by Swanson Environmental, Inc., Brookfield Wisconsin, AIHA Accreditation #352, WDNR Certification #26818170, Appendix C.

** Per Chapter NR140 of the Wisconsin Administrative Code

PAL Preventive Action Limit

Monitor well locations are depicted on Figure 4-11.

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AIHA Accreditation #352
 WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: 89633

Hydro-Search, Inc.
 235 Executive Drive, Suite 309
 Brookfield, WI 53005

Attn: Mr. Rick Binder
 (Project #251E09533)

DATE January 5, 1990
 PURCHASE ORDER:
 SEI JOB NO: WL1416
 DATE COLLECTED: 12/08/89
 DATE RECEIVED: 12/09/89

Groundwater Samples (Chrysler, Kenosha)

Units: mg/l (ppm)
 Detection Limit: Noted below in ()

	SEI-ID	1416-7	1416-9
		17'	17'
Parameter	Sample ID	MP25	MP22

Organo Lead * *

	SEI ID	1416-9	1416-10	1416-12
		MW-24	MP-15H	MP-14
Parameter	Sample ID			

MW-24A

Parameter	SEI ID	1416-9	1416-10	1416-12
Soluble				
Cadmium (0.0002)		ND	ND	ND
Chromium (0.001)		ND	0.001	ND
Lead (0.001)		0.004	0.003	0.004
Nickel (0.02)		0.03	0.02	ND
Zinc (0.02)		ND	0.05	ND
Cyanides, Total (0.005)		ND	ND	--
Phenols (0.002)		0.023	0.025	--
Total PCB's**, ug/l (0.5)		8.0	ND	--

* Insufficient sample
 ** Concentration of Total PCB's based on response of Arochlor 1242, 1246, 1254, and 1260.

ND--Not Detected

Reviewed & Approved by:

Rosemary L. Dineen
 Rosemary L. Dineen
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