

Waukesha Co.
ERR/ERP
FID# 268091890

GIBBS, ROPER, LOOTS & WILLIAMS, S.C.

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OF COUNSEL
RICHARD S. GIBBS
THOMAS B. FIFIELD

February 3, 1994

Ms. Margaret Graefe
Wisconsin Department of Natural Resources
4041 N. Richards Street
Milwaukee, WI 53212

Re: Perkins Avenue Facility
1005 Perkins Avenue
Waukesha, Wisconsin
DNR File Reference 4440-2916

Dear Ms. Graefe:

This letter is a follow-up to my correspondence to you of December 2, 1993, regarding the removal of contaminated soil at the facility referenced above. I am submitting to you at this time a letter report dated February 2, 1994, prepared by Versar, Inc. This report outlines the current status of the removal operations pertaining to certain contaminated soils at the east lot of the facility. This letter report supplements the Phase III Environmental Assessment and Conceptual Action Plan that I forwarded to you with my December 2 letter. As indicated in the report, Versar is awaiting receipt of necessary permits to conclude the final disposal of the soils. I will advise you once the soils have been removed from the site, so that we may obtain site closure.

Please let me know if you have any questions regarding the status of this matter. Thank you very much.

Sincerely,

GIBBS, ROPER, LOOTS & WILLIAMS, S.C.

David J. Edquist

DJE/mss

Enclosure

cc: Jon Hill (w/o enclosure)
Doug Dahlberg (w/o enclosure)



February 2, 1994

Mr. David Edquist
Gibbs, Roper, Loots, and Williams, S.C.
735 North Water Street
Milwaukee, Wisconsin 53202

Subject: Foundry Sand Containing PCB Contamination
East Lot, Perkins Avenue Site
Waukesha, Wisconsin
Versar Project No. 1871.004

Dear Mr. Edquist:

The purpose of this letter is to present the results from Phase III remedial action, and is to amend Versar's Phase III Assessment and Conceptual Action Plan report for the above referenced site. The report was submitted in November 1993 and detailed the multi-phased investigation to verify the presence and areal extent of PCB contamination, as well as to propose clean up alternatives for PCB impacted soils.

The site has an approximate area of 150 feet square which contains fill deposits composed of foundry sand with minor amounts of wood, brick, and concrete fragments. PCBs were detected in surface and test pit sampling during the Phase II investigation. Completion of the Phase III investigations delineated PCB contaminant extent and in place quantities through the use of soil borings with surface and subsurface sampling. Both hazardous and non hazardous levels of PCBs were found in the fill. PCBs in concentrations above 50 parts per million (ppm) are considered hazardous, while levels less than 50 ppm are considered non hazardous. The Wisconsin Department of Natural Resources (WDNR) has set 5 ppm as an action level for remediation of PCB contamination. Based on the quantity and extent of PCB contamination, excavation and disposal of contaminated soils was the selected to expedite remediation. Excavated soils would be disposed of in a permitted landfill facility.

Groundwater monitoring well EMW-03 was located within the boundaries of soil to be removed. The well was abandoned per WDNR guidelines on December 9th and 10th. The well casing was filled with bentonite chips on December 9th. The chips were hydrated with distilled water over a 24 hour period. The well was cut at 3 feet below ground surface when the remedial excavation reached its location on December 10th. A copy of the well abandonment report and procedures is included in Appendix E.

Initial remedial activities were performed by E & K Hazardous Waste, and occurred on December 9th and 10th. All on-site activities were observed by a Versar field geologist. Based on previous analytical results, soil was excavated and segregated into hazardous and non hazardous stockpiles. Excavated material was placed on and covered by polyethylene sheeting. Excavation floor and sidewall samples, taken by Versar, were analyzed by CBC Environmental Laboratories. Sidewall samples were collected every 20 linear feet of sidewall face. Floor samples were collected at a frequency of a single sample for every 400 square feet of excavation floor. Analytical results indicate PCB concentrations above action levels in four floor (ie; F-2, F-4, F-6, and F-9) sample locations. PCB concentrations ranging between

Mr. David Edquist
Gibbs, Roper, Loots, and Williams, S.C.
Project No. 1871.004

February 2, 1994
Page 2

5 and 50 ppm were found in three locations. A fourth location was found to contain PCBs in excess of 50 ppm. Refer to Figure 9 for initial excavation geometry and sample locations, Table 3 for analytical results, and Appendix F for laboratory data sheets.

E & K mobilized by the site on December 17th for a subsequent phase of soil removal. Additional soils were removed in the location of the four floor samples which exceeded the WDNR action limits and placed into appropriate stockpiles. Four additional floor samples were taken which replicated the failed sample locations. Analytical results indicate that one (ie; F-10) of the four samples contained PCB concentrations above the 5 ppm action level. Refer to Figure 10 for excavation geometry and sample locations, Table 3 for analytical results, and Appendix F for laboratory data sheets.

The single analytical hit, sample F-10, from the second remedial effort was located at the deepest portion of the excavation. Versar mobilized to the site on December 23rd to take four more floor samples (ie; F-14, F-15, F-16, and F-17) in the vicinity of F-10. Two samples were from the same level as F-10 and two samples were taken from a horizon four to six inches deeper than the failed sample. Analytical results indicate the horizon that F-10 was from still contain concentrations of PCBs which require remedial action as special waste (ie; F-14, and F-17). However, the lower horizons are free of PCBs above state action levels (ie; F-15, and F-16). The additional soil needing removal will be excavated to the depth where samples indicate PCB concentrations below WDNR action levels and added to existing stockpiled when E & K will be at the site to load stockpiled soil for disposal. Refer to Figure 11 for excavation geometry and sample locations, Table 3 for analytical results, and Appendix F for laboratory data sheets.

Versar calculated that approximately 60 cubic yards of hazardous and 100 cubic yards on non-hazardous soil would be removed. This estimate was based on the net in place air space volume as determined by previous analytical results. The final stockpile geometry has an estimated volume between 75 to 85 cubic yards of hazardous and 120 to 130 cubic yards of non-hazardous soil. The difference between the initial estimate and final soil volume can be attributed to both excavation of additional soils due to failed floor samples, and bulking from removing compacted soil and placing it into uncompacted stockpiles. Additional bulking may occur from filling dump trailers for transporting waste to disposal facilities.

Disposal cost will be based upon the total weight of soil brought to the landfill. The disposal facilities will utilize truck scales to determine the weight of the soil being disposed. The percentage of moisture in the soil will be a factor in soil disposal weights. Actual quantities of soil, removed from the site, will be determined from scale tickets used for invoicing by disposal facilities. These weights will be used for reporting to the WDNR when remediation is completed.

Presently, E & K is proceeding with obtaining the necessary permits for disposal of both hazardous and non hazardous soils. Attached are several Appendices which includes figures, analytical results, laboratory data sheets, and a photographic log all of which detail remedial activities taken at the site. This letter and attached appendices is an amendment to the Phase III Report submitted in November,

Mr. David Edquist
Gibbs, Roper, Loots, and Williams, S.C.
Project No. 1871.004

February 2, 1994
Page 3

1993. The attachments are consistent with the sequence in the Phase III Report. Please forward this amendment to the WDNR personnel you have been working with. An additional letter amendment explaining soil disposal sites and quantities can be drafted after those task are completed, if it is deemed necessary by the WDNR. Please feel free to contact us, or Mark Strack at (708) 990-7555 if you have any questions or comments.

Sincerely,



Michael Melton
Project Geologist



Doug Dahlberg, PE
Project Manager

cc: Mark Strack, Versar

MM/mm

Attachments

APPENDIX E

WDNR WELL ABANDONMENT FORMS

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Waukesha</u>	Original Well Owner (If Known) <u>Adelmann, VME</u>	
<u>NE</u> 1/4 of <u>NE</u> 1/4 of Sec. <u>2</u> ; T. <u>6</u> N; R. <u>19</u>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner	
(If applicable) Gov't Lot _____ Grid Number _____	Street or Route <u>1005 Perkins Avenue, East Lot</u>	City, State, Zip Code <u>Waukesha WI 53186</u>	
Grid Location <u>375808.5</u> ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S., <u>2479437.1</u> ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Facility Well No. and/or Name (If Applicable) <u>EMW-03</u>	WI Unique Well No.	
Civil Town Name <u>Waukesha</u>	Reason for Abandonment <u>for Soil Remediation</u>	Date of Abandonment <u>12-9th and 10th - 1993</u>	
Street Address of Well <u>1005 Perkins Avenue, East Lot</u>	City, Village <u>Waukesha</u>		

WELL/DRILLHOLE/BOREHOLE INFORMATION

3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>05/12/93</u>	(4) Depth to Water (Feet) <u>16.4</u>
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If No, Explain <u>cut below pipe at -4' from grade and removed protective casing</u>
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____
Total Well Depth (ft.) <u>25.1</u> Casing Diameter (ins.) <u>2.0</u> (From ground surface)	(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite
Casing Depth (ft.) <u>25.1</u>	<input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite
Was Well Annular Space Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>from -3.4 to -11.6 feet</u> Feet	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>Pure Gold Chipped Bentonite</u>	<u>Surface</u>	<u>-25.1</u>	<u>1/2 bag</u>	<u>N/A</u>

(8) Comments: placed bentonite on 12-9-93 and hydrated w/ distilled water. Then excavated down to -4' and cut PVC casing on 12-10-93

(9) Name of Person or Firm Doing Sealing Work
Versar Inc, Michael Melton

Signature of Person Doing Work <u>Michael Melton</u>	Date Signed <u>1-21-94</u>
Street or Route <u>1520 Kensington Rd</u>	Telephone Number <u>(708) 990-7555</u>
City, State, Zip Code <u>Oak Brook, IL 60521-2139</u>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

Facility Name: *Old Ackerman/VME East Lot* Facility ID Number: _____ Date: *12-28-93* Completed By (Name and Firm): *Michael Melton, Versar Inc.*

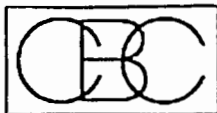
Well Name	DNR Well ID Number	Well Location	N	S	E	W	Date Established	Well Casing		Elevations		Reference		Screen Length	Well Depth	Type of Well (✓)					Gradient U, S, D or N			
								Diam.	Type	Top of Well Casing	Ground Surface	MSL (✓)	Site Datum (✓)			PIEZ	OW	PW	LVS	Other		Abandoned	Enf. Stds Apply	
<i>EMW-03</i>		<i>375808.05'</i>		<input checked="" type="checkbox"/>			<i>05/12/93</i>	<i>2"</i>	<i>PVC</i>	<i>850.75'</i>	<i>848.39'</i>	<input checked="" type="checkbox"/>		<i>10'</i>	<i>25.1'</i>	<input checked="" type="checkbox"/>							<i>Up Gradient</i>	
		<i>2479437.11'</i>			<input checked="" type="checkbox"/>																			

Location Coordinates Are: *375,808.05' North and 2,479,437.11' East, Sect 2, T6N, R9E*

Local Grid System (preferred) State Plane Coordinate Northern Central

Remarks: *Abandoned by filling of Bentonite chips, hydrating chips and cutting well casing off @ 3' below surface grade. Abandoned on 12-9th and 10th - 1993. Well had been constructed of PVC w/ Bentonite seal*

PSS Use:
File Maint. Completed: _____
Other: _____



**ENVIRONMENTAL
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LABORATORY REPORT

PAGE 1

12/13/93

E102 9308803 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93343-E02366 W-8/WALL SAMPLE #8/SOIL/VHE OLD EAST LOT/
PROJECT# 1871.004

DATE COLLECTED 12/09/93 DATE RECEIVED 12/09/93

RESERVED: YES TEMPERATURE: ON ICE

CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

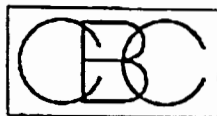
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AROCLOR 1221	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/10/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/09/93	SW846 3540	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

⊖ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
\$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE QUANTITY. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.

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APPROVAL WJL



ENVIRONMENTAL LABORATORIES INC.

2/13/93

LABORATORY REPORT

PAGE 1

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

E102 9308803 W04
CS/07/ / /

CHAIN OF CUSTODY

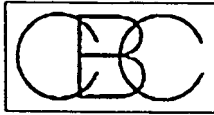
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PROJECT# 1871.004
DATE COLLECTED 12/09/93 DATE RECEIVED 12/09/93
PRESERVED: YES TEMPERATURE: ON ICE
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AROCLOR 1221	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/10/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/09/93	SW846 3540	

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2/13/93

PAGE 1

E102 9308803 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93343-E02368 F-6/FLOOR SAMPLE #6/SOIL/VME OLD EAST LOT/
PROJECT# 1871.004

DATE COLLECTED 12/09/93 DATE RECEIVED 12/09/93

PRESERVED: YES TEMPERATURE: ON ICE

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AROCLOR 1242	<10	# PPM	12/10/93	SW846 8080	
AROCLOR 1248	<10	# PPM	12/10/93	SW846 8080	
AROCLOR 1254	47	PPM	12/10/93	SW846 8080	
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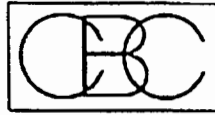
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12/13/93

LABORATORY REPORT

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E102 9308803 W04
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VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93343-E02369 F-7/FLOOR SAMPLE #7/SOIL/VME OLD EAST LOT/
PROJECT# 1871.004

DATE COLLECTED 12/09/93 DATE RECEIVED 12/09/93

PRESERVED: YES TEMPERATURE: ON ICE

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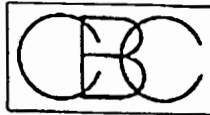
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AROCLOR 1221	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/10/93	SW846 8080	
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AROCLOR 1254	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/10/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/09/93	SW846 3540	

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LABORATORIES INC.**

2/13/93

LABORATORY REPORT

PAGE 1

E102 9308803 W04
CS/07/ / /

CHAIN OF CUSTODY

WERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

SAMPLE 93343-E04002 W-1/WALL SAMPLE #1/SOIL/VME OLD EAST LOT/
PROJECT# 1871.004

DATE COLLECTED 12/09/93 DATE RECEIVED 12/09/93

RESERVED: YES TEMPERATURE: ON ICE

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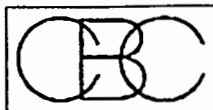
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AROCOR 1242	<1.0	PPM	12/10/93	SW846 8080	
AROCOR 1248	<1.0	PPM	12/10/93	SW846 8080	
AROCOR 1254	<1.0	PPM	12/10/93	SW846 8080	
AROCOR 1260	<1.0	PPM	12/10/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/09/93	SW846 3540	

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= ELEVATED DETECTION LIMIT DUE TO SAMPLE QUANTITY. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.

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**ENVIRONMENTAL
LABORATORIES INC.**

12/13/93

LABORATORY REPORT

PAGE 1

E102 9308803 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93343-E04003 W-2/WALL SAMPLE #2/SOIL/VME OLD EAST LOT/
PROJECT# 1871.004

DATE COLLECTED 12/09/93 DATE RECEIVED 12/09/93
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

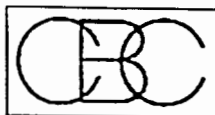
<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/10/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/09/93	SW846 3540	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

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+ = ELEVATED DETECTION LIMIT DUE TO SAMPLE QUANTITY. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.

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**ENVIRONMENTAL
LABORATORIES INC.**

LABORATORY REPORT

PAGE 1

12/13/93

E102 9308803 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93343-E04004 W-10/WALL SAMPLE #10/SOIL/VME OLD EAST LOT/
PROJECT# 1871.004

DATE COLLECTED 12/09/93 DATE RECEIVED 12/09/93

RESERVED: YES TEMPERATURE: ON ICE

CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPH	12/10/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1260	<1.0	PPH	12/10/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/09/93	SW846 3540	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS

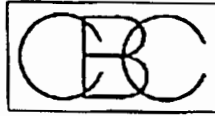
AFTER RECEIPT, N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

\$ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.

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**ENVIRONMENTAL
LABORATORIES INC.**

LABORATORY REPORT

PAGE 1

12/13/93

E102 9308803 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93343-ED4005 W-9/WALL SAMPLE #9/SOIL/VME OLD EAST LOT/
PROJECT# 1871.004

SAMPLE COLLECTED 12/09/93 DATE RECEIVED 12/09/93
RESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

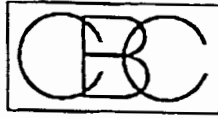
<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/10/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/10/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/09/93	SW846 3540	

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**ENVIRONMENTAL
LABORATORIES INC.**

LABORATORY REPORT

PAGE 1

12/14/93

E102 9308803 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93344-E02366 F-3/FLOOR #3/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
RESERVED: YES TEMPERATURE: ON ICE
MONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

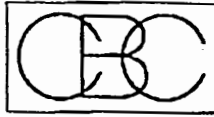
<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/12/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

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**ENVIRONMENTAL
LABORATORIES INC.**

LABORATORY REPORT

12/14/93

PAGE 1

E102 9308803 W04
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VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93344-E02367 F-8/FLOOR #8/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
RESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

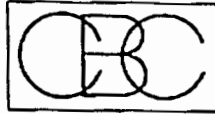
<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/12/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

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LABORATORIES INC.**

LABORATORY REPORT

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PAGE 1

E102 9308803 W04
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VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93344-E02368 F-4/FLOOR #4/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
RESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<20	# PPM	12/13/93	SW846 8080	
AROCLOR 1221	<20	# PPM	12/13/93	SW846 8080	
AROCLOR 1232	<20	# PPM	12/13/93	SW846 8080	
AROCLOR 1242	84	PPM	12/13/93	SW846 8080	
AROCLOR 1248	<20	# PPM	12/13/93	SW846 8080	
AROCLOR 1254	<20	# PPM	12/13/93	SW846 8080	
AROCLOR 1260	<20	# PPM	12/13/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

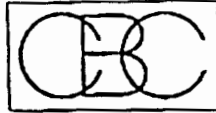
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**ENVIRONMENTAL
LABORATORIES INC.**

12/14/93

LABORATORY REPORT

PAGE 1

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

E102 9308803 W04
CS/07/ / /

CHAIN OF CUSTODY

SAMPLE 93344-E02369 W-3/WALL #3/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

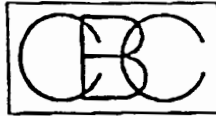
<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/13/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

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**ENVIRONMENTAL
LABORATORIES INC.**

LABORATORY REPORT

12/14/93

PAGE 1

E102 9308803 W04
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VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93344-E04002 W-7/WALL #7/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

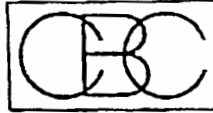
<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/13/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

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LABORATORIES INC.**

LABORATORY REPORT

12/14/93

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E102 9308803 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93344-E04003 W-6/WALL #6/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

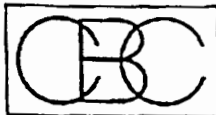
TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
AROCLOR 1016	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/13/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

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**ENVIRONMENTAL
LABORATORIES INC.**

LABORATORY REPORT

12/14/93

PAGE 1

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

E102 9308803 W04
CS/07/ / /

CHAIN OF CUSTODY

SAMPLE 93344-E04004 W-12/WALL #12/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

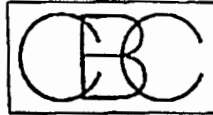
<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCOR 1016	<1.0	PPM	12/13/93	SW846 8080	
AROCOR 1221	<1.0	PPM	12/13/93	SW846 8080	
AROCOR 1232	<1.0	PPM	12/13/93	SW846 8080	
AROCOR 1242	<1.0	PPM	12/13/93	SW846 8080	
AROCOR 1248	2.4	PPM	12/13/93	SW846 8080	
AROCOR 1254	<1.0	PPM	12/13/93	SW846 8080	
AROCOR 1260	<1.0	PPM	12/13/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

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**ENVIRONMENTAL
LABORATORIES INC.**

12/14/93

LABORATORY REPORT

PAGE 1

E102 9308603 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93344-E04005 F-9/FLOOR #9/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

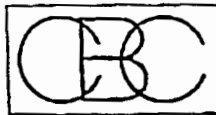
TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
AROCLOR 1016	<5.0	# PPM	12/13/93	SW846 8080	
AROCLOR 1221	<5.0	# PPM	12/13/93	SW846 8080	
AROCLOR 1232	<5.0	# PPM	12/13/93	SW846 8080	
AROCLOR 1242	5.9	PPM	12/13/93	SW846 8080	
AROCLOR 1248	<5.0	# PPM	12/13/93	SW846 8080	
AROCLOR 1254	<5.0	# PPM	12/13/93	SW846 8080	
AROCLOR 1260	<5.0	# PPM	12/13/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

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\$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE QUANTITY. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.

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APPROVAL *[Signature]*



**ENVIRONMENTAL
LABORATORIES INC.**

12/14/93

LABORATORY REPORT

PAGE 1

E102 9308803 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93344-E04006 W-4/WALL #4/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
AROCLOR 1016	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/13/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

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**ENVIRONMENTAL
LABORATORIES INC.**

12/14/93

LABORATORY REPORT

PAGE 1

E102 9308803 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93344-ED4007 W-11/WALL #11/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

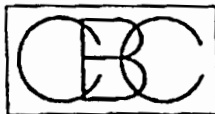
<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1248	2.7	PPM	12/13/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/13/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

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**ENVIRONMENTAL
LABORATORIES INC.**

LABORATORY REPORT

12/14/93

PAGE 1

ET02 9308803 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93344-E04008 F-2/FLOOR #2/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

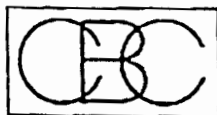
TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
AROCLOR 1016	<5.0	# PPM	12/13/93	SW846 8080	
AROCLOR 1221	<5.0	# PPM	12/13/93	SW846 8080	
AROCLOR 1232	<5.0	# PPM	12/13/93	SW846 8080	
AROCLOR 1242	9.1	PPM	12/13/93	SW846 8080	
AROCLOR 1248	<5.0	# PPM	12/13/93	SW846 8080	
AROCLOR 1254	<5.0	# PPM	12/13/93	SW846 8080	
AROCLOR 1260	<5.0	# PPM	12/13/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

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ENVIRONMENTAL LABORATORIES INC.

12/14/93

LABORATORY REPORT

PAGE 1

E102 9308803 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK ,IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93344-ED4009 F-1/FLOOR #1/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
AROCLOR 1016	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/12/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/12/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

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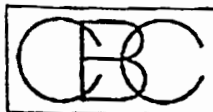
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[Signature]


**ENVIRONMENTAL
LABORATORIES INC.**

12/14/93

LABORATORY REPORT

PAGE 1

E102 9308803 W04
CS/07/ / /

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93344-E04010 W-5/WALL #5/FOUNDRY SAND/OLD VME EAST LOT
DATE COLLECTED 12/10/93 DATE RECEIVED 12/10/93
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/13/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/13/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/10/93	SW846 3580	

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**ENVIRONMENTAL
LABORATORIES INC.**

12/21/93

LABORATORY REPORT

PAGE 1

E102 9309069 W15

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK ,IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93351-E04002 F-10/PROJECT # 1871.004/OLD VME EAST LOT/FOUNDRY
SAND

DATE COLLECTED 12/17/93 DATE RECEIVED 12/17/93

PRESERVED: NO TEMPERATURE: ON ICE

CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

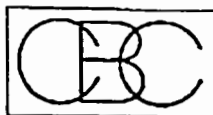
<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<5.0	# PPM	12/20/93	SW846 8080	
AROCLOR 1221	<5.0	# PPM	12/20/93	SW846 8080	
AROCLOR 1232	<5.0	# PPM	12/20/93	SW846 8080	
AROCLOR 1242	<5.0	# PPM	12/20/93	SW846 8080	
AROCLOR 1248	<5.0	# PPM	12/20/93	SW846 8080	
AROCLOR 1254	9.9	PPM	12/20/93	SW846 8080	
AROCLOR 1260	<5.0	# PPM	12/20/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/17/93	SW846 3550	

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**ENVIRONMENTAL
LABORATORIES INC.**

12/21/93

LABORATORY REPORT

PAGE 1

E102 9309069 W15

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93351-E04005 F-13/PROJECT # 1871.004/OLD VME EAST LOT/FOUNDRY SAND

DATE COLLECTED 12/17/93 DATE RECEIVED 12/17/93

PRESERVED: NO TEMPERATURE: ON ICE

CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/20/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/17/93	SW846 3550	

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**ENVIRONMENTAL
LABORATORIES INC.**

12/21/93

LABORATORY REPORT

PAGE 1

E102 9309069 W15

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93351-E04004 F-12/PROJECT # 1871.004/OLD VME EAST LOT/FOUNDRY
SAND

DATE COLLECTED 12/17/93 DATE RECEIVED 12/17/93

PRESERVED: NO TEMPERATURE: ON ICE

CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/20/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/17/93	SW846 3550	

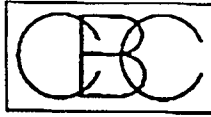
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**ENVIRONMENTAL
LABORATORIES INC.**

12/21/93

LABORATORY REPORT

PAGE 1

E102 9309069 W15

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93351-E04003 F-11/PROJECT # 1871.004/OLD VME EAST LOT/FOUNDRY
SAND

DATE COLLECTED 12/17/93 DATE RECEIVED 12/17/93

PRESERVED: NO TEMPERATURE: ON ICE

CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/20/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/20/93	SW846 8080	
PCB EXTRACTION	COMPLETE		12/17/93	SW846 3550	

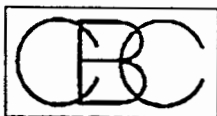
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**ENVIRONMENTAL
LABORATORIES INC.**

12/30/93

LABORATORY REPORT

PAGE 1

E102 9309269 W04

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93357-E04002 F-14/FLOOR LOCATION #14/SOIL/OLD VME EAST LOT/
PROJECT #1871.004

DATE COLLECTED 12/23/93 DATE RECEIVED 12/23/93

PRESERVED: NO TEMPERATURE: ON ICE

CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

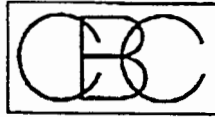
<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<5.0 #	PPM	12/30/93	SW846 8080	
AROCLOR 1221	<5.0 #	PPM	12/30/93	SW846 8080	
AROCLOR 1232	<5.0 #	PPM	12/30/93	SW846 8080	
AROCLOR 1242	<5.0 #	PPM	12/30/93	SW846 8080	
AROCLOR 1248	<5.0 #	PPM	12/30/93	SW846 8080	
AROCLOR 1254	5.6	PPM	12/30/93	SW846 8080	
AROCLOR 1260	<5.0 #	PPM	12/30/93	SW846 8080	
CONFIRMATION ?	DELETE		12/30/93	*****	
PCB EXTRACTION	COMPLETE		12/28/93	SW846 3540	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

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\$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE QUANTITY. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.

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ENVIRONMENTAL LABORATORIES INC.

LABORATORY REPORT

12/30/93

PAGE 1

E102 9309269 W04

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93357-E04003 F-15/FLOOR LOCATION #15/SOIL/OLD VME EAST LOT/
PROJECT #1871.004
DATE COLLECTED 12/23/93 DATE RECEIVED 12/23/93
PRESERVED: NO TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

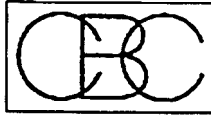
<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPM	12/30/93	SW846 8080	
AROCLOR 1221	<1.0	PPM	12/30/93	SW846 8080	
AROCLOR 1232	<1.0	PPM	12/30/93	SW846 8080	
AROCLOR 1242	<1.0	PPM	12/30/93	SW846 8080	
AROCLOR 1248	<1.0	PPM	12/30/93	SW846 8080	
AROCLOR 1254	<1.0	PPM	12/30/93	SW846 8080	
AROCLOR 1260	<1.0	PPM	12/30/93	SW846 8080	
CONFIRMATION ?	DELETE		12/30/93	*****	
CB EXTRACTION	COMPLETE		12/28/93	SW846 3540	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
\$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE QUANTITY. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.

IAHA ACCREDITED

APPROVAL (Signature)



**ENVIRONMENTAL
LABORATORIES INC.**

LABORATORY REPORT

12/30/93

PAGE 1

E102 9309269 W04

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93357-E04004 F-16/FLOOR LOCATION #16/SOIL/OLD VME EAST LOT/
PROJECT #1871.004

DATE COLLECTED 12/23/93 DATE RECEIVED 12/23/93

PRESERVED: YES TEMPERATURE: ON ICE

CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

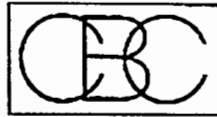
<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<1.0	PPH	12/30/93	SW846 8080	
AROCLOR 1221	<1.0	PPH	12/30/93	SW846 8080	
AROCLOR 1232	<1.0	PPH	12/30/93	SW846 8080	
AROCLOR 1242	<1.0	PPH	12/30/93	SW846 8080	
AROCLOR 1248	<1.0	PPH	12/30/93	SW846 8080	
AROCLOR 1254	<1.0	PPH	12/30/93	SW846 8080	
AROCLOR 1260	<1.0	PPH	12/30/93	SW846 8080	
CONFIRMATION ?	DELETE		12/30/93	*****	
PCB EXTRACTION	COMPLETE		12/28/93	SW846 3540	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
\$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE QUANTITY. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.

AIHA ACCREDITED

APPROVAL JM



**ENVIRONMENTAL
LABORATORIES INC.**

12/30/93

LABORATORY REPORT

PAGE 1

E102 9309269 W04

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROAD SUITE 115
OAK BROOK, IL 60521
ATTN: DOUG DAHLBERG

CHAIN OF CUSTODY

SAMPLE 93357-E04005 F-17/FLOOR LOCATION #17/SOIL/OLD VME EAST LOT/
PROJECT #1871.004
DATE COLLECTED 12/23/93 DATE RECEIVED 12/23/93
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
AROCLOR 1016	<19	# PPM	12/30/93	SW846 8080	
AROCLOR 1221	<19	# PPM	12/30/93	SW846 8080	
AROCLOR 1232	<19	# PPM	12/30/93	SW846 8080	
AROCLOR 1242	<19	# PPM	12/30/93	SW846 8080	
AROCLOR 1248	<19	# PPM	12/30/93	SW846 8080	
AROCLOR 1254	19	PPM	12/30/93	SW846 8080	
AROCLOR 1260	<10	# PPM	12/30/93	SW846 8080	
CONFIRMATION ?	DELETE		12/30/93	*****	
PCB EXTRACTION	COMPLETE		12/28/93	SW846 3540	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.

\$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE QUANTITY. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.

AIHA ACCREDITED

APPROVAL Jm

PROJECT NO.		PROJECT NAME				PARAMETERS										INDUSTRIAL HYGIENE SAMPLE			
1871.004		VME Old East lot														Y			
																NO. OF CONTAINERS		PCBs	
SAMPLERS: (Signature)					(Printed)														
Michael Mellon					Michael Mellon														
FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION														
W-1	12-9	14:35		✓	Well sample #1	Matrix Soil													
W-2		14:40			Well sample #2														
W-10		14:50			Well sample #10														
W-9		14:55			Well sample #9														
W-8		14:59			Well sample #8														
F-5		15:05			Floor sample #5														
F-6		15:10			Floor sample #6														
F-7		15:15			Floor sample #7														
W-11																			
Relinquished by: (Signature)			Date / Time		Received by: (Signature)			Relinquished by: (Signature)			Date / Time		Received by: (Signature)						
Michael Mellon			12-9-93 16:12		J. Larson														
(Printed)					(Printed)			(Printed)					(Printed)						
Michael Mellon																			
Relinquished by: (Signature)			Date / Time		Received for Laboratory by: (Signature)			Date / Time		Remarks									
										- Results due 5:12-13-93 - Job set up at Wendy Bishop's - Remaining samples will be in on Friday 12-10-93									
(Printed)					(Printed)														

CHAIN OF CUSTODY RECORD

PROJECT NO. 1871.004		PROJECT NAME Old VME East Lot					PARAMETERS					INDUSTRIAL HYGIENE SAMPLE	Y.	
SAMPLERS: (Signature) Michael Melton					(Printed) Michael Melton					REMARKS Matrix Fowdy Gard ↓				
FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	APBS							
F-10	12-17	9:10		✓	floor location # 10	1	✓							
F-11	12-17	10:30		✓	floor location # 11	1	✓							
F-12	12-17	11:10		✓	floor location # 12	1	✓							
F-13	12-17	11:45		✓	floor location # 13	1	✓							

Relinquished by: (Signature) Michael Melton			Date / Time 12-17 13:10		Received by: (Signature) LeAnn Seeger			Relinquished by: (Signature)			Date / Time		Received by: (Signature)	
(Printed) Michael Melton					(Printed) LeAnn Seeger			(Printed)					(Printed)	
Relinquished by: (Signature)			Date / Time		Received for Laboratory by: (Signature)			Date / Time		Remarks: Results on 12-21-93 fax to Doug Dahlberg @ (708) 990-7585				
(Printed)					(Printed)									

PROJECT NO.		PROJECT NAME					PARAMETERS										INDUSTRIAL HYGIENE SAMPLE		Y			
		Old VME East Cot																	N			
SAMPLERS: (Signature)					(Printed)					NO. OF CONTAINERS										REMARKS		
Michael McKen					Michael McKen																	
FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION											Matrix						
W-7	12-10	10:15		✓	Wall # 7											Fundry Sand						
W-6		10:49			Wall # 6																	
W-12		10:56			Wall # 12																	
F-9		11:00			Floor # 9																	
F-3		11:05			Floor # 3																	
F-8		11:10			Floor # 8																	
F-4		11:14			Floor # 4																	
W-3		13:20			Floor Wall # 3																	
W-4		13:28			Wall # 4																	
W-11		13:35			Wall # 11																	
F-2		13:40			Floor # 2																	
F-1		13:43		✓	Floor # 1																	
Relinquished by: (Signature)			Date / Time		Received by: (Signature)			Relinquished by: (Signature)			Date / Time		Received by: (Signature)									
Michael McKen			12-10-93 14:55		J. Larson																	
(Printed)					(Printed)			(Printed)					(Printed)									
Michael McKen																						
Relinquished by: (Signature)			Date / Time		Received for Laboratory by: (Signature)			Date / Time		Remarks												
(Printed)					(Printed)																	

PROJECT NO.		PROJECT NAME					PARAMETERS										INDUSTRIAL HYGIENE SAMPLE		Y
		Old VME East Lot					/												N
SAMPLERS: (Signature)					(Printed)												REMARKS		
Michael Melton					Michael Melton														
FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS											REMARKS		
W-5	12-10	13:50		✓	Wall # 5	1	PCBs										Matrix foundry sand		
Area																			
Relinquished by: (Signature)			Date / Time		Received by: (Signature)			Relinquished by: (Signature)			Date / Time		Received by: (Signature)						
Michael Melton			12-10-93 14:55		J Larson														
(Printed)					(Printed)			(Printed)					(Printed)						
Michael Melton																			
Relinquished by: (Signature)			Date / Time		Received for Laboratory by: (Signature)			Date / Time		Remarks									
										- Results due by 12-14-93 - Fax Preliminary Results to Doug Dalberg (702) 990-7585									
(Printed)					(Printed)														

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME					PARAMETERS						INDUSTRIAL HYGIENE SAMPLE		Y
1871.004		Old UME East Lot					NO. OF CONTAINERS PCBS						E102		N
SAMPLERS: (Signature) <i>Douglas J. Dahlberg</i>					(Printed) Douglas J. DAHLBERG								9309269		REMARKS
FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION										
F-14	12/23/93	2:30		/	Flow location # 14	1	/	E04002				SAME ELEVATION ADJACENT TO F13 1 FT SOUTH			
F-15	12/23/93	2:34		/	Flow location # 15	1	/	E04003				SIDEWALL 1 FT EAST			
F-16	12/23/93	2:37		/	FLOOR LOCATION # 16	1	/	E04004				SIDEWALL 3' SOUTH			
F-17	12/23/93	2:40		/	FLOOR LOCATION # 17	1	/	E04005				F17 - SEDIMENT BASE			
												3.64 TRF			
Relinquished by: (Signature) <i>Douglas J. Dahlberg</i>		Date / Time 12-23-93 3:30		Received by: (Signature) <i>LeAnn Seager</i>		Relinquished by: (Signature) <i>LeAnn Seager</i>		Date / Time 12/23/93 3:35p		Received by: (Signature) <i>John Wall</i>					
(Printed) DOUGLAS J. DAHLBERG				(Printed)		(Printed) LeAnn Seager				(Printed)					
Relinquished by: (Signature) <i>John Wall</i>		Date / Time 12-23-93 3:30		Received for Laboratory by: (Signature) <i>CO Clark</i>		Date / Time 12/23/93 3:30		Remarks							
(Printed)				(Printed)											

VERSAR, INC.
 PHOTO DOCUMENTATION SHEET

JOB: Perkins Avenue East Lot
PCB Soil Remediation
 Versar Job No. 1871.004

PHOTO NUMBER	DATE	TIME (24 hrs.)	DIRECTION TAKEN	LOCATION
1	12-10-93	08:48	East	Grading access road to area to be excavated
2	12-10-93	09:30	West	Excavating soil impacted with PCBs
3	12-10-93	10:10	East	Stockpiling excavated soil onto polyethylene
4	12-10-93	11:30	Northeast	Excavating contaminated soil
5	12-10-93	13:00	N/A	Removed upper 3' portion of EMW-3 with bentonite
6	12-11-93	12:00	Southeast	Excavation near completion
7	12-11-93	13:00	Southeast	Excavation at end of the initial phase of work
8	12-17-93	10:20	South	Second phase of soil excavation
9	12-17-93	14:45	Southwest	Covering stockpiles with polyethylene

CAMERA TYPE: Disposable
 ROLL NUMBER: 1 & 2 FILM TYPE: 200 speed
 PHOTO TAKEN BY: Michael Melton



1



2



3



4



5



6



7



8



9

TABLE 3
ANALYTICAL RESULTS
PCB REMEDIATION

TABLE 3
PCB CLEAN-UP, EXCAVATION ANALYTICAL RESULTS
EAST LOT, PERKINS AVENUE SITE
WAUKESHA, WISCONSIN

Sample #	PCB BY ALOCLOR, RESULTS EXPRESSED IN PARTS PER MILLION (ppm)							
	1016	1221	1232	1242	1248	1254	1260	Total PCBs
W-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W-3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W-4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W-5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W-6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W-7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W-8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W-9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W-10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
W-11	<1.0	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	2.7
W-12	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	2.4
F-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-2	<5.0	<5.0	<5.0	9.1	<5.0	<5.0	<5.0	9.1
F-3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-4	<20	<20	<20	84	<20	<20	<20	84
F-5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-6	<10	<10	<10	<10	<10	47	<10	47
F-7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-9	<5.0	<5.0	<5.0	5.9	<5.0	<5.0	<5.0	5.9
F-10	<5.0	<5.0	<5.0	<5.0	<5.0	9.9	<5.0	9.9

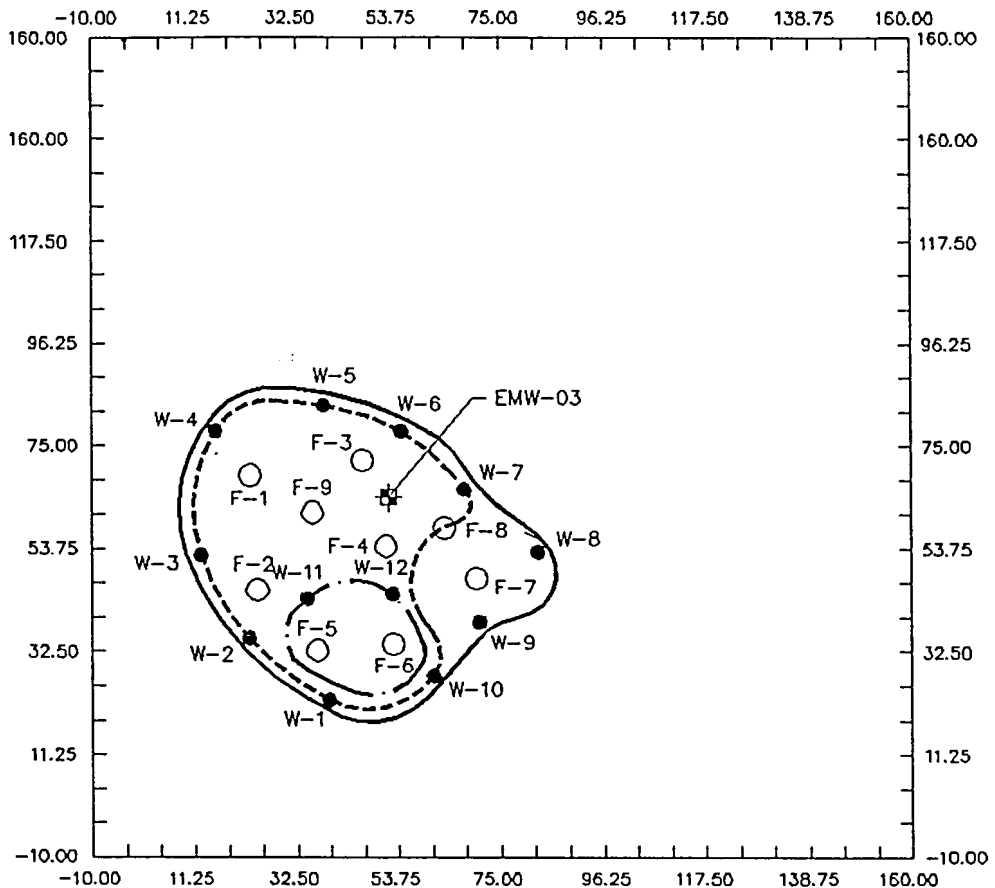
TABLE 3
PCB CLEAN-UP, EXCAVATION ANALYTICAL RESULTS
EAST LOT, PERKINS AVENUE SITE
WAUKESHA, WISCONSIN

Sample #	PCB BY ALOCLOR, RESULTS EXPRESSED IN PARTS PER MILLION (ppm)							
	1016	1221	1232	1242	1248	1254	1260	Total PCBs
F-11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-14	<5.0	<5.0	<5.0	<5.0	<5.0	5.6	<5.0	5.6
F-15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F-16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-17	<19	<19	<19	<19	<19	19	<10	19

Note: W = Wall samples from excavation
 F = Floor samples from excavation
 Shaded areas indicate analytical concentrations above practicable quantitation limit


FIGURES 9, 10, AND 11

EXCAVATION GEOMETRY AND SAMPLE LOCATIONS

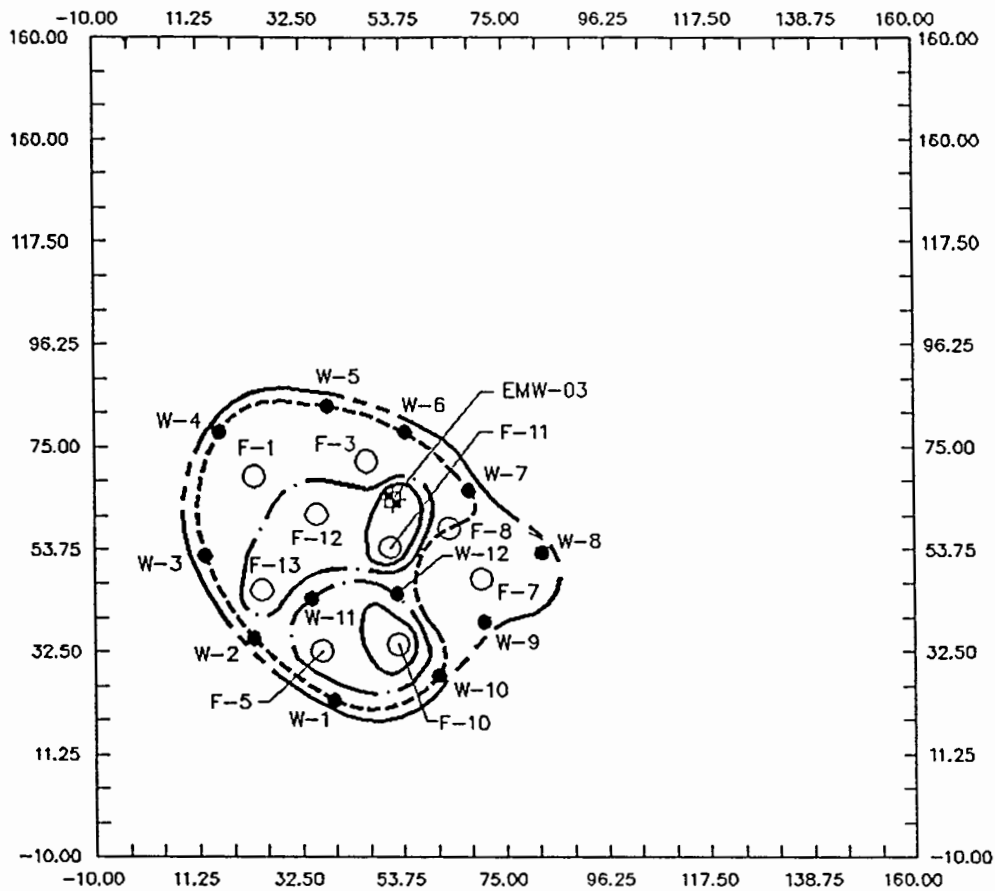


LEGEND

- ⊕ - MONITORING WELL LOCATION (PROPERLY ABANDONED)
- W - SAMPLE LOCATION (WALL)
- F - SAMPLE LOCATION (FLOOR)
- - EXCAVATION LIMITS
- - - - - 10" EXCAVATION CONTOUR
- · - · - 24" EXCAVATION CONTOUR


TITLE: FIGURE 9 PLAN VIEW OF PCB REMEDIATION AND SAMPLE LOCATIONS		
DESIGNED:	APPROVED:	FOR: VME AMERICAS, INC.
DRAWN: JDJ	DATE: 12/13/93	
CHECKED:	SCALE: AS NOTED	
 1520 KENSINGTON ROAD OAK BROOK, IL. 60521		PROJECT NO. 1871.002
		DRAWING NO. 18712A7

CAD FILE \1871002\18712A4.DWG

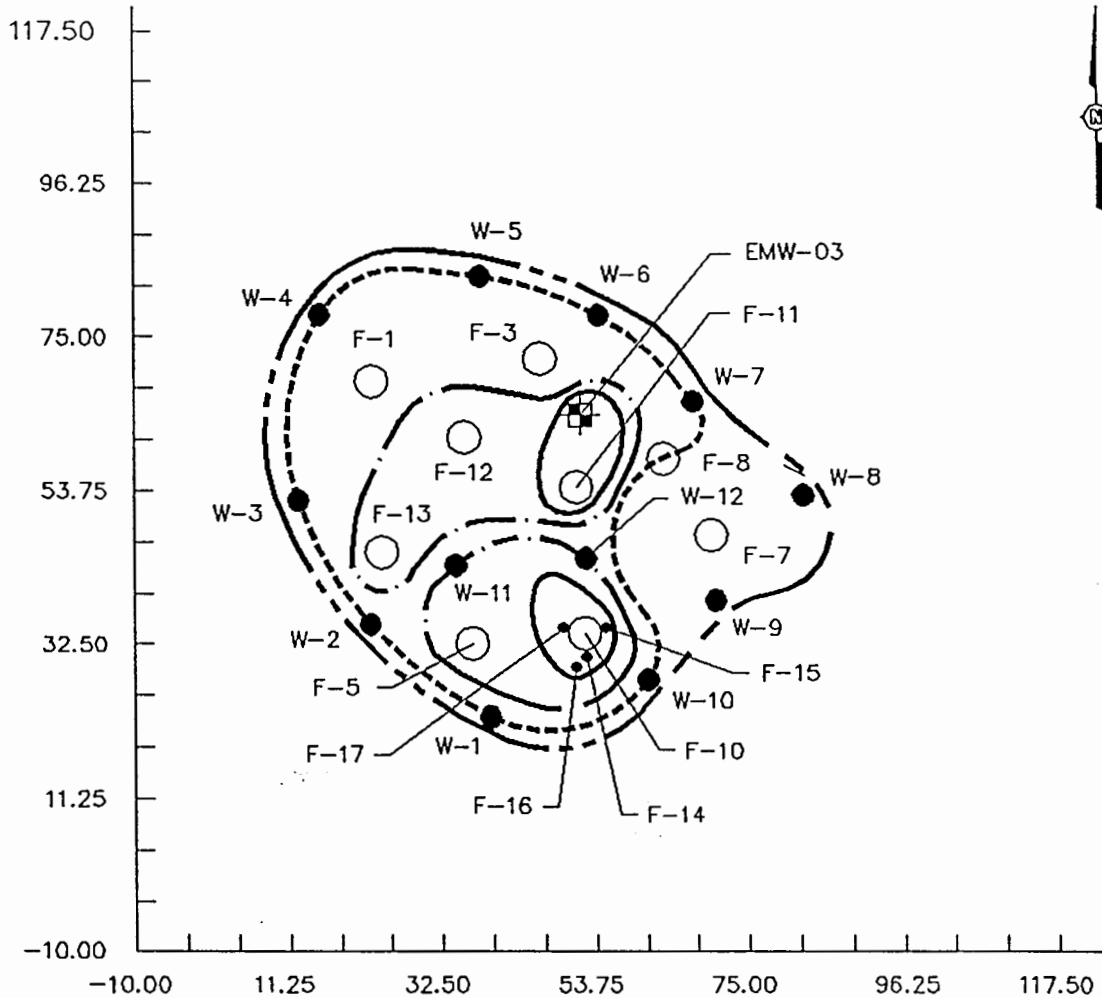


LEGEND

- ⊠ - MONITORING WELL LOCATION (PROPERLY ABANDONED)
- W - SAMPLE LOCATION (WALL)
- F - SAMPLE LOCATION (FLOOR)
- - EXCAVATION LIMITS
- - - - - 10" EXCAVATION CONTOUR
- · - · - 24" EXCAVATION CONTOUR
- 40" EXCAVATION CONTOUR

TITLE:		FIGURE 10 SECOND PHASE OF PCB REMEDIATION AND SAMPLE LOCATIONS	
DESIGNED:	APPROVED:	FOR: VME AMERICAS, INC.	
DRAWN: JDJ	DATE: 12/21/93		
CHECKED:	SCALE: AS NOTED		
 1520 KENSINGTON ROAD OAK BROOK, IL. 60521		PROJECT NO.	1871.004
		DRAWING NO.	18714A7

CAD FILE \1871004\18714A7.DWG



LEGEND

- F - FINAL ROUND SAMPLE LOCATION
- ⊕ - MONITORING WELL LOCATION (PROPERLY ABANDONED)
- W - SAMPLE LOCATION (WALL)
- F - SAMPLE LOCATION (FLOOR)
- - EXCAVATION LIMITS
- - 10" EXCAVATION CONTOUR
- · - · - 24" EXCAVATION CONTOUR
- - 40" EXCAVATION CONTOUR

TITLE: FIGURE 11		
FINAL ROUND OF PCB REMEDIATION AND SAMPLE LOCATIONS		
DESIGNED:	APPROVED:	FOR: VME AMERICAS, INC.
DRAWN: JDJ	DATE: 1/4/94	
CHECKED:	SCALE: AS NOTED	
Versar INC.		
1520 KENSINGTON ROAD OAK BROOK, IL. 60521		PROJECT NO. 1871.004
		DRAWNG NO. 18714A8

CAD FILE \1871004\18714A8.DWG