Versar INC.

December 2, 1993

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

Re: Perkins Avenue Site
1005 Perkins Avenue, Waukesha, WI
Versar Project Number 1871.003

Dear Mr. Edquist:

In agreement with our proposal and contract dated October 7, 1993, Versar, Inc. (Versar) hereby submits the following summary of the groundwater investigation results for the west lot of the subject facility. This letter contains a brief review of the investigation completed to date, conclusions that developed from the available data, and recommendations for potential additional actions.

This letter should be reviewed in conjunction with additional background information contained in the Phase I and Phase II reports submitted earlier by Versar.

Phase I Assessment

As part of the July 1992 Phase I Environmental Property Transfer Assessment, five underground storage tanks (USTs) were identified on the western portion of the subject property; one UST located inside the manufacturing building and four USTs clustered in the northern parking area. The USTs were no longer in service and were removed during the week of October 11, 1993. As you are aware, the required notification, observation and report submittal to the Wisconsin Department of Natural Resources (WDNR) has been completed. In addition to recommending removal of the USTs, the Phase I recommendations included an investigation adjacent to the USTs (prior to their removal) for the purpose of determining whether a release may have occurred. A Phase II investigation was authorized to implement that recommendation.

Phase II Investigation

A Phase II investigation was conducted in October 1992 in the vicinity of the USTs. Soil borings were advanced and soil samples were collected and analyzed in a laboratory for constituents related to the former tank contents. Boring logs are contained in Attachment A. Soil sampling analytical results are presented in Attachment B. The analytical results from the Phase II investigation indicated that soil within the USTs backfill contained petroleum constituents greater than the allowable 10 parts per million (ppm), as designated by the WDNR. Tank regulations established by the WDNR mandate that if the limit of 10 ppm is exceeded, a groundwater assessment must be conducted. Pursuant to the regulations, a groundwater assessment was authorized.

MIDWEST REGIONAL OFFICE • 1520 Kensington Road • Suite 115 • Oak Brook • Illinois 60521
Telephone: (708) 990-7555 • FAX: (708) 990-7585

Groundwater Assessment

Three shallow groundwater monitoring wells were installed in May 1993 as part of the groundwater assessment. Two wells were installed in the interpreted downgradient direction from the USTs, toward the unnamed creek to the east, and one well was installed upgradient, toward Perkins Avenue. Soil borings advanced for the purpose of constructing the wells indicate that a layer of silt and clay resides to a depth of 6 to 10 feet below grade. Boring and well logs are contained in Attachment C. Below the silt and clay is a permeable sand and gravel within which the monitoring wells are screened. The borings were terminated at approximately 16 feet below grade and the bottom elevation of the saturated sand and gravel was not identified. Groundwater elevations within the monitoring wells indicate a low-gradient flow toward the creek, however, due to the location of the wells the groundwater flow gradient along creek the could not be accurately determined. As a result of the low-gradient and the variable ground covers on and adjacent to the subject property such as bituminous pavement, natural soils and buildings, the groundwater flow gradient along the stream may occasionally change during precipitation events and high stream flow conditions. In addition, the potential for gravel backfill associated with storm sewers in this vicinity may also cause localized variations in the groundwater flow patterns. The relation of the storm sewer elevations to the groundwater surface was not researched, however, for this assessment.

Groundwater samples were collected from each well and analyzed for the compounds listed within the WDNR regulations. The analytical results confirmed that the release from the USTs had not impacted groundwater, however, volatile organic compounds (VOCs) were detected in the two downgradient wells (MW-02 and MW-03). Laboratory analytical results are shown in Attachment D. The detected VOCs are commonly used as degreasing agents and some may represent degradation products of parent material. The VOCs detected are listed in Table 1 - Analytical Summary and are not believed to be related to the tank contents.

Since the detected VOCs are unrelated to former tank contents, their source remained unknown. In an effort to estimate the vertical and horizontal extent of VOC contamination and establish a potential source, an additional groundwater assessment was authorized. This portion of the investigation consisted of a hydropunch groundwater sampling technique at nine locations. Locations were selected up-, down-, and cross-gradient from the two monitoring wells where the VOCs were detected. In addition, samples were collected in the upper and lower aquifers to define the vertical extent of contamination. Each of the hydropunch borings were used to collect groundwater samples and were subsequently abandoned using bentonite grout. The boring logs are contained in Attachment E. The approximate locations of the borings are shown on Attachment F.

Varying thicknesses of borrow fill was placed across the site. The fill consists of a conglomeration of earth materials which includes, but is not limited to: clay, silt, sand, gravel, spent casting sand, brick, wood, metal, and concrete.

The entire southeastern portion of Wisconsin is a glaciated with drift deposits overlying an erosional sedimentary bedrock surface. Unconsolidated natural deposits begin with a remanent of modern soil and end with erosional sands unconformly overlying bedrock. Unconsolidated natural deposits, under the site, are referred to the New Berlin Formation. This formation consist of glacial till, outwash, and lacustrine deposits.

The uppermost unit is a silty clay to clayey silt till with trace amounts of matrix bound sand and gravel. The till starts several feet below grade and extends to an average depth of 9 feet. Poorly sorted outwash sands and sandy gravels underlie the till. The sand deposit is saturated and contains trace amounts of fine grained material. The outwash base is located approximately 22 feet below surface grade. Lacustrine silts and clayey silts are located under the outwash. The deposit contains trace amounts of matrix bound sand and is reported to be quite uniform. The silt deposit grades into a fine sand at approximately 40 feet below surface grade. The fine sand deposit is poorly sorted and contains silt/clay and coarser fractions of sand. The sand is the erosional deposits which marks the transition between pre glacial and glacial events. The deposit ends approximately 45 feet below grade. Silurian aged dolomite bedrock underlies the erosional sand. The dolomite is reported to be fractured and contains groundwater. Older aged formations of sedimentary bedrock underlie the silurian dolomite for many hundreds of feet.

During the groundwater investigation that utilized the hydropunch techinque, Versar personnel located on the subject property, a drawing that indicated the possible existance on a sixth underground storage tank. Upon review of the data Versar received during the Phase I Assessment from the Department of Labor and Human Relations (DILHR), and from the local Fire Marshall Office, the existance of only five tanks were known at the time of registration by VME personnel. As you are aware, the five known tanks have been removed without contamination of the groundwater and soil. The existance of the sixth tank was not known to VME since the tank was not registered when the other tanks were registered. Consistant with this understanding of the tank, when Versar reviewed field notes related to the Phase I Assessment, we confirmed that upon questioning, on-site personnel understood that the paint booth area, where the tank is apparantly located, drained to the sanitary sewer. Versar therefore concluded that, based on available data, only five USTs were located on the subject property. In addition, during the Phase I Assessment, the area where the tank is apparantly located was covered with stockpiled material, rendering access or visual observation impossible.

During the removal of the five USTs, a sample of the contents of the sixth tank was collected by the tank removal contractor, to determine if the contamination in the groundwater had come from the tank. The laboratory analytical results of the tank sampling are included in Attachment G. The results indicate, when compared with the previously obtained groundwater sample laboratory analytical results, that the contents of the sixth tank have not been released to the groundwater and therefore the tank does not appear to be the source of the groundwater contamination.

Laboratory analytical results from the hydropunch groundwater samples, presented in Table 2 and Attachment H, confirm the previous analytical results from the monitoring wells and indicate the following:

TABLE 1 - ANALYTICAL SUMMARY*

COMPOUNDS	SAMPLE LOCATION				(PAL) PREVENTIVE ACTION LIMIT	(ES) ENFORCEMENT STANDARD
	MW-01	MW-02	MW-03	MW-03D**		
Volatiles in Parts Per Billion (ppb)						
1,1-Dichloroethane	ND	30	11	11	85	850
1,1-Dichloroethene	ND	ND	ND	10	.024	7
cis-1,2-Dichloroethene	ND	ND	ND	8	10	100
Hexachlorobutadine	ND	ND	ND	2	***	***
1,1,1-Trichloroethane	ND	330	42	49	40	200
Trichloroethene	ND	370	37	42	.18	5
trans-1,2-Dichloroethene	ND	ND	8.3	ND	20	100

MW = Monitoring Well
EB = Equipment Blank
ND = Not Detected

*** = Not Established
** = MW-03D is a duplicate sample of MW-03
* = Only Compounds detected are presented in Table.

PALs and ESs, are provided in the Leaking Underground Storage Tank (LUST) Analytical Guidance (PUBL-SW-138) by the Wisconsin Department of Natural Resources, dated June 1991. PALs and ESs are established by WAC NR 140.

TABLE 2
HYDROPUNCH ANALYTICAL SUMMARY

		1,1-Dichloroethane	1,2-Dichloroethene	CIS-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Hexachlorobutadiene	1,1,1-Trichloroethane	Trichloroethene
Sample Location	Depth	Concentrations in parts per billion (ppb)						
HP-1	17	6.7	2.9	ND	ND	ND	8.2	6.3
HP-1	48	ND	ND	ND	ND	ND	ND	ND
HP-2	18	2.7	ND	ND	ND	ND	1.5	8.3
HP-2	42	ND	ND	ND	ND	ND	ND	ND
HP-7	14	2.3	ND	ND	ND	ND	1.2	7.8
HP-3	42	ND	ND	ND	ND	ND	ND	ND
HP-4	13	8.6	ND	2.9	ND	ND	ND	29
HP-4	44	ND	ND	ND	ND	ND	ND	ND
HP-5	13.5	ND	ND	ND	ND	ND	ND	ND
HP-5	43.6	ND	ND	ND	ND	ND	3.6	ND
HP-6	15.6	ND	ND	ND	ND	ND	ND	ND
HP-7	15.6	7.6	ND	5.5	ND	ND	19	16
HP-8	15.5	ND	ND	ND	ND	ND	ND	ND
HP-9	15.5	5.8	ND	ND	ND	ND	53	75
HP-9	34	4.4	ND	ND	ND	ND	ND	ND

ND = non detect

1. The detected contaminants are generally confined to the upper sand aquifer. Only two compounds were found in the lower aquifer in locations HP-5 and HP-9 and the low concentration and the fact that the associated compounds were not identified suggests that their presence was a result of cross contamination from the upper aquifer or from sample handling techniques in the field or in the laboratory.

2. The highest concentrations of VOCs are located near the northern property line of the subject facility suggesting the groundwater flow direction in the immediate vicinity may be to the southeast. Refer to Attachments I, J, and K for isoconcentration contours of the primary compounds detected in the groundwater samples from both rounds of sampling events.

3. Chemicals detected further from the apparent source direction show a higher concentration of "daughter" chemicals of the potential source compounds suggesting a longer period in the environment. The release therefore appears not to be recent.

4. The sampling location closest to the stream has not been impacted indicating the potential for the reversed flow gradient as previously suspected.

5. The source of the contamination has not been confirmed, however, it could be concluded from the available data that the source could be off site, to the north of the facility. Contamination concentrations increase toward the northern property line and decrease toward the south, on to the subject property.

6. The horizontal extent of the investigation was not sufficient to determine the potential for receptors. In addition, vertical groundwater flow gradients are not known and the potential for hydraulic connection and discharge to the unnamed stream is not defined.

7. The analytical results of the sixth tank contents indicates that the tank has not released its contents to the groundwater and the source of the groundwater contamination is not this tank.

Recommendations

Similar to the recommendations contained in the Phase II report, since the source of the contamination is likely off-site and not clearly defined, and there is no record, evidence, or knowledge of a release or spill of the identified chemicals, notification requirements to the WDNR are subject to legal interpretation. In addition, since the property was acquired on February 12, 1993 by Dominick J. Giuffre and Frank P. Giuffre d/b/a D. F. Company, notification requirements may be the responsibility of the current owner.

In addition, because the results of the groundwater could be interpreted to indicate an off-site source to the north of the subject property, the adjacent property owner could be contacted to determine if they currently use or have at some time in the past have used chemical associated with the VOCs detected in the groundwater.

Thank you for this opportunity to provide additional environmental services. Should you have and questions or concerns regarding this proposal, please contact Doug Dahlberg or me at (708)990-7555.

Very truly yours,

Michael B. Place, CPG
Department Head,
Geosciences

Douglas J. Dahlberg P.E.
Project Manager

DJD/nd

cc: Jon Hill, VME

ATTACHMENT A
SOIL BORING LOGS

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
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Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		VSB-1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (MM DD YY)	Date Drilling Completed (MM DD YY)	Drilling Method
Versar Inc / Michael Melton, Geologist Long Engineering / Dahling, Driller	08 24 92	08 24 92	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Asphalt cover Fill Material										
SS-1	.3/2	4 6	2	1-1.3' Very dark grayish brown clay, soft, some gravel (slag fragments)	CH			ϕ						
		5 3	3											
			4											
SS-2	1.2/2	4 4	5	4-5.2 Yellowish brown (10YR 5/6) Silty Clay, mottled gray, 10%	CL			ϕ						
		8 6	6	gravel, moist				ϕ						
			7											
SS-3	1/2	9 8	8	7-8 Yellowish brown (10YR 5/4) sand, fine to medium, sub	SP			ϕ						
		11 4	9	angular to subrounded 10-20% gravel, wet				ϕ						
			10											
SS-4	1.2/2	9 12	11	10-11.2 Yellowish brown (10YR 5/4) Sand, fine to Coarse, subrounded	SP			ϕ						
		11 17	12	to subangular 20-30% gravel, wet				ϕ						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael Melton Firm: Versar Inc

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Sample and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
S-1	1.4/2	15/10	13	13-14.4 light yellowish brown (10YR 6/4) sand, fine, well sorted, 10% gravel	SP			0						
		15/20	14											
			15											
			16											
			17											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
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Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		VSB-2

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (M M D D Y Y)	Date Drilling Completed (M M D D Y Y)	Drilling Method
Versar Inc / Michael Mellon, Geologist Long Engineering / Darkling, Driller	08 24 92	08 24 92	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	0-0.5 Cement .5 Fill Material & Wood										
SS-1	1.4/2	2 2	2	1-1.4 Very dark grayish (10YR 3/2) silty clay, organic matter,	CL			ϕ						
		4 3	3	moist										
			4											
SS-2	1.5/2	9 11	5	4-4.5 as above, black (10 YR) cinders, limestone fragments	CL			ϕ						
		10 17	6	4.5-5.5 Light yellowish brown (10YR 6/4) fine clayey sand,	SC									
			7	5-10% gravel										
SS-3	1/2	4 8	8	7-8 brownish Yellow (10YR 6/4) sand, fine to medium, moderately	SP			ϕ						
		9 8	9	sorted, 5% gravel, moist										
			10											
SS-4	1.1/2	3 9	11	10-11.1 Yellowish brown (10YR 5/3) sand, fine to coarse, very poorly	SW			ϕ						
		10 11	12	sorted, subrounded to subangular 20-30% gravel, wet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael Mellon
Firm: Versar Inc

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Sample Num and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-5	1.6/2	61	13	13-13.2 Yellowish brown (10YR 5/3) sand, fine to medium, well sorted, wet (possible cave)	SW			0						
		75	14											
		37		13.2 to 13.4 black sandy clay, wet				0						
		30	15											
				13.4 to 13.9 Yellowish brown (10YR 5/3) sand, fine to coarse, subrounded to subangular, 5% gravel, wet.				0						
				13.9-14.1 shale fragments										
				14.1 to 14.3 as 13.4 to 13.9, wet										

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
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Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		VSB-3

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (M M D D Y Y)	Date Drilling Completed (M M D D Y Y)	Drilling Method
Versar Inc / Michael Mellon, Geologist Long Engineering / Donkling, Driller	08 24 93	08 24 93	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			____ Feet MSL	____ Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
____ Feet ☐ S ____ Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Asphalt Cover				0						
SS-1	1.5/2	7 4	2	1-1.7 black silty clay (10YR)(gravel fill), slightly moist, slight sand	CL			0						
		6 6	3	1.7 to 2.5 brown (10YR 5/3) silty clay				0						
			4											
SS-2	2/2	9 17	5	4-4.2 Black (10YR) silty clay, gravel fragments, moist	CL			0						
		20 16	6											
			7											
SS-3	1/2	3 7	8	7-7.5 light yellowish brown (10YR 6/4) sand, fine to coarse, mod sorted,	SW			0						
		8 6	9	trace gravel, moist 7.5-8 yellowish brown (10YR 5/6)										
			10											
SS-4	1/2	3 6	11	10-11 as above, grading downward to pale brown (10YR 6/3), wet	SW			0						
		10 14	12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Michael Mellon	Versar Inc

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			13											
SS-5	1/2	8		13-13.2 as above				20						
		19	14	13.2-14 light brownish gray	GW			30						
		16		(10YR 6/2) sand and gravel,										
		19	15	wet										
			16											
			17											
			18											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
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Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		VSB-4 (R)

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (MM DD YY)	Date Drilling Completed (MM DD YY)	Drilling Method
Versar Inc / Michael Mellon, Geologist Young Engineering / Dorkling, Driller	08/24/93	08/24/93	HSA

DNR Facility Well No.	Well Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			____ Feet MSL	____ Feet MSL	7 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
____ Feet ☐ S ____ Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Asphalt Cover										
ISS	.6/2	7 3	2	1-1.6 brown (10YR 4/3) silty clay, trace gravel, slightly moist,	CL			10						
		3 5	3											
			4											
SS-2	1.3/2	21 11	5	4-5.3 light yellowish brown (10YR 6/4) silty sand, fine, trace gravel,	CL			ϕ						
		12 13	6	moderately well sorted, slightly moist										
			7											
SS-3	.9/2	10 8	8	7-7.9 light yellowish brown (10YR 6/4) sand, fine to medium,	SW			ϕ						
		7 9	9	moderately well sorted, laminations, wet										
			10											
SS-4	1/2	6 5	11	10-11 yellowish brown (10YR 5/6) sand, fine to med, well sorted,	SP			ϕ						
		4 8	12	grades down to brown (10YR 5/3) wet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael Mellon Firm: Versar Inc

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
SS 5	.7/2	9, 16, 86, 45	14, 15	13-13.7 Grayish brown (10YR 5/2) Sand and gravel, subangular very poorly sorted, wet	GW			ϕ						
			16											
S 6	1.1/2	35, 12, 10, 10	17, 18	16-17.1 Pale brown (10YR 6/3) sand fine to medium, moderately well sorted, subangular to subrounded	SW			ϕ						
			19											
SS-7	1.2/2	41, 21, 19, 26	20, 21	19-20.2 light brownish gray, (10YR 6/2) sand (fine to coarse) and gravel, very poorly sorted, wet	SW GW			ϕ						
			22											
			23											
			24											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION

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Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		VS B-5

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (M M D D Y Y)	Date Drilling Completed (M M D D Y Y)	Drilling Method
Versar Inc / Michael Mellen, Geologist Long Engineering / Dunkling, Driller	08/24/93	08/24/93	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
Lat ° ' "
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1											
SS-1	1.8/2	6 5	2	1-1.4 Dark brown (10YR 3/3) sand and gravel, very poorly sorted, wet	SW			0						
		3 3	3	1.4-1.8 black (10YR) sand, fine, very well sorted, wet	SP			0						
			4											
SS-2	1.3/2	2 1	5	4-5.3 black organic clay, moist	OL			0						
		2 2	6											
			7											
SS-3	1.7/2	1 4	8	7-7.5 as above 7.5-8.7 gray (10YR 6/1) silty	OL			0						
		5 6	9	clay, grading down to clayey silt, moist	CL			0						
			10											
SS-4	1.3/2	12 16	11	10-10.2 as above, wet 10.2-11.3 gravel, 20% sand,	OL GW			0 0						
		16 20	12	fine to coarse, subrounded to subangular, very poorly sorted, wet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Michael Mellen	Versar Inc

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Sample Num and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
S-5	2/2	20	14	Sand and gravel, very poorly sorted, angular to subrounded, wet	GW			ϕ						
		9 11												
		17	15											
			16											
S-6	1.5/2	26		16-17 as above	GW			ϕ						
		10	17	17-17.5 ft gray (10YR6/1) silt wet	ML									
		9 4	18											
			19											
			20											
			21											
			22											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		VSB-C

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (M M D D Y Y)	Date Drilling Completed (M M D D Y Y)	Drilling Method
Versar Inc / Michael Melton, Geologist Long Engineering / Dykling, Driller	08/27/93	08/27/93	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W

Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1											
SS-1	1/2	8 6	2	1-1.5 black (10YR) silty clay, slightly moist,	CL			ϕ						
		5 7	3	1.5-2 Dark grayish brown (10YR 4/2) silty clay, slightly moist										
			4											
SS-2	1.3/2	16 12	5	4-5.5 Yellowish brown (10YR 5/6) fine sandy silt, mottled gray,	ML			ϕ						
		12 10	6	trace subrounded to subangular gravel, slightly moist										
			7											
SS-3	1.3/2	10 12	8	7-8.3 as above, grading down to yellowish brown (10YR 5/6)	ML			ϕ						
		10 10	9	Sand, fine to medium, 15% gravel, subrounded to subangular moist	SW			ϕ						
			10											
SS-4	1/2	7 11	11	10-11 Pale brown (10YR 6/3) sand, moderately well sorted, fine to	SW			ϕ						
		10 11	12	medium, some coarse sand, trace gravel, wet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael Melton
Firm: Versar Inc

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Sample and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
S-5	18/2	20 10	14	13-13.0 grayish brown (10YR 5/2) Sand and gravel, very poorly sorted,	GW			ϕ						
		17 10	15	angular to subrounded, wet										
			16											
S-6	1/2	45 12	17	16-17 as above	GW			ϕ						
		14 11	18											
			19											
S-7	2/2	32 20	20	19-21 Grayish brown (10YR 5/2) sand, fine to medium, trace	SW			ϕ						
		21 32	21	gravel, subrounded, moderately well sorted,										
			22											
			23											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		VSB-7

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (M M D D Y Y)	Date Drilling Completed (M M D D Y Y)	Drilling Method
Versar Inc / Michael Melton, Geologist Woog Engineering / Dahling, Driller	08/27/93	08/27/93	HSA

DNR Facility Well No.	Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Asphalt Cover										
SS-1	1/2	22	2	1-1.5 Gravel fill	GW			ϕ						
		32		1.5-2 black (10YR2) clay, organic,	CL									
		11	3	slightly moist										
		5												
			4											
SS-2	1.3/2	21	5	4-5.3 yellowish brown (10YR5/6)	ML			ϕ						
		10		fine sandy silty trace subrounded										
		15	6	gravel, slightly moist										
		13												
			7											
SS-3	1.3/2	8	8	7-8.3 Yellowish brown (10YR5/6)	SW			ϕ						
		7		sand, fine to med grn, trace sub										
		8	9	rounded gravel, moderately well										
		8		sorted, wet										
			10											
SS-4	1.3/2	5	11	10-10.5 Yellowish brown (10YR5/6)	SM			ϕ						
		5		Silty sand, wet										
		7	12	10.5-11.5 grayish brown (10YR5/2)	SW			ϕ						
		10		sand, fine to coarse, trace gravel, wet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael Melton Firm: Versar Inc

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Sample and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
S-5	.3/2.	14 14	14	13-13.3 grayish brown (10YR 5/2) sand and gravel, very poorly sorted, angular to subrounded, wet	GW			ϕ						
		25 13	15											
			16											
S-6	.3/2	40 22	17	16-16.3 as above	GW			ϕ						
		15 15	18											
			19											
S-7	2/2	24 12	20	19-19.5 as above (10YR 5/2)	GW			ϕ						
		14 22	21	19.5-21 grayish brown sand fine to coarse, 20% gravel, angular to subrounded, wet	SW			ϕ						
			22											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		USB-8

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (M M D D Y Y)	Date Drilling Completed (M M D D Y Y)	Drilling Method
Versar Inc / Michael Mellon, Geologist Young Engineering / Dunkling, Driller	08 27 93	08 27 93	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			____ Feet MSL	____ Feet MSL	7 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1											
SS-1	1.5/2	8 12	2	1-1.2 very dk brown (10YR 3/3) clayey gravel fill	GC			.5						
		16 5	3	1.2-2 black (10YR) clayey sandy gravel fill										
			4											
SS-2	1.2/2	11 4	5	4-4.6 as above 4.6-5.2 brownish yellow (10YR 6/6)	GC CL			20*						
		7 9	6	fine sandy clay grading downward to clayey sand	SC									
			7											
SS-3	1.3/2	7 5	8	7-8.3 brownish yellow (10YR 6/6) silty fine sand, trace gravel, wet	SM			10*						
		7 1.6	9											
			10											
			11											
			12	*Moisture may have affected PSD Reading not reliable										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Michael Mellon	Versar Inc

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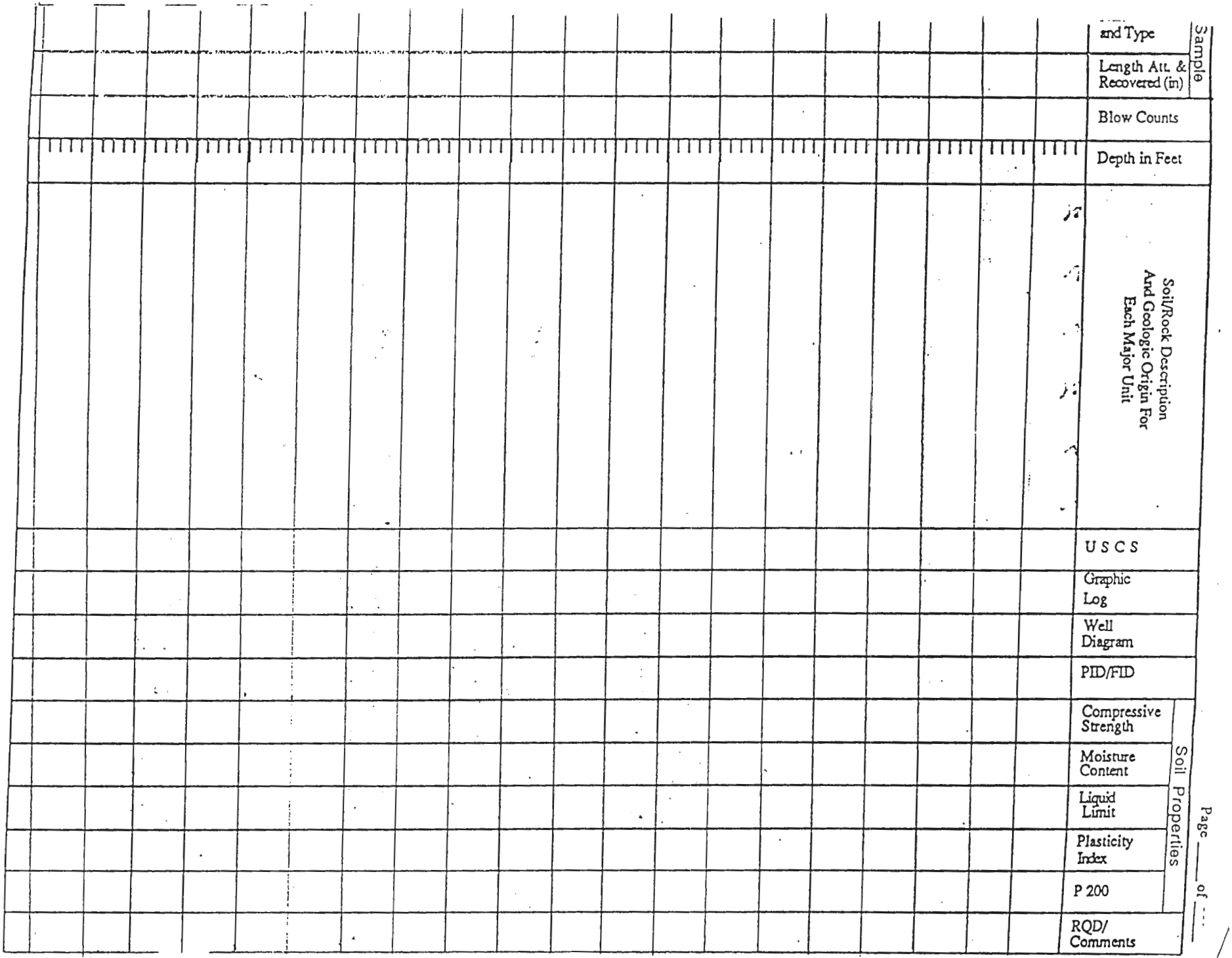
Sample
and Type
Length Att. & Recovered (in)
Blow Counts
Depth in Feet
Soil/Rock Description And Geologic Origin For Each Major Unit
USCS
Graphic Log
Well Diagram
PID/FID
Soil Properties
Compressive Strength
Moisture Content
Liquid Limit
Plasticity Index
P 200
RQD/ Comments
Page ____ of ____

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		VSB-9

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (M M D D Y Y)	Date Drilling Completed (M M D D Y Y)	Drilling Method
Versar Inc / Michael Melton, Geologist Long Engineering / Dunkling, Driller	08/27/93	08/27/93	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1											
SS-1	1/2	10	2	1-1.5 Gravel fill	GM			4						
		6		1.5-1.7 black (10YR) clay	CH			1						
		5	3	1.7-2 Olive gray (5Y 4/2) clayey sand										
		4	4											
SS-2	1/2	2	5	4-5 Olive gray (5Y 4/2) clay, some rust color staining	CH CL			0						
		4	6											
		6	7											
SS-3	1.5/2	5	8	7-8.2 Olive gray (5Y 4/2) fine sandy clay, some silt, moist	CL			0						
		4	9	8.2-8.5 Sand and gravel, moist	GW			0						
		6	10											
		12												
SS-4	2/2	2	11	10-12 as above, wet	GW			0						
		10												
		16	12											
		20												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael Melton Firm: Versar Inc

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Sample	Number and Type
	Length Att. & Recovered (in)
	Blow Counts
	Depth in Feet
	Soil/Rock Description And Geologic Origin For Each Major Unit
	USCS
	Graphic Log
	Well Diagram
	PID/FID
Soil Properties	Compressive Strength
	Moisture Content
	Liquid Limit
	Plasticity Index
	P 200
	RQD/ Comments

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME	— — — — — — — —	VSB-10

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (M M D D Y Y)	Date Drilling Completed (M M D D Y Y)	Drilling Method
Versar Inc / Michael Melton, Geologist / Long Engineering / Dorkling, Driller	08/27/93	08/27/93	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			____ Feet MSL	____ Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N | Lat ° ' " | Long ° ' "
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W

Local Grid Location (If applicable)
____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1											
SS-1	1.5	8 7 16	2	1-2.5 brownish yellow (10YR 6/8) sand, fine to medium, trace	SW			ϕ						
		16 17	3	gravel, moderately well sorted, dry										
			4											
SS-2	1.2/2	6 9/2	5	4-4.2 brownish yellow (10YR 6/8) silty sand, fine to medium, dry	SM			ϕ						
	1.2/2		6											
			7											
SS-3	1.5/2	7 6	8	7-7.6 as above 7.6-8.3 black (10YR) fine sandy clay, dry	SM CL			75 2.0 2.0						
		9 12	9	8.3-8.5 yellowish brown (10YR 5/4) fine sandy clay, dry										
			10											
SS-4	2/2	20 25	11	10-12 Light yellowish brown (10YR 6/4) silty fine sand, grading	SM			ϕ						
		32 19	12	downward to clayey fine sand, trace gravel, moist										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael Melton | Firm: Versar Inc

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Page ____ of ____

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
SS-5	1.5/2	20 50/5	14	13-14.5 Light yellowish brown (10YR 6/4) clayey fine sand, trace gravel, moist	SC			ϕ						
			15											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		VSB-11

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (MM DD YY)	Date Drilling Completed (MM DD YY)	Drilling Method
Versar Inc / Michael Melton, Geologist Long Engineering / Burkling, Driller	08/27/93	08/27/93	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			____ Feet MSL	____ Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1											
			2											
			3											
			4											
SS-1	.5/2	50/5	5	4-4.5 Very Pale brown (10YR 7/4) silty sand, trace gravel, dry	SM			ϕ						
			6											
			7											
SS-2	2/2		8	7-7.5 as above 7.5-8.5 Black (10YR) silt, dry	SM ML			1.75 2.75						
			9	8.5-9 Dark yellowish brown (10YR 4/4) grading down to very pale brown				1.0						
			10	(10YR 7/3) silty clay, some fine sand, dry	CL									
SS-3	.5/2		11	10-10.5 as above				ϕ						
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature | Firm Versar Inc

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Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments

ENVIRONMENTAL LABORATORIES INC.

07/30/92 LABORATORY REPORT PAGE 1

E102 8475972 W31

/ERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK ,IL 60521
\TTN: M.PLACE/J.SMITH

CHAIN OF CUSTODY

SAMPLE 92209-E04005 VSB-1/SOIL/PROJECT: VME
)ATE COLLECTED 07/24/92 DATE RECEIVED 07/27/92
.'RESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM	07/28/92	IN-HOUSE METHOD	

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 M.J.N

140 East Ryan Road, Oak Creek, WI 53154-4599 • 414-764-7005 • FAX 414-764-0486 • 1-800-422-2195
Client Services Direct Line 414-768-7460 • WI DNR Lab Certification #241283020 • IEPA Lab Certification #100243

ENVIRONMENTAL LABORATORIES INC.

07/30/92 LABORATORY REPORT PAGE 1

E102 8475972 W31

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK ,IL 60521
ATTN: M.PLACE/J.SMITH

CHAIN OF CUSTODY

SAMPLE 92209-E02366 VSB-2/SOIL/PROJECT: VME
DATE COLLECTED 07/24/92 DATE RECEIVED 07/27/92
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM	07/28/92	IN-HOUSE METHOD	

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.

AIHA ACCREDITED APPROVAL M.P.V.

140 East Ryan Road, Oak Creek, WI 53154-4599 • 414-764-7005 • FAX 414-764-0486 • 1-800-422-2195
Client Services Direct Line 414-768-7460 • WI DNR Lab Certification #241283020 • IEPA Lab Certification #100243

ENVIRONMENTAL LABORATORIES INC.

)7/30/92 LABORATORY REPORT PAGE 1

E102 8475972 W31

'ERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
)AK BROOK ,IL 60521
ATTN: M.PLACE/J.SMITH

CHAIN OF CUSTODY

SAMPLE 92209-E02367 VSB-3/SOIL/PROJECT: VME
)ATE COLLECTED 07/24/92 DATE RECEIVED 07/27/92
'RESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM	07/28/92	IN-HOUSE METHOD	

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AIHA ACCREDITED APPROVAL

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ENVIRONMENTAL LABORATORIES INC.

07/30/92 LABORATORY REPORT PAGE 1

E102 8475972 W31

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK ,IL 60521
ATTN: M.PLACE/J.SMITH

CHAIN OF CUSTODY

SAMPLE 92209-E02368 VSB-4/SOIL/PROJECT: VME
DATE COLLECTED 07/24/92 DATE RECEIVED 07/27/92
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
TOTAL PETROLEUM HYDROCARBONS	55	PPM	07/28/92	IN-HOUSE METHOD	
	BASED ON SIMILARITIES TO A MINERAL SPIRIT STANDARD				

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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AIHA ACCREDITED APPROVAL MJR.

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ENVIRONMENTAL LABORATORIES INC.

07/30/92 LABORATORY REPORT PAGE 1

E102 8475972 W31

/ERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK ,IL 60521
ATTN: M.PLACE/J.SMITH

CHAIN OF CUSTODY

SAMPLE 92209-E02369 VSB-5/SOIL/PROJECT: VME
DATE COLLECTED 07/24/92 DATE RECEIVED 07/27/92
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM	07/28/92	IN-HOUSE METHOD	

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AIHA ACCREDITED APPROVAL MJN.

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ENVIRONMENTAL LABORATORIES INC.

07/30/92 LABORATORY REPORT PAGE 1

E102 8475972 W31

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK ,IL 60521
ATTN: M.PLACE/J.SMITH

CHAIN OF CUSTODY

SAMPLE 92209-E04006 VSB-6/SOIL/PROJECT: VME
DATE COLLECTED 07/27/92 DATE RECEIVED 07/27/92
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM	07/28/92	IN-HOUSE METHOD	

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AIHA ACCREDITED APPROVAL M.T.V.

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ENVIRONMENTAL LABORATORIES INC.

07/30/92 LABORATORY REPORT PAGE 1

E102 8475972 W31

/ERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK ,IL 60521
\TTN: M.PLACE/J.SMITH

CHAIN OF CUSTODY

SAMPLE 92209-E04007 VSB-7/SOIL/PROJECT: VME
)ATE COLLECTED 07/27/92 DATE RECEIVED 07/27/92
.'RESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

'EST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM	07/28/92	IN-HOUSE METHOD	

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AIHA ACCREDITED APPROVAL M.T.

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ENVIRONMENTAL LABORATORIES INC.

07/30/92 LABORATORY REPORT PAGE 1

E102 8475972 W31

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK ,IL 60521
ATTN: M.PLACE/J.SMITH

CHAIN OF CUSTODY

SAMPLE 92209-E04008 VSB-8/SOIL/PROJECT: VME
DATE COLLECTED 07/27/92 DATE RECEIVED 07/27/92
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM	07/28/92	IN-HOUSE METHOD	

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AIHA ACCREDITED APPROVAL M.J.M.

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ENVIRONMENTAL LABORATORIES INC.

07/30/92 LABORATORY REPORT PAGE 1

E102 8475972 W31

/ERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
)AK BROOK ,IL 60521
\TTN: M.PLACE/J.SMITH

CHAIN OF CUSTODY

SAMPLE 92209-E04009 VSB-9/SOIL/PROJECT: VME
)ATE COLLECTED 07/27/92 DATE RECEIVED 07/27/92
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM	07/28/92	IN-HOUSE METHOD	

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ENVIRONMENTAL LABORATORIES INC.

07/30/92 LABORATORY REPORT PAGE 1

E102 8475972 W31

VERSAR, INC. - MIDWEST REGIONAL OFFICE
1520 KENSINGTON ROADSUITE 115
OAK BROOK ,IL 60521
ATTN: M.PLACE/J.SMITH

CHAIN OF CUSTODY

SAMPLE 92209-E04010 VSB-10/SOIL/PROJECT: VME
DATE COLLECTED 07/27/92 DATE RECEIVED 07/27/92
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM	07/28/92	IN-HOUSE METHOD	

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ENVIRONMENTAL LABORATORIES INC.

07/30/92 LABORATORY REPORT

E102 8475972 W31

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1520 KENSINGTON ROADSUITE 115
OAK BROOK ,IL 60521
ATTN: M.PLACE/J.SMITH

CHAIN OF CUSTODY

SAMPLE 92209-E04011 VSB-11/SOIL/PROJECT: VME
DATE COLLECTED 07/27/92 DATE RECEIVED 07/27/92
PRESERVED: YES TEMPERATURE: ON ICE
CONT. INTEGRITY: MEETS STANDARD SAMPLE INTEG: MEETS STANDARD

TEST NAME	RESULT	UNITS	ANALYZED	METHOD	LIMIT
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AIHA ACCREDITED APPROVAL MJH

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Client Services Direct Line 414-768-7460 • WI DNR Lab Certification #241283020 • IEPA Lab Certification #100243

Versar INC. CHAIN OF CUSTODY RECORD E102

PROJECT NO.	PROJECT NAME	PARAMETERS	INDUSTRIAL HYGIENE SAMPLE Y / N
	VME (PROJECT MANAGER: MIKE PLACE)	8475992 7-27-92 92209	

SAMPLERS: (Signature) [signature] (Printed) JANICE R. SMITH BAGHERI

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH - NO PRES		REMARKS (MATRIX)
VSB-1/SS-3	7/24/92			X	VSB-1	1	X	E04005	SOIL
VSB-2/SS-3	7/24/92			X	VSB-2	1	X	E02366	
VSB-3/SS-5	7/24/92			X	VSB-3	1	X	E02367	
VSB-4/SS-1	7/24/92			X	VSB-4	1	X	E02368	
VSB-5/SS-3	7/24/92			X	VSB-5	1	X	E02369	
VSB-6/SS-4	7/27/92			X	VSB-6	1	X	E04006	
VSB-7/SS-3	7/27/92			X	VSB-7	1	X	E04007	
VSB-8/SS-3	7/27/92			X	VSB-8	1	X	E04008	
VSB-9/SS-3	7/27/92			X	VSB-9	1	X	E04009	
VSB-10/SS-3	7/27/92			X	VSB-10	1	X	E04010	
VSB-11/SS-2	7/27/92			X	VSB-11	1	X	E04011	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	7/27/92 8:30 PM	Stacy Mattila	Stacy Mattila	7/27/92 8:33	
(Printed) JANICE R. SMITH BAGHERI		(Printed) Stacy Mattila	(Printed) Stacy Mattila		(Printed)

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
				IMMEDIATELY PLACED ON ICE IN COOLER AFTER SAMPLE COLLECTED.
(Printed)		(Printed)		

Versar INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.:

PROJECT NAME: VME (PROJECT MANAGER: MIKE PLACE)

PARAMETERS: NO. OF CONTAINERS; GC ACIDS, GC B/N, GC VOC, GC PEST/PCBS; PCBS; TPH

84 7-58-22 / 7-28-92 / 922210

INDUSTRIAL HYGIENE SAMPLE: Y / N

SAMPLERS: (Signature) [signature]

(Printed) JANICE SMITH-BAGHERI

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	GC ACIDS, GC B/N, GC VOC, GC PEST/PCBS	PCBS	TPH					REMARKS: MATRIX	PRES
SOIL-SURF	7/28/92		X		DUMP	3	X			E04004				SOIL	NONE
ELEV-2	7/28/92			X	ELEV-2	1		X		E04005				OIL	NONE
STREAM-UP	7/28/92			X	STREAM	4			X	E04002				WATER	HCl
STREAM-DOWN	7/28/92			X	STREAM	4			X	E04003				WATER	HCl

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	7/28/92 1:25	[signature] 7/28/92 1:25	[signature]	[illegible]	[signature]
(Printed) JANICE SMITH-BAGHERI		(Printed) WENDY L BISHOP	(Printed) [illegible]		(Printed) Stacy Mattila

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time
[signature]	7/28/92 3:20		
(Printed) Stacy Mattila		(Printed)	

Remarks: HAND DELIVERED TO LAB. IMMEDIATELY PLACED ON ICE AFTER SAMPLE COLLECTED. QA/QC PACKAGE "B" REQUIRED. (RLL)

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

ATTACHMENT C
WELL AND BORING LOGS

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name: Akerman / VME	License/Permit/Monitoring Number:	Boring Number: SBMW-01
Boring Drilled By (Firm name and name of crew chief): Versar Inc.: Alan Esko (Geologist); Wana Engineering: Dan Kling (Driller)	Date Drilling Started: 05/11/93	Date Drilling Completed: 05/11/93
Drilling Method: 4¼ HSA	DNR Facility Well No.:	WI Unique Well No.:
Common Well Name: WMW-01	Final Static Water Level: 839.37 Feet MSL	Surface Elevation: 847.86 Feet MSL
Borehole Diameter: 8.25 inches	Boring Location: State Plane 374,347.06 N, 2,479,440.96 E S/C/N; Lat ° ' "; NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W; Long ° ' "	Local Grid Location (If applicable): ☐ N ☐ E Feet ☐ S Feet ☐ W
County: Waukesha	DNR County Code: 68	Civil Town/City/ or Village: Waukesha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
SS	2' 17"	3/3/3/3	2	Ac Pavement ~ 4" Gravel Fill ~ 8" Silty Clay (CL), black/grey, tc sand, organics, med. stiff, moist	CL		PVC Riser Pellets Cont. Grout	8ppm	.5-1.0					
SS	2' 15"	2/2/3/2	4	Sandy Clay, brown, soft-md. stiff, moist-wet	SC			2	.5-1.5					
SS	2' 14"	1/2/3/-	6	Grades to tc sand, brown/grey mottled, wet, H. Plastic, soft	CH			3	.25					
S	2' 18"	2/2/4/4	8	Clayey Sand, brown, tc gravel, loose	SC			.6						
S	2' 9"	4/4/4/4	10	Grades to Sand, fn-cs, little gravel, brown, saturated, loose	SW		SS Screen	3						
S	2' 19"	8/3/4/6	12	Grades to fn-med., some gravel, med. dense	SP		Filter Pack	5						
SS	2' 12"	5/5/6/6	14	Grades to sand with gravel, brown,	SW/GW			2						
			16	End of Boring @ 16'										
			18											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Alan J. Esko Firm: Versar Inc.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: Akerman / VME	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: WMW-01
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. _____ Long. _____ or St. Plane 374,347.06 ft. N 2,479,440.96 ft. E.	Wis. Unique Well Number / DNR Well Number: _____
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	Section Location of Waste/Source: NE 1/4 of NE 1/4 of Sec. 2, T. 6 N, R. 19 ☒E. ☐W.	Date Well Installed: 05/11/93 (m m d d y y)
Distance Well Is From Waste/Source Boundary: 174 ft.	Location of Well Relative to Waste/Source: u ☒ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm): Dan Kling / Wang Engineering
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		

A. Protective pipe, top elevation 847.92 ft. MSL
B. Well casing, top elevation 847.65 ft. MSL
C. Land surface elevation 847.86 ft. MSL
D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☒ ML ☐ MH ☐ CL ☐ CH ☒
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

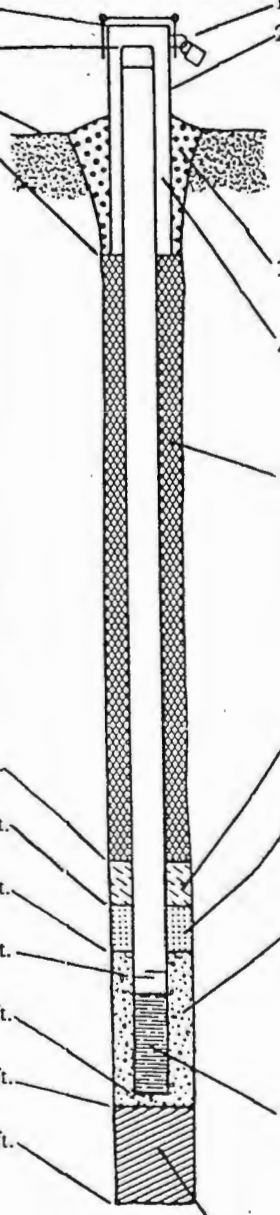
14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ _____

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.
F. Fine sand, top _____ ft. MSL or N/A ft.
G. Filter pack, top _____ ft. MSL or 3.0 ft.
H. Screen joint, top _____ ft. MSL or 4.5 ft.
I. Well bottom _____ ft. MSL or 14.5 ft.
J. Filter pack, bottom _____ ft. MSL or 16.0 ft.
K. Borehole, bottom _____ ft. MSL or _____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.25 in.
N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: _____ ft.
c. Material: Flush Mount Cast; Steel ☐ 04; Other ☒
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐; Other ☒ Concrete
5. Annular space seal: a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. _____ % Bentonite .... Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☒ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
a. Industria / Sand, Canada 10-20
b. Volume added 3 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ _____
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐ _____
b. Manufacturer Northern Ill. Pump
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 14; Other ☒ natural

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Alan L. Ekis | Firm: Versar, Inc

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: Akerman / VME	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: WMW-02
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. _____ Long. _____ or St. Plane 374,692.94 ft. N. 2,479,520.2 ft. E.	Wis. Unique Well Number / DNR Well Number: _____ / _____
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	Section Location of Waste/Source: NE 1/4 of NE 1/4 of Sec. 2, T. 6 N, R. 19 ☒E. ☐W.	Date Well Installed: 05/11/93 (m m d d y y)
Distance Well Is From Waste/Source Boundary: 100 ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) Dan Kling, Wang Engineering
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		

A. Protective pipe, top elevation 846.48 ft. MSL
B. Well casing, top elevation 846.11 ft. MSL
C. Land surface elevation 846.46 ft. MSL
D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☒ SW ☐ SP ☒
SM ☐ SC ☐ ML ☒ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

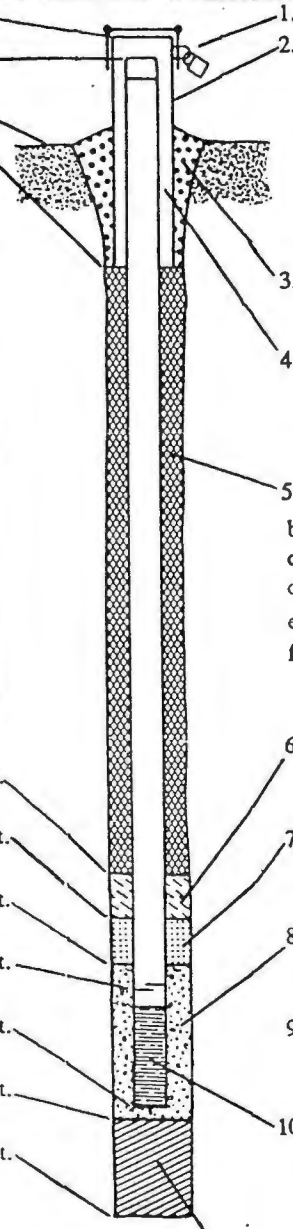
14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ _____

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis): _____

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.
F. Fine sand, top _____ ft. MSL or N/A ft.
G. Filter pack, top _____ ft. MSL or 2.3 ft.
H. Screen joint, top _____ ft. MSL or 4.5 ft.
I. Well bottom _____ ft. MSL or 14.5 ft.
J. Filter pack, bottom _____ ft. MSL or 16.0 ft.
K. Borehole, bottom _____ ft. MSL or _____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.25 in.
N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: _____ ft.
c. Material: Flush Mount Cast — Steel ☐ 04; Other ☒
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐ _____; Other ☒ Concrete
5. Annular space seal: a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. _____ % Bentonite ..... Bentonite-cement grout ☐ 50
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☒ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. Industrial Sand, Canada, 10-20
b. Volume added 3 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ _____
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐ _____
b. Manufacturer No. Illinois Pump
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 14; Other ☒ Native

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm _____

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Akerman / VME	Waukesha	WMW-02
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
_____	68	_____	_____

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☒ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☒ 50
Other _____	☐

3. Time spent developing well 35 min.

4. Depth of well (from top of well casisng) 14.5 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 1.1 gal.

7. Volume of water removed from well 8.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 7.4 ft.	7.4 ft.
Date	b. 05/13/93 (m m d d y y)	05/13/93 (m m d d y y)
Time	c. 16:45 ☐ a.m. ☐ p.m.	17:20 ☐ a.m. ☐ p.m.
12. Sediment in well bottom	1.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	dark brown	Slightly Turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____.__ mg/l	_____.__ mg/l
15. COD	_____.__ mg/l	_____.__ mg/l

16. Additional comments on development:
Moderate to Good Recharge

Well developed by: Person's Name and Firm

Name: Alan Esko

Firm: Versar, Inc

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Initials: AEE

Firm: Versar, Inc

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name: Akerman/VME	License/Permit/Monitoring Number:	Boring Number: SBMW-03	
Boring Drilled By (Firm name and name of crew chief): Alan Esko ~ Versar, Inc.; Dan Kling ~ Wang Engineering	Date Drilling Started: 05/11/93	Date Drilling Completed: 05/11/93	Drilling Method: 4¼ HSA
DNR Facility Well No.:	WI Unique Well No.:	Common Well Name: WMW-03	Final Static Water Level: 839.02 Feet MSL
Surface Elevation: 844.67 Feet MSL	Borehole Diameter: 8.25 inches		

Boring Location
State Plane 375,019.22 N, 2,479,429.38 E (S/C/N) Lat ° ' "
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 (E/W) Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County: Waukesha
DNR County Code: 68
Civil Town/City/ or Village: Waukesha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	2'	6/7/8/7		PC Pavement ~ 6" Crushed Ls Gravel Fill ~ 6"										
1 SS	17"		2	Clayey Sand grades to Silty Sand, grey, tr gravel, moist, med. dense	SM		Cement Pellets PVC Riser	28						
2 SS	2' NR	9/5/4/2	4	No Recovery Grades to										
SS	2' 9"	1/2/-/-	6	Organic Clay, Black-grey mottled, organics, soft, moist	OH			3	.25					
4 SS	18" 16"	3/4/4	8	Silty Clay, grey, vry. stiff, moist	CL			1	2.5					
5 SS	18" 14"	4/8/7	10	Gravelly Sand, grey, saturated, med. dense, (fn-cs)	SW		PVC Screen Filter Pack 10-20	8						
6 SS	18" 18"	6/10/17	12	SAA				5						
7 SS	18" 12"	9/17/17	14	grades to dense				10						
			16	EOB @ 16' bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature | Firm

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: Akerman / VME	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: WMW-03
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. _____ Long. _____ or	Wis. Unique Well Number: _____ DNR Well Number: _____
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	St. Plane 375,019.22 ft. N 2,479,429.38 ft. E.	Date Well Installed: 05/11/93 (m m d d y y)
Distance Well Is From Waste/Source Boundary: 150 ft.	Section Location of Waste/Source: NE 1/4 of NE 1/4 of Sec. 2, T. 6 N, R. 19 ☒E. ☐W.	Well Installed By: (Person's Name and Firm): Don Kling; Wang Engineering
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☒ Downgradient n ☐ Not Known	

A. Protective pipe, top elevation 844.71 ft. MSL
B. Well casing, top elevation 844.37 ft. MSL
C. Land surface elevation 844.67 ft. MSL
D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☒ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ __

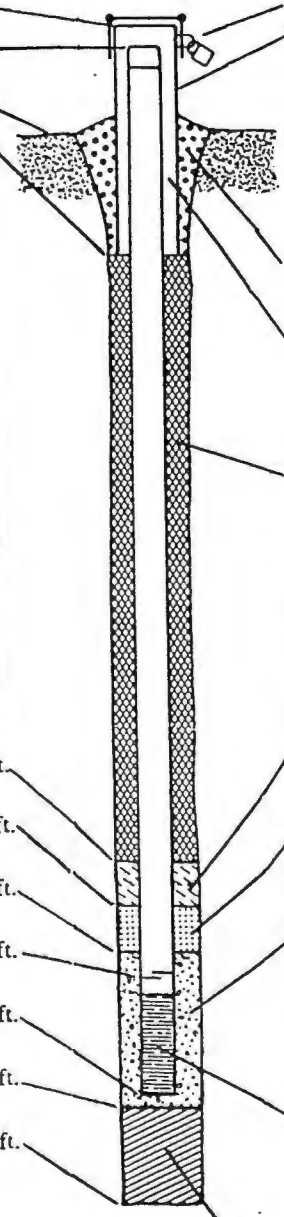
15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis): _____

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.
F. Fine sand, top _____ ft. MSL or N/A ft.
G. Filter pack, top _____ ft. MSL or 3.0 ft.
H. Screen joint, top _____ ft. MSL or 4.5 ft.
I. Well bottom _____ ft. MSL or 14.5 ft.
J. Filter pack, bottom _____ ft. MSL or 16.0 ft.
K. Borehole, bottom _____ ft. MSL or _____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.25 in.
N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: _____ ft.
c. Material: Flush Mount Cast — Steel ☐ 04; Other ☒
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐; Concrete — Other ☒
5. Annular space seal: a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. _____ % Bentonite ..... Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☒ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
a. Industrial Sand: Canada 10-20
b. Volume added 3 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; _____ Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; _____ Other ☐
b. Manufacturer No. Illinois Pump
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 14; native Other ☒

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm _____

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Akerman / VME	Waukesha	WMW-03
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
_____	68	_____	_____

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☒ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☒ 50
Other _____	☐

3. Time spent developing well 60 min.

4. Depth of well (from top of well casisng) 14.5 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 1.4 gal.

7. Volume of water removed from well 15.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 5.95 ft.	5.95 ft.
Date	b. 05/13/93 (m m d d y y)	05/13/93 (m m d d y y)
Time	c. 13:41 ☐ a.m. ☐ p.m.	14:40 ☐ a.m. ☐ p.m.
12. Sediment in well bottom	1.0 inches	0. inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	Highly Turbid dark brown	Slightly Turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____. mg/l	_____. mg/l
15. COD	_____. mg/l	_____. mg/l

16. Additional comments on development: Good to Excellent Recharge

Well developed by: Person's Name and Firm

Name: Alan Esko

Firm: Versar, Inc.

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Initials: _____

Firm: _____

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Akerman / VME	Waukesha	WMW-01
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	68	_____ / _____

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☒ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☒ 50
Other _____	☐

3. Time spent developing well 30 min.

4. Depth of well (from top of well casisng) 14.3 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing .9 gal.

7. Volume of water removed from well 9.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 8.7 ft.	8.7 ft.
Date	b. 05/13/93 (m m d d y y)	05/13/93 (m m d d y y)
Time	c. 12:45 ☐ a.m. ☒ p.m.	13:15 ☐ a.m. ☐ p.m.
12. Sediment in well bottom	.2 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	Dark brown	Slightly Turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____.__ mg/l	_____.__ mg/l
15. COD	_____.__ mg/l	_____.__ mg/l

16. Additional comments on development: Moderate to Good Recharge

Well developed by: Person's Name and Firm

Name: Alan G. Esko

Firm: Versar, Inc.

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Alan G. Esko

Print Initials: AGE

Firm: Versar, Inc

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other ____

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number	
Akerman / VME		SBMW-02	
Boring Drilled By (Firm name and name of crew chief): Alan Esko ~ Versar, Inc; Dan Kling ~ Wang Engineering	Date Drilling Started: 05/11/93 (MM DD YY)	Date Drilling Completed: 05/11/93 (MM DD YY)	Drilling Method: 4 1/4 HSA
DNR Facility Well No.: ___ / WI Unique Well No.: ___ / Common Well Name: WMW-02	Final Static Water Level: 839.55 Feet MSL	Surface Elevation: 846.46 Feet MSL	Borehole Diameter: 8.25 inches
Boring Location: State Plane 374,692.94 N, 2,479,520.20 E (S)C/N; NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 (E)/W	Lat ___ ° ___ ' ___ " Long ___ ° ___ ' ___ "	Local Grid Location (If applicable): ___ Feet ☐ N ☐ S ___ Feet ☐ E ☐ W	
County: Waukesha	DNR County Code: 68	Civil Town/City/ or Village: Waukesha	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Ac Pavement ~3" Sand + Gravel Fill ~8"			Conc.							
			2	Silty Clay, black/grey, vry. stiff, moist	CL		PVC Riser / Pellet		2.0					
			4	Clayey Silt, brown, little gravel, sand, moist grades to										
S	18" 9	6/6/6/	6	Sandy Silt, brown, tc gravel, med. dense	ML									
			8	grades to										
S	18" 12"	3/4/2	10	Silty Sand, fn grained, brown, saturated, loose	SM		PVC Screen / Filter Pack 10-20							
			12	Gravelly Zone w/drilling	GW									
S	2' 12"	7/8/9/11	14	Gravel, well graded, some sand (fn-cs), med. dense, saturated										
			16	EOB @ 16'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Alan D. Esko
Firm: Versar, Inc.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

GROUNDWATER MONITORING WELL INFORMATION FORM

Chapter 144, Wis. Stats.
Form 4400-89
Rev. 1-90

Facility Name: Akerman / VME
Facility ID Number:
Date: 5/13/93
Completed By (Name and Firm): Alan Esko Versar, Inc.

Well Name	DNR Well ID Number	Well Location	N	S	E	W	Date Established	Well Casing Diam.	Well Casing Type	Elevations Top of Well Casing	Elevations Ground Surface	Reference MSL (√)	Reference Site Datum (√)	Screen Length	Well Depth	Type of Well (√) PIEZ	OW	PW	LYS	Other	Aban-doned	Enf. Stds Apply	Gradient U, S, D or N
		374,347.06	√																				
WMW-01		2,479,440.96			√		5/11/93	2"	PVC	847.65	847.86	√		10'	14.5'		√				no		U
		374,692.94	√																				
WMW-02		2,479,520.20			√		5/11/93	2"	PVC	846.11	846.46	√		10'	14.5'		√				no		D
		375,019.22	√																				
WMW-03		2,479,429.38			√		5/11/93	2"	PVC	844.37	844.67	√		10'	14.5'		√				no		D

Location Coordinates Are:

☐ Local Grid System (preferred)
☒ State Plane Coordinate
☐ Northern
☐ Central

Remarks:

PSS Use:

File Maint. Completed: _____

Other: _____

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
SS-6	1.2 / 1.5	4 6 4	34 35	grades to trace clay, wet	ML									
			36											
			37											
			38											
SS-7	1.4 / 1.5	3 3 4	39 40	grades to little clay, wet	ML									
			41											
			42											
			43											
SS-8	1.0 / 1.5	14 7 23	44 45	grades to trace clay, fractured Limestone bedrock chips @ 44.2' wet	ML									
			46											
			47											
			48											
			49 50	EOB @ 48' Possibly on Bedrock surface, Auger Refusal	Bedrock									
			51											
			52											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other ______

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		HPB-2

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Versar Inc / Michael Melton, Geologist; Boring Engineering / Dunkling, Driller	10/13/93 (MM DD YY)	10/13/93 (MM DD YY)	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			______ Feet MSL	______ Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N | Lat ___° ___' ___" | Local Grid Location (If applicable)
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 [✓ E]/W | Long ___° ___' ___" | ______ Feet ☐ N ☐ S ______ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Asphalt pavement w/ gravel base										
			2											
			3											
SS-1	.7/1.5	5, 7, 7	4	Fill, Brown fine to coarse grained sand, gravel, w/ clay, mott										
			5											
			6											
			7											
			8		SP									
SS-2	1.5/1.5	4, 6, 10	9	Sand (SP) brown, Med coarse, Trace clay, wet										
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Michael Melton	Versar Inc

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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18		ML									
SS-3	0.9/1.5	4 4	19	SILT (ML) gray, loose, trace clay, wet										
		4	20											
			21											
			22											
			23											
SS-4		2 4	24											
		4	25											
			26											
			27											
			28											
SS-5	1.0/1.5	4 4	29											
		6	30											
			31											
			32											

Sample and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
S-6	1.5 / 1.5	8 10	34	grades to little clay, wet	mc									
		6	35											
			36											
			37											
			38	fine grained										
S-7	1.4 / 1.5	17 18	39	Silty Sand (sm) Gray, dense, trace Medium to coarse grained	sm									
		25	40	sand, some clay, wet										
			41											
			42											
			43	EOB @ 42' on Bedrock surface, Auger Refusal	Bedrock									
			44											
			45											
			46											
			47											
			48											
			49											
			50											
			51											
			52											

ATTACHMENT D
GROUNDWATER SAMPLE
LABORATORY ANALYTICAL RESULTS
AND CHAIN OF CUSTODY

Versar INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	INDUSTRIAL HYGIENE SAMPLE	Y / N
1871.001	VME Americas, Inc.		

SAMPLERS: (Signature)	(Printed)
Alan G Esko	Alan G. Esko

PARAMETERS

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOC's (Full)	DRO	TRPH	PNA's	VOC's (Specific)	SVOC's (Specific)	PCB's (Specific)	Pest. (Specific)	PNA (Spec per POH)	REMARKS
WMW-01	5/13/93	~~1310~~ ~~1440~~ AE		X	Upgradient-UST	5	X	X	X	X						VOC's (8021)
WMW-02	↓	1720		↓	Downgradient-UST	5	↓	↓	↓	↓						DRO (8015) WDNR Modifies
WMW-03 (~~02~~ AE)		1440			↓	5										TRPH (8073) "
WMW-03D		↓				5	↓	↓	↓	↓						PNA's (8310)
EMW-01		1600				7				X	X	X	X	X		VOC's (8021)
EMW-02		1800				7				↓	↓	↓	↓	↓		SVOC's (8270)
EMW-02D		↓				7										PCB's (8080)
EMW-03		1900			Upgradient	7				↓	↓	↓	↓	↓		Pests. (8080)
Trip Blank					Lab Prepared w/cooler	1	X									
Equip. Blank	↓	1520		↓	Field Prepared	5	X	X	X	X						

DISREGARD WELLS EMW-01, 02, 02D, AND 03. UNRELATED TO GROUNDWATER CONTAMINATION INVESTIGATION.

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Alan G Esko	5/13/93 24:00				
(Printed)		(Printed)	(Printed)		(Printed)

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
G. Kapusta	5/14/93 1023	Denise Wilkens	5/14/93 1023	See Attached List for Specific Compounds: Please run pH + Conductivity on one sample from every well.
(Printed)		(Printed) [signature]		

Distribution: Original Plus One Accompanies Shipment (white and yellow): Copy to Coordinator Field Files (pink) Received on Wet Ice DW 5/14

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd.
Bartlett, IL 60103
tel: (708) 289-3100
Fax: (708) 289-5445

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

NET Job Number: 93.03857

Enclosed is the Quality Control Data and Analytical Results for the following samples submitted to NET, Inc. Bartlett Division for analysis:

Project Description: VME Americas, Inc.

Sample Number	Sample Description	Date Taken	Date Received
210863	WMW-01; Upgradient-UST; Grab	05/13/1993	05/14/1993
210864	WMW-02; Downgradient-UST; Grab	05/13/1993	05/14/1993
210865	WMW-03; Downgradient-UST; Grab	05/13/1993	05/14/1993
210866	WMW-03D; Downgradient-UST; Grab	05/13/1993	05/14/1993
210871	Equipment Blank	05/13/1993	05/14/1993
210872	Trip Blank	05/13/1993	05/14/1993

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please do not hesitate to call.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Ray Kalicki
QA Coordinator

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
050 W. Bartlett Rd.
Bartlett, IL 60103
Tel: (700) 289-3100
Fax: (700) 289-5445

ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210863

NET Job No.: 93.03857

Sample Description: WMW-01; Upgradient-UST; Grab
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 13:10
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
Conductivity	24,900.	umhos/cm	/137	05/19/1993	1.	mas	2510B(4) 120.1(3)
pH	7.11	units	/322	05/13/1993	0.10	ljd	150.1(3) 9040(1)
TRPH	<1.0	mg/L	/3	05/20/1993	10.	mje	9073 (1)
DRO-Diesel Range Organics	<0.1	mg/L	/6	05/20/1993		mjs	
Prep, 8310 PNAs AQUEOUS	extracted		83 /	05/18/1993		tow	8310 (1)
PNA CMPDS - 8310 AQUEOUS			/				
Acenaphthene	<0.018	mg/L	83 /178	05/21/1993	0.018	prp	8310 (1)
Acenaphthylene	<0.010	mg/L	83 /178	05/21/1993	0.010	prp	8310 (1)
Anthracene	<0.0066	mg/L	83 /178	05/21/1993	0.0066	prp	8310 (1)
Benzo(a)anthracene	<0.00013	mg/L	83 /178	05/21/1993	0.00013	prp	8310 (1)
Benzo(b)fluoranthene	<0.00018	mg/L	83 /178	05/21/1993	0.00018	prp	8310 (1)
Benzo(k)fluoranthene	<0.00017	mg/L	83 /178	05/21/1993	0.00017	prp	8310 (1)
Benzo(a)pyrene	<0.00023	mg/L	83 /178	05/21/1993	0.00023	prp	8310 (1)
Benzo(ghi)perylene	<0.00076	mg/L	83 /178	05/21/1993	0.00076	prp	8310 (1)
Chrysene	<0.00015	mg/L	83 /178	05/21/1993	0.00015	prp	8310 (1)
Dibenzo(a,h)anthracene	<0.00030	mg/L	83 /178	05/21/1993	0.00030	prp	8310 (1)
Fluoranthene	<0.0021	mg/L	83 /178	05/21/1993	0.0021	prp	8310 (1)
Fluorene	<0.0021	mg/L	83 /178	05/21/1993	0.0021	prp	8310 (1)
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	83 /178	05/21/1993	0.00043	prp	8310 (1)
Naphthalene	<0.010	mg/L	83 /178	05/21/1993	0.010	prp	8310 (1)
Phenanthrene	<0.0064	mg/L	83 /178	05/21/1993	0.0064	prp	8310 (1)
Pyrene	<0.0027	mg/L	83 /178	05/21/1993	0.0027	prp	8310 (1)
Surr: 2-Fluorobiphenyl	53	%	83 /178	05/21/1993	1-118	prp	8310 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
650 W. Bartlett Rd.
Bartlett, IL 60103
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Fax: (708) 289-5445

ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210863

NET Job No.: 93.03857

Sample Description: WMW-01; Upgradient-UST; Grab
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 13:10
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
VOLATILES - 8021 AQUEOUS			/				
Benzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromochloromethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromodichloromethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromoform	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromomethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
n-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
sec-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
tert-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Carbon tetrachloride	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chlorodibromomethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloroethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloroform	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloromethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
2-Chlorotoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
4-Chlorotoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dibromo-3-chloropropane	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dibromoethane (EDB)	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Dibromomethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,4-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Dichlorodifluoromethane	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd.
Bartlett, IL 60103
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Fax: (708) 289-5445

ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210863

NET Job No.: 93.03857

Sample Description: WMW-01; Upgradient-UST; Grab
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 13:10
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
1,3-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
2,2-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
cis-1,3-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
trans-1,3-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Ethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Isopropylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
p-Isopropyltoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Methylene Chloride	<10.	ug/L	/8	05/20/1993	10.	mjs	8021 (1)
Methyl-t-butyl ether (MTBE)	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Naphthalene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
n-Propylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Styrene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,1,2-Tetrachloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,2,2-Tetrachloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Tetrachloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Toluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,3-Trichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,4-Trichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,1 Trichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,2-Trichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Trichloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Trichlorofluoromethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,3-Trichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,4-Trimethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3,5-Trimethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Vinyl Chloride	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Xylenes, total	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd.
Bartlett, IL 60103
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Fax: (708) 289-5445

ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210864

NET Job No.: 93.03857

Sample Description: WMW-02; Downgradient-UST; Grab
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 17:20
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	[illegible]	[illegible]
TRPH	<1.0	mg/L	/3	05/20/1993	10.		
DRO-Diesel Range Organics	<0.1	mg/L	/6	05/20/1993		/0 .	
Prep, 8310 PNAs AQUEOUS	extracted		R3 /	05/18/1993			
PNA CMPDS - 8310 AQUEOUS			/				
Acenaphthene	<0.018	mg/L	83 /178	05/21/1993	0.018		
Acenaphthylene	<0.010	mg/L	83 /178	05/21/1993	0.010		
Anthracene	<0.0066	mg/L	83 /178	05/21/1993	0.0066		
Benzo(a)anthracene	<0.00013	mg/L	83 /178	05/21/1993	0.00013		
Benzo(b)fluoranthene	<0.00018	mg/L	83 /178	05/21/1993	0.00018	[illegible]	[illegible]
Benzo(k)fluoranthene	<0.00017	mg/L	83 /178	05/21/1993	0.00017	prp	8310 (1)
Benzo(a)pyrene	<0.00023	mg/L	83 /178	05/21/1993	0.00023	prp	8310 (1)
Benzo(ghi)perylene	<0.00076	mg/L	83 /178	05/21/1993	0.00076	prp	8310 (1)
Chrysene	<0.00015	mg/L	83 /178	05/21/1993	0.00015	prp	8310 (1)
Dibenzo(a,h)anthracene	<0.00030	mg/L	83 /178	05/21/1993	0.00030	prp	8310 (1)
Fluoranthene	<0.0021	mg/L	83 /178	05/21/1993	0.0021	prp	8310 (1)
Fluorene	<0.0021	mg/L	83 /178	05/21/1993	0.0021	prp	8310 (1)
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	83 /178	05/21/1993	0.00043	prp	8310 (1)
Naphthalene	<0.010	mg/L	83 /178	05/21/1993	0.010	prp	8310 (1)
Phenanthrene	<0.0064	mg/L	83 /178	05/21/1993	0.0064	prp	8310 (1)
Pyrene	<0.0027	mg/L	83 /178	05/21/1993	0.0027	prp	8310 (1)
Surr: 2-Fluorobiphenyl	38	%	83 /178	05/21/1993	1-118	prp	8310 (1)
VOLATILES - 8021 AQUEOUS			/				
Benzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromochloromethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromodichloromethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromoform	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromomethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
n-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd.
Bartlett, IL 60103
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210864

NET Job No.: 93.03857

Sample Description: WMW-02; Downgradient-UST; Grab
VHE Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 17:20
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
sec-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
tert-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Carbon tetrachloride	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chlorodibromomethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloroethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloroform	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloromethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
2-Chlorotoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
4-Chlorotoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dibromo-3-chloropropane	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dibromoethane (EDB)	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Dibromomethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,4-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Dichlorodifluoromethane	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloroethane	30.	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
cis 1,2 Dichloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/l	/8	05/20/1993	1.0	mjs	8021 (1)
1,2 Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3-Dichloropropane	<1.0	ug/l	/8	05/20/1993	1.0	mjs	8021 (1)
2,2-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloropropene	<1.0	ug/l	/8	05/20/1993	1.0	mjs	8021 (1)
cis-1,3-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
trans-1,3-Dichloropropene	<1.0	ug/l	/8	05/20/1993	1.0	mjs	8021 (1)
Ethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Isopropylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd.
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210864

NET Job No.: 93.03857

Sample Description: WMW-02; Downgradient-UST; Grab
VHE Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 17:20
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:33
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
p-Isopropyltoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Methylene Chloride	<10.	ug/L	/8	05/20/1993	10.	mjs	8021 (1)
Methyl-t-butyl ether (MTBE)	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Naphthalene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
n-Propylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Styrene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,1,2-Tetrachloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,2,2-Tetrachloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Tetrachloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Toluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,3-Trichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,4-Trichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,1-Trichloroethane	330.	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,2-Trichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Trichloroethene	370.	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Trichlorofluoromethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,3-Trichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,4-Trimethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3,5-Trimethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Vinyl Chloride	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Xylenes, total	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210865

NET Job No.: 93.03857

Sample Description: WMW-03; Downgradient-UST; Grab
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 14:40
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
TRPH	<1.0	mg/L	/3	05/20/1993	10.	mjs	9073 (1)
DRO-Diesel Range Organics	<0.1	mg/L	/6	05/20/1993		mjs	
Prep, 8310 PNAs AQUEOUS	extracted		83 /	05/18/1993		lav	8310 (1)
PNA EXPOS - 8310 AQUEOUS			/				
Acenaphthene	<0.018	mg/L	83 /178	05/21/1993	0.018	prp	8310 (1)
Acenaphthylene	<0.010	mg/L	83 /178	05/21/1993	0.010	prp	8310 (1)
Anthracene	<0.0066	mg/L	83 /178	05/21/1993	0.0066	prp	8310 (1)
Benzo(a)anthracene	<0.00013	mg/L	83 /178	05/21/1993	0.00013	prp	8310 (1)
Benzo(b)fluoranthene	<0.00018	mg/L	83 /178	05/21/1993	0.00018	prp	8310 (1)
Benzo(k)fluoranthene	<0.00017	mg/L	83 /178	05/21/1993	0.00017	prp	8310 (1)
Benzo(a)pyrene	<0.00023	mg/L	83 /178	05/21/1993	0.00023	prp	8310 (1)
Benzo(ghi)perylene	<0.00076	mg/L	83 /178	05/21/1993	0.00076	prp	8310 (1)
Chrysene	<0.00015	mg/L	83 /178	05/21/1993	0.00015	prp	8310 (1)
Dibenzo(a,h)anthracene	<0.00030	mg/L	83 /178	05/21/1993	0.00030	prp	8310 (1)
Fluoranthene	<0.0021	mg/L	83 /178	05/21/1993	0.0021	prp	8310 (1)
Fluorene	<0.0021	mg/L	83 /178	05/21/1993	0.0021	prp	8310 (1)
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	83 /178	05/21/1993	0.00043	prp	8310 (1)
Naphthalene	<0.010	mg/L	83 /178	05/21/1993	0.010	prp	8310 (1)
Phenanthrene	<0.0064	mg/L	83 /178	05/21/1993	0.0064	prp	8310 (1)
Pyrene	<0.0027	mg/L	83 /178	05/21/1993	0.0027	prp	8310 (1)
Surr: 2-Fluorobiphenyl	50	%	83 /178	05/21/1993	1-118	prp	8310 (1)
VOLATILES - 8021 AQUEOUS			/				
Benzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromochloromethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromodichloromethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromoform	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromomethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
n Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210865

NET Job No.: 93.03857

Sample Description: WMW-03; Downgradient-UST; Grab
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 14:40
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
sec-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
tert-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Carbon tetrachloride	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chlorodibromomethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloroethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloroform	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloromethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
2-Chlorotoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
4-Chlorotoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dibromo-3-chloropropane	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dibromoethane (EDB)	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Dibromomethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,4-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Dichlorodifluoromethane	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloroethane	11.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
cis 1,2-Dichloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
trans-1,2-Dichloroethene	8.30	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
2,2-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
cis-1,3-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
trans-1,3-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Ethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Isopropylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210865

NET Job No.: 93.03857

Sample Description: WMW-03; Downgradient-UST; Grab
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 14:40
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:20
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
p-Isopropyltoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Methylene Chloride	<10.	ug/L	/8	05/20/1993	10.	mjs	8021 (1)
Methyl-t-butyl ether (MTBE)	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Naphthalene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
n-Propylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Styrene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,1,2-Tetrachloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,2,2-Tetrachloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Tetrachloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Toluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,3-Trichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,4-Trichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,1-Trichloroethane	42.	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,2-Trichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Trichloroethene	37.	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Trichlorofluoromethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,3-Trichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,4-Trimethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3,5-Trimethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Vinyl Chloride	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Xylenes, total	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210866

NET Job No.: 93.03857

Sample Description: WMW-03D; Downgradient-UST; Grab
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 14:40
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
TRPH	<1.0	mg/L	/3	05/20/1993	10.	mjs	9073 (1)
DRO Diesel Range Organics	<0.1	mg/L	/6	05/20/1993		mjs	
Prep, 8310 PNAs AQUEOUS	extracted		83 /	05/18/1993		law	8310 (1)
PNA CMPDS - 8310 AQUEOUS			/				
Acenaphthene	<0.018	mg/L	83 /178	05/21/1993	0.018	prp	8310 (1)
Acenaphthylene	<0.010	mg/L	83 /178	05/21/1993	0.010	prp	8310 (1)
Anthracene	<0.0066	mg/L	83 /178	05/21/1993	0.0066	prp	8310 (1)
Benzo(a)anthracene	<0.00013	mg/L	83 /178	05/21/1993	0.00013	prp	8310 (1)
Benzo(b)fluoranthene	<0.00018	mg/L	83 /178	05/21/1993	0.00018	prp	8310 (1)
Benzo(k)fluoranthene	<0.00017	mg/L	83 /178	05/21/1993	0.00017	prp	8310 (1)
Benzo(a)pyrene	<0.00023	mg/L	83 /178	05/21/1993	0.00023	prp	8310 (1)
Benzo(ghi)perylene	<0.00076	mg/L	83 /178	05/21/1993	0.00076	prp	8310 (1)
Chrysene	<0.00015	mg/L	83 /178	05/21/1993	0.00015	prp	8310 (1)
Dibenzo(a,h)anthracene	<0.00030	mg/L	83 /178	05/21/1993	0.00030	prp	8310 (1)
Fluoranthene	<0.0021	mg/L	83 /178	05/21/1993	0.0021	prp	8310 (1)
Fluorene	<0.0021	mg/L	83 /178	05/21/1993	0.0021	prp	8310 (1)
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	83 /178	05/21/1993	0.00043	prp	8310 (1)
Naphthalene	<0.010	mg/L	83 /178	05/21/1993	0.010	prp	8310 (1)
Phenanthrene	<0.0064	mg/L	83 /178	05/21/1993	0.0064	prp	8310 (1)
Pyrene	<0.0027	mg/L	83 /178	05/21/1993	0.0027	prp	8310 (1)
Surr: 2-Fluorobiphenyl	28	%	83 /178	05/21/1993	1-118	prp	8310 (1)
VOLATILES - 8021 AQUEOUS			/				
Benzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromochloromethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromodichloromethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromoform	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromomethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
n-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd.
Bartlett, IL 60103
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210866

NET Job No.: 93.03857

Sample Description: WMW-03D; Downgradient-UST; Grab
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 14:40
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:20
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
sec-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
tert-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Carbon tetrachloride	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chlorodibromomethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloroethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloroform	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloromethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
2-Chlorotoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
4-Chlorotoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dibromo-3-chloropropane	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dibromoethane (EDB)	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Dibromomethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,4-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Dichlorodifluoromethane	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloroethane	11.	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloroethene	10.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
cis 1,2-Dichloroethene	8.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
2,2-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
cis-1,3-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
trans-1,3-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Ethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Hexachlorobutadiene	2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Isopropylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210866

NET Job No.: 93.03857

Sample Description: WMW-03D; Downgradient-UST; Grab
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 14:40
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert.. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
p-Isopropyltoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Methylene Chloride	<10.	ug/L	/8	05/20/1993	10.	mjs	8021 (1)
Methyl-t-butyl ether (MTBE)	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Naphthalene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
n-Propylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Styrene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,1,2-Tetrachloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,2,2-Tetrachloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Tetrachloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Toluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,3-Trichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,4-Trichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,1-Trichloroethane	49.	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,2-Trichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Trichloroethene	42.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Trichlorofluoromethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,3-Trichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,4-Trimethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3,5-Trimethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Vinyl Chloride	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Xylenes, total	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210871

NET Job No.: 93.03857

Sample Description: Equipment Blank
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 15:20
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
TRPH	<1.0	mg/L	/3	05/20/1993	10.	mjc	9073 (1)
DRO-Diesel Range Organics	<0.1	mg/L	/6	05/20/1993		mjs	
Prep, 8310 PNAs AQUEOUS	extracted		83 /	05/18/1993		lau	8310 (1)
PNA CMPDS - 8310 AQUEOUS			/				
Acenaphthene	<0.018	mg/L	83 /178	05/21/1993	0.018	prp	8310 (1)
Acenaphthylene	<0.010	mg/L	83 /178	05/21/1993	0.010	prp	8310 (1)
Anthracene	<0.0066	mg/L	83 /178	05/21/1993	0.0066	prp	8310 (1)
Benzo(a)anthracene	<0.00013	mg/L	83 /178	05/21/1993	0.00013	prp	8310 (1)
Benzo(b)fluoranthene	<0.00018	mg/L	83 /178	05/21/1993	0.00018	prp	8310 (1)
Benzo(k)fluoranthene	<0.00017	mg/L	83 /178	05/21/1993	0.00017	prp	8310 (1)
Benzo(a)pyrene	<0.00023	mg/L	83 /178	05/21/1993	0.00023	prp	8310 (1)
Benzo(ghi)perylene	<0.00076	mg/L	83 /178	05/21/1993	0.00076	prp	8310 (1)
Chrysene	<0.00015	mg/L	83 /178	05/21/1993	0.00015	prp	8310 (1)
Dibenzo(a,h)anthracene	<0.00030	mg/L	83 /178	05/21/1993	0.00030	prp	8310 (1)
Fluoranthene	<0.0021	mg/L	83 /178	05/21/1993	0.0021	prp	8310 (1)
Fluorene	<0.0021	mg/L	83 /178	05/21/1993	0.0021	prp	8310 (1)
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	83 /178	05/21/1993	0.00043	prp	8310 (1)
Naphthalene	<0.010	mg/L	83 /178	05/21/1993	0.010	prp	8310 (1)
Phenanthrene	<0.0064	mg/L	83 /178	05/21/1993	0.0064	prp	8310 (1)
Pyrene	<0.0027	mg/L	83 /178	05/21/1993	0.0027	prp	8310 (1)
Surr: 2-Fluorobiphenyl	48	%	83 /178	05/21/1993	1-118	prp	8310 (1)
VOLATILES - 8021 AQUEOUS			/				
Benzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromochloromethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromodichloromethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromoform	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromomethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
n-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
950 W. Bartlett Rd.
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210871

NET Job No.: 93.03857

Sample Description: Equipment Blank
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 15:20
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
sec-Butylbenzene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
tert-Butylbenzene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
Carbon tetrachloride	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
Chlorobenzene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
Chlorodibromomethane	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
Chloroethane	<4.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
Chloroform	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
Chloromethane	<4.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
2-Chlorotoluene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
4-Chlorotoluene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
1,2-Dibromo-3-chloropropane	<2.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
1,2-Dibromoethane (EDB)	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
Dibromomethane	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichlorobenzene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
1,3-Dichlorobenzene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
1,4-Dichlorobenzene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
Dichlorodifluoromethane	<3.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloroethane	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichloroethane	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
cis-1,2 Dichloroethene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichloropropane	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
1,3-Dichloropropane	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
2,2-Dichloropropane	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloropropene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
cis-1,3-Dichloropropene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
trans-1,3-Dichloropropene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
Ethylbenzene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)
Isopropylbenzene	<1.0	ug/L	/B	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
950 W. Bartlett Rd.
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210871

NET Job No.: 93.03857

Sample Description: Equipment Blank
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken: 15:20
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
p-Isopropyltoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Methylene Chloride	<10.	ug/L	/8	05/20/1993	10.	mjs	8021 (1)
Methyl-t-butyl ether (MTBE)	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Naphthalene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
n-Propylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Styrene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,1,2-Tetrachloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,2,2-Tetrachloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Tetrachloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Toluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,3-Trichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,4-Trichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,1-Trichloroethane	2.7	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,2-Trichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Trichloroethene	2.7	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Trichlorofluoromethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,3-Trichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,4-Trimethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3,5-Trimethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Vinyl Chloride	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Xylenes, total	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd.
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210872

NET Job No.: 93.03857

Sample Description: Trip Blank
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken:
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 999447130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
VOLATILES - 8021 AQUEOUS			/				
Benzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromochloromethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromodichloromethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromoform	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Bromomethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
n-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
sec-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
tert-Butylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Carbon tetrachloride	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chlorodibromomethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloroethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloroform	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Chloromethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
2-Chlorotoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
4-Chlorotoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2 Dibromo-3-chloropropane	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dibromoethane (EDB)	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Dibromomethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,4-Dichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Dichlorodifluoromethane	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd.
Bartlett IL 60103
Tel: (708) 289-3100
Fax: (708) 289-5445

ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

05/27/1993

Sample No. : 210872

NET Job No.: 93.03857

Sample Description: Trip Blank
VME Americas, Inc.

Date Taken: 05/13/1993
Time Taken:
IEPA Cert. No. 100221

Date Received: 05/14/1993
Time Received: 10:23
WDNR Cert. No. 99944/130

Parameter	Results	Units	Batch No. Prep/Run	Date of Analysis	Reporting Limit	Analyst	Analytical Method
1,3-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
2,2-Dichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
cis-1,3-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
trans-1,3-Dichloropropene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Ethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Isopropylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
p-Isopropyltoluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Methylene Chloride	<10.	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Methyl-t-butyl ether (MTBE)	<1.0	ug/L	/8	05/20/1993	10.	mjs	8021 (1)
Naphthalene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
n-Propylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Styrene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,1,2-Tetrachloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,2,2-Tetrachloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Tetrachloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Toluene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,3-Trichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,4-Trichlorobenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,1-Trichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,1,2-Trichloroethane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Trichloroethene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Trichlorofluoromethane	<4.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,3-Trichloropropane	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,2,4-Trimethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
1,3,5-Trimethylbenzene	<1.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Vinyl Chloride	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)
Xylenes, total	<3.0	ug/L	/8	05/20/1993	1.0	mjs	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521
Mr. Joe McCue

05/27/1993

NET Job Number: 93.03857

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Units	Percent Recovery
Conductivity	137	1413.	1484	umhos/cm	105.0
ACID CMPDS - 8270 AQUEOUS					
2,4-Dichlorophenol	177	50.	51.21	ug/L	102.4
BASE/NEUTRALS - 8270 AQUEOUS					
PNA CMPDS - 8310 AQUEOUS					
Acenaphthene	178	1000.	941.80	mg/Kg	94.2
Acenaphthylene	178	1000.	1052.0	mg/Kg	105.2
Anthracene	178	1000.	997.59	mg/Kg	99.8
Benzo(a)anthracene	178	1000.	970.01	mg/Kg	97.9
Benzo(b)fluoranthene	178	1000.	972.31	mg/Kg	97.2
Benzo(k)fluoranthene	178	1000.	983.14	mg/Kg	98.3
Benzo(a)pyrene	178	1000.	1061.3	mg/Kg	106.1
Benzo(ghi)perylene	178	1000.	983.53	mg/Kg	98.4
Chrysene	178	1000.	993.10	mg/Kg	99.3
Dibenzo(a,h)anthracene	178	1000.	971.08	mg/Kg	97.1
Fluoranthene	178	1000.	970.48	mg/Kg	97.0
Fluorene	178	1000.	939.47	mg/Kg	93.9
Indeno(1,2,3-cd)pyrene	178	1000.	923.60	mg/Kg	92.4
Naphthalene	178	1000.	938.97	mg/Kg	93.9
Phenanthrene	178	1000.	973.67	mg/Kg	97.4
Pyrene	178	1000.	974.20	mg/Kg	97.4
Surr: 2-Fluorobiphenyl	178	1000.	940.56	%	94.1

CCV - Continuing Calibration Verification

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
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QUALITY CONTROL REPORT

BLANK ANALYSIS

VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521
Mr. Joe McCue

05/27/1993

NET Job Number: 93.03857

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Conductivity		157	<1.0	umhos	1.	25108(4) 120.1(3)
PESTICIDES/PCB - 8080 AQUEOUS						8080 (1)
4,4'-DDD	107	133	<0.1	ug/L	0.1	8080 (1)
Dieldrin	107	133	<0.1	ug/L	0.1	8080 (1)
Endosulfan I	107	133	<0.05	ug/L	0.05	8080 (1)
Endosulfan sulfate	107	133	<0.1	ug/L	0.1	8080 (1)
Endrin aldehyde	107	133	<0.1	ug/L	0.1	8080 (1)
Heptachlor epoxide	107	133	<0.05	ug/L	0.05	8080 (1)
PCB-1248	107		<1.0	ug/L	1.0	8080 (1)
Surr: Dibutylchlorendate	107		NA	%	20-150	8080 (1)
Surr: Tetrachloroxylene (TCX)	107		29	%		8080 (1)
Surr: Decachlorobiphenyl (DCB)	107		26	%		8080 (1)
PNA CMPDS - 8310 AQUEOUS						8310 (1)
Acenaphthene	83	178	<0.018	mg/L	0.018	8310 (1)
Acenaphthylene	83	178	<0.010	mg/L	0.010	8310 (1)
Anthracene	83	178	<0.0066	mg/L	0.0066	8310 (1)
Benzo(a)anthracene	83	178	<0.00013	mg/L	0.00013	8310 (1)
Benzo(b)fluoranthene	83	178	<0.00018	mg/L	0.00018	8310 (1)
Benzo(k)fluoranthene	83	178	<0.00017	mg/L	0.00017	8310 (1)
Benzo(a)pyrene	83	178	<0.00023	mg/L	0.00023	8310 (1)
Benzo(ghi)perylene	83	178	<0.00076	mg/L	0.00076	8310 (1)
Chrysene	83	178	<0.00015	mg/L	0.00015	8310 (1)
Dibenzo(a,h)anthracene	83	178	<0.00030	mg/L	0.00030	8310 (1)
Fluoranthene	83	178	<0.0021	mg/L	0.0021	8310 (1)
Fluorene	83	178	<0.0021	mg/L	0.0021	8310 (1)
Indeno(1,2,3-cd)pyrene	83	178	<0.00043	mg/L	0.00043	8310 (1)
Naphthalene	83	178	<0.010	mg/L	0.010	8310 (1)
Phenanthrene	83	178	<0.0064	mg/L	0.0064	8310 (1)

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.

NATIONAL ENVIRONMENTAL TESTING, INC.

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QUALITY CONTROL REPORT

BLANK ANALYSIS

VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521
Mr. Joe McCue

05/27/1993

NET Job Number: 93.03857

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Pyrene	83	178	<0.0027	mg/L	0.0027	8310 (1)
Surr: 2-Fluorobiphenyl	83	178	56	%	1-118	8310 (1)

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.

NATIONAL ENVIRONMENTAL TESTING, INC.

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QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521
Mr. Joe McCue

05/27/1993

NET Job Number: 93.03857

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
PNA CHPOS - 8310 AQUEOUS												
Acenaphthene	83	178	0.58001	<0.018	1.0	mg/L	58.0	0.4933	1.0	mg/L	49.3	16.2
Benzo(b)fluoranthene	83	178	0.90012	<0.0001	1.0	mg/L	90.0	0.9213	1.0	mg/L	92.1	2.3
Fluorene	83	178	0.47817	<0.0021	1.0	mg/L	47.8	0.4234	1.0	mg/L	42.3	12.2
Naphthalene	83	178	0.43599	<0.010	1.0	mg/L	43.6	0.5388	1.0	mg/L	53.9	21.1
Phenanthrene	83	178	0.70063	<0.0064	1.0	mg/L	70.9	0.7609	1.0	mg/L	76.1	7.1
PNA CHPOS - 8310 AQUEOUS												
Acenaphthene	83	63	0.008	<1.200	0.033	mg/Kg	24.20	0.010	0.033	mg/Kg	30.30	22.40
Acenaphthylene	83	63	0.008	<0.660	0.033	mg/Kg	24.20	0.008	0.033	mg/Kg	24.20	0.00
Anthracene	83	63	0.016	<0.660	0.033	mg/Kg	48.50	0.017	0.033	mg/Kg	51.50	6.00
Benzo(a)anthracene	83	63	0.019	<0.0087	0.033	mg/Kg	57.60	0.020	0.033	mg/Kg	60.60	5.10
Benzo(b)fluoranthene	83	63	0.017	<0.011	0.033	mg/Kg	51.50	0.017	0.033	mg/Kg	51.50	0.00
Benzo(k)fluoranthene	83	63	0.018	<0.011	0.033	mg/Kg	54.50	0.018	0.033	mg/Kg	54.50	0.00
Benzo(a)pyrene	83	63	0.021	<0.015	0.033	mg/Kg	63.60	0.022	0.033	mg/Kg	66.70	4.60
Benzo(ghi)perylene	83	63	0.017	<0.051	0.033	mg/Kg	51.50	0.017	0.033	mg/Kg	51.50	0.00
Chrysene	83	63	0.019	<0.100	0.033	mg/Kg	57.60	0.019	0.033	mg/Kg	57.60	0.00
Dibenzo(a,h)anthracene	83	63	0.015	<0.020	0.033	mg/Kg	45.50	0.017	0.033	mg/Kg	51.50	12.40
Fluoranthene	83	63	0.018	<0.660	0.033	mg/Kg	54.50	0.015	0.033	mg/Kg	45.50	18.00
Fluorene	83	63	0.009	<0.140	0.033	mg/Kg	27.30	0.010	0.033	mg/Kg	30.30	10.40
Indeno(1,2,3-cd)pyrene	83	63	0.016	<0.029	0.033	mg/Kg	48.50	0.016	0.033	mg/Kg	48.50	0.00
Naphthalene	83	63	0.001	<0.660	0.033	mg/Kg	3.00	0.005	0.033	mg/Kg	15.20	134.00
Phenanthrene	83	63	0.017	<0.660	0.033	mg/Kg	51.50	0.016	0.033	mg/Kg	48.50	6.00
Pyrene	83	63	0.019	<0.180	0.033	mg/Kg	57.60	0.016	0.033	mg/Kg	48.50	17.20

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

NATIONAL ENVIRONMENTAL TESTING, INC.

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QUALITY CONTROL REPORT

DUPLICATES

VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL, 60521
Mr. Joe McCue

05/27/1993

NET Job Number: 93.03857

Analyte	Prep Batch Number	Run Batch Number	Original Analysis	Duplicate Analysis	Units	RPD
Conductivity		137	24,900.	25,400.	umhos/	2.0
pH		522	7.61	7.65	units	0.50
pH		522	8.22	8.24	units	0.20
pH		522	7.51	7.50	units	0.10

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.

NATIONAL ENVIRONMENTAL TESTING, INC.

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521
Mr. Joe McCue

05/27/1993

NET Job Number: 93.03857

Analyte	Prep Batch Number	Run Batch Number	LCS True Concentration	LCS % Recovery
PESTICIDES/PCB - 8080 AQUEOUS				
4,4'-DDD	107	133	50.0	86.0
Dieldrin	107	133	50.0	84.0
Endosulfan I	107	133	25.0	68.0
Endosulfan sulfate	107	133	50.	66.0
Surr: Dibutylchlorendate	107	133	50	100.0
PESTICIDES/PCB - 8080 AQUEOUS				
4,4'-DDD	107	133	50.0	102.0
Dieldrin	107	133	50.0	84.0
Endosulfan I	107	133	25.0	80.0
Endosulfan sulfate	107	133	50.	74.0
Surr: Dibutylchlorendate	107	133	50	100.0
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	83	178	1.0	80.7
Acenaphthylene	83	178	1.0	91.6
Anthracene	83	178	1.0	77.3
Benzo(a)anthracene	83	178	1.0	94.5
Benzo(b)fluoranthene	83	178	1.0	98.0
Benzo(k)fluoranthene	83	178	1.0	96.1
Benzo(a)pyrene	83	178	1.0	110.6
Benzo(ghi)perylene	83	178	1.000	81.6
Chrysene	83	178	1.0	98.3
Dibenzo(a,h)anthracene	83	178	1.0	70.4
Fluoranthene	83	178	1.0	83.2
Fluorene	83	178	1.00	80.7
Indeno(1,2,3-cd)pyrene	83	178	1.0	93.4
Naphthalene	83	178	1.0	53.1
Phenanthrene	83	178	1.00	67.4
Pyrene	83	178	1.0	90.3
Surr: 2-Fluorobiphenyl	83	178	100	35.0

LCS - Laboratory Control Standard

Advisory Control Limits - Inorganics LCS recovery should be 80 - 120%.

ATTACHMENT E
HYDROPUNCH INVESTIGATION LOGS

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☒ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		HPB-1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Versar Inc / Michael Melton, Geologist; Wong Engineering / Dan Kling, Driller	10/13/93 (MM DD YY)	10/13/93 (MM DD YY)	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	7 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N   Lat ° ' "   Local Grid Location (If applicable) ☐ N ☐ E
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W   Long ° ' "   Feet ☐ S   Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample: Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	8" Concrete w/ sand & Gravel Base										
			2											
			3											
SS-1	.8 / 1.5	2 2 1	4	Fill dark brown Sand, gravel, slag and clay										
			5	possible Buried Black clayey Topsoil										
			6											
			7											
			8											
SS-2		3 4 5	9	Silt (ML) Gray, loose, trace sand, wet										
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Michael Melton	Versar Inc

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
SS-3	1.3 / 1.5	2 6 4	19	Sand (SP), Med dense, wet, trace clay	SP									
			20											
			21											
			22											
			23											
SS-4	2.0 / 1.5	5 9 4	24	Silt (ML), Medium dense, trace sand, wet	ML									
			25											
			26											
			27											
			28											
			29											
SS-5	2.0 / 1.5	0 / 12" 4	30	grades to very loose, wet	ML									
			31											
			32											

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
SS-6	1.2 / 1.5	4 6	34	grades to trace clay, wet	ML									
		4	35											
			36											
			37											
			38											
SS-7	1.4 / 1.5	3 3	39	grades to little clay, wet	ML									
		4	40											
			41											
			42											
			43											
SS-8	1.0 / 1.5	14 7	44	grades to trace clay, fractured limestone bedrock chips @ 44.2' wet	ML									
		23	45											
			46											
			47											
			48											
			49	EOB @ 48' Possibly on Bedrock surface, Auger Refusal	Bedrock									
			50											
			51	Annular space grouted as augers were pulled										
			52											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☒ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other ______

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Facility/Project Name: VME	License/Permit/Monitoring Number:	Boring Number: HPB-2
Boring Drilled By (Firm name and name of crew chief): Versar Inc / Michael Melton, Geologist; Moug Engineering / Don Kling, Driller	Date Drilling Started: 10/13/93 (MM DD YY)	Date Drilling Completed: 10/13/93 (MM DD YY)
Drilling Method: HSA		
DNR Facility Well No. / WI Unique Well No. / Common Well Name	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL
Borehole Diameter: 2 inches		
Boring Location State Plane 375,808 N, 2,479,437 E S/C/N; NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W	Lat ° ' " ; Long ° ' "	Local Grid Location (If applicable) ____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W
County: Waukesha	DNR County Code: 68	Civil Town/City/ or Village: Waukesha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0–1	Asphalt pavement w/ gravel base										
			2											
			3											
SS-1	.7/1.5	5, 7, 7	4	Fill, Brown fine to coarse grained sand, gravel, w/ clay, moist										
			5–7											
			8		SP									
SS-2	1.5/1.5	4, 6, 10	9	Sand (SP) brown, med-coarse, Trace clay, wet										
			10–12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael Melton | Firm: Versar Inc

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18		ML									
SS-3	0.9/1.5	4 4 4	19	SILT (ML) gray, loose, trace clay, wet										
			20											
			21											
			22											
			23											
SS-4		2 4 4	24											
			25											
			26											
			27											
			28											
SS-5	1.0/1.5	4 4 6	29											
			30											
			31											
			32											

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
S-6	1.5 / 1.5	8 10	34	grades to little clay, wet	mc									
		6	35											
			36											
			37											
			38	fine grained										
S-7	1.4 / 1.5	17 18	39	Silty Sand (sm) Gray, dense, trace Medium to Coarse grained	SM									
		25	40	sand, some clay, wet										
			41											
			42											
			43	EOB @ 42' on Bedrock surface, Auger Refusal	Bedrock									
			44	Annular space grouted										
			45	as augers were removed										
			46											
			47											
			48											
			49											
			50											
			51											
			52											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		HP B-3

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (M M D D Y Y)	Date Drilling Completed (M M D D Y Y)	Drilling Method
Versar Inc / Michael Melton, Geologist Woog Engineering / Dorkling, Driller	10/14/93	10/14/93	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	7 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N | Lat ° ' " | Long ° ' "

NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			5											
			10											
			15	Collected Hydropunch Sample										
			20											
			25											
			30											
			35											
			40	Collected Hydropunch Sample										
			45	End of Boring @ 42'										
			50	Grated Annular space as augers were pulled										
			55											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Michael Melton Firm Versar Inc

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other ________

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-92

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME	_ _ _ _ _ _ _ _	HPB-4

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Versar Inc / Michael Melton, Geologist Wong Engineering / Dunkling, Driller	01 14 93 (MM DD YY)	01 14 93 (MM DD YY)	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			____ Feet MSL	____ Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N | Lat ° ' " | Long ° ' "
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W

Local Grid Location (If applicable)
____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	6 8	Waukesha

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			5											
			10											
				Hydropunch Sample Collected										
			15											
			20											
			25											
			30											
			35											
			40	Collected Hydropunch sample										
			45	End of Boring @ 44'										
			50	Grouted Annular space as augers were pulled										
			55											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael Melton
Firm: Versar Inc

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name: VME	License/Permit/Monitoring Number:	Boring Number: HPB-5
Boring Drilled By (Firm name and name of crew chief): Versar Inc / Michael Methot, Geologist; Wang Engineering / Dorkling, Driller	Date Drilling Started: 10/14/93 (MM DD YY)	Date Drilling Completed: 10/14/93 (MM DD YY)
Drilling Method: HSA	DNR Facility Well No:	WI Unique Well No:
Common Well Name:	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
Borehole Diameter: 2 inches	Boring Location State Plane: 375,808 N, 2,479,437 E S/C/N	Lat: ° ' "
Long: ° ' "	Local Grid Location (If applicable): ☐ N ☐ E Feet ☐ S Feet ☐ W	NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
County: Waukesha	DNR County Code: 68	Civil Town/City/ or Village: Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			5											
			10	Collected Hydropunch Sample										
			15											
			20											
			25											
			30											
			35											
			40	Collected Hydropunch Sample										
			45	End of Boring @ 43.6'										
			50	Grouted Annular Space as Augers were removed										
			55											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael Methot Firm: Versar Inc

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		HP B-6

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (MM DD YY)	Date Drilling Completed (MM DD YY)	Drilling Method
Versar Inc / Michael Melton, Geologist Long Engineering / Don Kling, Driller	10 15 93	10 15 93	HSA

DNR Facility Well No	WI Unique Well No	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			5											
			10											
			15	Collected Hydropunch sample										
				End of Boring @ 15.6'										
			20	Grouted annular space as augers were removed										
			25											
			30											
			35											
			40											
			45											
			50											
			55											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Michael Melton Firm Versar Inc

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name: VME	License/Permit/Monitoring Number:	Boring Number: HPB-7
Boring Drilled By (Firm name and name of crew chief): Versar Inc / Michael McHart, Geologist; Woog Engineering / Dahling, Driller	Date Drilling Started: 10/15/93 (MM DD YY)	Date Drilling Completed: 10/15/93 (MM DD YY)
Drilling Method: HSA	DNR Facility Well No:	Wi Unique Well No:
Common Well Name:	Final Static Water Level: ____ Feet MSL	Surface Elevation: ____ Feet MSL
Borehole Diameter: 2 inches	Boring Location: State Plane 375,808 N, 2,479,437 E S/C/N	Lat ° ' "
Long ° ' "	Local Grid Location (If applicable): ____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W	NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
County: Waukesha	DNR County Code: 68	Civil Town/City/ or Village: Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			5											
			10	Collected Hydropunch sample @15.6'										
			15	End of Boring @15.6'										
			20	Grouted Annulus as augers were removed										
			25											
			30											
			35											
			40											
			45											
			50											
			55											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael McHart Firm: Versar Inc

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State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☑ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
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Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		HPB-8

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (MM DD YY)	Date Drilling Completed (MM DD YY)	Drilling Method
Versar Inc / Michael Melton, Geologist Woog Engineering / Dahling, Driller	10 15 93	10 15 93	HSA

DNR Facility Well No.	Wi Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			5											
			10											
			15	collected Hydropunch sample @ 15.5'										
				End of Boring @ 15.5'										
			20	Grouted Annular space as augers were pulled										
			25											
			30											
			35											
			40											
			45											
			50											
			55											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael Melton Firm: Versar Inc

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State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Solid Waste
- ☐ Emergency Response
- ☐ Wastewater
- ☐ Superfund
- ☑ Haz. Waste
- ☐ Underground Tanks
- ☐ Water Resources
- ☐ Other ______

SOIL BORING LOG INFORMATION

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Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
VME		HPB-9

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Versar Inc / Michael Melton, Geologist Wong Engineering / Dunkling, Driller	10/15/93 (MM DD YY)	10/15/93 (MM DD YY)	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			______ Feet MSL	______ Feet MSL	2 inches

Boring Location
State Plane 375,808 N, 2,479,437 E S/C/N
NE 1/4 of NE 1/4 of Section 2, T 6 N, R 19 E/W
Lat ° ' " Long ° ' "
Local Grid Location (If applicable) ______ Feet ☐ N ☐ S ______ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Waukesha	68	Waukesha

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			15	Collected Hydropunch sample										
			30	Collected Hydropunch Sample										
			35	End of Boring @ 34.5'										
			40	Grouted Annular Space as augers were pulled										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael Melton
Firm: Versar Inc

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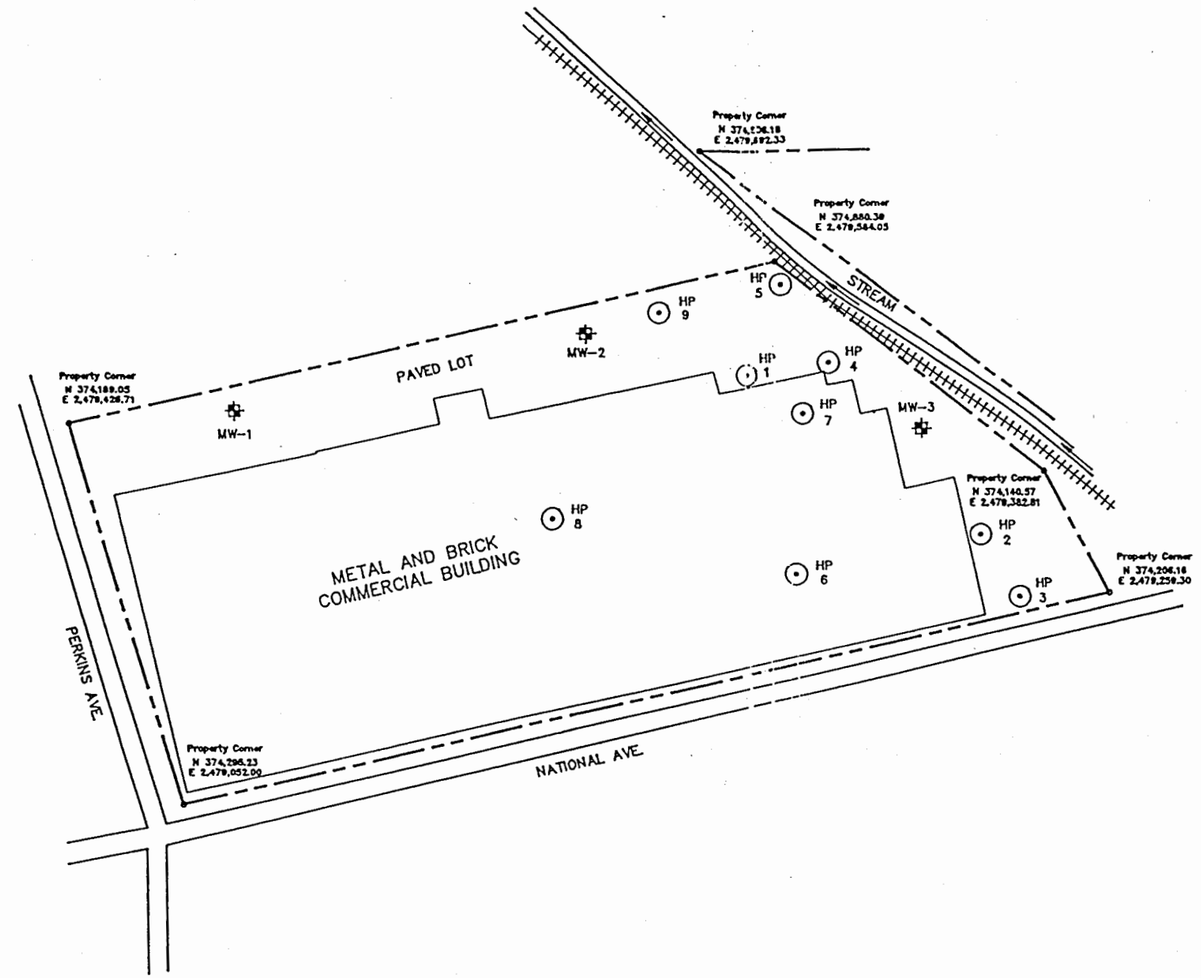
ATTACHMENT F
WELL AND HYDROPUNCH
LOCATION MAP



LEGEND

- HP ⊙ — SAMPLE LOCATION
- MW-3 ✲ — MONITOR WELL LOCATION
- RAILROAD TRACKS
- PROPERTY BOUNDARY

APPROXIMATE SCALE

150 0 150 300 FEET

TITLE:
FIGURE 1
PERKINS SITE – SITE LAYOUT

DRAWN: JDJ	DATE: 12-3-93
APPROVED: DJD	SCALE: AS NOTED

Versar INC.
1520 KENSINGTON ROAD
OAK BROOK, IL 60521

FOR:
VME AMERICAS, INC.
WAUKESHA, WI.

PROJECT NO.	1871.002
DRAWING NO.	18712-B5

CAD FILE \ACAD\1871002\18712B5.DWG

ATTACHMENT G
LABORATORY ANALYTICAL RESULTS
OF THE SIXTH TANK CONTENTS

PRECISION ANALYTICAL LABORATORY

205 WEST GALENA
MILWAUKEE, WI 53212
(414) 272-5222

11/29/93
10:18 RE

Analytical Report

Attn: Janice Van Haveren
Client: Superior Environmental
P.O. Box 1249
Sheboygan, WI 53082-1249

WORK ID: VME 20257

Date Received: 11/10/93
Date Reported: 11/22/93

PAL ORDER #: 9311190

SAMPLE DESCRIPTION	LAB ID	DATE COLLECTED
12068 UST LIQUID	01A	10/22/93
12069 UST SLUDGE	02A	10/22/93

Laboratory ID Number (Wisconsin DNR): 241369260

Certified By
Jeff Bushner

PRECISION ANALYTICAL LABORATORY

Report Comments

11/29/93

CLIENT: Superior Environmental

PAL Order #: 9311190

All analysis as per approved method found in one or more of the following:
Standard Methods for Evaluation of Water and Wastewater, 17th Edition
Methods for Chemical Analysis for Water and Wastes, Revised March 1983, EPA 600/4-79-020
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, 3rd Edition 1986 EPA SW846

Analysis performed or certified by Precision Analytical Laboratory

Per client request, samples 9311190-01 and -02 were analyzed past hold-time from containers with head space for volatile analysis.

OC Elevated detection limit due to sample concentration.

PRECISION ANALYTICAL LABORATORY

CLIENT:Superior Environmental

Test	Result	Limit	Units	Analyzed	Extracted	BY	Method
Sample ID: 12068 UST LIQUID		Lab ID: 9311190-01A			Collected: 10/22/93		
8021 - Water							8021
Benzene	BQL	2000	OC ug/l	11/18/93		JAH	
Bromobenzene	BQL	2000	OC ug/l	11/18/93		JAH	
Bromochloromethane	BQL	2000	OC ug/l	11/18/93		JAH	
Bromodichloromethane	BQL	2000	OC ug/l	11/18/93		JAH	
Bromoform	BQL	2000	OC ug/l	11/18/93		JAH	
Bromomethane	BQL	2000	OC ug/l	11/18/93		JAH	
n-Butylbenzene	12000	2000	OC ug/l	11/18/93		JAH	
sec-Butylbenzene	22000	2000	OC ug/l	11/18/93		JAH	
tert-Butylbenzene	BQL	2000	OC ug/l	11/18/93		JAH	
Carbon tetrachloride	BQL	2000	OC ug/l	11/18/93		JAH	
Chlorobenzene	BQL	2000	OC ug/l	11/18/93		JAH	
Chloroethane	BQL	2000	OC ug/l	11/18/93		JAH	
Chloroform	BQL	2000	OC ug/l	11/18/93		JAH	
Chloromethane	BQL	2000	OC ug/l	11/18/93		JAH	
2-Chlorotoluene	BQL	2000	OC ug/l	11/18/93		JAH	
4-Chlorotoluene	BQL	2000	OC ug/l	11/18/93		JAH	
1,2-Dibromo-3-chloropropa	BQL	10000	OC ug/l	11/18/93		JAH	
Dibromochloromethane	BQL	2000	OC ug/l	11/18/93		JAH	
1,2-Dibromoethane	BQL	2000	OC ug/l	11/18/93		JAH	
Dibromomethane	BQL	2000	OC ug/l	11/18/93		JAH	
1,2-Dichlorobenzene	BQL	2000	OC ug/l	11/18/93		JAH	
1,3-Dichlorobenzene	BQL	2000	OC ug/l	11/18/93		JAH	
1,4-Dichlorobenzene	BQL	2000	OC ug/l	11/18/93		JAH	
Dichlorodifluoromethane	BQL	2000	OC ug/l	11/18/93		JAH	
1,1-Dichloroethane	BQL	2000	OC ug/l	11/18/93		JAH	
1,2-Dichloroethane	BQL	2000	OC ug/l	11/18/93		JAH	
1,1-Dichloroethene	BQL	2000	OC ug/l	11/18/93		JAH	
cis-1,2-Dichloroethene	BQL	2000	OC ug/l	11/18/93		JAH	
trans-1,2-Dichloroethene	BQL	2000	OC ug/l	11/18/93		JAH	
1,2-Dichloropropane	BQL	2000	OC ug/l	11/18/93		JAH	
1,3-Dichloropropane	BQL	2000	OC ug/l	11/18/93		JAH	
2,2-Dichloropropane	BQL	2000	OC ug/l	11/18/93		JAH	
1,1-Dichloropropene	BQL	2000	OC ug/l	11/18/93		JAH	
cis-1,3-Dichloropropene	BQL	2000	OC ug/l	11/18/93		JAH	
trans-1,3-Dichloropropene	BQL	2000	OC ug/l	11/18/93		JAH	
Ethylbenzene	14000	2000	OC ug/l	11/18/93		JAH	
Hexachlorobutadiene	BQL	2000	OC ug/l	11/18/93		JAH	
Isopropylbenzene	3800	2000	OC ug/l	11/18/93		JAH	
p-Isopropyltoluene	16000	2000	OC ug/l	11/18/93		JAH	
Methylene Chloride	BQL	2000	OC ug/l	11/18/93		JAH	
M-t-butyl-ether	BQL	2000	OC ug/l	11/18/93		JAH	
Naphthalene	BQL	2000	OC ug/l	11/18/93		JAH	
n-Propylbenzene	8500	2000	OC ug/l	11/18/93		JAH	
Styrene	BQL	2000	OC ug/l	11/18/93		JAH	
1,1,1,2-Tetrachloroethane	BQL	2000	OC ug/l	11/18/93		JAH	
1,1,2,2-Tetrachloroethane	BQL	2000	OC ug/l	11/18/93		JAH	

BQL - Below Quantification Limit NP - Not Present

PRECISION ANALYTICAL LABORATORY

CLIENT:**Superior Environmental**

Test	Result	Limit	Units	Analyzed	Extracted	BY	Method
8021 - Water							8021
Tetrachloroethene	BQL	2400	OC ug/l	11/18/93		JAH	
Toluene	20000	2000	OC ug/l	11/18/93		JAH	
1,2,3-Trichlorobenzene	BQL	2000	OC ug/l	11/18/93		JAH	
1,2,4-Trichlorobenzene	BQL	2000	OC ug/l	11/18/93		JAH	
1,1,1-Trichloroethane	BQL	2000	OC ug/l	11/18/93		JAH	
1,1,2-Trichloroethane	BQL	2000	OC ug/l	11/18/93		JAH	
Trichloroethene	BQL	2000	OC ug/l	11/18/93		JAH	
Trichlorofluoromethane	BQL	2000	OC ug/l	11/18/93		JAH	
1,2,3-Trichloropropane	BQL	2000	OC ug/l	11/18/93		JAH	
1,2,4-Trimethylbenzene	45000	2000	OC ug/l	11/18/93		JAH	
1,3,5-Trimethylbenzene	20000	2000	OC ug/l	11/18/93		JAH	
Vinyl Chloride	BQL	2000	OC ug/l	11/18/93		JAH	
o-Xylene	17000	2000	OC ug/l	11/18/93		JAH	
m/p-Xylene	100000	4000	OC ug/l	11/18/93		JAH	

Sample ID: 12069 UST SLUDGE Lab ID: 9311190-02A Collected: 10/22/93

8021 - Water							8021
Benzene	BQL	120	OC mg/kg	11/19/93		JAH	
Bromobenzene	BQL	120	OC mg/kg	11/19/93		JAH	
Bromochloromethane	BQL	120	OC mg/kg	11/19/93		JAH	
Bromodichloromethane	BQL	120	OC mg/kg	11/19/93		JAH	
Bromoform	BQL	120	OC mg/kg	11/19/93		JAH	
Bromomethane	BQL	120	OC mg/kg	11/19/93		JAH	
n-Butylbenzene	330	120	OC mg/kg	11/19/93		JAH	
sec-Butylbenzene	220	120	OC mg/kg	11/19/93		JAH	
tert-Butylbenzene	240	120	OC mg/kg	11/19/93		JAH	
Carbon tetrachloride	BQL	120	OC mg/kg	11/19/93		JAH	
Chlorobenzene	BQL	120	OC mg/kg	11/19/93		JAH	
Chloroethane	BQL	120	OC mg/kg	11/19/93		JAH	
Chloroform	BQL	120	OC mg/kg	11/19/93		JAH	
Chloromethane	BQL	120	OC mg/kg	11/19/93		JAH	
2-Chlorotoluene	BQL	120	OC mg/kg	11/19/93		JAH	
4-Chlorotoluene	BQL	120	OC mg/kg	11/19/93		JAH	
1,2-Dibromo-3-chloropropa	BQL	620	OC mg/kg	11/19/93		JAH	
Dibromochloromethane	BQL	120	OC mg/kg	11/19/93		JAH	
1,2-Dibromoethane	BQL	120	OC mg/kg	11/19/93		JAH	
Dibromomethane	BQL	120	OC mg/kg	11/19/93		JAH	
1,2-Dichlorobenzene	BQL	120	OC mg/kg	11/19/93		JAH	
1,3-Dichlorobenzene	BQL	120	OC mg/kg	11/19/93		JAH	
1,4-Dichlorobenzene	BQL	120	OC mg/kg	11/19/93		JAH	
Dichlorodifluoromethane	BQL	120	OC mg/kg	11/19/93		JAH	
1,1-Dichloroethane	BQL	120	OC mg/kg	11/19/93		JAH	
1,2-Dichloroethane	BQL	120	OC mg/kg	11/19/93		JAH	
1,1-Dichloroethene	BQL	120	OC mg/kg	11/19/93		JAH	
cis-1,2-Dichloroethene	BQL	120	OC mg/kg	11/19/93		JAH	
trans-1,2-Dichloroethene	BQL	120	OC mg/kg	11/19/93		JAH	
1,2-Dichloropropane	BQL	120	OC mg/kg	11/19/93		JAH	

BQL - Below Quantification Limit NP - Not Present

CLIENT:Superior Environmental

Test	Result	Limit	Units	Analyzed	Extracted	BY	Method
8021 - Water							8021
1,3-Dichloropropane	BQL	120	OC mg/kg	11/19/93		JAH	
2,2-Dichloropropane	BQL	120	OC mg/kg	11/19/93		JAH	
1,1-Dichloropropene	BQL	120	OC mg/kg	11/19/93		JAH	
cis-1,3-Dichloropropene	BQL	120	OC mg/kg	11/19/93		JAH	
trans-1,3-Dichloropropene	BQL	120	OC mg/kg	11/19/93		JAH	
Ethylbenzene	2600	120	OC mg/kg	11/19/93		JAH	
Hexachlorobutadiene	BQL	120	OC mg/kg	11/19/93		JAH	
Isopropylbenzene	220	120	OC mg/kg	11/19/93		JAH	
p-Isopropyltoluene	BQL	120	OC mg/kg	11/19/93		JAH	
Methylene Chloride	BQL	120	OC mg/kg	11/19/93		JAH	
M-t-butyl-ether	BQL	120	OC mg/kg	11/19/93		JAH	
Naphthalene	BQL	120	OC mg/kg	11/19/93		JAH	
n-Propylbenzene	290	120	OC mg/kg	11/19/93		JAH	
Styrene	BQL	120	OC mg/kg	11/19/93		JAH	
1,1,1,2-Tetrachloroethane	BQL	120	OC mg/kg	11/19/93		JAH	
1,1,2,2-Tetrachloroethane	BQL	120	OC mg/kg	11/19/93		JAH	
Tetrachloroethene	BQL	150	OC mg/kg	11/19/93		JAH	
Toluene	1700	120	OC mg/kg	11/19/93		JAH	
1,2,3-Trichlorobenzene	BQL	120	OC mg/kg	11/19/93		JAH	
1,2,4-Trichlorobenzene	BQL	120	OC mg/kg	11/19/93		JAH	
1,1,1-Trichloroethane	BQL	120	OC mg/kg	11/19/93		JAH	
1,1,2-Trichloroethane	BQL	120	OC mg/kg	11/19/93		JAH	
Trichloroethene	BQL	120	OC mg/kg	11/19/93		JAH	
Trichlorofluoromethane	BQL	120	OC mg/kg	11/19/93		JAH	
1,2,3-Trichloropropane	BQL	120	OC mg/kg	11/19/93		JAH	
1,2,4-Trimethylbenzene	470	120	OC mg/kg	11/19/93		JAH	
1,3,5-Trimethylbenzene	BQL	120	OC mg/kg	11/19/93		JAH	
Vinyl Chloride	BQL	120	OC mg/kg	11/19/93		JAH	
o-Xylene	1100	120	OC mg/kg	11/19/93		JAH	
m/p-Xylene	7800	250	OC mg/kg	11/19/93		JAH	

BQL - Below Quantification Limit NP - Not Present

ATTACHMENT H
HYDROPUNCH GROUNDWATER SAMPLE ANALYTICAL RESULTS AND CHAIN OF CUSTODY

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd.
Bartlett, IL 60103
Tel: (708) 289-3100
Fax: (708) 289-5445

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

NET Job Number: 93.09367

Enclosed is the Quality Control Data and Analytical Results for the following samples submitted to NET, Inc. Bartlett Division for analysis:

Project Description: Akerman Site; Waukesha WI

Sample Number	Sample Description	Date Taken	Date Received
235062	Trip Blank		10/20/1993
235063	HP1-17'; Grab	10/13/1993	10/20/1993
235064	HP1-48'; Grab	10/13/1993	10/20/1993
235065	HP2-18'; Grab	10/13/1993	10/20/1993
235066	HP2-42'; Grab	10/13/1993	10/20/1993
235067	HP3-14'; Grab	10/14/1993	10/20/1993
235068	HP3-42'; Grab	10/14/1993	10/20/1993
235069	HP4-13'; Grab	10/14/1993	10/20/1993
235070	HP4-44'; Grab	10/14/1993	10/20/1993
235071	HP5-13.5'; Grab	10/14/1993	10/20/1993
235072	HP5-43.6'; Grab	10/14/1993	10/20/1993
235073	HP6-15.6'; Grab	10/15/1993	10/20/1993
235074	HP7-15.6'; Grab	10/15/1993	10/20/1993
235075	HP8-15.5'; Grab	10/15/1993	10/20/1993
235076	HP9-15.5'; Grab	10/15/1993	10/20/1993
235077	HP9-34'; Grab	10/15/1993	10/20/1993

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please do not hesitate to call.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Neal E. Cleghorn
Operations Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd.
Bartlett, IL 60103
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Fax: (708) 289-5445

ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235062

NET Job No.: 93.09367

Sample Description: Trip Blank
Akerman Site; Waukesha WI

Date Taken:
Time Taken:
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235063

NET Job No.: 93.09367

Sample Description: HP1-17'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/13/1993
Time Taken: 10:40
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethane	6.7	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	2.9	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	82	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	63	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

VOCs run past holding time.

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235064

NET Job No.: 93.09367

Sample Description: HP1-48'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/13/1993
Time Taken: 12:55
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1 Dichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis 1,2 Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

VOCs run past holding time.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235065

NET Job No.: 93.09367

Sample Description: HP2-18'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/13/1993
Time Taken: 15:30
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethane	2.7	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/l	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	1.5	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	8.3	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

VOCs run past holding time.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235066

NET Job No.: 93.09367

Sample Description: HP2-42'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/13/1993
Time Taken: 16:45
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	<1.0	ug/l	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

VOCs run past holding time.

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235067

NET Job No.: 93.09367

Sample Description: HP3-14'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/14/1993
Time Taken: 09:25
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethane	2.3	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	1.2	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	7.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

Mr. Joe McCue
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1520 Kensington Road
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Oakbrook, IL 60521

11/02/1993

Sample No. : 235068

NET Job No.: 93.09367

Sample Description: HP3-42'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/14/1993
Time Taken: 10:35
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 99944/130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235069

NET Job No.: 93.09367

Sample Description: HP4-13'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/14/1993
Time Taken: 12:15
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1 Dichloroethane	8.6	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis 1,2-Dichloroethene	2.9	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	29	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235070

NET Job No.: 93.09367

Sample Description: HP4-44'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/14/1993
Time Taken: 13:45
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd.
Bartlett, IL 60103
Tel: (708) 289-3100
Fax. (708) 289-5445

ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235071

NET Job No.: 93.09367

Sample Description: HP5-13.5'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/14/1993
Time Taken: 16:05
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235072

NET Job No.: 93.09367

Sample Description: HP5-43.6'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/14/1993
Time Taken: 16:45
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	3.6	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235073

NET Job No.: 93.09367

Sample Description: HP6-15.6'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/15/1993
Time Taken: 09:30
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235074

NET Job No.: 93.09367

Sample Description: HP7-15.6'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/15/1993
Time Taken: 11:15
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1 Dichloroethane	7.6	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	5.5	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	10	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	16	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235075

NET Job No.: 93.09367

Sample Description: HP8-15.5'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/15/1993
Time Taken: 14:00
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

NET NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
650 W. Bartlett Rd.
Bartlett, IL 60103
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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993
Sample No. : 235076
NET Job No.: 93.09367

Sample Description: HP9-15.5'; Crab
Akerman Site; Waukesha WI

Date Taken: 10/15/1993
Time Taken: 15:00
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethene	5.8	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mje	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mje	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	53	ug/L	10/29/1993	1.0	mje	10	8021 (1)
Trichloroethene	73	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

Mr. Joe McCue
VERSAR CORP.
1520 Kensington Road
Suite 115
Oakbrook, IL 60521

11/02/1993

Sample No. : 235077

NET Job No.: 93.09367

Sample Description: HP9-34'; Grab
Akerman Site; Waukesha WI

Date Taken: 10/15/1993
Time Taken: 15:40
IEPA Cert. No. 100221

Date Received: 10/20/1993
Time Received: 17:45
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8021 AQUEOUS							
1,1-Dichloroethane	4.4	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
1,1-Dichloroethene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
cis-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
trans-1,2-Dichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Hexachlorobutadiene	<2.0	ug/L	10/29/1993	2.0	mjs	10	8021 (1)
1,1,1-Trichloroethane	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)
Trichloroethene	<1.0	ug/L	10/29/1993	1.0	mjs	10	8021 (1)

NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	:	Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	:	Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	:	Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	:	Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
B	:	Sample result flag indicating that the analyte was also found in the method blank analysis. The value after the B indicates the concentration found in the blank analysis.
E	:	Sample result flag indicating that the reported concentration exceeds the linear range of the instrument for that specific analysis and should be considered estimated.
TCLP	:	These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
%	:	Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
Dry Weight	:	When indicated, the results are reported on a dry weight basis. The contribution of the moisture content in the sample is subtracted when calculating the concentration of the analyte.
ICP	:	Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	:	Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	:	Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	:	Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

(1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986

(2) ASTM "American Society for Testing Materials

(3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.

(4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.

(5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.

(6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.

Versar INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	PARAMETERS	INDUSTRIAL HYGIENE SAMPLE Y / N
	Akermon Site, Waukesha, WI	VOCs (8021)	

SAMPLERS: (Signature) _____ (Printed) Dawn S. Petersen

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	REMARKS
					TB	1	
	10-13-93	1040 ~~1255~~	OSB	X	HP1-17'	2	
		1155		X	HP1-48'	2	
		1530		X	HP2-18'	2	
		1645		X	HP2-42'	2	
	10-14-93	0925		X	HP3-14'	2	
		1035		X	HP3-42'	2	
		1215		X	~~HP5~~ DSP HP4-13	2	
		1345		X	HP4-44'	1	
		1605		X	HP5-13.5'	2	
		1645		X	HP5-43.6'	2	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	10-15-93 1645			10-19-93 1320	
(Printed) Dawn S. Petersen		(Printed) Dan King	(Printed) Dan King		(Printed) Dawn Petersen
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
	10-15-93 1520		10.19 1520	We only analyze for compounds shown on attached table.	
(Printed) Dawn Petersen		(Printed) Jack Auer			

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink)

10-19-93 1745

Versar INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	PARAMETERS	INDUSTRIAL HYGIENE SAMPLE Y (N)
	Akerman Site, Waukesha, WI		

SAMPLERS: (Signature) [signature] (Printed) Dawn S. Petersen

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs (8021) DW	REMARKS
	10-15-93	0930		X	HP6 - ~~13~~ 15.6'	2	X	
		1115		X	HP7 - 15.6'	2	X	
		1400		X	HP8 - 15.5'	2	X	
		1500		X	HP9 - 15.5'	2	X	
	↓	1540		X	HP9 - 34'	2	X	

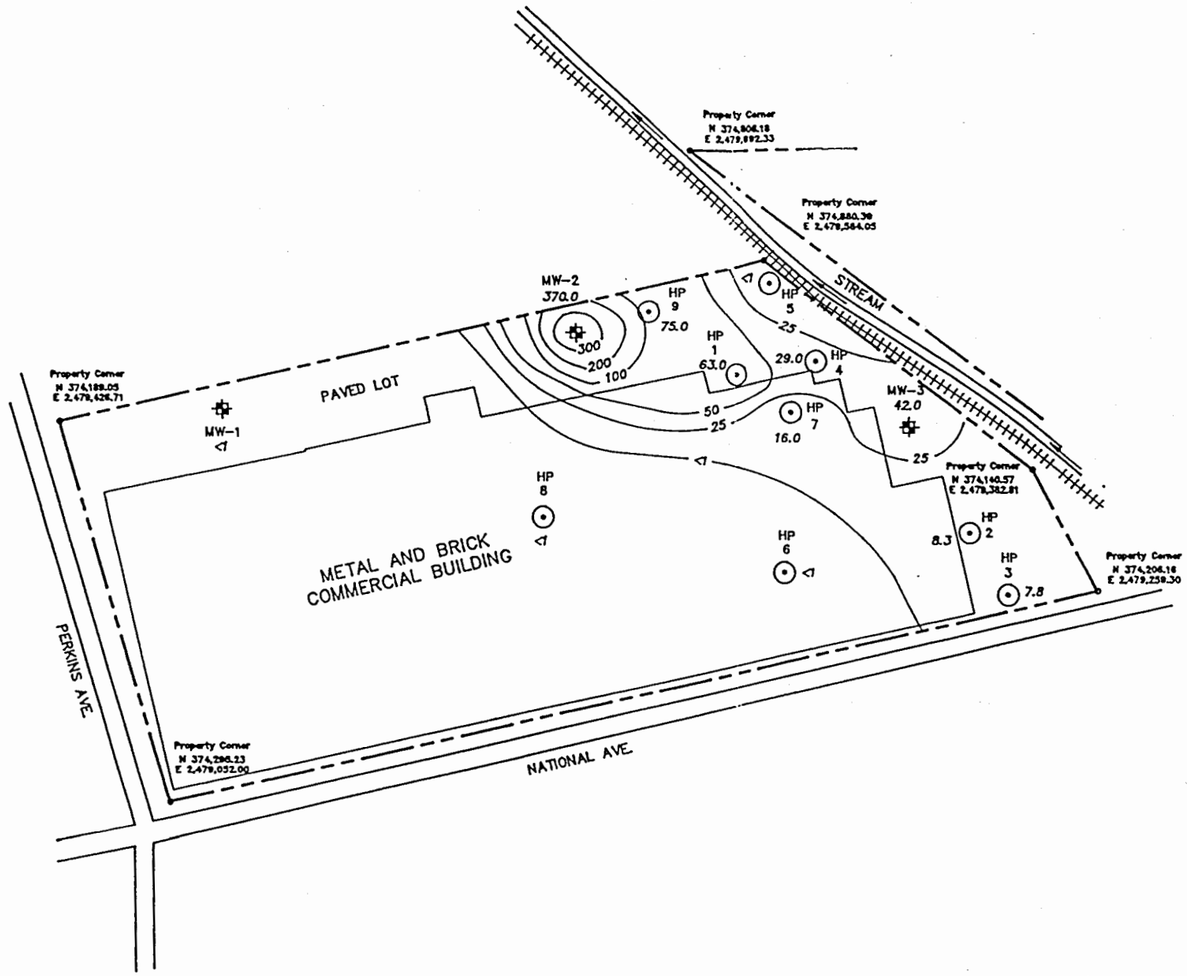
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10-15-93 1645	[signature]	[signature]	19 Oct 93 1320	[signature]
(Printed) Dawn Petersen		(Printed) Dan Kling	(Printed) Dan Kling		(Printed) Dawn Petersen
Relinquished by: (Signature) [signature]	Date / Time 10-19-93 1520	Received for Laboratory by: (Signature) [signature]	Date / Time 10/19 1620	Remarks * only analyze for compounds shown on attached table.	
(Printed) Dawn Petersen		(Printed) Jack Auer			

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

10-15-93 17:45

Dawn Petersen 10-15-93 1745

ATTACHMENT I
ISOCONCENTRATION CONTOUR
DRAWING OF 1,1,1-TCA



LEGEND

- HP — SAMPLE LOCATION
- MW-3 — MONITOR WELL LOCATION
- RAILROAD TRACKS
- PROPERTY BOUNDARY

APPROXIMATE SCALE

150 0 150 300 FEET

TITLE: FIGURE 3
TCE ISO-CONCENTRATION CONTOURS

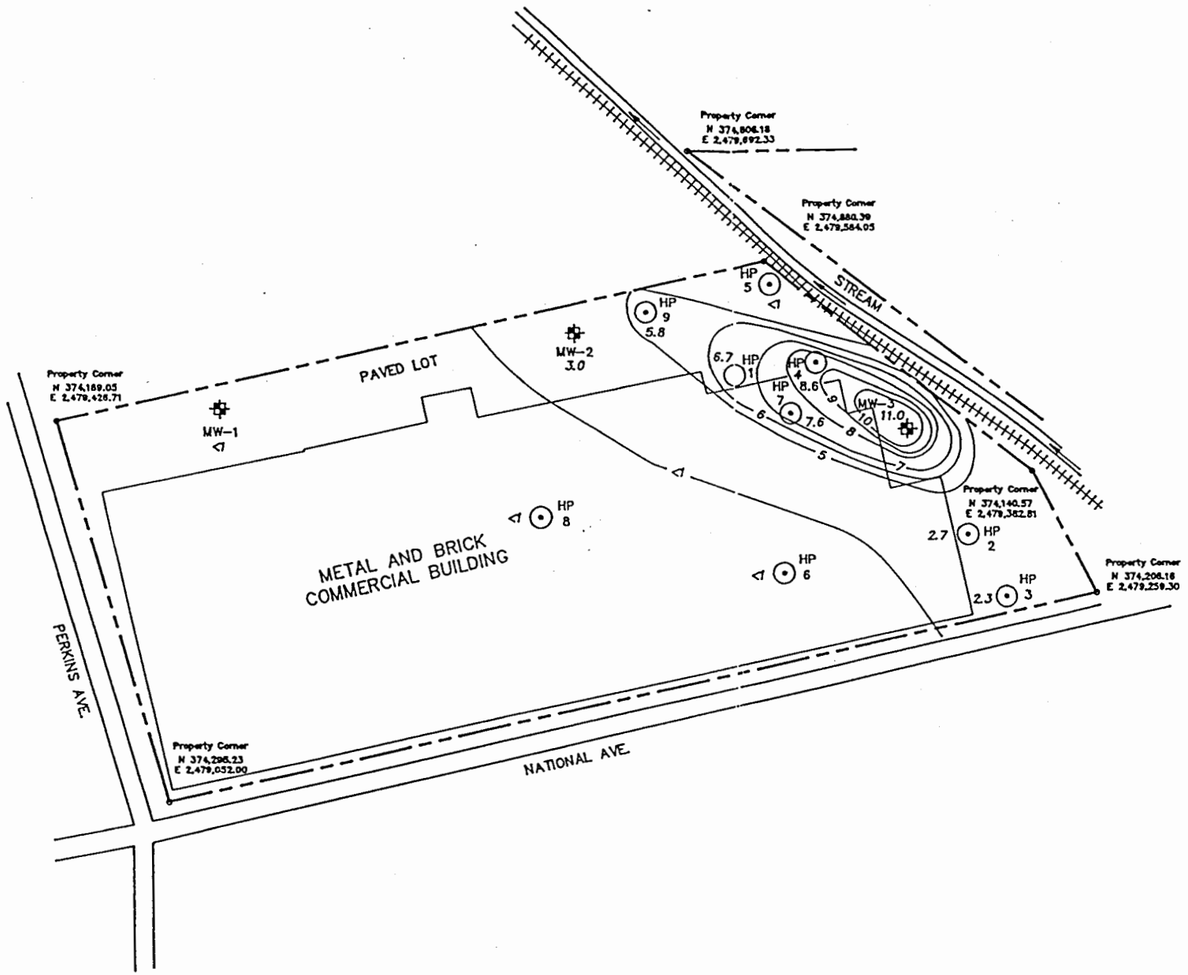
DRAWN: JDJ	DATE: 12-3-93
APPROVED: DJJ	SCALE: AS NOTED

Versar INC.
1520 KENSINGTON ROAD
OAK BROOK, IL. 60521

FOR:
VME AMERICAS, INC.
WAUKESHA, WI.

PROJECT NO. 1871.002
DRAWING NO. 18712-B2

CAD FILE \ACAD\1871002\18712B2.DWG



LEGEND

- HP ⊙ — SAMPLE LOCATION
- MW-3 ✲ — MONITOR WELL LOCATION
- RAILROAD TRACKS
- PROPERTY BOUNDARY

APPROXIMATE SCALE

150 0 150 300 FEET

TITLE: FIGURE 4
1,1 – DCA ISO-CONCENTRATION CONTOURS

DRAWN: JDJ	DATE: 12-3-93
APPROVED: DJD	SCALE: AS NOTED

FOR: VME AMERICAS, INC.
WAUKESHA, WI.

Versar INC.
1520 KENSINGTON ROAD
OAK BROOK, IL. 60521

PROJECT NO. 1871.002
DRAWING NO. 18712-B4

CAD FILE \ACAD\1871002\18712B4.DWG