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ERR/ERP

January 26, 1995

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

RE: Tecumseh Products Company
Grafton, Wisconsin

Dear Pam:

On behalf of Tecumseh Products Company, we are enclosing two copies of the second interim status report on the investigation of the extent of chlorinated volatile organic compounds (VOCs) in groundwater at the above-referenced facility. The scope of this phase of the NR 700 investigation being conducted at the Grafton plant was described in a workplan dated October 1994 and approved in a letter dated November 3, 1994.

The content of the enclosed report contains two variances from the activities that were described in the workplan. As you know, when Tecumseh discovered in early December 1994 that there were six residential wells in the Town of Grafton (the plant is located in the Village) that are directly downgradient of the plant, Tecumseh and RMT collected and analyzed two rounds of samples from these wells. The results of the laboratory analyses indicated that the samples met federal and state standards for groundwater quality. The results, which were previously reported to the WDNR and the residents, are also included in the enclosed report.

In addition, the report addresses the subject of potential on-site source area investigations in a more expanded manner than was described in the workplan. Tecumseh has prepared a letter of response to Scott Ferguson's December 22, 1994, letter requiring additional information in support of the previous hazardous waste determination for the soil and groundwater that has been contaminated with chlorinated VOCs. Because the response to this requirement involves discussion of potential on-site sources, we have addressed the same issue in the report by referencing this letter, a copy of which is included in an appendix to the report. The content of this letter also provides the basis for many of the recommendations for future work that are contained in Section 4 of the report.

We look forward to meeting with you and Scott on February 8 (at 9:30 am) to discuss the current status and future plans for this site. In the meantime, please feel free to call either Kerry DeKeyser at (414) 898-5711, or me if you have any questions.

Sincerely,



Linda E. Hicken, P.E.
Senior Project Manager

gjj/Enclosures

cc: Kerry DeKeyser, Tecumseh Products

e: S. Ferguson - WDNRLSED - HW



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F10 246009170

**INTERIM STATUS REPORT
ON THE PHASE II
SUBSURFACE INVESTIGATIVE ACTIVITIES
AT THE TECUMSEH PRODUCTS COMPANY
GRAFTON OPERATION**

**PREPARED FOR
TECUMSEH PRODUCTS COMPANY
GRAFTON, WISCONSIN**

**PREPARED BY
RMT, INC.
MADISON, WISCONSIN**

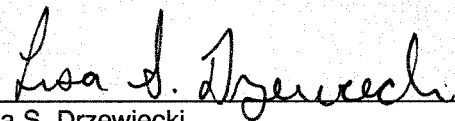
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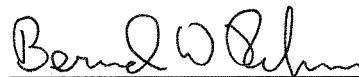
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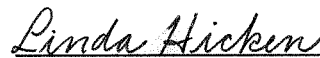
JANUARY 1995



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Section 1
INTRODUCTION

The Tecumseh Products Company operates a manufacturing facility located at 900 North Street in Grafton, Wisconsin (see Figure 1). During the 1960s, 1970s, and 1980s, the Grafton facility machined and assembled two-cycle gasoline engines. Vapor degreasing of parts and engines and painting of assembled engines were part of the manufacturing process. The process equipment associated with the engine assembly operations included underground storage tanks for the gasoline used in engine testing.

During the period of December 1988 through June 1992, eight underground storage tanks (USTs) were removed at the site. These tanks contained gasoline (leaded and unleaded), kerosene, Stoddard solvent, and motor oil. Evidence of releases were noted. During the course of investigating the extent of the release associated with the Stoddard solvent tank, chlorinated volatile organic compounds (VOCs) were detected in the soil and groundwater.

RMT, Inc. (RMT), was hired to conduct additional investigative activities at the Grafton facility to better define hydrogeologic conditions beneath the facility, to evaluate the direction of groundwater flow, and to define the extent of chlorinated solvents identified in groundwater during the previous investigations. The first phase of this investigation was conducted in August 1994 and included the installation of eight soil borings, as outlined in the workplan submitted to the WDNR in August 1994 (RMT, Inc., 1994a). Two of the soil borings were converted to water table wells, and three of the soil borings were converted to piezometers. The findings and conclusions of this initial phase of investigation are summarized in an interim status report that was submitted to the WDNR on October 10, 1994 (RMT, Inc., 1994b).

The second phase of the investigation was conducted in November and December 1994, and included the installation of nine shallow soil borings, two water table wells in the unconsolidated soil, and five monitoring wells in the bedrock, as outlined in the workplan submitted to the WDNR in October 1994 (RMT, Inc., 1994c). Two of the shallow soil borings and two of the bedrock monitoring wells were installed off-site within Village right-of-ways to assess the horizontal extent of VOCs in groundwater in the soil and bedrock to the east of the facility. The locations of the soil borings and monitoring wells are shown on Figures 2 and 3.

The purpose of this interim status report is to summarize the findings of the second phase of investigation conducted at the site by RMT in November and December 1994, and to present recommendations for an additional off-site groundwater investigation. If the degree and extent of VOC impacts have been adequately characterized upon completion of the additional off-site investigation, a hydrogeologic investigation report consistent with the requirements of NR 700 will be submitted to the WDNR that will document all phases of the study.

Section 2

SUMMARY OF THE SECOND PHASE OF INVESTIGATIVE ACTIVITIES

The objectives of the second phase of investigation of groundwater at the Tecumseh Products Grafton facility were as follows:

- To determine the northern extent of the trichloroethene (TCE)-dominated plume along the eastern property line.
- To verify that the southern extent of the 1,1,1-trichloroethane (TCA)-dominated plume along the eastern property line does not extend significantly further south than MW-3.
- To assess the horizontal extent of the VOC plume in the shallow aquifer east of the plant.
- To assess whether there is downward migration of VOCs in the bedrock aquifer beneath the site, and if so, to what extent.
- To assess the horizontal extent of VOCs in the bedrock aquifer and to determine the degree to which the Milwaukee River intercepts groundwater in the bedrock aquifer that is affected by VOCs.

The work that was conducted to address these objectives included the following tasks:

- Observed and documented the installation of one shallow water table well (MW-11) upgradient of the Tecumseh facility to characterize background water quality and measure the water table elevation at the western edge of the site.
- Observed and documented the installation of seven soil borings to the bedrock surface along the eastern property line of the Tecumseh facility to determine the northern and southern extent of the VOC plume along the eastern property line. One of the soil borings (MW-12) was converted into a water table well, in accordance with NR 141.
- Observed and documented the installation of one soil boring (SB-15VOC) to the bedrock surface adjacent to the building on the east-central side of the Tecumseh facility to characterize water quality upgradient of the area where the highest concentrations of solvents were observed in the groundwater along the eastern property line.
- Collected groundwater samples in seven of the soil borings installed along the eastern edge of the site and in the one soil boring installed at the western edge of the site. As the borings were advanced, groundwater samples were collected at 4-foot intervals, or where sand was encountered, using a Hydropunch sampler. The water samples were analyzed in the field for

selected VOCs using a portable GC. The results of the portable GC analyses were used to vertically profile the concentrations of selected VOCs in the unconsolidated material.

- Installed two soil borings to the bedrock surface on the west side of the Milwaukee River within the public right-of-way on the west side of 14th Avenue. The soil borings were not converted to water table wells (as originally proposed) due to the shallow bedrock surface.
- Observed and documented the installation of three borings into the bedrock along the eastern property line. Two of the borings were installed to a depth of 160 feet below grade, and one of the borings was installed to a depth of 60 feet below grade. The October 1994 workplan originally called for the installation of two borings into the bedrock on-site. However, a large cavern was encountered between the depths of 50 and 54 feet during the installation of MW-12BR, preventing the boring from being drilled deeper. MW-12BR was converted into a piezometer in accordance with NR 141, and another bedrock boring (MW-13BR) was installed approximately 15 feet south of MW-12BR.
- Observed and documented the installation of two borings into the bedrock on the west side of the Milwaukee River within the public right-of-way on the west side of 14th Avenue. The October 1994 workplan states that the off-site borings would either be installed to the bottom of the VOC plume or to a maximum depth of 140 feet below grade, whichever came first. Because no VOCs were detected above NR 140 Enforcement Standards (ESs), one of the off-site borings (MW-14BR) was only installed to a depth of 60 feet below grade. The other boring (MW-15BR) was installed to a depth of 160 feet below grade, upon the verbal request of the WDNR. MW-14BR was completed as a water table well in accordance with NR 141, and MW-15BR was completed as a multiple-port monitoring well system.
- Advanced each bedrock borehole in 20-foot intervals. Performed a packer test of each 20-foot interval to collect information on the presence of fractures, hydraulic effectiveness, and connection to VOC sources. Collected groundwater samples from each 20-foot interval and analyzed the samples for selected VOCs using a portable GC.
- Performed a downhole video inspection of each bedrock borehole to visually determine where the fractures are located.
- Completed one of the on-site bedrock borings (MW-12BR) as a piezometer and one of the off-site bedrock borings (MW-14BR) as a water table well in accordance with NR 141.
- Completed two of the on-site bedrock borings and one of the off-site bedrock borings as multiple-port monitoring well systems. Each system is composed of PVC sampling/pressure ports and permanent positive-seal packers built into a PVC casing string. The two on-site borings are constructed with three sampling ports each, and the off-site boring is constructed with two sampling

ports. Dedicated pumps and pressure transducers are located within each sampling port for collecting groundwater samples and measuring hydraulic head.

- Surveyed the location and elevation of the new soil borings and monitoring wells relative to the State Plane Coordinate System and to the National Vertical Geodetic Datum, respectively.
- Collected a complete round of groundwater level measurements from the new and previously installed monitoring wells and from the Milwaukee River to evaluate horizontal and vertical groundwater flow directions.
- Collected one round of groundwater samples from the new monitoring wells and from MW-3D, MW-8D, and MW-9D. Collected a second groundwater sample from MW-11 approximately 1 month after the first round for confirmation. The samples were analyzed for VOCs using USEPA Method 8021.
- Removed approximately 1 gallon of free product from MW-2 using a bailer.
- Collected two rounds of groundwater samples from the six residential wells in the Town of Grafton that are located downgradient (east) of the Grafton plant. The samples were analyzed for VOCs using USEPA Method 524.2.
- Interviewed Tecumseh Products employees and completed in-plant observations to identify potential source areas and to evaluate the accessibility for subsequent investigations of potential source areas.

Appendices A, B, C, and D contain the boring logs and borehole abandonment forms, the well construction and development information, and the laboratory reports.

Section 3
FINDINGS AND CONCLUSIONS

1. The surface topography of the site slopes gently from west to east. The site geology is depicted on the geologic cross sections shown on Figures 4 and 5. The surface soil consists of 10 to 12 feet of clay overlying a saturated sand layer. At the eastern edge of the site, the sand layer extends from the base of the clay to the bedrock surface, which is present at approximately 30 to 40 feet below ground surface. The saturated sand layer thins to the west of the site where it is underlain by a thick layer of clay. East of the Tecumseh facility, the sand layer pinches out and clay directly overlies the bedrock. Along 14th Avenue, the surface of the bedrock shows considerable relief, with the depth to bedrock varying from approximately 2 to 15 feet below grade. The bedrock beneath the site consists of Silurian Age Niagaran Dolomite, which is the primary aquifer in this area.
2. The water table elevations for the August and December 1994 sampling rounds are presented in Table 1, and a water table contour map based on the December 1994 data is presented on Figure 3. The depth to groundwater below the site ranges from 8 to 17 feet below grade. The groundwater flow direction at the water table is to the east toward the Milwaukee River, with a horizontal hydraulic gradient of approximately 0.009. The vertical gradient in the unconsolidated material beneath the facility is approximately 0.005 downward, based on well nests MW-8/MW-8D and MW-9/MW-9D. These results are consistent with the flow direction and gradients measured at the site in August 1994.
3. A potentiometric surface map is presented on Figure 6, and the potentiometric contours are presented on the cross section shown on Figure 5. The groundwater flow direction in the bedrock, based on three measuring points, is to the southeast with a horizontal hydraulic gradient of approximately 0.01. This flow direction appears to parallel one of the major fracture orientations observed in the bedrock by IT Corporation (1987). The average vertical gradient in the bedrock is approximately 0.04 downward.
4. TCE was detected at concentrations of 600 to 710 $\mu\text{g/L}$ in the groundwater samples collected from the upgradient monitoring well (MW-11). These results indicate that VOCs may be migrating onto the site from the west. The concentrations of TCE in MW-11 are not consistent with the result of the in-field gas chromatograph analysis for this well, where TCE was detected at a concentration of only 1.2 $\mu\text{g/L}$. The cause for this discrepancy has not been identified. Review of the MW-11 analysis finds nothing to indicate a systematic error in the in-field analyses. The remaining data are therefore acceptable for use in characterizing VOC extent.

5. One soil boring (SB-9VOC) was installed approximately 120 feet south of MW-3 to evaluate the southern extent of the VOC plume (Figure 2). No VOCs were detected in groundwater samples collected from boring SB-9VOC. The southern extent of the TCA-dominated plume along the eastern property line therefore does not appear to extend significantly further south than MW-3.
6. Five soil borings were installed along the eastern edge of the Tecumseh property north of MW-9/9D to evaluate the northern extent of the VOC plume (SB-10VOC through SB-14VOC on Figure 2). In-field GC analysis was used to obtain a horizontal and vertical profile of constituent distribution. The portable GC results are summarized in Table 2. The portable GC results from the first phase of investigation are presented in Table 3, for comparison. The highest concentrations of TCE and TCA were recorded in groundwater samples from boring SB-11VOC, which is located approximately 150 feet north of MW-9/9D (see Figure 2). High concentrations were detected from the water table to the top of the bedrock. VOC concentrations in the groundwater remain high in boring SB-12VOC, then decrease rapidly at boring SB-13VOC (90 feet to the north). In the northernmost soil boring (SB-14VOC), low levels (0.4 to 0.8 $\mu\text{g/L}$) of TCE were detected. No TCA was detected in this boring. Because the concentrations of TCE detected in SB-14VOC are less than the NR 140 Enforcement Standard of 5 $\mu\text{g/L}$, boring SB-14VOC is believed to define the northern extent of the VOC plume along the eastern property line.
7. In order to characterize water quality upgradient of the area where the highest concentrations of solvents were observed in the groundwater along the eastern property line, one soil boring (SB-15VOC) was installed upgradient of SB-11VOC, adjacent to the building. The results of the in-field GC analysis indicate the highest levels of VOCs in groundwater samples collected from the site. TCA is the dominant VOC that was detected at SB-15VOC, with concentrations ranging from 870 to 28,900 $\mu\text{g/L}$. Low levels of TCE (3 to 6 $\mu\text{g/L}$) were also detected.
8. Packer tests were performed in 20-foot intervals as the bedrock borings were advanced to collect information on the presence of fractures, hydraulic effectiveness of the fractures, and connection to VOC sources. Specific capacity data obtained from the packer tests range from 0.2 to 3.2 gallons per minute per foot of drawdown. Values of hydraulic conductivity ranging from approximately 1×10^{-3} cm/s to 1×10^{-2} cm/s were calculated from the specific capacity data. In the on-site wells, specific capacities appear to be highest in the 40- to 60-foot interval (upper 20 feet of bedrock), and in the 120- to 160-foot interval, with the intervening zone having a lower specific capacity. Bedrock east of the Tecumseh facility appears to be more homogeneous than the bedrock beneath the site, as evidenced by more uniform specific capacities in the bedrock wells installed on 14th Avenue.

A downhole video inspection was performed on each bedrock borehole to determine the nature and distribution of fractures in the subsurface. The borehole videos indicate that macroscopic porosity of the dolomite occurs primarily as bedding planes. Vuggy porosity and small vertical fractures were also present. Highly porous zones ranging from 1 to 3 feet thick were noted in some of the borings. In addition, a cavern

was found between the depths of 50 to 54 feet in MW-12BR. There was no apparent correlation of these porous zones between borings. Concentrations of VOCs do not appear to be related to the distribution of fracture and bedding plane porosity, since the concentrations of VOC in the bedrock are fairly consistent with depth.

9. Three borings were installed into the bedrock along the eastern property line to evaluate the vertical extent of VOCs in the bedrock beneath the site. The results of the in-field GC analysis indicate elevated levels of VOCs in groundwater samples from the three on-site bedrock monitoring wells (see Table 3). The dominant VOCs that were detected in the bedrock wells were TCE and TCA, both of which were present at concentrations above their respective ESs. VOCs extend from the top of the bedrock to a depth of at least 160 feet below ground surface, with VOC concentrations and compositions remaining relatively consistent with depth. The bottom of the VOC plume was not determined during this investigation. The results of the laboratory analyses of groundwater samples collected from the bedrock monitoring wells are presented in Table 4. The results for TCE and TCA are also summarized on the geologic cross section shown on Figure 4. The results of the laboratory analyses from the bedrock monitoring wells are generally consistent with the results of the in-field analysis, although TCA concentrations measured with the portable GC are generally higher than the concentrations measured in the laboratory.
10. Two bedrock borings (MW-14BR and MW-15BR) were installed in the Village right-of-way on 14th Avenue to evaluate the horizontal extent of VOCs east of the Tecumseh facility. The locations were selected on the basis of the observed hydraulic gradients beneath the facility. Only low levels (1 to 4 $\mu\text{g/L}$) of tetrachloroethene (PCE) in MW-15BR were detected with the portable GC in groundwater samples collected from the off-site bedrock borings. The PCE was detected between depths of 60 to 160 feet below grade. The laboratory results of groundwater samples collected from the bedrock monitoring wells on 14th Avenue are generally consistent with the results of the in-field analysis, except no PCE was detected in MW-15BR. Based on the observed groundwater flow direction in the bedrock and the observed chemistry of the groundwater plume at the Tecumseh facility, the PCE detected in MW-15BR is not believed to be related to the VOC plume beneath the Tecumseh facility. The monitoring wells installed on 14th Avenue appear to be slightly north of the estimated direction of plume migration and may not intersect the plume of affected groundwater (see Figure 6).
11. The results of the laboratory analyses from monitoring well MW-8D are not consistent with the results of the in-field analysis performed during the August 1994 phase of investigation. The results of the in-field GC analysis indicate 1,710 $\mu\text{g/L}$ of TCA at the bedrock surface in MW-8D. In contrast, the results of the laboratory analysis of the groundwater sample collected from MW-8D in August 1994 indicate lower levels of VOCs, including 7.4 $\mu\text{g/L}$ TCA and 7.0 $\mu\text{g/L}$ TCE. A confirmatory sample was collected in December 1994 to help evaluate this inconsistency. The results of the latest sample indicate even lower concentrations in the groundwater at MW-8D, with <1.0 $\mu\text{g/L}$ TCA and 1.8 $\mu\text{g/L}$ TCE. The concentrations measured at MW-8D are not consistent with the levels of VOCs detected in the groundwater samples from other wells located nearby and downgradient of MW-8D.

12. The results of the first and second phases of investigation at the Tecumseh facility indicate elevated levels of VOCs in the groundwater beneath the Tecumseh facility. The VOC plume is 800 to 1,000 feet wide with the extent of the plume being defined by SB-9VOC to the south and SB-14VOC to the north. The VOC plume extends from the water table surface to a depth of at least 160 feet below grade (approximately 140 feet into bedrock). The observed vertical hydraulic gradients are not strong enough to have transported the VOCs to these depths. The elevated concentrations of VOCs in the groundwater at depth therefore indicate the presence of possible DNAPL migration in the subsurface. Concentrations and compositions of VOCs appear to vary along the eastern property line, indicating that there may be multiple sources. The distribution of VOC constituents in the groundwater beneath the Tecumseh facility is summarized below:
- TCA is the dominant VOC that was detected under the southeast corner of the plant. Other chlorinated solvents (including TCE), aromatic hydrocarbons, and machine oil are also present in the groundwater in this area. The horizontal extent of the machine oil and aromatic hydrocarbons appears to be fairly limited since these compounds are not found in groundwater samples collected from MW-3 and MW-3D, which are located directly downgradient from this area. VOCs in the groundwater beneath the southeast corner of the plant appear to be undergoing degradation, based on the elevated concentrations of DCA, DCE, and vinyl chloride in the groundwater.
 - TCE is the dominant VOC that was detected under the east-central portion of the site, near well nest MW-9/9D.
 - TCA (410 to 620 $\mu\text{g/L}$) and TCE (80 to 3,000 $\mu\text{g/L}$) were detected in wells MW-12, MW-12BR, and MW-13BR, which are located approximately 250 feet north of well nest MW-9/9D. Groundwater samples collected from a boring located immediately upgradient of these wells and adjacent to the building (SB-15VOC) contain the highest concentrations (870 to 28,900 $\mu\text{g/L}$) of TCA found at the site. The concentrations of TCA found in groundwater samples collected from this boring, and the relatively low concentrations of other solvents, indicate that TCA is migrating from an area nearby or upgradient of this location. Only low levels of TCE (3 to 6 $\mu\text{g/L}$) were detected in the groundwater at SB-15VOC.
 - High levels of TCE are present in the groundwater at MW-11, which is located upgradient of the Tecumseh facility, indicating that VOCs may be migrating onto the site from the west.
13. Two rounds of groundwater samples were collected from the six residential wells located downgradient (east) of the Tecumseh facility. The approximate locations of the residential wells that were sampled are shown on Figure 7. The laboratory results are summarized in Table 5. Although no well construction diagrams are available for these wells, it is likely that they are open boreholes in the shallow bedrock. Low levels of VOCs were detected in all of the residential wells; however, the concentrations and compositions vary laterally. In the northernmost wells on the east side of Green Bay Road (PW-101 and PW-102), the VOCs that were detected were either unconfirmed or

were detected at concentrations below the Estimated Quantitation Limit (EQL). In addition, most of the constituents detected in these wells (acetone, 4-methyl-2-pentanone, and chloroform) are not present in the groundwater beneath the Tecumseh facility and are not believed to be related to the VOC plume beneath the site. In the four residential wells on the west side of Green Bay Road, low levels of chlorinated VOCs were detected, with concentrations generally increasing to the south. The chlorinated VOCs detected in these wells are similar to the VOCs detected in the groundwater beneath the site, but at much lower concentrations. At PW-36 (the northernmost well on the west side of Green Bay Road), the only confirmed VOC in the groundwater is TCA which was reported at an estimated concentration of 0.3 ug/L. In the wells to the south, other chlorinated solvents (including TCE, DCE, and DCA) are also present. Concentrations generally increase to the south, with the highest concentrations of VOCs being detected in groundwater samples from the southernmost well (PW-30). These results are consistent with the estimated direction of plume migration in the bedrock. All of the VOCs detected in the residential wells were present at concentrations at or below their respective PALs, except for TCE which was detected at concentrations above the PAL but below the ES in two of the residential wells (PW-30 and PW-38). No ESs were exceeded in any of the wells sampled.

14. Potential sources of VOCs to groundwater were identified as the West Dock Area, the Southeast Degreaser Area, the Recycling Docks Area, and the TCA Filling Area. Further discussion of these areas is provided in Appendix E. Recommendations for further investigation that incorporate concerns regarding site access are provided in Section 4 of this report.

Section 4
RECOMMENDATIONS

4.1 Upgradient Property Line Source Area Investigation

- Complete three soil borings with in-field chemical analyses along the north Tecumseh property line to assess the potential for neighboring VOC sources. If VOCs are detected, install at least one monitoring well.
- Complete three soil borings and one monitoring well with in-field and laboratory analyses on the west Tecumseh property line surrounding well MW-11 to clarify the nature and extent of the VOCs observed in that well.
- Complete one soil boring upgradient of the VOC occurrence at MW-11 (on Village right-of-way) with in-field and laboratory analyses to determine whether the VOC source is upgradient of the Tecumseh facility. If VOCs are detected, complete at least three additional soil borings within Village right-of-ways between the Tecumseh west property line and the WDNR monitoring well nest (GMW015 and GMW010) on 5th Avenue to identify the source of the VOCs.

4.2 Downgradient Groundwater VOC Extent Investigation

- Complete two bedrock borings with multi-port wells on 13th Avenue (west of the Milwaukee River) to determine whether there is an off-site VOC plume of concern and, if present, in what direction it is migrating. The same procedures as specified for the previous bedrock investigations will be utilized.
- If concentrations in groundwater from the 13th Avenue borings exceed Wisconsin Groundwater Enforcement Standards (WAC, NR 140.10) and the Milwaukee River does not appear to be a regional groundwater divide, complete two additional borings and multi-port monitoring wells in the direction of apparent VOC migration at locations between the Milwaukee River and Village water supply well #3.
- If concentrations of VOCs in groundwater from the monitoring wells described in the previous paragraph also exceed Enforcement Standards, complete two more bedrock borings and multi-port monitoring wells in the direction of apparent VOC migration at locations between Village water supply wells #3 and #7.

4.3 Potential On-Site Source Investigations

West Dock Area

- Install four soil borings (by vertical and angle drilling) with in-field and laboratory analyses to determine whether the West Dock Area is a source of VOCs.
- If VOCs are observed at concentrations that potentially could result in impacts to groundwater, complete an additional four soil borings with in-field and laboratory analyses to evaluate the nature and extent of the VOCs.

TCA Filling Area

- Complete four soil borings to the bedrock surface with in-field analyses to determine whether the TCA Filling Area is a source of VOCs to groundwater.
- If groundwater concentrations suggesting that this area may be a VOC source are observed, complete an additional nine borings in an area approximately 50 feet by 100 feet around the suspected point of release. One boring will be placed inside the building adjacent to the point of release. In-field and laboratory analyses will be used to assess the size and nature of the source.

Southeast Degreaser Area

- Complete six to nine soil borings with in-field and laboratory analyses to evaluate whether this area is a source of VOCs to the groundwater of sufficient magnitude to warrant further consideration for remedial action.

Recycling Docks Area

- Complete six to ten soil borings with in-field and laboratory analyses of soil and groundwater.
- Install well screen and casing for a soil vapor extraction well(s) and air sparging point(s) for use in future pilot-scale testing of remediation systems.

4.4 Documentation

- Develop a workplan for submittal to the WDNR that provides a detailed description of the recommended actions described above. Include a description of the procedures for the investigative activities and provide a schedule for implementing the next phase of investigation.

- Upon completion of the fieldwork and laboratory analyses described above, prepare a third interim status report for review by the WDNR.

4.5 Estimated Costs to Implement the Recommendations

The estimated costs to implement the above activities are summarized as follows:

<u>Recommended Activity</u>	<u>Preliminary Cost Estimate</u>
• Upgradient Property Line Investigation	\$ 45,000
• Downgradient VOC Extent Investigation	360,000
• Potential On-Site Source Investigations	160,000
• Workplan, Field Preparation, and Report	<u>27,000</u>
TOTAL	\$592,000

The cost of previous investigative activities undertaken to date is approximately \$290,000.

Upon completion of the recommended activities described above, the total cost of the investigations at the Grafton facility will be approximately \$882,000.

Section 5
REFERENCES CITED

- IT Corporation. 1987. Ground water investigation of volatile organic compounds occurrence in Grafton, Wisconsin. WDNR Project No. 8707-14. February 1987.
- RMT, Inc. 1994a. Workplan to evaluate the extent of chlorinated VOCs in groundwater at the Tecumseh Products Company Grafton, Wisconsin, facility. August 1994.
- RMT, Inc. 1994b. Interim status report on the subsurface investigative activities at the Tecumseh Products Company Grafton Operation. October 1994.
- RMT, Inc. 1994c. Phase II workplan to evaluate the extent of chlorinated VOCs in groundwater at the Tecumseh Products Company Grafton, Wisconsin, facility. October 1994.

TABLE 1

GROUNDWATER ELEVATION DATA
TECUMSEH PRODUCTS COMPANY

Well Identification	Reference Elevation ¹ (feet above NVGD)	Groundwater Elevation (feet above NVGD)	
		8-25-94	12-14-94
MW-1	762.84	747.54	746.86
MW-2	762.81	745.31 ²	744.47 ²
MW-3	758.35	750.45	748.76
MW-3D ³	758.60	747.22	745.64
MW-3BR(1) ⁴	702.00	NI	743.16
MW-3BR(2)	658.54	NI	742.22
MW-3BR (3)	620.00	NI	738.95
MW-4	762.12	747.53	745.94
MW-5	762.93	747.62	746.01
MW-6	762.97	747.93	746.30
MW-7	763.01	747.93	746.25
MW-8	762.40	747.52	745.89
MW-8D	758.98	747.42	745.83
MW-9	760.72	747.13	745.58
MW-9D	760.58	747.07	745.53
MW-10	772.01	763.82	763.07
MW-11	769.55	NI	756.49
MW-12	759.51	NI	745.54
MW-12BR	759.43	NI	745.42
MW-13BR(1)	666.04	NI	743.99
MW-13BR(2)	637.51	NI	740.63
MW-13BR(3)	604.06	NI	741.02
MW-14BR	748.79	NI	735.76
MW-15BR(1)	719.68	NI	731.71
MW-15BR(2)	626.20	NI	729.95

NOTES:

- ¹ The reference elevation is either the top of casing elevation (for the NR 141 monitoring wells) or the elevation of the transducer (for the multiple-port monitoring wells).
 - ² There were approximately 2.8 feet of free product (machine oil) in MW-2 in the August sampling round and 1.8 feet of free product in MW-2 in the December sampling round. The free product was removed after the depth to the water table was measured.
 - ³ The "D" suffix indicates that the well is a piezometer (screened in the unconsolidated material).
 - ⁴ The "BR" suffix indicates that the well is a bedrock monitoring well. The number in parentheses designates the sampling port number for the multiple-port monitoring wells.
- NI Not installed.

TABLE 2

RESULTS OF THE PORTABLE GC ANALYSIS OF GROUNDWATER SAMPLES¹ (µg/L)
 PHASE II
 TECUMSEH PRODUCTS COMPANY

Boring ID	Sample Depth (feet below ground surface)	1,1,1-TCA	1,1-DCE	trans-1,2-DCE	cis-1,2-DCE	TCE	PCE	Benzene	Ethylbenzene	Toluene	m,p-Xylenes	o-Xylenes
SB9VOC	15 - 17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	19 - 21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	23 - 25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	27 - 29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	31 - 33	ND	ND	ND	ND	ND	ND	ND	1.7	1.4	3.9	4.0
SB10VOC	15 - 17	ND	14	1.1	9.0	316	ND	ND	ND	ND	ND	ND
	19 - 21	ND	6.3	ND	ND	77	ND	ND	ND	ND	ND	ND
	23 - 25	ND	43	2.5	127	178	ND	ND	ND	ND	ND	ND
	27 - 29	ND	27	ND	72	244	ND	ND	ND	ND	52	80
SB11VOC	15 - 17	841	31	ND	14	2,860	ND	ND	ND	ND	ND	ND
	19 - 21	5,320	133	ND	89	1,570	ND	ND	ND	ND	ND	ND
	23 - 25	1,380	54	5.5	40	380	ND	ND	ND	ND	ND	ND
SB12VOC	15 - 17	718	28	ND	ND	27	ND	ND	ND	ND	ND	ND
	19 - 21	2,490	96	ND	4.4	118	ND	ND	ND	ND	ND	ND
	23 - 25	859	71	ND	11	152	ND	ND	ND	ND	ND	ND
SB13VOC	12 - 14	ND	19	ND	ND	58	ND	ND	ND	ND	ND	ND
	16 - 18	ND	19	ND	ND	64	ND	ND	ND	ND	ND	ND
	20 - 22	ND	22	ND	ND	90	ND	ND	ND	ND	ND	ND
SB14VOC	20 - 22	ND	ND	ND	ND	0.8	0.3	ND	1.3	1.0	3.1	1.2
	24 - 26	ND	ND	ND	ND	0.4	ND	0.3	1.6	1.3	1.0	0.6
SB15VOC	15 - 17	28,900	867	ND	ND	5.8	ND	ND	ND	ND	ND	ND
	19 - 21	7,150	88	ND	7.7	3.9	ND	ND	ND	2.8	ND	ND
	23 - 25	874	18	ND	6.5	2.7	ND	ND	ND	ND	ND	ND
MW-11	20 - 22	ND	ND	ND	ND	1.2	ND	ND	1.0	ND	1.0	ND

TABLE 2 (CONTINUED)

RESULTS OF THE PORTABLE GC ANALYSIS OF GROUNDWATER SAMPLES¹ (µg/L)
PHASE II
TECUMSEH PRODUCTS COMPANY

Boring ID	Sample Depth (feet below ground surface)	1,1,1-TCA	1,1-DCE	trans-1,2-DCE	cis-1,2-DCE	TCE	PCE	Benzene	Ethylbenzene	Toluene	m,p-Xylenes	o-Xylenes
MW-3BR	40 - 60	380	18	1.4	41	46	ND	ND	ND	ND	ND	ND
	60 - 80	518	20	ND	49	76	ND	ND	ND	ND	ND	ND
	80 - 100	375	46	ND	21	116	ND	ND	ND	ND	ND	ND
	100 - 120	50	17	ND	15	137	ND	ND	ND	ND	ND	ND
	120 - 140	67	8.5	ND	17	96	ND	ND	ND	ND	ND	ND
	140 - 160	163	11	ND	21	44	ND	ND	ND	ND	ND	ND
MW-12BR	35 - 54	6,220	72	ND	ND	203	ND	ND	ND	ND	ND	ND
MW-13BR	60 - 80	1,460	65	ND	14	98	ND	ND	ND	ND	ND	ND
	80 - 100	1,280	52	ND	31	209	ND	ND	ND	ND	ND	ND
	100 - 120	1,160	47	ND	27	129	ND	ND	ND	ND	ND	ND
	120 - 140	751	52	ND	18	147	ND	ND	ND	ND	ND	ND
	140 - 160	729	45	ND	37	158	ND	ND	ND	ND	ND	ND
MW-14BR	0 - 20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20 - 40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	40 - 60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15BR	20 - 40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	40 - 60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	60 - 80	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND
	80 - 100	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND
	100 - 120	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND
	120 - 140	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND
	140 - 160	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND

NOTES:

¹ The samples were collected November 7 through December 2, 1994.

ND Not detected.

TABLE 3

RESULTS OF THE PORTABLE GC ANALYSIS OF GROUNDWATER SAMPLES^{1,2} (µg/L)PHASE I
TECUMSEH PRODUCTS COMPANY

Boring I.D.	Sample Depth (feet below ground surface)	1,1,1-TCA	1,1-DCE	trans-1,2-DCE	cis-1,2-DCE	TCE	PCE	Benzene	Ethylbenzene	Toluene	m,p-Xylenes	o-Xylenes
MW-3D	14 - 16	ND	ND	ND	ND	258	29	ND	ND	ND	ND	ND
	18 - 20	ND	ND	ND	ND	19	ND	47	344	23	108	ND
	22 - 24	ND/ND	ND/ND	ND/ND	ND/ND	6.4/6.1	ND/ND	ND/ND	6.7/7.6	ND/2.0	ND/ND	ND/ND
	26 - 28	ND/ND	ND/ND	ND/ND	ND/ND	19/19	1.8/2.0	1.1/1.5	11/5.6	2.2/2.0	2.4/ND	ND/ND
	30 - 31.5	ND/ND	ND/ND	ND/ND	ND/ND	6.0/6.2	ND/ND	ND/ND	2.6/2.5	1.6/1.8	ND/ND	ND/ND
SB5VOC	13 - 14	< 5/ND	4.7/4.4	1.5/ND	17/15	75/75	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	16 - 18	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
	20 - 22	ND/ND	ND/ND	ND/ND	ND/ND	14/13	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	28 - 30	< 5/< 5	ND/ND	ND/ND	ND/ND	2.7/2.4	ND/ND	ND/ND	ND/ND	ND/1.1	ND/ND	ND/ND
	32 - 34	ND	ND	ND	ND	7.3	ND	ND	ND	3.0	1.3	ND
SB6VOC	12 - 14	89/139	38/34	ND/ND	5.2/8.5	24/21	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	16 - 18	ND	3.2	ND	ND	13	ND	ND	ND	ND	ND	ND
	20 - 22	ND	ND	ND	5.5	14	ND	ND	ND	ND	ND	ND
	24 - 26	ND/ND	2.2/1.7	ND/ND	3.0/2.7	17/16	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	28 - 30	< 5	ND	ND	1.8	11	ND	ND	1.3	ND	1.5	ND
	32 - 34	ND	12	ND	10	103	ND	ND	ND	ND	ND	ND
SB8VOC	20 - 22	< 5/< 5	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	24 - 26	< 5/< 5	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
MW-8D	15 - 17	ND	70	76	570	16	26	ND	146	703	499	193
	19 - 21	ND/ND	69/75	16/17	106/111	14/16	ND/ND	ND/ND	ND/ND	19/17	25/26	ND/ND
	24 - 26	864	39	19	190	44	42	ND	58	245	222	68
	28 - 30	563/600	11/12	7.4/7.9	83/83	14/15	20/23	ND/ND	42/44	160/157	170/170	83/58
	32 - 33	1710	35	26	283	26	138	ND	230	535	664	660
MW-9D	12 - 14	ND/ND	87/107	ND/ND	172/184	724/1030	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	16 - 18	ND	106	ND	ND	981	ND	ND	ND	ND	ND	ND
	20 - 22	ND/ND	96/104	ND/ND	ND/ND	677/771	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	24 - 26	ND	17	ND	237	444	ND	ND	ND	ND	ND	ND
	28 - 30	ND/ND	97/99	ND/ND	242/300	537/576	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND

NOTES:

- ¹ Samples were collected August 15 through 18, 1994.
- ² Two vials were collected from each sample interval. Field GC results are reported for both vials when two vials were analyzed.
- ND Not detected (detection limit for all compounds, unless otherwise stated, is considered to be 1 µg/L).

TABLE 4
GROUNDWATER ANALYTICAL RESULTS ($\mu\text{g/L}$)¹
TECUMSEH PRODUCTS COMPANY

Well Identification	1,1-Dichloroethene		1,1-Dichloroethane		cis-1,2-Dichloroethene		1,1,1-Trichloroethane		Trichloroethene		Vinyl Chloride		Toluene	
	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94
MW-3	< 1.0	NS	< 1.0	NS	< 1.0	NS	< 1.0	NS	39	NS	< 1.0	NS	< 1.0	NS
MW-3D	24	12	7.2	9.8	6.8	< 5.0	21	28	88	27	6.1	5.8	< 5.0	< 5.0
MW-3BR(1)	NI	13	NI	65	NI	45	NI	120	NI	88	NI	< 5.0	NI	< 5.0
MW-3BR(2)	NI	56	NI	190	NI	20	NI	140	NI	310	NI	< 10	NI	< 10
MW-3BR(3)	NI	8.6	NI	39	NI	25	NI	28	NI	270	NI	< 5.0	NI	< 5.0
MW-8	< 50	NS	360	NS	130	NS	670	NS	< 50	NS	77	NS	160	NS
MW-8D	< 1.0	< 1.0	3.8	< 1.0	1.3	< 1.0	7.4	< 1.0	7.0	1.8	< 1.0	< 1.0	2.0	< 1.0
MW-9	< 100	NS	100	NS	1,500	NS	530	NS	3,000	NS	< 100	NS	< 100	NS
MW-9D	< 100	< 50	290	94	330	680	700	350	1,200	1,400	< 100	< 50	< 100	< 50
MW-11	NI	< 20	NI	< 20	NI	< 20	NI	< 20	NI	710 ²	NI	< 20	NI	< 20
MW-12	NI	61	NI	150	NI	< 50	NI	490	NI	3,000	NI	< 50	NI	< 50
MW-12BR	NI	35	NI	180	NI	< 10	NI	580	NI	84	NI	< 10	NI	< 10
MW-13BR(1)	NI	70	NI	190	NI	22	NI	530	NI	270	NI	< 10	NI	< 10
MW-13BR(2)	NI	53	NI	130	NI	33	NI	410	NI	350	NI	< 10	NI	< 10
MW-13BR(3)	NI	78	NI	210	NI	21	NI	620	NI	300	NI	< 20	NI	< 20
MW-14BR	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0
MW-15BR(1)	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	2.5
MW-15BR(2)	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	1.6
NR 140 Enforcement Standard	7		850		70		200		5		0.2		343	
NR 140 Preventive Action Limit	0.7		85		7		40		0.5		0.02		68.6	

NOTES:
¹ This table includes only those compounds that were detected in at least one sample.
² An additional groundwater sample was collected from MW-11 on January 9, 1995, to confirm the analytical results from the December sampling round. TCE was detected in the second sample at a concentration of 600 $\mu\text{g/L}$.
NE Not established.
NS Not sampled.
NI Not installed.

TABLE 4 (CONTINUED)
GROUNDWATER ANALYTICAL RESULTS ($\mu\text{g/L}$)¹
TECUMSEH PRODUCTS COMPANY

Well Identification	Ethylbenzene		Xylenes (total)		1,3,5-Trimethylbenzene		1,2,4-Trimethylbenzene		sec-Butylbenzene		p-Isopropyltoluene		n-Butylbenzene		Naphthalene	
	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94
MW-3	< 1.0	NS	< 3.0	NS	< 1.0	NS	< 1.0	NS	< 1.0	NS	< 1.0	NS	< 1.0	NS	< 5.0	NS
MW-3D	54	< 5.0	18	< 15	< 5.0	< 5.0	30	5.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 25
MW-3BR(1)	NI	< 5.0	NI	< 15	NI	< 5.0	NI	< 5.0	NI	< 5.0	NI	< 5.0	NI	< 5.0	NI	< 25
MW-3BR(2)	NI	< 10	NI	< 30	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 50
MW-3BR(3)	NI	< 5.0	NI	< 15	NI	< 5.0	NI	< 5.0	NI	< 5.0	NI	< 5.0	NI	< 5.0	NI	< 25
MW-8	< 50	NS	160	NS	< 50	NS	110	NS	< 50	NS	< 50	NS	< 50	NS	280	NS
MW-8D	< 1.0	< 1.0	3.6	< 3.0	1.6	< 1.0	4.6	< 1.0	1.3	< 1.0	1.4	< 1.0	4.5	< 1.0	5.0	< 5.0
MW-9	<100	NS	<300	NS	<100	NS	<100	NS	<100	NS	<100	NS	<100	NS	<500	NS
MW-9D	<100	< 50	<300	<150	<100	< 50	<100	< 50	<100	< 50	<100	< 50	<100	< 50	<500	<250
MW-11	NI	< 20	NI	< 60	NI	< 20	NI	< 20	NI	< 20	NI	< 20	NI	< 20	NI	<100
MW-12	NI	< 50	NI	<150	NI	< 50	NI	< 50	NI	< 50	NI	< 50	NI	< 50	NI	<250
MW-12BR	NI	< 10	NI	< 30	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 50
MW-13BR(1)	NI	< 10	NI	< 30	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 50
MW-13BR(2)	NI	< 10	NI	< 30	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 50
MW-13BR(3)	NI	< 20	NI	< 60	NI	< 20	NI	< 20	NI	< 20	NI	< 20	NI	< 20	NI	<100
MW-14BR	NI	< 1.0	NI	< 3.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 5.0
MW-15BR(1)	NI	< 1.0	NI	< 3.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 5.0
MW-15BR(2)	NI	< 1.0	NI	< 3.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 5.0
NR 140 Enforcement Standard	700		620		NE		NE		NE		NE		NE		40	
NR 140 Preventive Action Limit	140		124		NE		NE		NE		NE		NE		8	

NOTES:

¹ This table includes only those compounds that were detected in at least one sample.

² An additional groundwater sample was collected from MW-11 on January 9, 1995, to confirm the analytical results from the December sampling round. TCE was detected in the second sample at a concentration of 600 $\mu\text{g/L}$.

NE Not established.

NS Not sampled.

NI Not installed.

Project Number: 3084.09
 Sample Collection Date: December 1, 1994
 Chain-of-Custody Number: 053741

TABLE 5
LABORATORY RESULTS FOR SAMPLING OF
RESIDENTIAL WELLS IN GRAFTON, WISCONSIN
TECUMSEH PRODUCTS COMPANY

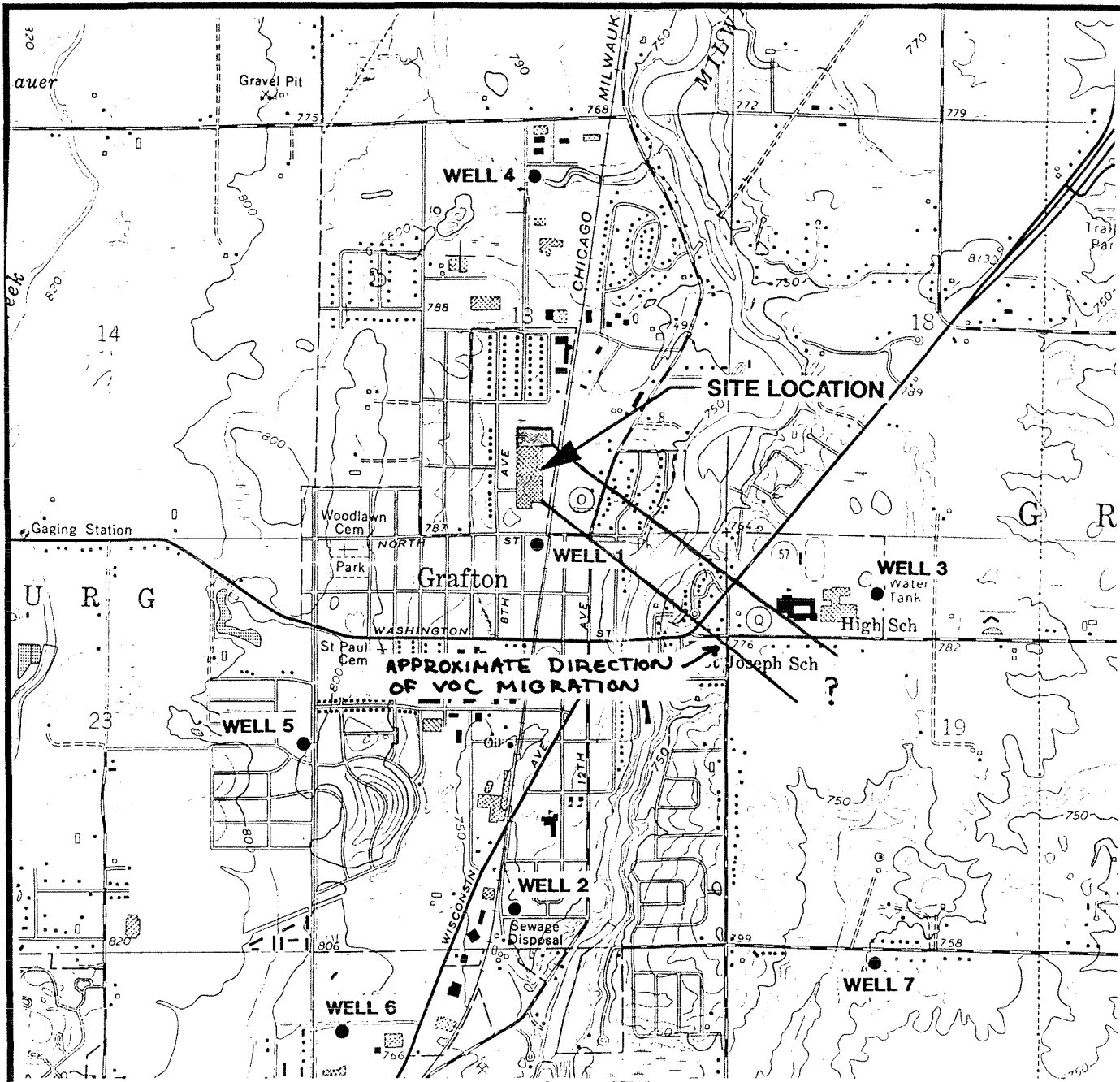
RMT Lab No.	Station ID (name of resident)	Results in µg/L						
		Acetone	MC	1,1,1-TCA	1,1-DCA	TCE	Chloroform	Benzene
6042-002	Trip Blank	7.2	0.3 Q					
6042-003	PW-36 (Groth)		0.1 Q	0.3 Q				
6042-004	PW-5 (Raess)			0.9	0.7	0.5 Q		
6042-005	PW-38 (Lauer)			1.8	0.5 Q	1.1		0.4 Q
6042-006	PW-101 (Thiele)						0.1 Q	
6042-007	PW-102* (Thiele)	12						
6042-008	PW-30** (Heiser)			2.3	2.8	1.4	0.5	
6042-009	Storage Blank							
	PAL	200	15	40	85	0.5	0.6	0.5
	ES	1,000	150	200	850	5.0	6.0	5.0

* Also, 4-methyl-2-pentanone (also known as MIBK) at 2.8 µg/L Q (ES = 500 and PAL = 50)

** Also, 1,1,-DCE at 0.2 µg/L Q (ES = 7 and PAL = 0.7); cis-1,2-DCE at 2.0 µg/L (ES = 70 and PAL = 7); and PCE at 0.2 µg/L Q (ES = 5.0 and PAL = 0.5)

MC = Methylene Chloride
 1,1,1-TCA = 1,1,1-Trichloroethane
 1,1-DCA = 1,1-Dichloroethane

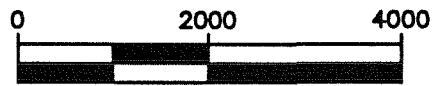
TCE = Trichloroethene
 PAL = Preventive Action Limit
 ES = Enforcement Standard
 Q = Concentration reported is greater than the method detection limit, but less than the practical quantitation limit (i.e., the presence of the constituent is certain, but the concentration is not certain).



LEGEND



GRAFTON WATER SUPPLY WELLS



SCALE: 1"=2000'



STATE LOCATION

**SITE LOCATOR MAP
TECUMSEH PRODUCTS COMPANY
GRAFTON, WISCONSIN**

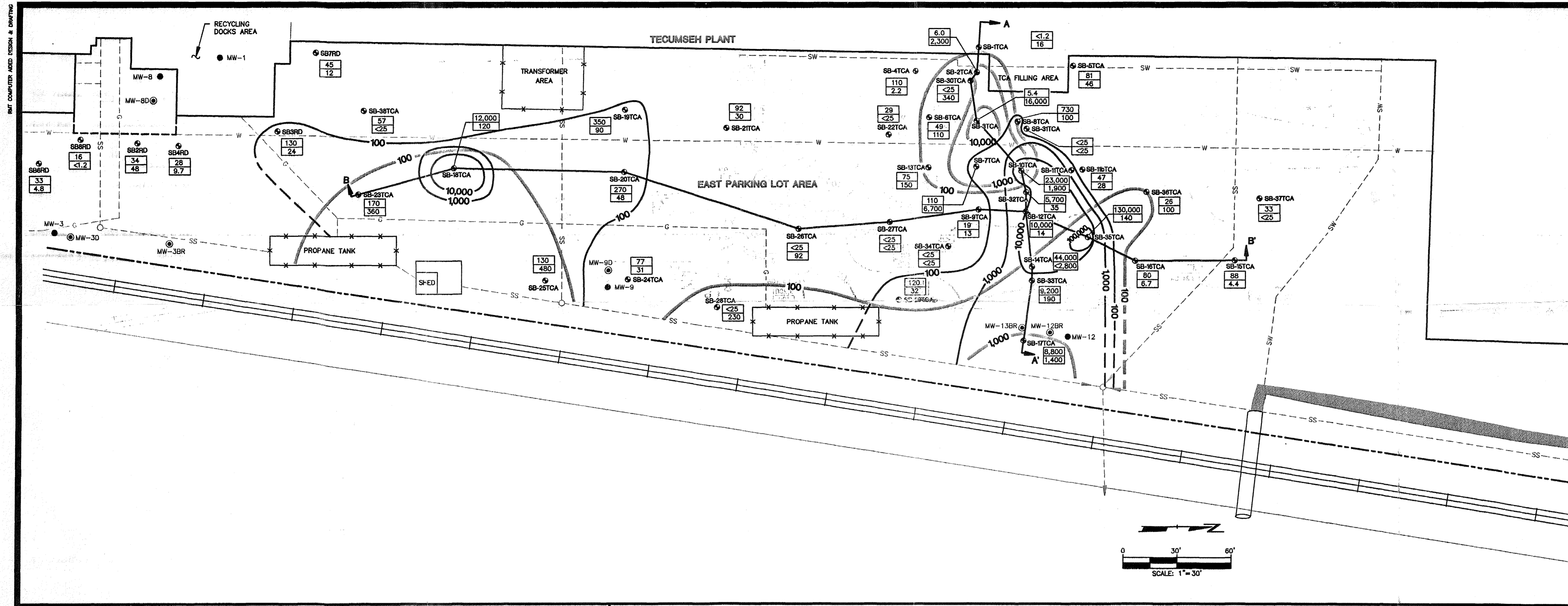


DWN. BY: SPS
APPROVED BY:
DATE: JANUARY 1995
PROJ.# 3084.07
FILE # 30840702

SOURCE: BASE MAP FROM CEDARBURG WI. 7.5 MINUTE USGS QUADRANGLE.

\$\$\$DWG\$\$\$
\$\$\$PRF\$\$\$
\$\$\$SCALE\$\$\$

FIGURE 1

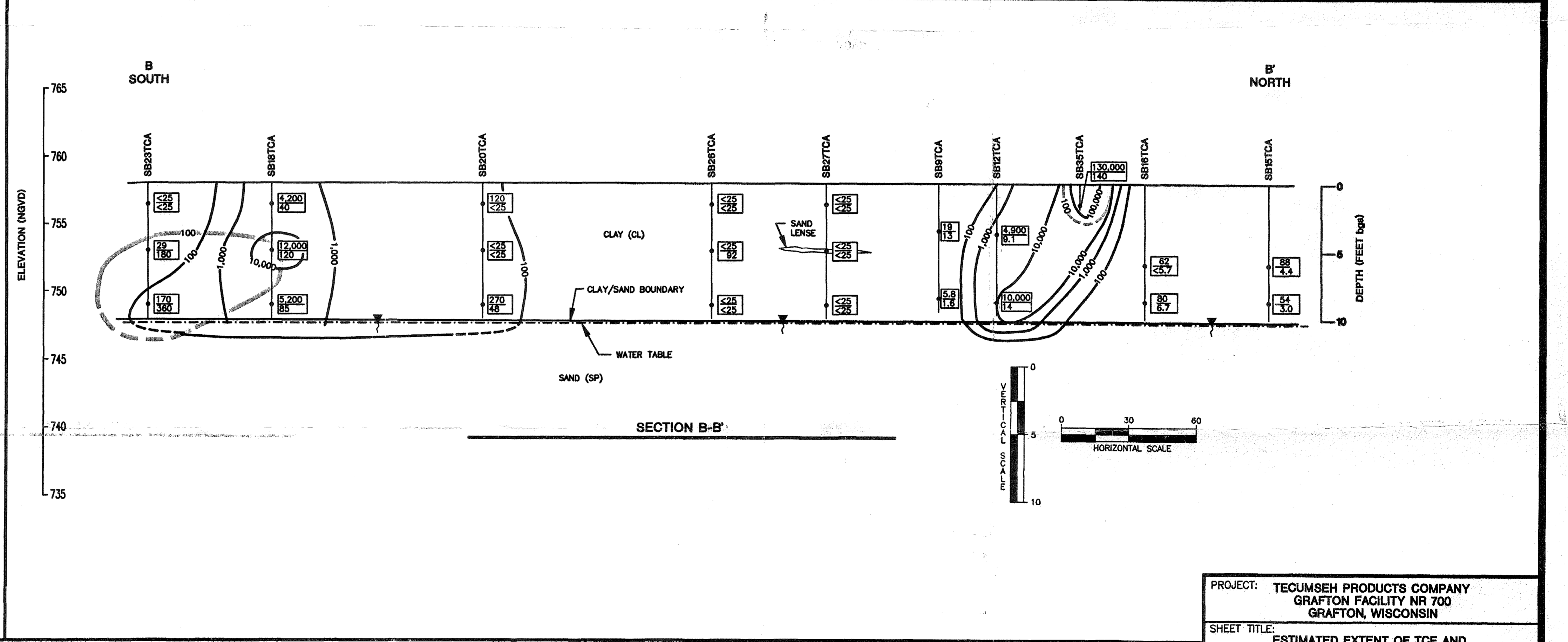
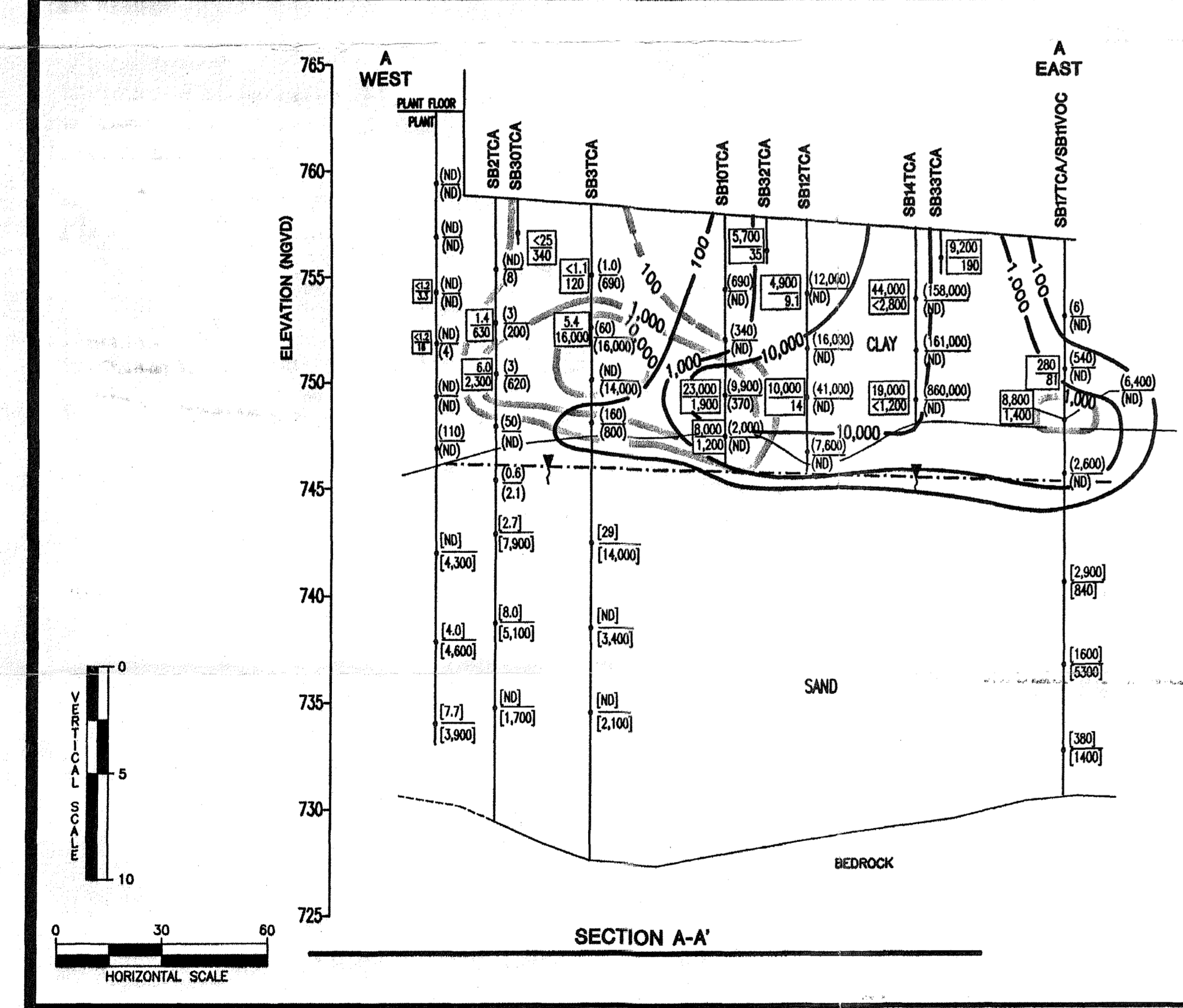


LEGEND

- MW-10 WATER TABLE WELL
- ⊙ MW-3BR PIEZOMETER
- ⊙ SB8VOC SOIL BORING
- ==== RAILROAD
- - - - PROPERTY LINE
- - - - PROPANE AND NATURAL GAS
- - - - WATER
- - - - SANITARY SEWER
- - - - STORM WATER SEWER
- ☐ TCE TCA LABORATORY RESULTS FOR TCE/TCA IN SOIL IN ug/kg
- ☐ TCE TCA EQUIVALENT SOIL CONCENTRATION FOR TCE/TCA (ug/kg) (CALCULATED FROM PORTABLE GC DATA - SEE NOTE 1)
- ☐ TCE TCA PORTABLE GC RESULTS FOR TCE/TCA IN GROUNDWATER (ug/L)
- - - - APPROXIMATE WATER TABLE SURFACE
- 100 TCE ISOCONCENTRATION CONTOUR IN SOIL IN ug/kg
- 100 TCA ISOCONCENTRATION CONTOUR IN SOIL IN ug/kg

NOTES

1. FACILITY LAYOUT ADAPTED FROM DRAWINGS PROVIDED BY TECUMSEH.
2. LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE.
3. BORINGS SB1TCA - SB17TCA WERE INSTALLED IN JULY AND AUGUST, 1995 AND WERE SAMPLED AT DEPTH INTERVALS OF 2.5 TO 11.5 FEET.
4. SB8RD BORINGS WERE INSTALLED IN AUGUST 1995 AND SAMPLED AT DEPTH INTERVALS IN THE RANGE OF 5 TO 12 FEET.
5. BORINGS SB18TCA - SB38TCA WERE INSTALLED IN SEPTEMBER 1998 AND WERE SAMPLED AT DEPTH INTERVALS IN THE RANGE OF 1 TO 10 FEET.
6. THE HIGHEST TCE AND TCA CONCENTRATIONS AT EACH BORING ARE ILLUSTRATED ON THIS FIGURE, REGARDLESS OF THE DEPTH OF THE SAMPLES.



LEGEND

- ESTIMATED EXTENT OF TCE, ISOCONCENTRATION IN SOIL (ug/kg)
- ESTIMATED EXTENT OF TCA, ISOCONCENTRATION IN SOIL (ug/kg)

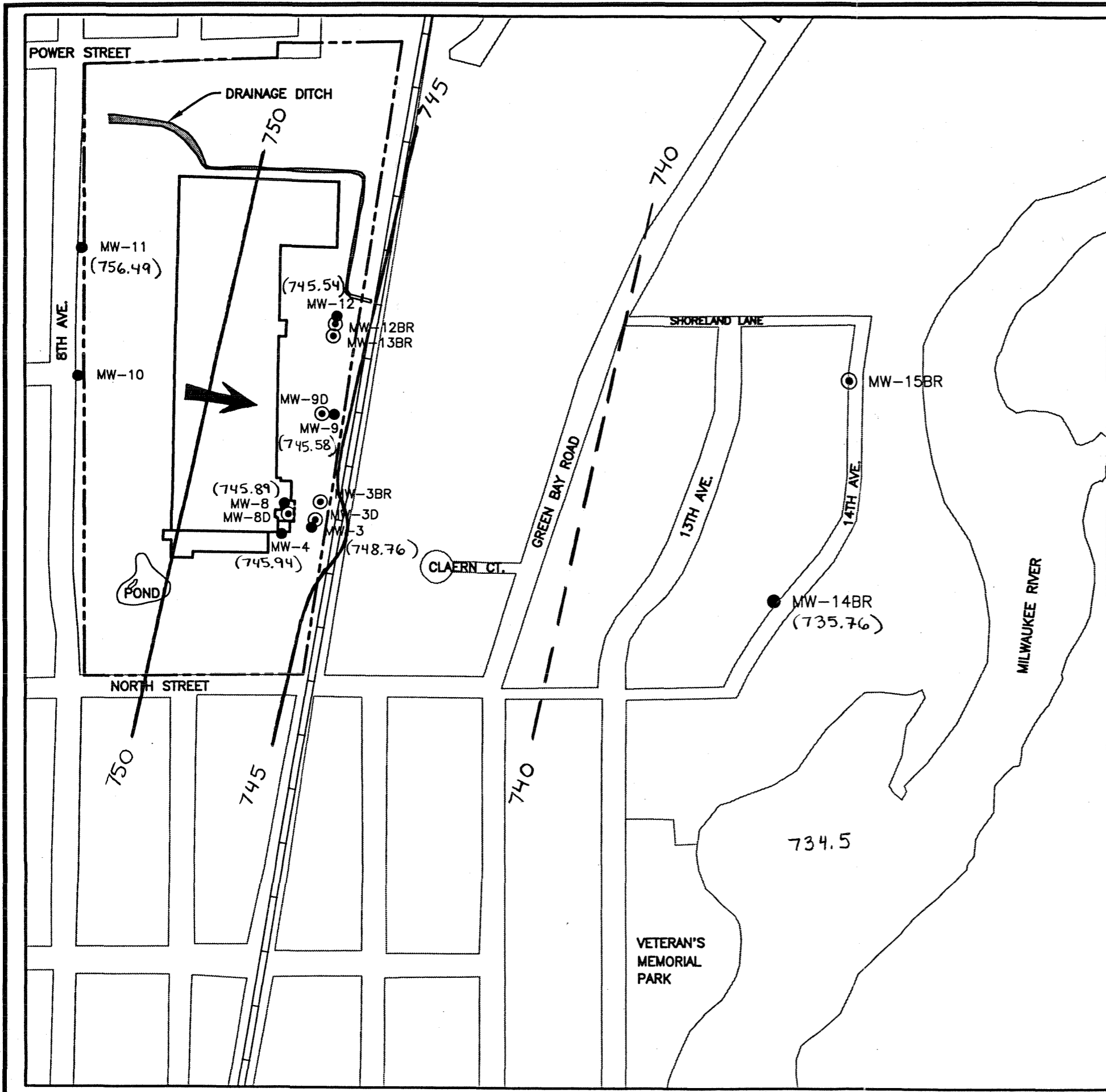
PROJECT: **TECUMSEH PRODUCTS COMPANY
GRAFTON FACILITY NR 700
GRAFTON, WISCONSIN**

SHEET TITLE: **ESTIMATED EXTENT OF TCE AND
TCA IN SOIL - EAST PARKING LOT AREA**

DRAWN BY: REYZEK	SCALE: 1"=30'	PROJ. NO. 3084.25
CHECKED BY: SAK	DATE PRINTED: JUL 15 1999	FILE NO. 30842501.DWG
APPROVED BY: BLUR		FIGURE 3
DATE: JUNE 1999		

744 Heartland Trail
Madison, WI 53717-1934
P.O. Box 8923
Madison, WI 53708-8923
Phone: 608/831-4444

2/07/2001
 Operator Name: REYZEK
 Date: 6/17/99
 Plot Size: 20x30
 Plot Style: RMT
 Associated Profile: No. 100

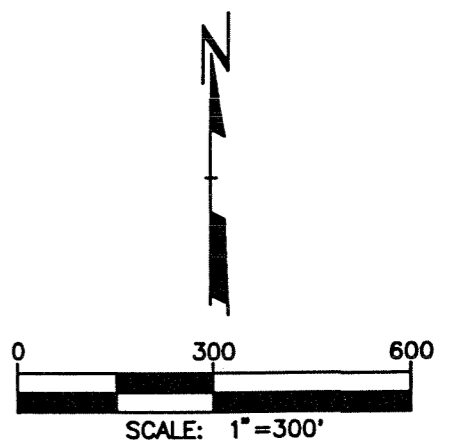


LEGEND

- RAILROAD
- APPROXIMATE PLANT PROPERTY LINE
- MW-3 WATER TABLE WELL
- MW-3D PIEZOMETER
- (745.94) WATER TABLE ELEVATION (FEET ABOVE NVGD)

NOTES:

1. MW-1, 2, 5, 6, AND 7 ARE GENERALLY LOCATED NORTHWEST OF THE RECYCLING DOCK, BUT ARE NOT SHOWN ON THIS SCALE DRAWING.
2. MONITORING WELL LOCATIONS AND ELEVATIONS WERE SURVEYED BY RMT INC. ON 12-5-94.



WATER TABLE MAP
 DECEMBER 14, 1994
 TECUMSEH PRODUCTS COMPANY
 GRAFTON, WISCONSIN

	DWN. BY: SPS
	APPROVED BY:
	DATE: JANUARY 1995
	PROJ. # 3084.07
	FILE # 30840701

DWG: ***
 PRF: ***
 SCALE: ***
 DATE: ***

PROJECT/PROPOSAL NAME Tecumseh Products Company	PREPARED		CHECKED		PROJECT/PROPOSAL NO. 3084.07
	By: LSD	Date: 1-4-95	By:	Date:	

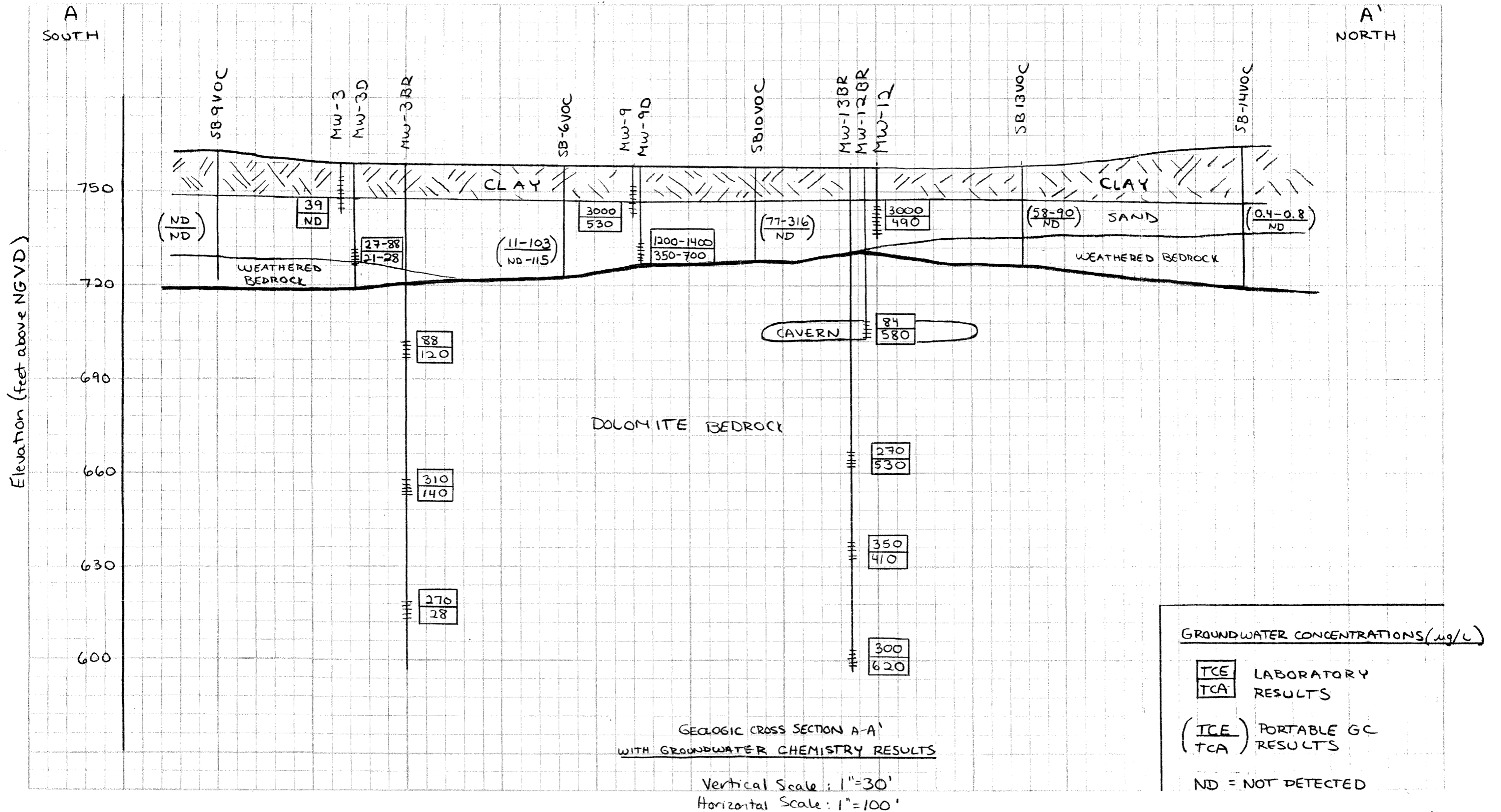


FIGURE 4

PROJECT/PROPOSAL NAME Tecumseh Products Company	PREPARED		CHECKED		PROJECT/PROPOSAL NO. 3084.05
	By: LSD	Date: 12-15-94	By:	Date:	

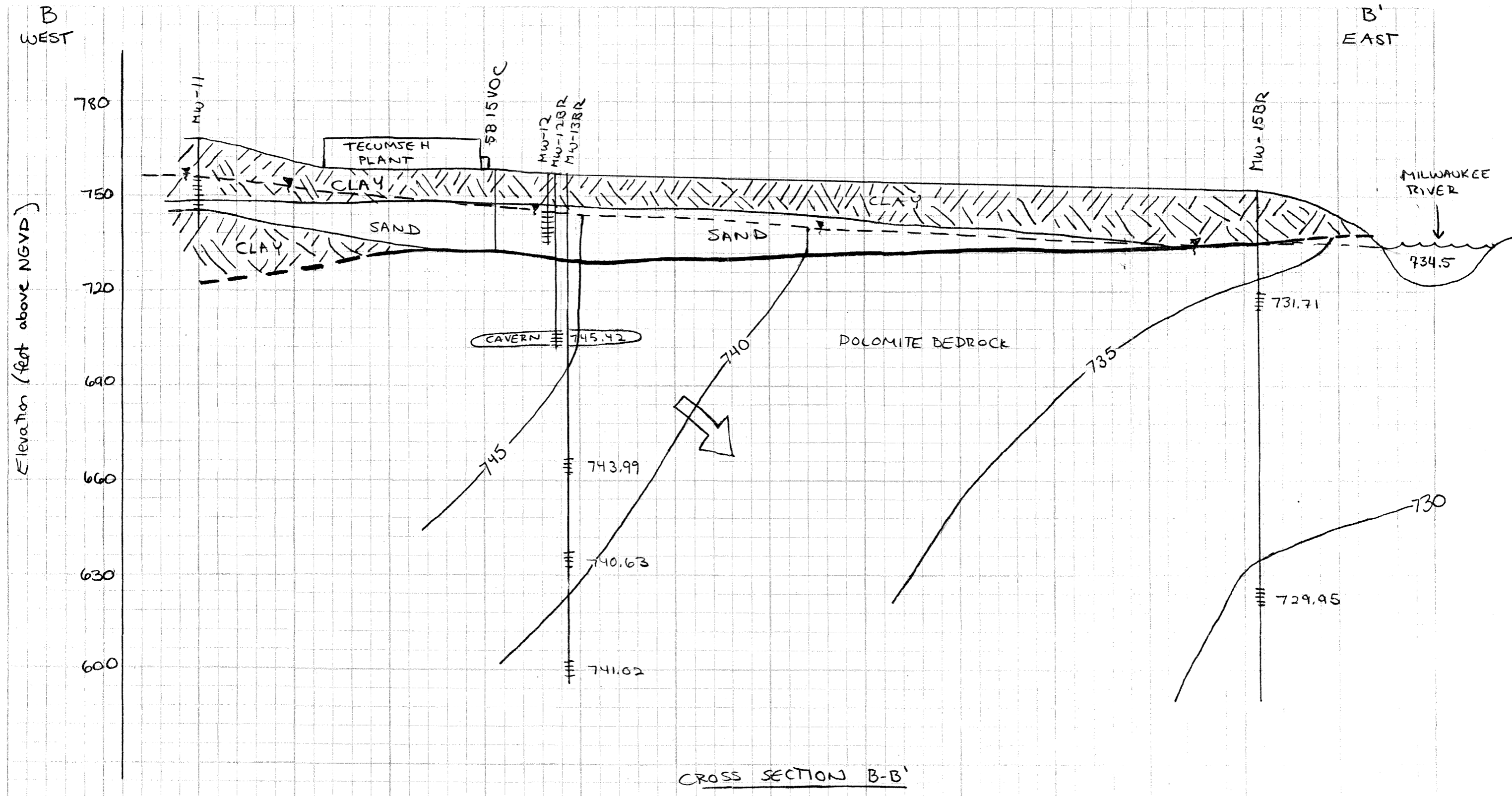
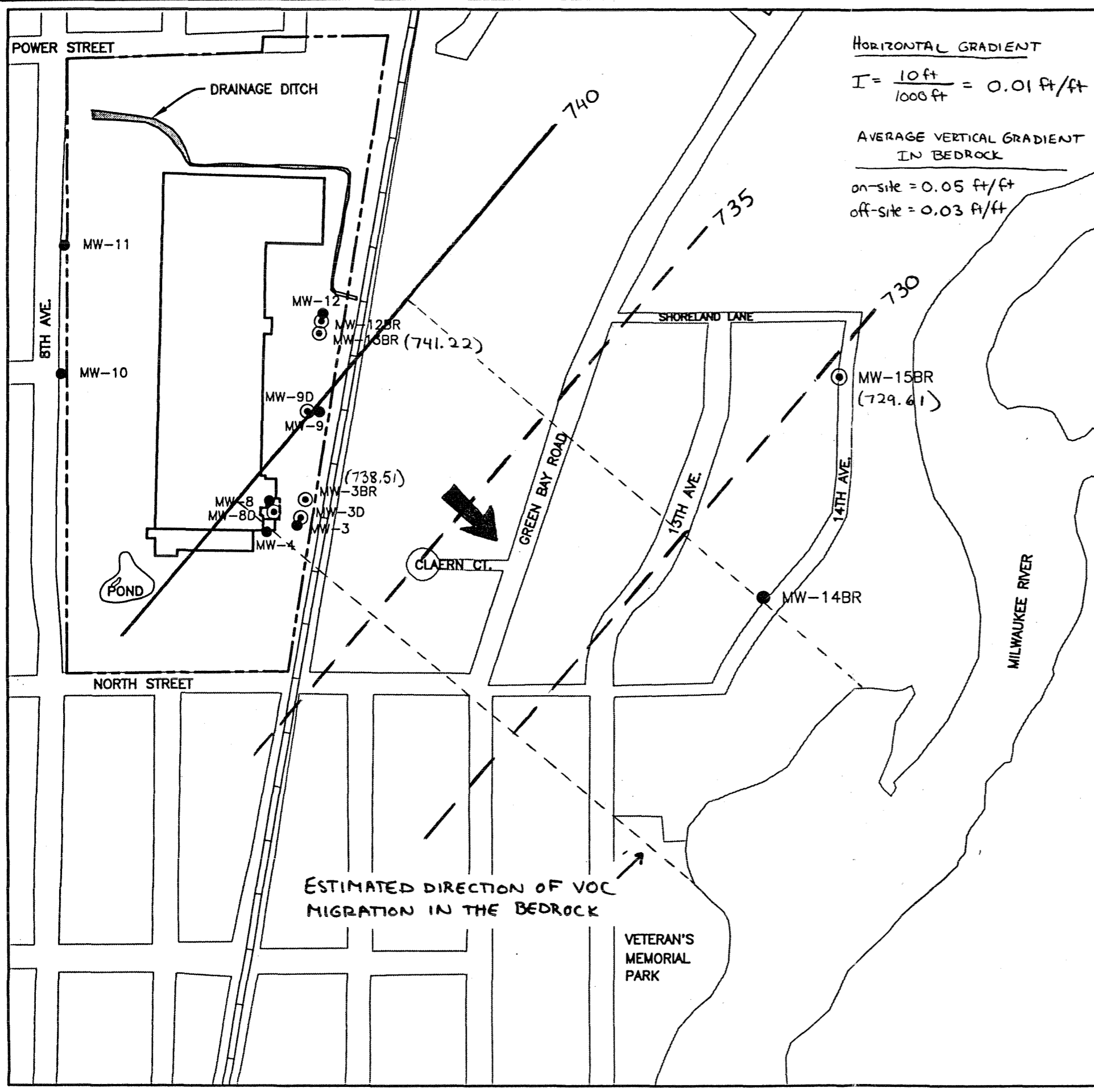


FIGURE 5



HORIZONTAL GRADIENT
 $I = \frac{10 \text{ ft}}{1000 \text{ ft}} = 0.01 \text{ ft/ft}$

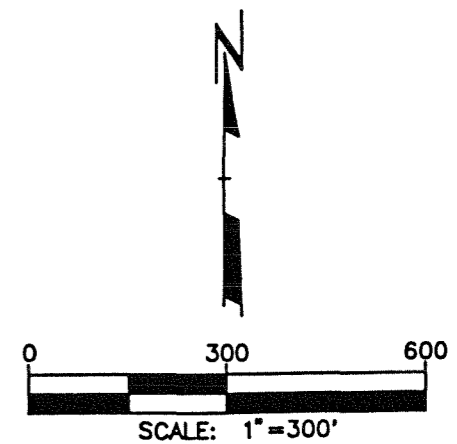
AVERAGE VERTICAL GRADIENT
 IN BEDROCK
 on-site = 0.05 ft/ft
 off-site = 0.03 ft/ft

- LEGEND**
- RAILROAD
 - APPROXIMATE PLANT PROPERTY LINE
 - MW-3 WATER TABLE WELL
 - MW-3D PIEZOMETER
 - (729.61) POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE NVD)

- NOTES:**
1. MW-1, 2, 5, 6, AND 7 ARE GENERALLY LOCATED NORTHWEST OF THE RECYCLING DOCK, BUT ARE NOT SHOWN ON THIS SCALE DRAWING.
 2. MONITORING WELL LOCATIONS AND ELEVATIONS WERE SURVEYED BY RMT INC. ON 12-5-94.

MEASUREMENT POINT ELEVATIONS

MW-3BR	620.00
MW-13BR	604.06
MW-15BR	626.20



BEDROCK POTENTIOMETRIC SURFACE MAP
 (DECEMBER 14, 1994)
 TECUMSEH PRODUCTS COMPANY
 GRAFTON, WISCONSIN

	DWN. BY: SPS
	APPROVED BY:
	DATE: JANUARY 1995
	PROJ. # 3084.07
	FILE # 30840701

\$\$\$DW/\$\$
 \$\$\$PR/\$\$
 \$\$\$SCALE/\$\$
 \$\$\$DATE/\$\$

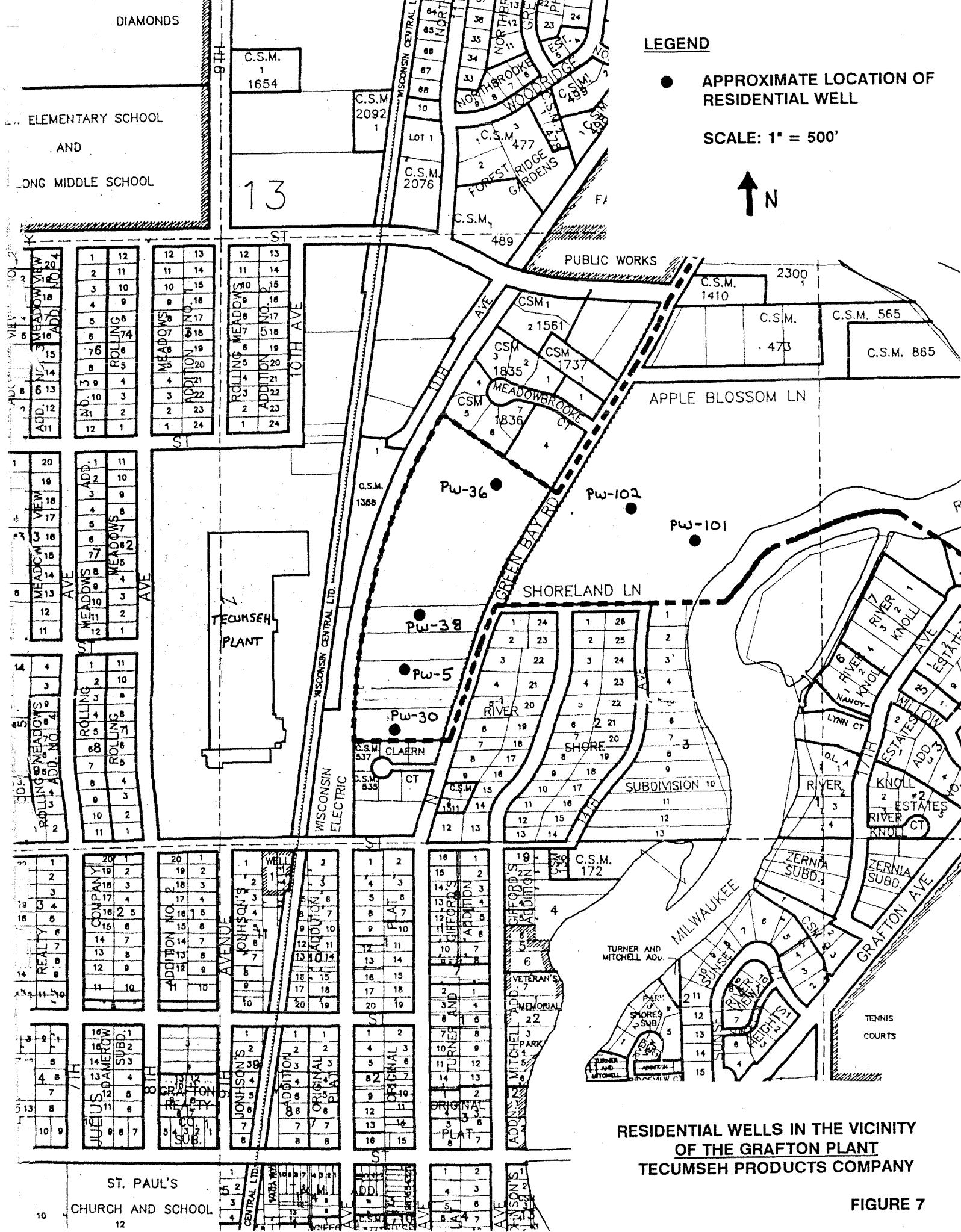
DIAMONDS

ELEMENTARY SCHOOL
AND
LONG MIDDLE SCHOOL

LEGEND

● APPROXIMATE LOCATION OF
RESIDENTIAL WELL

SCALE: 1" = 500'



**RESIDENTIAL WELLS IN THE VICINITY
OF THE GRAFTON PLANT
TECUMSEH PRODUCTS COMPANY**

FIGURE 7

ST. PAUL'S
CHURCH AND SCHOOL

APPENDIX A
BORING LOGS AND BOREHOLE ABANDONMENT DOCUMENTATION

Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number SB9VOC	
Boring Drilled By (Firm name and name of crew chief) WTD Environmental Drilling, Crew Chief: Dan Zielazowski			Date Drilling Started 11/9/94		Date Drilling Completed 11/10/94	
DNR Facility Well No.			WI Unique Well No.		Common Well Name	
Final Static Water Level Feet MSL			Surface Elevation 761.4 Feet MSL		Borehole Diameter 8.3 Inches	
Boring Location State Plane 489435.60 N, 2544364.52 E			Lat 0' "		Local Grid Location (If applicable)	
SW 1/4 of SE 1/4 of Section 13 T 10 N,R 21E			Long 0' "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee			DNR County Code 46		Civil Town/City/ or Village Grafton	

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments		
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200			
A	24	22	1-3	LEAN CLAY (CL), 10% sand, high plasticity, dark brown 10YR 2/2, very stiff, mottled.	CL				3.0	M				SS		
B	20	18	5-6	As above, but trace gravel, dark gray brown 10YR 4/2.								M				SS
C	14	26	7-8	As above but grayish brown 10YR 5/2. LEAN CLAY (CL), trace gravel (5%), high plasticity, yellowish brown 10YR 5/4, very stiff.	CL							2.5	M			SS
D	12	26	10-11	As above but no gravel, very hard.								>4.5	M			SS
			12	Wet at ~11.5'.						W						

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











Signature 	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
---------------	--

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1/55

Boring Number **SB9VOC** Use only as an attachment to Form 4400-122.

Page 2 of 3

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
E	NR	100/6"	13	No recovery, rock fragment in spoon tip.											SS
F		18	15	SILTY SAND (SM) , sand fine grained, yellowish brown 10YR 5/6, dense.	SM						W				HP
G	16	65	17	As above, but very dense.							W				SS
H			19												HP
I	18	19	21	POORLY GRADED SAND WITH SILT (SP-SM) , 10% silt, yellowish brown 10YR 5/4, medium dense.	SP-SM						W				SS
J			23												HP
K	20	66	25	As above.							W				SS
L			27												HP
M	12	82	29	As above.							W				SS
N			31												HP

Boring Number **SB9VOC** Use only as an attachment to Form 4400-122.

Page 3 of 3

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
O	1	100/4"	33	Gravel in spoon.	SP-SM										SS
P	NR	60/100	35	No recovery.											SS
Q		100/4"	40	SANDY SILT (ML), gray 10YR 5/1, very stiff.	ML										SS
			41	SILT (ML), gray 10YR 5/1, hard.	ML				>4.5	M					SS
			41	End of Boring at 41 Ft.											

Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number SB10VOC	
Boring Drilled By (Firm name and name of crew chief) WTD Environmental Drilling, Crew Chief: Dan Zielazowski			Date Drilling Started 11/7/94		Date Drilling Completed 11/7/94	
DNR Facility Well No.			WI Unique Well No.		Common Well Name	
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter 8.3 Inches	
Boring Location State Plane SW 1/4 of SE 1/4 of Section 13 T 10 N,R 21E			Lat 0' "		Local Grid Location (If applicable)	
			Long 0' "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee			DNR County Code 46		Civil Town/City/ or Village Grafton	

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
A	14	13	1-3	LEAN CLAY WITH GRAVEL (CL), some silt (30%), little fine gravel (20%), moderate plasticity, black 10YR 2/1, medium stiff.	CL									SS	
B	20	16	3-5	LEAN CLAY (CL), little fine gravel (10%), high plasticity, dark yellowish brown 10YR 4/6, medium stiff, mottled (brown coloring).	CL					5-1.0	M				SS
C	20	24	5-7	LEAN CLAY (CL), high plasticity, yellowish brown 10YR 5/4, mottled grayish brown 10YR 5/2 and pale brown 10YR 6/2, very stiff.	CL					2-3.0	M				SS
D	4	28	7-10	As above, trace gravel, occasional sand seam, brown 10YR 5/3, hard at 9-9.5'. As above.								M			SS

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

Signature 	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
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Boring Number **SB10VOC** Use only as an attachment to Form 4400-122.

Page 2 of 2

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments									
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200										
E	14	50	13	WELL GRADED SAND (SW), fine to coarse, trace (5%) fine gravel, gray 10YR 5/1, dense.	SW					W				SS									
F			14																				
G	10	50	15												As above, but little (15%) fine to medium subrounded gravel.	SP				W			SS
H			16																				
I	20	27	17																				
J			18	POORLY GRADED SAND (SP), fine to medium, trace (5%) fine gravel, gray 10YR 5/1, medium dense.					W			HP											
K	14	46	19																				
L			20																				
M	1	100+	21	As above but mostly fine sand.					W			SS											
			22																				
			23	SILT (ML), with dolomite bedrock fragments, light yellowish brown 10YR 6/4.	ML					W			SS										
			24																				
			25	Auger Refusal at 29.8 Ft. Dolomite Bedrock.																			

Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number SB11VOC	
Boring Drilled By (Firm name and name of crew chief) WTD Environmental Drilling, Crew Chief: Dan Zielazowski			Date Drilling Started 11/7/94		Date Drilling Completed 11/8/94	
DNR Facility Well No.		WI Unique Well No.	Common Well Name		Final Static Water Level Feet MSL	
					Surface Elevation Feet MSL	
					Borehole Diameter 8.3 Inches	
Boring Location State Plane SW 1/4 of SE 1/4 of Section 13 T 10 N, R 21E			Lat 0' "		Local Grid Location (If applicable)	
			Long 0' "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee			DNR County Code 46		Civil Town/City/ or Village Grafton	

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
A	20	18	1	LEAN CLAY (CL), some silt (30-40%), very dark brown 10YR 2/2, moderate plasticity, stiff.	CL					M				SS
			2											
B	18	15	3	LEAN CLAY (CL), high plasticity, dark yellowish brown 10YR 4/6, very stiff, mottled.	CL					M	2-2.5			SS
			4											
C	16	14	5	As above, trace gravel, stiff.						M	1-2.0			SS
			6											
D	NR	46	7	SILT (ML), low plasticity, gray brown 10YR 5/2, very stiff, occasional sand seams, stratified.	ML					D	3-3.5			SS
			8											
			9	No recovery, pounded gravel, spoon is wet at ~11.5'.	SP					W				SS
			10											
			11											
			12											

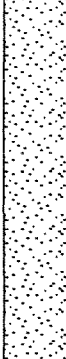




I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
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Boring Number **SB11VOC** Use only as an attachment to Form 4400-122.


Page 2 of 2

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
E	12	34	13-14	POORLY GRADED SAND (SP), medium to coarse, few (5-10%) gravel, yellowish brown 10YR 5/6, dense Dolomite fragments at 14.2'.						W				SS
F			15-16											
G	8	52	17-18	----- WELL GRADED SAND (SW), fine to coarse, few (10%) fine to medium gravel, trace silt, brown 10YR 5/3, dolomite fragments.	SW					W				SS
H			19-20											
I	NR	68	21-22	No recovery, pushed gravel or cobble.										SS
J			23-24											
K	6	100/1	25-26	POORLY GRADED SAND (SP), fine, trace silt/clay, gray 10YR 5/1, very dense.	SP					W				SS
			26	WEATHERED DOLOMITE BEDROCK, very pale brown 10YR 7/3. End of Boring at 26.2 Ft. Dolomite Bedrock.										

Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number SB12VOC	
Boring Drilled By (Firm name and name of crew chief) WTD Environmental Drilling, Crew Chief: Dan Zielazowski			Date Drilling Started 11/8/94		Date Drilling Completed 11/8/94	
DNR Facility Well No.			WI Unique Well No.		Common Well Name	
Final Static Water Level Feet MSL			Surface Elevation 756.6 Feet MSL		Borehole Diameter 8.3 Inches	
Boring Location State Plane 490185.75 N, 2544479.58 E SW 1/4 of SE 1/4 of Section 13 T 10 N, R 21 E			Lat ° ' " Long ° ' "		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee			DNR County Code 46		Civil Town/City/ or Village Grafton	

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
A	24	13	1-3	CLAYEY SAND (SC), brown 10YR 4/3, medium dense.	SC	[Hatched]									SS
			4	SILT (ML), moderate plasticity, light grayish brown 10YR 6/2, medium stiff, mottled.	ML	[Horizontal lines]									
B	20	28	5-6	LEAN CLAY (CL), some silt (30-40%), few (10%) gravel, high plasticity, yellowish brown 10YR 5/4, medium stiff.	CL	[Diagonal lines]			.5-1.0	M					SS
			7	SILT (ML), trace gravel, low plasticity, brown 10YR 5/3, very stiff.	ML	[Vertical lines]			3.5-4.0	D/M					
C	14	30	8-9	LEAN CLAY (CL), some silt (35%), trace fine gravel, moderate plasticity, gray 10YR 5/1, very stiff.	CL	[Diagonal lines]			2.5-3.0	M					SS
D	NR	60+	10-11	POORLY GRADED SAND (SP), fine, brown 10YR 5/3, loose.	SP	[Dotted]				M					SS
			12	No recovery, pound gravel/cobble.											

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

Signature 	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
--	--

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Boring Number **SB12VOC** Use only as an attachment to Form 4400-122.

Page 2 of 2

Sample			Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
Number	Length (In) Recovered	Blow Counts							Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
E	12	18	13	WELL GRADED SAND (SW), few fine to medium gravel, trace silt, gray brown 10YR 5/2. Dolomite fragments.	SW				W				SS	
F			14											
G	2	38	17	WELL GRADED SAND WITH GRAVEL (SW), medium to coarse sand, some fine to coarse gravel (30-35%), trace silt (5%), gray 10YR 5/1, dense.	SW				W				SS	
H			18											
I	12	100/3"	21	POORLY GRADED SAND WITH SILT (SP-SM), fine to medium sand, 10% silt, trace gravel, gray 10YR 5/1, dense.	SP-SM				W				SS	
J			22											
K	20	42	25	SILT WITH GRAVEL (ML), little (15-20%) fine to coarse gravel, gray brown 10YR 5/2, stiff.	ML				W				HP	
L			23											
M	10	58	25	As above but trace gravel, hard.					D				SS	
			26											
			27	As above.									SS	
			28											
			29	As above.										
			30											
			30	WEATHERED DOLOMITE BEDROCK, olive yellow 2.5Y 6/8.									SS	
				End of Boring at 30.5 Ft.										

Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number SB13VOC	
Boring Drilled By (Firm name and name of crew chief) WTD Environmental Drilling, Crew Chief: Dan Zielazowski			Date Drilling Started 11/8/94		Date Drilling Completed 11/9/94	Drilling Method HSA 4.25/2" SS
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 8.3 Inches
Boring Location State Plane SW 1/4 of SE 1/4 of Section 13 T 10 N, R 21E			Lat ° ' " Long ° ' "		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee			DNR County Code 46		Civil Town/City/ or Village Grafton	

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
A	20	9	1-3	SANDY LEAN CLAY (CL), ~30% fine sand, trace gravel, high plasticity, yellowish brown 10YR 5/4, medium stiff, mottled.	CL				5-1.5	M				SS
B	24	7	3-5	As above.						M				SS
C	8	100/0"	5-8	LEAN CLAY (CL), moderate plasticity, gray 10YR 5/1, hard.	CL				>4.5	D				SS
D	12	26	8-10	POORLY GRADED SAND (SP), fine, grayish brown 10YR 5/2, medium dense.	SP					M/W				SS

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

Signature 	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
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10

Boring Number **SB13VOC** Use only as an attachment to Form 4400-122.


Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments	
Number	Length (In) Recovered								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
E			13												HP
F	14	85	14	WELL GRADED SAND (SW) , fine to coarse sand, few (10%) fine to medium gravel, trace (5%) silt, grayish brown 10YR 5/2, very dense, dolomite fragments.	SW				W						SS
			15												
G			16												
H	10	90	18	As above.					W						SS
I			20	SILTY SAND (SM) , sand fine grained, gray 10YR 5/1, dense.	SM				W						HP
			21												
J	5	108/6"	22	SILT WITH GRAVEL (ML) , little (15-20%) fine gravel, nonplastic, gray 10YR 5/1, hard.	ML				M						SS
			23												
K			24												
L	14	140	26	As above but trace fine gravel.					D						SS
			27												
			28												
			29												
M	9	100/3"	30	As above, but trace clay.											SS
				Auger Refusal at 30.8 Ft. Dolomite Bedrock.											

11

Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number SB14VOC
Boring Drilled By (Firm name and name of crew chief) WTD Environmental Drilling, Crew Chief: Dan Zielazowski			Date Drilling Started 11/9/94	Date Drilling Completed 11/9/94	Drilling Method HSA 4.25/2" SS
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 8.3 Inches
Boring Location State Plane SW 1/4 of SE 1/4 of Section 13 T 10 N, R 21E			Lat 0' "	Local Grid Location (If applicable)	
			Long 0' "	Feet <input type="checkbox"/> N <input type="checkbox"/> E	Feet <input type="checkbox"/> S <input type="checkbox"/> W
County Ozaukee		DNR County Code 46	Civil Town/City/ or Village Grafton		

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
A	22	30	1	LEAN CLAY (CL), some silt (35%), few (10%) fine gravel, low plasticity, yellowish brown 10YR 5/4, very stiff.	CL					M/D				SS
			2-4											
B	24	48	5	LEAN CLAY (CL), few (10%) gravel, low plasticity, yellow brown 10YR 5/4, very stiff.	CL					M				SS
			6-7											
C	24	10	8						2.0	M				SS
			9											
D	24	37	10	As above but hard.					>4.5	M				SS
			11-12											





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

Signature 	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
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











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Boring Number **SB14VOC** Use only as an attachment to Form 4400-122.

Page 2 of 3

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments										
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200											
E	24	32	13	LEAN CLAY (CL) , some silt (35%), high plasticity, gray 10YR 5/1, very stiff.	CL				3-4.0	M				SS										
F			14						As above.									SS						
			15																	M				
G	8	44	17	POORLY GRADED SAND (SP) , fine, trace silt, gray brown 10YR 5/2, dense. Wet @ 18 ft.	SP					M/W				SS										
			18																					
H			19	As above.										HP										
			20																					
			21																					
I	14	42	22	As above.										SS										
			23																					
			24																					
J			25	As above.										HP										
			26																					
			27																					
K	16	34	28	LEAN CLAY (CL) , trace silt, moderate plasticity, gray 10YR 5/1, very stiff.	CL					D														
			29																					
L	6	100/4"	30	As above, trace fine gravel, hard. 1" silt seam at 30.5-30.7', gray 10YR 5/1, medium stiff.										SS										
			31																					
			32																					

Boring Number **SB14VOC** Use only as an attachment to Form 4400-122.

Sample	Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments	
										Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
M	1	50/100		33	As above, dolomite fragment in tip of spoon.	CL					D					SS
N	NR	100/3		34	No recovery.											SS
				35												
				36												
				37												
				38	As above.											
				39												
				40												
				41												
				42												
				43												
				44												
				45	End of Boring at 45 Ft.											

Facility/Project Name Tecumseh Products Co. 3084.05		License/Permit/Monitoring Number		Boring Number SB15VOC	
Boring Drilled By (Firm name and name of crew chief) WTD Environmental Drilling, Crew Chief: Dan Zielazowski		Date Drilling Started 11/15/94		Date Drilling Completed 11/15/94	
DNR Facility Well No.		WI Unique Well No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation 758.8 Feet MSL		Borehole Diameter 8.3 Inches	
Boring Location State Plane 490104.36 N, 2544360.98 E				Local Grid Location (If applicable)	
SW 1/4 of SE 1/4 of Section 13 T 10 N,R 21E				Lat ° ' " <input type="checkbox"/> N <input type="checkbox"/> E Long ° ' " Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
County Ozaukee		DNR County Code 46		Civil Town/City/ or Village Grafton	

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
A	18	22	1-3	LEAN CLAY (CL), 5% gravel, 5% sand, little silt, plastic, yellow brown 10YR 5/4, stiff.	CL				1.5	M				SS
B	24	45	3-5	As above, very stiff.					2.25	M				SS
C	22	35	5-8	As above, yellowish brown 10YR 5/4 grading to gray 10YR 5/1.					2.75	M				SS
D	22	38	8-10	As above.					3.75	M				SS
			10-12		SP					M				

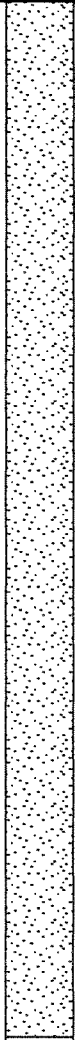
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
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

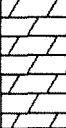
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Boring Number **SB15VOC** Use only as an attachment to Form 4400-122.

Page 2 of 2

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
Number	Length (In) Recovered								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
E	19	21	13-14	POORLY GRADED SAND (SP), medium grained, pale brown 10YR 6/3. As above, brown 10YR 5/3, medium dense. As above, grayish brown 2.5Y 5/2. As above. No recovery. Auger Refusal at 25.5 Ft. Dolomite Bedrock.									SS	
E1			15-16										HP	
F	22	16	17-18										SS	
F1			19-20										HP	
G	18	30	21-22										SS	
G1			23-24										HP	
H	NR	100/4"	25										SS	

Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number SB16VOC	
Boring Drilled By (Firm name and name of crew chief) WTD Environmental Drilling, Crew Chief: Dan Zielazowski			Date Drilling Started 11/15/94		Date Drilling Completed 11/15/94	
DNR Facility Well No.			WI Unique Well No.		Common Well Name	
Final Static Water Level Feet MSL			Surface Elevation 748.4 Feet MSL		Borehole Diameter 8.3 Inches	
Boring Location State Plane 489354.08 N, 2545690.45 E			Lat ° ' "		Local Grid Location (If applicable)	
SE 1/4 of SE 1/4 of Section 13 T 10 N,R 21E			Long ° ' "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee			DNR County Code 46		Civil Town/City/ or Village Grafton	

Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments			
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200				
A 	2	100/2	0-1	3" Topsoil.	CH												
			1-2	8" FAT CLAY (CH).													
			2-2.8	WEATHERED DOLOMITE, light brown-gray 10YR 6/2, hard.													
				Auger Refusal at 2.8 Ft. Competent Dolomite Bedrock.													
				Redrilled hole approximately 20 feet south. Hit auger refusal at ~2 feet.													SS

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

Signature <i>Lisa S. Truesdell</i>	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
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Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number SB17VOC	
Boring Drilled By (Firm name and name of crew chief) WTD Environmental Drilling, Crew Chief: Dan Zielazowski			Date Drilling Started 11/15/94		Date Drilling Completed 11/15/94	
DNR Facility Well No.			WI Unique Well No.		Common Well Name	
Final Static Water Level Feet MSL			Surface Elevation 751.8 Feet MSL		Borehole Diameter 8.3 Inches	
Boring Location State Plane 489932.83 N, 2545872.33 E			Lat ° ' "		Local Grid Location (If applicable)	
SE 1/4 of SE 1/4 of Section 13 T 10 N,R 21E			Long ° ' "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee			DNR County Code 46		Civil Town/City/ or Village Grafton	

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
A	20	11	1-3	LEAN CLAY (CL), grading to a SANDY LEAN CLAY (CL), 5% gravel, 0-30% sand, sand content increases downward, plastic, yellow brown 10YR 5/4, stiff, rootlets.	CL				1.5	M				SS
B	18	30	5-6	SILTY SAND (SM), sand fine grained, light yellowish brown 10YR 6/4, medium dense.	SM					M				SS
C	22	103	7-8	SANDY SILT WITH GRAVEL (ML), 20% sand, 15% gravel (dolomite), light yellowish brown 10YR 6/4, hard.	ML					M				SS
			8-9	SILT (ML), 5% gravel, nonplastic, light yellowish brown 10YR 6/4, hard.	ML									
D	24	105	10-11	LEAN CLAY (CL), 5% gravel, little silt, plastic, gray-brown 10YR 5/2, grading to a gray 10YR 5/1, hard.	CL				>4.5	M				SS


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

Signature <i>Leo J. Zielazowski</i>	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
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Boring Number **SB17VOC** Use only as an attachment to Form 4400-122.

Page 2 of 2

Sample			Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
Number	Length (In) Recovered	Blow Counts							Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
E	24	40	13	As above, less gravel (2%), gray 10YR 5/1.	CL				>4.0	M				SS
			14	Thin (1mm) sand seam at base of spoon.										
F	5	100/5	15	WEATHERED DOLOMITE BEDROCK , lean clay with gravel, gravel composed of dolomite, hard.					>4.5	M				SS
			16											
G	1	100/1	17	As above, chunks of dolomite.						M			SS	
			18	Auger Refusal at 18 Ft. Competent Dolomite Bedrock.										

Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number MW3BR	
Boring Drilled By (Firm name and name of crew chief) Bergerson-Caswell, Crew Chief: Glenn Holmen			Date Drilling Started 11/8/94		Date Drilling Completed 11/15/94	
DNR Facility Well No.			WI Unique Well No.		Common Well Name MW3BR	
Final Static Water Level Feet MSL			Surface Elevation 758.7 Feet MSL		Borehole Diameter 12.0 Inches	
Boring Location State Plane 489622.38 N, 2544422.27 E SW 1/4 of SE 1/4 of Section 13 T 10 N,R 21E			Lat 0' "		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
County Ozaukee			DNR County Code 46		Civil Town/City/ or Village Grafton	

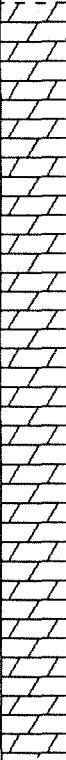

Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Blind drilled to 40'. See boring log MW-3D, for description. 8" steel casing set to 40' with cement.										

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

Signature <i>Lisa A. Byers</i>	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
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Boring Number **MW3BR** Use only as an attachment to Form 4400-122. Page 2 of 6

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
Number	Length (In) Recovered								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	<p>Competent DOLOMITE BEDROCK at 37', very pale brown 10YR 8/3. ~.5'/min. Penetration rate.</p> <p>Circulation loss: minimal to none, no significant fractures noted during drilling.</p>										

Boring Number **MW3BR** Use only as an attachment to Form 4400-122.

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
Number	Length (In) Recovered								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			54	As above. Penetration Rate, ~0.8 ft/min.										
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64	As above. Penetration Rate ~0.8 ft/min.										
			65											
			66											
			67											
			68											
			69											
			70											
			71											
			72											
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			79											
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			86											

Boring Number **MW3BR** Use only as an attachment to Form 4400-122.

Page 4 of 6

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
Number	Length (In) Recovered								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			87	As above, pale brown 10YR 6/3.										
			88											
			89											
			90											
			91											
			92											
			93											
			94											
			95											
			96											
			97											
			98											
			99											
			100	As above.										
			101											
			102											
			103											
			104											
			105											
			106											
			107											
			108											
			109											
			110	As above.										
			111											
			112											
			113											
			114											
			115											
			116											
			117											
			118											
			119	As above.										
			120											

Boring Number **MW3BR** Use only as an attachment to Form 4400-122. Page 5 of 6

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments						
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200							
			121																	
			122																	
			123																	
			124																	
			125																	
			126																	
			127																	
			128																	
			129																	
			130	As above.																
			131																	
			132																	
			133																	
			134																	
			135																	
			136																	
			137																	
			138																	
			139																	
			140	As above, platy chips, very pale brown 10YR 7/3.																
			141																	
			142																	
			143																	
			144																	
			145																	
			146																	
			147																	
			148																	
			149																	
			150	As above.																
			151																	
			152																	
			153																	

Boring Number **MW3BR** Use only as an attachment to Form 4400-122.

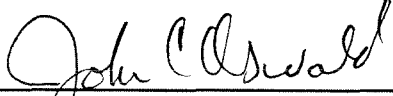
Page 6 of 6

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			154 155 156 157 158 159 160	As above, very pale brown 10YR 8/3.										
				End of Boring at 160 Ft.										

Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number MW-11	
Boring Drilled By (Firm name and name of crew chief) WTD Environmental Drilling, Crew Chief: Dan Zielazowski			Date Drilling Started 11/14/94		Date Drilling Completed 11/14/94	
DNR Facility Well No.		WI Unique Well No.	Common Well Name		Final Static Water Level Feet MSL	
					Surface Elevation 767.1 Feet MSL	
					Borehole Diameter 8.3 Inches	
Boring Location State Plane 490320.66 N, 2543777.35 E			Lat ° ' "		Local Grid Location (If applicable)	
SE 1/4 of SW 1/4 of Section 13 T 10 N, R 21E			Long ° ' "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee			DNR County Code 46		Civil Town/City/ or Village Grafton	

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments					
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200						
A	16	10	1-2	SILT (ML), nonplastic, very dark brown 10YR 2/2, stiff.	ML														
			3-4	SANDY LEAN CLAY (CL), some (30-40%) fine sand, medium plasticity, dark yellowish brown 10YR 4/6, stiff, mottled.	CL														
B	12	11	5-6	SANDY SILT (ML), some (30%) fine to medium sand, nonplastic, dark yellowish brown 10YR 4/6, soft.	ML				<.5	M									
C	24	14	7-8	As above but wet.						W									
			9-10	LEAN CLAY (CL), high plasticity, light yellowish brown 10YR 6/4, medium stiff.	CL				1.0	W									
D	12	14	10-11	As above, but trace (5%) fine to medium gravel, trace (5%) medium to coarse sand, very stiff.					2.0	D/M									

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

Signature 	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
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Boring Number **MW-11** Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
E	14	21	13-14	As above, with fine sand seams, medium plasticity, gray brown 10YR 5/2, hard.	CL				4.0						SS
F	24	21	15-16	As above, with occasional silt seams, high plasticity, dry, hard, silt seams are wet.					>4.0						SS
G	24	43	17-18	As above.											SS
H			19-21	POORLY GRADED SAND (SP), gray brown 10YR 5/2, medium dense.	SP					W					HP
			20-21	WELL GRADED SAND (SW), fine to coarse grained, little (15-25%) fine to coarse gravel, gray 10YR 5/1, dense.	SW					W					
I	5	100/6"	22-23	LEAN CLAY (CL), trace (5%) fine gravel, high plasticity, gray brown 10YR 5/2, stiff.	CL					M					SS
J		51	24-25	LEAN CLAY (CL), little silt, medium plasticity, gray brown 10YR 5/2, hard.						D					SS
K		100/6"	26-27	As above.						D					SS
			28	End of Boring at 28 Ft.											

Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number MW-12	
Boring Drilled By (Firm name and name of crew chief) WTD Environmental Drilling, Crew Chief: Dan Zielazowski			Date Drilling Started 11/14/94		Date Drilling Completed 11/14/94	
DNR Facility Well No.		WI Unique Well No.	Common Well Name		Final Static Water Level Feet MSL	
					Surface Elevation 757.1 Feet MSL	
Boring Location State Plane 490118.90 N, 2544474.27 E		Lat 0' "		Local Grid Location (If applicable)		
SW 1/4 of SE 1/4 of Section 13 T 10 N,R 21E		Long 0' "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
County Ozaukee			DNR County Code 46		Civil Town/City/ or Village Grafton	

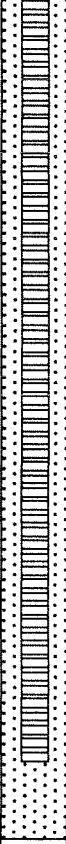
Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			1 2 3 4 5 6 7 8 9 10 11 12	Blind drilled to 23 feet. See boring log for SB11VOC for description.										

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

Signature 	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
---------------	--

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.

Boring Number **MW-12** Use only as an attachment to Form 4400-122. Page 2 of 2

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
Number	Length (In) Recovered								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			13 14 15 16 17 18 19 20 21 22 23											
			23	End of Boring at 23 Ft.										

Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number MW-12BR	
Boring Drilled By (Firm name and name of crew chief) Bergerson-Caswell, Crew Chief: Glenn Holmen			Date Drilling Started 11/15/94		Date Drilling Completed 11/15/94	
DNR Facility Well No.			WI Unique Well No.		Common Well Name MW-12BR	
Final Static Water Level Feet MSL			Surface Elevation 757.0 Feet MSL		Borehole Diameter 12/8 Inches	
Boring Location State Plane 490109.27 N, 2544471.09 E			Lat ° ' "		Local Grid Location (If applicable)	
SW 1/4 of SE 1/4 of Section 13 T 10 N,R 21E			Long ° ' "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee			DNR County Code 46		Civil Town/City/ or Village Grafton	

Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Blind drilled to 35 feet. See boring log for SB11VOC; for description. 8" steel casing set to 35 feet with cement.										

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

Signature <i>Lisa A. Bjerveck</i>	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
--------------------------------------	--

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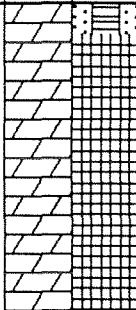
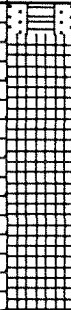
Boring Number **MW-12BR** Use only as an attachment to Form 4400-122.

Page 2 of 3

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
Number	Length (In) Recovered								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	<p>DOLOMITE BEDROCK, very pale brown 10YR 7/4 to dark gray 10YR 4/1, angular chips, circulation loss is minimal.</p> <p>Void from 50 to 54 feet, clay in airstream.</p>										

Boring Number **MW-12BR** Use only as an attachment to Form 4400-122.

Page 3 of 3

Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			54 55 56 57 58 59 60	End of Boring at 60 Ft.										

Facility/Project Name Tecumseh Products Co. 3084.05			License/Permit/Monitoring Number		Boring Number MW-13BR	
Boring Drilled By (Firm name and name of crew chief) Bergerson-Caswell, Crew Chief: Glenn Holmen			Date Drilling Started 11/16/94		Date Drilling Completed 11/18/94	
DNR Facility Well No.		WI Unique Well No.	Common Well Name MW-13BR		Final Static Water Level Feet MSL	
					Surface Elevation 757.4 Feet MSL	
					Borehole Diameter 12/8 Inches	
Boring Location State Plane 490094.25 N, 2544468.45 E			Lat 0° "		Local Grid Location (If applicable)	
SW 1/4 of SE 1/4 of Section 13 T 10 N, R 21E			Long 0° "		<input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
County Ozaukee			DNR County Code 46		Civil Town/City/ or Village Grafton	

Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Blind drilled to 60 feet. See boring logs for SB11VOC and MW-12BR, for description. 8" steel casing set to 60 feet with cement.										

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

Signature <i>Lisa J. Trzevecchi</i>	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
--	--

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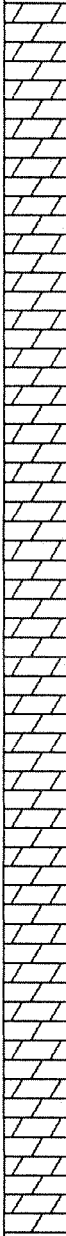

Boring Number **MW-13BR** Use only as an attachment to Form 4400-122.

Page 2 of 6

Number	Sample		Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments	
	Length (In) Recovered	Blow Counts							Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												
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			53												

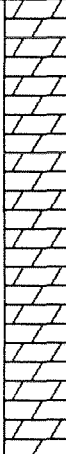
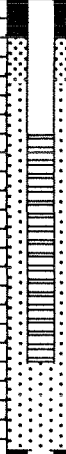
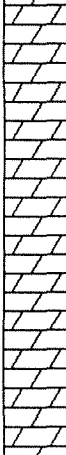

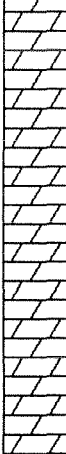

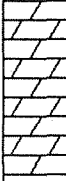
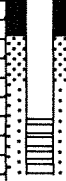
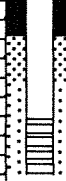
Boring Number **MW-13BR** Use only as an attachment to Form 4400-122.

Page 3 of 6

Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments					
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200						
			54 55 56 57 58 59 60																
			61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86	<p>DOLOMITE BEDROCK, very pale brown 10YR 8/3, angular chips.</p> <p>Circulation loss, minimal to none. No significant fractures noted during drilling.</p> <p>As above.</p>															

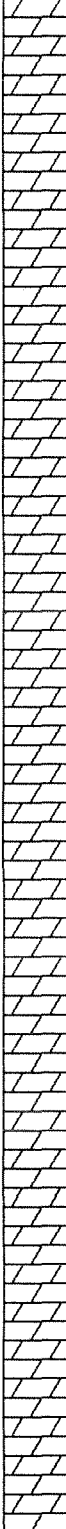

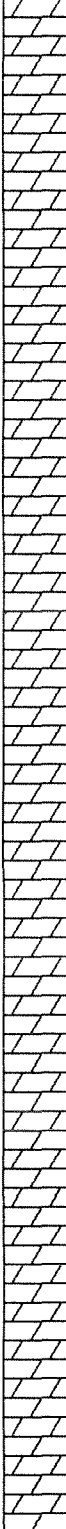

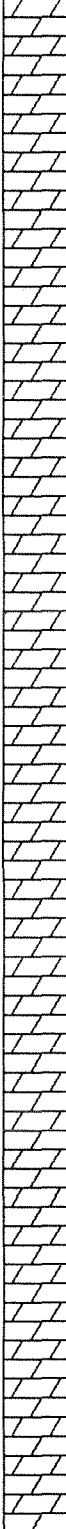

Boring Number **MW-13BR** Use only as an attachment to Form 4400-122.

Page 4 of 6

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			87	As above.										
			88											
			89											
			90											
			91											
			92											
			93											
			94											
			95											
			96											
			97	As above, very pale brown 10YR 7/3.										
			98											
			99											
			100											
			101											
			102											
			103											
			104											
			105											
			106											
			107	As above.										
			108											
			109											
			110											
			111											
			112											
			113											
			114											
			115											
			116											
			117											
			118											
			119											
			120											

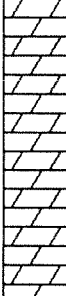

Boring Number **MW-13BR** Use only as an attachment to Form 4400-122.

Page 5 of 6



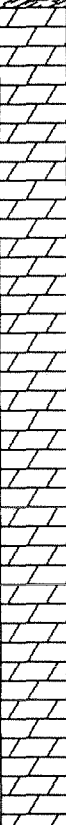

Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			121	As above.										
			122											
			123											
			124											
			125											
			126											
			127											
			128											
			129											
			130	As above.										
			131											
			132											
			133											
			134											
			135											
			136											
			137											
			138											
			139	As above, very pale brown 10YR 7/4.										
			140											
			141											
			142											
			143											
			144											
			145											
			146											
			147											
			148											
			149											
			150											
			151											
			152											
			153											

Boring Number **MW-13BR** Use only as an attachment to Form 4400-122.

Page 6 of 6

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			154 155 156 157 158 159 160	As above, very pale brown 10YR 8/3.										
			160	End of Boring at 160 Ft.										

Facility/Project Name Tecumseh Products Co. 3084.05		License/Permit/Monitoring Number		Boring Number MW-14BR	
Boring Drilled By (Firm name and name of crew chief) Bergerson-Caswell, Crew Chief: Glenn Holmen		Date Drilling Started 11/29/94		Date Drilling Completed 11/29/94	
DNR Facility Well No.		WI Unique Well No.		Common Well Name MW-14BR	
Final Static Water Level Feet MSL		Surface Elevation 749.0 Feet MSL		Borehole Diameter 8.0 Inches	
Boring Location State Plane 489343.47 N, 2545683.58 E SE 1/4 of SE 1/4 of Section 13 T 10 N, R 21 E		Lat 09° " Long 09° "		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Ozaukee		DNR County Code 46		Civil Town/City/ or Village Grafton	

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			1	Hit bedrock at ~2 feet. Set 8" steel casing to 3.5 feet.										
			2	DOLOMITE BEDROCK , light brownish gray 10YR 6/2, scattered clay balls, hard. Circulation loss-minimal to none. No significant fractures noted during drilling. As above, platy chips, no noticeable clay balls. Penetration rate ~0.8 ft/min.										
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											
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			15											
			16											
			17											
			18											
			19											
			20											

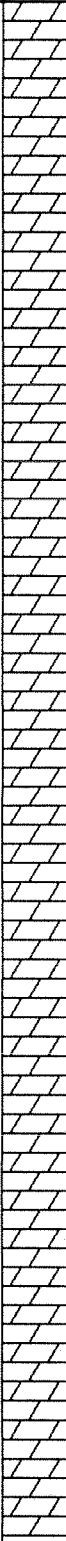

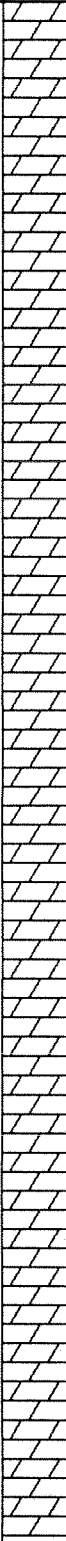

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Lisa S. Bergerson</i>	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
---------------------------------------	--

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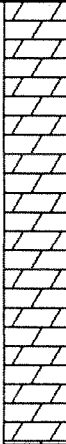

Boring Number **MW-14BR** Use only as an attachment to Form 4400-122.

Page 2 of 3

Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			21	As above.										
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											
			33											
			34											
			35											
			36	As above, some of the dolomite chips are yellowish red (iron-stained).										
			37											
			38											
			39											
			40											
			41											
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50											
			51											
			52											
			53											

Boring Number **MW-14BR** Use only as an attachment to Form 4400-122.

Page 3 of 3

Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			54 55 56 57 58 59 60 61 62 63	As above, very pale brown 10YR 7/4, no iron-staining.										
			63	End of Boring at 63 Ft.										

Facility/Project Name Tecumseh Products Co. 3084.05		License/Permit/Monitoring Number		Boring Number MW-15BR	
Boring Drilled By (Firm name and name of crew chief) Bergerson-Caswell, Crew Chief: Glenn Holmen		Date Drilling Started 11/30/94		Date Drilling Completed 12/2/94	
DNR Facility Well No.		WI Unique Well No.		Common Well Name MW-15BR	
Final Static Water Level Feet MSL		Surface Elevation 752.2 Feet MSL		Borehole Diameter 12/8 Inches	
Boring Location State Plane 489953.55 N, 2545873.70 E SE 1/4 of SE 1/4 of Section 13 T 10 N,R 21E				Local Grid Location (If applicable) Lat ° ' " <input type="checkbox"/> N <input type="checkbox"/> E Long ° ' " Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
County Ozaukee		DNR County Code 46		Civil Town/City/ or Village Grafton	

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			1-17	Blind drilled to 17.5 ft. See boring log for SB17VOC for description. 8" steel casing set to 17.5 feet (no cement).										
			18-20	DOLOMITE BEDROCK , little clay, light brownish gray 10YR 6/2, hard.										

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

Signature <i>Loa J. Bergerson</i>	Firm RMT 744 Heartland Trail, Madison Wisconsin Tel: 608-831-4444, Fax: 608-831-3334
--------------------------------------	--

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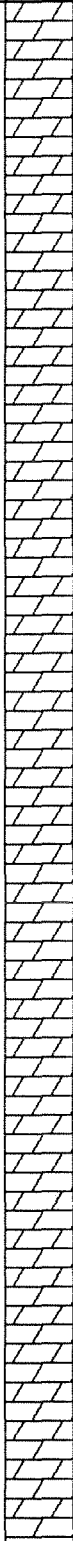

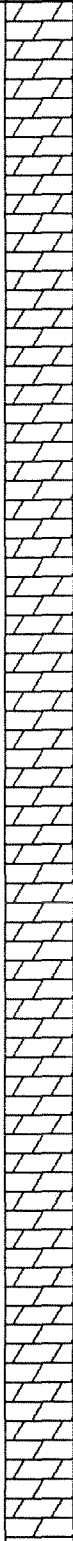

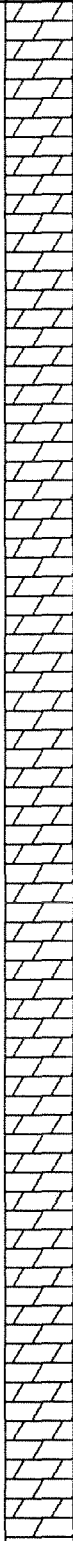

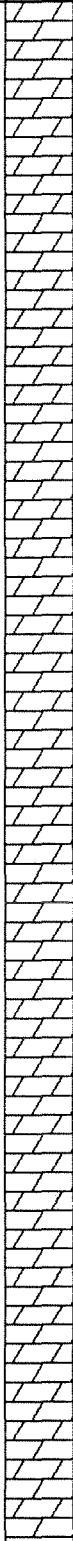

Boring Number **MW-15BR** Use only as an attachment to Form 4400-122.

Page 2 of 6

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
Number	Length (In) Recovered								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			21	<p>2' shaley zone at ~30 feet. Soft drilling.</p> <p>As above, no clay.</p>										
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											
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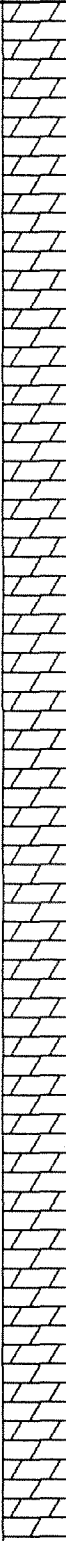

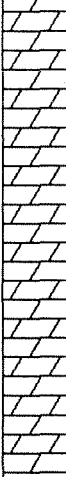

Boring Number **MW-15BR** Use only as an attachment to Form 4400-122.

Page 3 of 6

Sample Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			54	As above, light gray 10YR 7/2.										
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64	As above, very pale brown 10YR 7/3.										
			65											
			66											
			67											
			68											
			69											
			70											
			71											
			72											
			73											
			74	Penetration rate = 0.8 ft/min., circulation loss minimal to none.										
			75											
			76											
			77											
			78											
			79											
			80											
			81											
			82											
			83											
			84											
			85											
			86											

Boring Number **MW-15BR** Use only as an attachment to Form 4400-122.

Page 4 of 6

Number	Sample		Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
	Length (In) Recovered	Blow Counts							Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			87	As above.										
			88											
			89											
			90											
			91											
			92											
			93											
			94											
			95											
			96											
			97	As above, very pale brown 10YR 8/3.										
			98											
			99											
			100											
			101											
			102											
			103											
			104											
			105											
			106											
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			112											
			113											
			114											
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			119											
			120											

Boring Number **MW-15BR** Use only as an attachment to Form 4400-122.

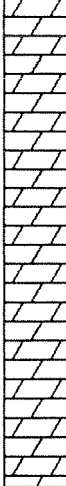
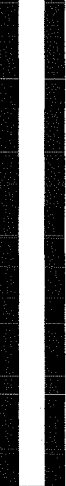
Page 5 of 6

Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			121	As above.										
			122											
			123											
			124											
			125											
			126											
			127											
			128											
			129											
			130											
			131	As above, pale brown 10YR 6/3.										
			132											
			133											
			134											
			135											
			136											
			137											
			138											
			139											
			140											
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			152											
			153											

46

Boring Number **MW-15BR** Use only as an attachment to Form 4400-122.

Page 6 of 6

Number	Sample Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			154 155 156 157 158 159 160 161 162 163 164	As above.										
				End of Boring at 164 Ft.										

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

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location SB-9VOC	County Ozaukee	Original Well Owner (If Known)	
SW 1/4 of SE 1/4 of Sec. 13 ; T. 10 N. R. 21 (If applicable)		Present Well Owner Tecumseh Products	
Gov't Lot _____ Grid Number _____		Street or Route 900 North Street	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Grafton, WI	
Civil Town Name Grafton		Facility Well No. and/or Name (If Applicable) SB-9VOC	WI Unique Well No. _____
Street Address of Well 900 North Street		Reason For Abandonment No longer needed	
City, Village Grafton		Date of Abandonment 11-9-94	

WELL/DRILLHOLE/BOREHOLE INFORMATION			
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 11-9-94		(4) Depth to Water (Feet) 10.0	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		(5) Required Method of Placing Sealing Material	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)		(6) Sealing Materials	
Casing Depth (ft.) _____		For monitoring wells and monitoring well boreholes only	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		<input type="checkbox"/> Near Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	
		<input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Chips	Surface	40.8	16 bags	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work WED Environmental Drilling	
Signature of Person Doing Work 	Date Signed 12/5/94
Street or Route 101 Alderson St.	Telephone Number (715) 359-7090
City, State, Zip Code Schofield, WI 54476	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

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

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location SB-10VOC	County Ozaukee	Original Well Owner (If Known)	
SW 1/4 of SE 1/4 of Sec. 13 ; T. 10 N; R. 21 (If applicable)		Present Well Owner Tecumseh Products	
Gov't Lot _____ Grid Number _____		Street or Route 900 North Street	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Grafton, WI	
Civil Town Name Grafton		Facility Well No. and/or Name (If Applicable) SB-10VOC	WI Unique Well No. _____
Street Address of Well 900 North Street		Reason For Abandonment No longer needed	
City, Village Grafton		Date of Abandonment 11-7-94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 11-7-94</p> <p><input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole</p> <p>Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)</p> <p>Casing Depth (ft.) _____</p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) 12.0</p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite - Cement Grout <input checked="" type="checkbox"/> Chipped Bentonite</p>
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(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Chips	Surface	29.5	11 bags	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
WED Environmental Drilling

Signature of Person Doing Work <i>[Signature]</i>	Date Signed 12/5/94
Street or Route 101 Alderson St.	Telephone Number (715) 359-7090
City, State, Zip Code Schofield, WI 54476	

(10) FOR DNR OR COUNTY USE ONLY

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

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

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location SB-11VOC	County Ozaukee	Original Well Owner (If Known)	
(If applicable) SW 1/4 of SE 1/4 of Sec. 13 ; T. 10 N. R. 21 Gov't Lot _____ Grid Number _____		Present Well Owner Tecumseh Products	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Street or Route 900 North Street	
Civil Town Name Grafton		City, State, Zip Code Grafton, WI	
Street Address of Well 900 North Street		Facility Well No. and/or Name (If Applicable) SB-11VOC	WI Unique Well No. _____
City, Village Grafton		Reason For Abandonment No longer needed	
		Date of Abandonment 11-7-94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 11-7-94		(4) Depth to Water (Feet) 12.0	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)	Casing Depth (ft.) _____	(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		(6) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Chips	Surface	26.2	10 bags	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
WTD Environmental Drilling
Signature of Person Doing Work _____ Date Signed 12/5/94
Street or Route 101 Alderson St. Telephone Number (715) 359-7090
City, State, Zip Code Schofield, WI 54476

(10) FOR DNR OR COUNTY USE ONLY

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

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

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location SB-12VOC	County Ozaukee	Original Well Owner (If Known)	
SW 1/4 of SE 1/4 of Sec. 13 ; T. 10 N; R. 21 (If applicable)		Present Well Owner Tecumseh Products	
Gov't Lot _____ Grid Number _____		Street or Route 900 North Street	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Grafton, WI	
Civil Town Name Grafton		Facility Well No. and/or Name (If Applicable) SB-12VOC	WI Unique Well No. _____
Street Address of Well 900 North Street		Reason For Abandonment No longer needed	
City, Village Grafton		Date of Abandonment 11-8-94	

WELL/DRILLHOLE/BOREHOLE INFORMATION			
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 11-8-94		(4) Depth to Water (Feet) 12.0	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		(5) Required Method of Placing Sealing Material	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)		(6) Sealing Materials	
Casing Depth (ft.) _____		For monitoring wells and monitoring well boreholes only	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	
		<input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Chips	Surface	30.5	11 bags	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY
WID Environmental Drilling	Date Received/Inspected _____ District/County _____
Signature of Person Doing Work _____ Date Signed 12/5/94	Reviewer/Inspector _____
Street or Route 101 Alderson St.	Follow-up Necessary _____
City, State, Zip Code Schofield, WI 54476	

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

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location SB-13VOC	County Ozaukee	Original Well Owner (If Known)	
SW 1/4 of SE 1/4 of Sec. 13 ; T. 10 N. R. 21 (If applicable)		Present Well Owner Tecumseh Products	
Gov't Lot _____ Grid Number _____		Street or Route 900 North Street	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Grafton, WI	
Civil Town Name Grafton		Facility Well No. and/or Name (If Applicable) SB-13VOC	WI Unique Well No. _____
Street Address of Well 900 North Street		Reason For Abandonment No longer needed	
City, Village Grafton		Date of Abandonment 11-8-94	

WELL/DRILLHOLE/BOREHOLE INFORMATION			
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 11-8-94		(4) Depth to Water (Feet) 11.0	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		(5) Required Method of Placing Sealing Material	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)		(6) Sealing Materials	
Casing Depth (ft.) _____		For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite - Cement Grout <input checked="" type="checkbox"/> Chipped Bentonite	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet			

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Chips	Surface	30.8	11 bags	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY
WTD Environmental Drilling	Date Received/Inspected _____ District/County _____
Signature of Person Doing Work <i>[Signature]</i>	Reviewer/Inspector _____
Date Signed 12/5/94	Follow-up Necessary _____
Street or Route 101 Alderson St.	
Telephone Number (715) 359-7090	
City, State, Zip Code Schofield, WI 54476	

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

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location SB-14VOC	County Ozaukee	Original Well Owner (If Known)	
SW 1/4 of SE 1/4 of Sec. 13 ; T. 10 N. R. 21 (If applicable)		Present Well Owner Tecumseh Products	
Gov't Lot _____ Grid Number _____		Street or Route 900 North Street	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Grafton, WI	
Civil Town Name Grafton		Facility Well No. and/or Name (If Applicable) SB-14VOC	WI Unique Well No. _____
Street Address of Well 900 North Street		Reason For Abandonment No longer needed	
City, Village Grafton		Date of Abandonment 11-9-94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 11-9-94</p> <p><input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole</p> <p>Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)</p> <p>Casing Depth (ft.) _____</p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) 17.5</p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite</p> <p><input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout</p>
---	---

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Chips	Surface	45.0	16 bags	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
WID Environmental Drilling

Signature of Person Doing Work: _____ Date Signed: 12/5/94

Street or Route: 101 Alderson St. Telephone Number: (715) 359-7090

City, State, Zip Code: Schofield, WI 54476

(10) FOR DNR OR COUNTY USE ONLY

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

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

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location SB-15VOC	County Ozaukee	Original Well Owner (If Known)	
SW 1/4 of SE 1/4 of Sec. 13 ; T. 10 N; R. 21 (If applicable)		Present Well Owner Tecumseh Products	
Gov't Lot	Grid Number	Street or Route 900 North Street	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Grafton, WI	
Civil Town Name Grafton		Facility Well No. and/or Name (If Applicable) SB-15VOC	WI Unique Well No. _____
Street Address of Well 900 North Street		Reason For Abandonment No longer needed & Auger Refusal	
City, Village Grafton		Date of Abandonment 11-15-94	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 11-15-94		(4) Depth to Water (Feet) 12.0	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify)		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		If No, Explain _____	
Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface)		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No	Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Casing Depth (ft.) _____		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		(5) Required Method of Placing Sealing Material	
		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	<input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain)
		(6) Sealing Materials	
		<input type="checkbox"/> Neat Cement Grout	For monitoring wells and monitoring well boreholes only
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	
		<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Pellets
		<input type="checkbox"/> Clay-Sand Slurry	<input type="checkbox"/> Granular Bentonite
		<input type="checkbox"/> Bentonite-Sand Slurry	<input type="checkbox"/> Bentonite - Cement Grout
		<input checked="" type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Chips	Surface	25.5	12 bags	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work WTD Environmental Drilling	
Signature of Person Doing Work	Date Signed 12/5/94
Street or Route 101 Alderson St.	Telephone Number (715) 359-7090
City, State, Zip Code Schofield, WI 54476	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

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

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location SB-17VOC	County Ozaukee	Original Well Owner (If Known)	
SE 1/4 of SE 1/4 of Sec. 13 ; T. 10 N. R. 21 (If applicable)		Present Well Owner Tecumseh Products	
Gov't Lot	Grid Number	Street or Route 900 North Street	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Grafton, WI	
Civil Town Name Grafton		Facility Well No. and/or Name (If Applicable) SB-17VOC	WI Unique Well No.
Street Address of Well 919 14th Avenue		Reason For Abandonment No longer needed	
City, Village Grafton		Date of Abandonment 11-15-94	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 11-15-94	(4) Depth to Water (Feet) none
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____
Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	(5) Required Method of Placing Sealing Material
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____
Total Well Depth (ft.) _____ Casing Diameter (ins.) _____ (From ground surface) Casing Depth (ft.) _____	(6) Sealing Materials For monitoring wells and monitoring well boreholes only
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Chips	Surface	18.0	6 bags	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work WTD Environmental Drilling	
Signature of Person Doing Work	Date Signed 12/5/94
Street or Route 101 Alderson St.	Telephone Number (715) 359-7090
City, State, Zip Code Schofield, WI 54476	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

55/5

APPENDIX B
WELL CONSTRUCTION AND DEVELOPMENT DOCUMENTATION

Facility/Project Name Tecumseh Products Company 3084.05	Local Grid Location of Well <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW-11
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 <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	St. Plane 490320.66 ft. N, 2543777.35 ft. E.	Date Well Installed 11 / 14 / 94 M M D D Y Y
Distance Well is From Waste/Source Boundary ft.	Section Location of Waste/Source <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: (Persons' Name and Firm)
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source U <input checked="" type="checkbox"/> Upgradient S <input type="checkbox"/> Sidegradient D <input type="checkbox"/> Downgradient N <input type="checkbox"/> Not Known	Dan Zielazowski WTD Environmental Drilling

A. Protective pipe, top elevation 769.67 ft. MSL
 B. Well casing, top elevation 769.55 ft. MSL
 C. Land surface elevation 767.1 ft. MSL
 D. Surface seal, bottom 766.6 ft. MSL or 0.5 ft.

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

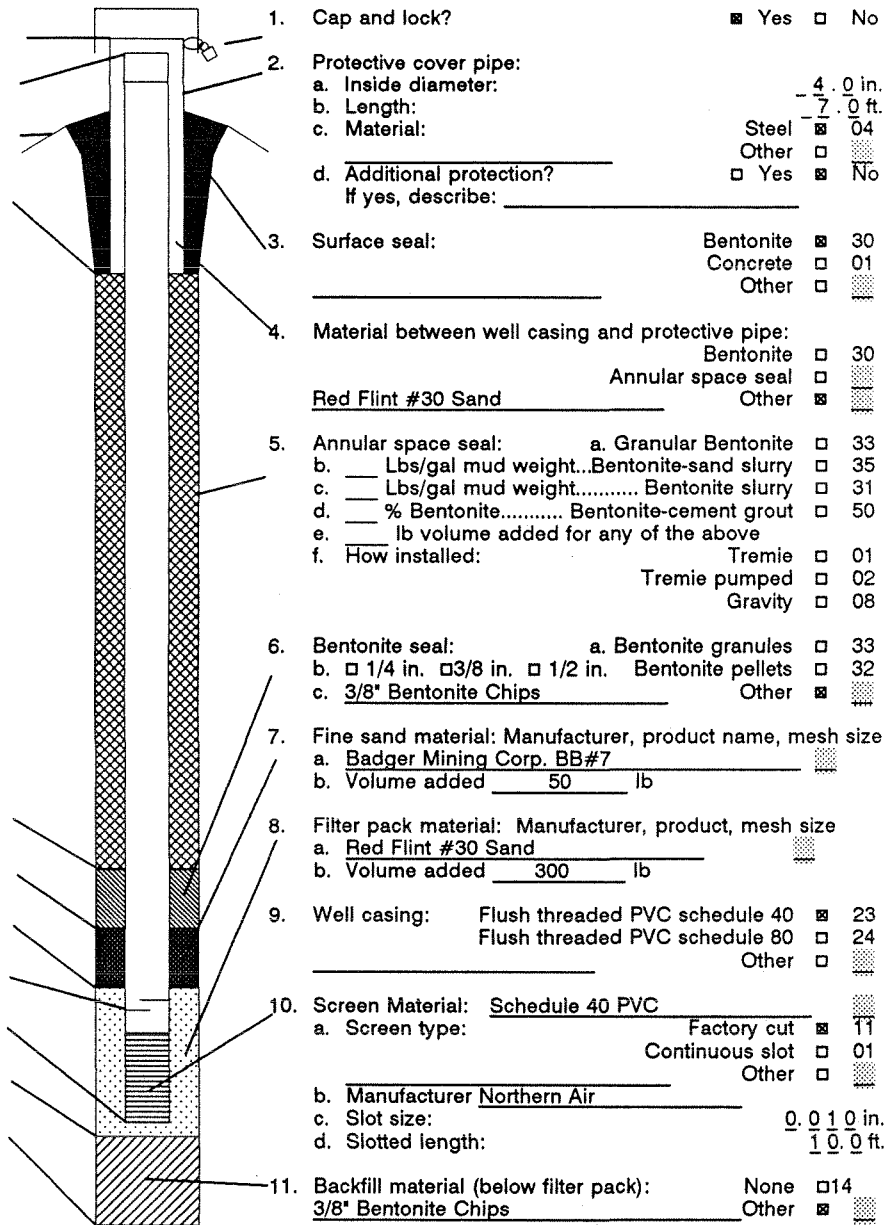
13. Sieve analysis attached? Yes No

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 766.6 ft. MSL or 0.5 ft.
 F. Fine sand, top 759.1 ft. MSL or 8.0 ft.
 G. Filter pack, top 757.1 ft. MSL or 10.0 ft.
 H. Screen joint, top 755.1 ft. MSL or 12.0 ft.
 I. Well bottom 745.1 ft. MSL or 22.0 ft.
 J. Filter pack, bottom 743.1 ft. MSL or 24.0 ft.
 K. Borehole, bottom 739.1 ft. MSL or 28.0 ft.
 L. Borehole, diameter 8.3 in.
 M. O.D. well casing 2.38 in.
 N. I.D. well casing 2.00 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature John C. Oswald Firm RMT, 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. Adm. 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 \$5,000 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.

1/11

Facility/Project Name Tecumseh Products Company 3084.05	Local Grid Location of Well <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. ft. <input type="checkbox"/> W.	Well Name MW-12
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 <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	St. Plane 490118.90 ft. N, 2544474.27 ft. E.	Date Well Installed 11 / 14 / 94 M M D D Y Y
Distance Well is From Waste/Source Boundary ft.	Section Location of Waste/Source <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: (Persons' Name and Firm) Dan Zielazowski WTD Environmental Drilling
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source U <input type="checkbox"/> Upgradient S <input type="checkbox"/> Sidegradient D <input checked="" type="checkbox"/> Downgradient N <input type="checkbox"/> Not Known	

- A. Protective pipe, top elevation 759.56 ft. MSL
- B. Well casing, top elevation 759.51 ft. MSL
- C. Land surface elevation 757.1 ft. MSL
- D. Surface seal, bottom 756.6 ft. MSL or 0.5 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

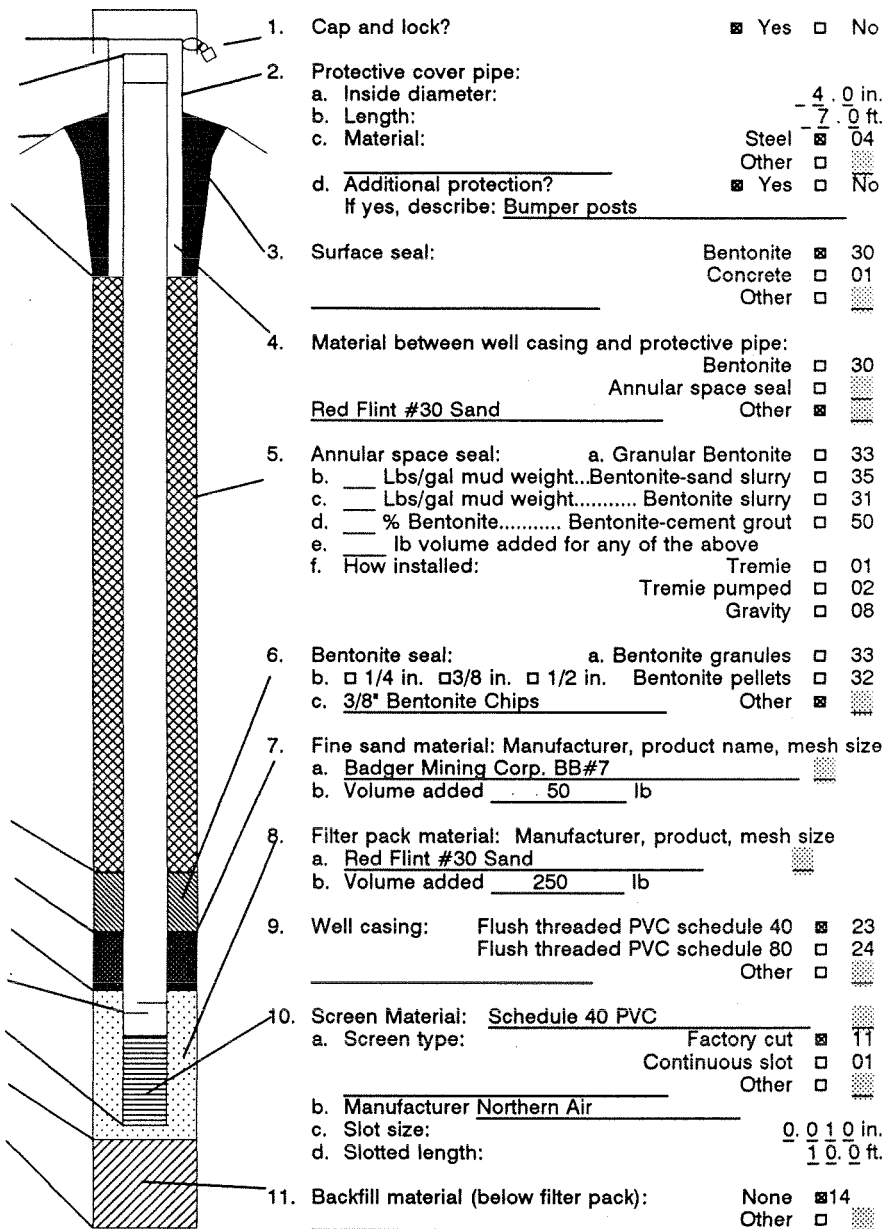
14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Other

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 756.6 ft. MSL or 0.5 ft.
- F. Fine sand, top 749.1 ft. MSL or 8.0 ft.
- G. Filter pack, top 747.1 ft. MSL or 10.0 ft.
- H. Screen joint, top 745.1 ft. MSL or 12.0 ft.
- I. Well bottom 735.1 ft. MSL or 22.0 ft.
- J. Filter pack, bottom 734.1 ft. MSL or 23.0 ft.
- K. Borehole, bottom 734.1 ft. MSL or 23.0 ft.
- L. Borehole, diameter 8.3 in.
- M. O.D. well casing 2.38 in.
- N. I.D. well casing 2.00 in.



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

Signature

John Oswald

Firm

RMT, 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. Adm. 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 \$5,000 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.

Facility/Project Name Tecumseh Products Company 3084.05	Local Grid Location of Well <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW-12BR
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 <input type="checkbox"/> 11 Piezometer <input checked="" type="checkbox"/> 12	St. Plane 490109.27 ft. N, 2544471.09 ft. E.	Date Well Installed 11 / 16 / 94 MM DD YY
Distance Well is From Waste/Source Boundary ft.	Section Location of Waste/Source SW $\frac{1}{4}$ of SE $\frac{1}{4}$ of Sec.13, T10N, R21 <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: (Persons' Name and Firm)
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source U <input type="checkbox"/> Upgradient S <input type="checkbox"/> Sidegradient D <input checked="" type="checkbox"/> Downgradient N <input type="checkbox"/> Not Known	Glenn Holmen Bergerson-Caswell, Inc.

A. Protective pipe, top elevation 759.64 ft. MSL
 B. Well casing, top elevation 759.43 ft. MSL
 C. Land surface elevation 757.0 ft. MSL
 D. Surface seal, bottom 757.0 ft. MSL or 0.0 ft.

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

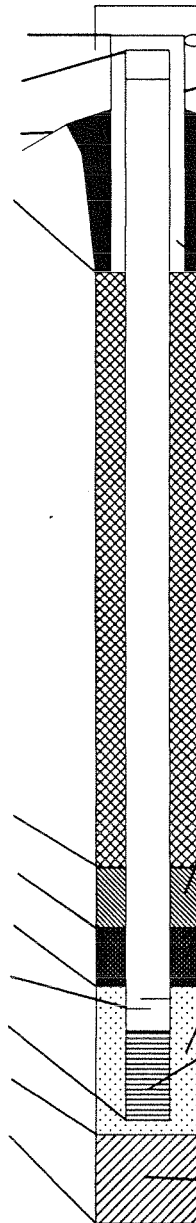
13. Sieve analysis attached? Yes No

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): _____



1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: 8.0 in.
 b. Length: 37.6 ft.
 c. Material: Steel 04
 Other
 d. Additional protection? Yes No
 If yes, describe: Bumper posts

3. Surface seal: Bentonite 30
 Concrete 01
 Other

4. Material between well casing and protective pipe:
 Bentonite 30
 Annular space seal
 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. lb 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. 3/8" Bentonite Chips Other

7. Fine sand material: Manufacturer, product name, mesh size
 a. American Materials 45/55 mesh
 b. Volume added 50 lb

8. Filter pack material: Manufacturer, product, mesh size
 a. Red Flint #30 Sand
 b. Volume added 1,900 lb

9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other

10. Screen Material: Schedule 80 PVC
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
 b. Manufacturer Timco Mfg., Inc.
 c. Slot size: 0.010 in.
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None 14
Native clay material from void in bedrock Other

E. Bentonite seal, top 757.0 ft. MSL or 0.0 ft.
 F. Fine sand, top 710.0 ft. MSL or 47.0 ft.
 G. Filter pack, top 709.0 ft. MSL or 48.0 ft.
 H. Screen joint, top 708.0 ft. MSL or 49.0 ft.
 I. Well bottom 703.0 ft. MSL or 54.0 ft.
 J. Filter pack, bottom 703.0 ft. MSL or 54.0 ft.
 K. Borehole, bottom 697.0 ft. MSL or 60.0 ft.
 L. Borehole, diameter 8.0 in.
 M. O.D. well casing 3.50 in.
 N. I.D. well casing 2.82 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature Lisa J. Jewach Firm RMT, 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. Adm. 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 \$5,000 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.

Facility/Project Name Tecumseh Products Company 3084.05	Local Grid Location of Well <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. ft. <input type="checkbox"/> W.	Well Name MW-14BR
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 <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	St. Plane 489343.47 ft. N, 2545683.58 ft. E.	Date Well Installed 12 / 06 / 94 M M D D Y Y
Distance Well is From Waste/Source Boundary ft.	Section Location of Waste/Source SE¼ of SE¼ of Sec.13, T10N, R21 <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: (Persons' Name and Firm) Glenn Holmen Bergerson-Caswell, Inc.
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source U <input type="checkbox"/> Upgradient S <input type="checkbox"/> Sidegradient D <input type="checkbox"/> Downgradient N <input type="checkbox"/> Not Known	

- A. Protective pipe, top elevation 749.00 ft. MSL
- B. Well casing, top elevation 748.79 ft. MSL
- C. Land surface elevation 749.0 ft. MSL
- D. Surface seal, bottom 748.5 ft. MSL or 0.5 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

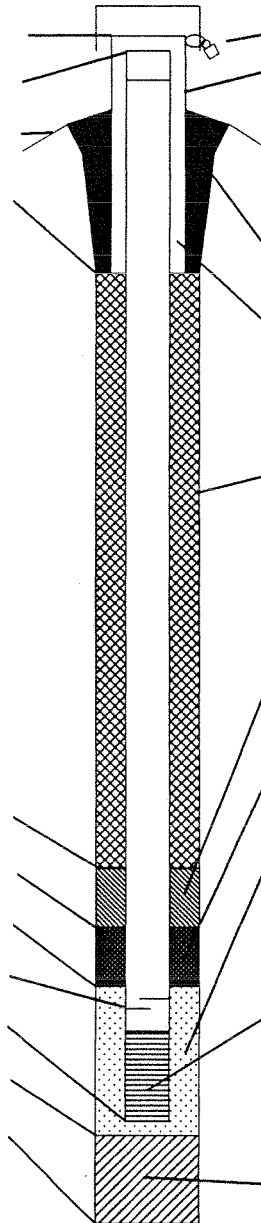
14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Other

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 748.5 ft. MSL or 0.5 ft.
- F. Fine sand, top 736.0 ft. MSL or 13.0 ft.
- G. Filter pack, top 734.0 ft. MSL or 15.0 ft.
- H. Screen joint, top 729.0 ft. MSL or 20.0 ft.
- I. Well bottom 714.0 ft. MSL or 35.0 ft.
- J. Filter pack, bottom 712.5 ft. MSL or 36.5 ft.
- K. Borehole, bottom 686.0 ft. MSL or 63.0 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 3.50 in.
- N. I.D. well casing 2.82 in.



1. Cap and lock? Yes No
2. Protective cover pipe:
a. Inside diameter: 12.0 in.
b. Length: 1.0 ft.
c. Material: Steel 04
Other
- d. Additional protection? Yes No
If yes, describe: 8" steel casing to 3.5 feet
3. Surface seal: Bentonite 30
Concrete 01
Other
4. Material between well casing and protective pipe:
Bentonite 30
Annular space seal
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. ___ lb 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. 3/8" Bentonite Chips Other
7. Fine sand material: Manufacturer, product name, mesh size
a. American Materials 45/55 mesh
b. Volume added 75 lb
8. Filter pack material: Manufacturer, product, mesh size
a. Red Flint #30 Sand
b. Volume added 650 lb
9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other
10. Screen Material: Schedule 80 PVC
a. Screen type: Factory cut 11
Continuous slot 01
Other
b. Manufacturer Timco Mfg., Inc.
c. Slot size: 0.010 in.
d. Slotted length: 15.0 ft.
11. Backfill material (below filter pack): None 14
3/8" Bentonite Chips Other

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

Signature Lisa J. Bergerson Firm RMT, 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. Adm. 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 \$5,000 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.

Facility/Project Name Tecumseh Products Company	Grid Origin Location St. Plane 489622.38 ft. N, 2544422.27 ft. E.	Well Name MW-3BR
Date Well Installed 11/18/94	Section Location of Waste/Source SW 1/4 of SE 1/4 of Sec.13, T.10 N, R.21 <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: (Person's Name and Firm) Glenn Holmen, crew chief Bergerson-Caswell, Inc.

Protective pipe, top elevation 758.59 ft. MSL Cap and lock? Yes No

Well casing, top elevation 757.82 ft. MSL Wellhead manifold for Multi-Port Monitoring System

Land surface elevation 758.7 ft. MSL Protective cover pipe: (Flush Mount)

Bentonite seal, top 757.2 ft. MSL or 1.5 ft. a. Inside diameter: 12.0 in.

USCS classification of soil near screen: Bedrock b. Length: 1.0 ft.

Drilling method used: Rotary c. Material: Steel

Hollow Stem Auger

Drilling fluid used: Water Air 8" steel casing to 40 feet. Cemented in place.

Drilling Mud None

Well casing: Flush threaded PVC schedule 40
Flush threaded PVC schedule 80

Fine sand, top 704.7 ft. MSL or 54.0 ft. Bentonite seal: 3/8" Bentonite Chips (1,000 lb.)

Filter pack, top 703.7 ft. MSL or 55.0 ft. Fine sand material: American Materials 45/55 mesh (50#)

Packer, bottom 703.2 ft. MSL or 55.5 ft. SAMPLING PORT #1

Screen joint, top 702.7 ft. MSL or 56.0 ft. Filter pack material: Red Flint #30 sand (275 lb.)

Transducer, Port 1 702.00 ft. MSL or 56.7 ft. Bentonite seal: 3/8" Bentonite Chips (600 lb.)

Screen joint, bottom 697.7 ft. MSL or 61.0 ft. Fine sand material: American Materials 45/55 mesh (50#)

Packer, top 695.7 ft. MSL or 63.0 ft. Filter pack material: Red Flint #30 sand (275 lb.)

Filter pack, bottom 695.7 ft. MSL or 63.0 ft. Permanent self-inflating Dow packer

Fine sand, top 660.7 ft. MSL or 98.0 ft. Bentonite seal: 3/8" Bentonite Chips (520 lb.)

Filter pack, top 659.7 ft. MSL or 99.0 ft. Fine sand material: American Materials 45/55 mesh (50#)

Packer, bottom 659.7 ft. MSL or 99.0 ft. Filter pack material: Red Flint #30 sand (275 lb.)

Screen joint, top 658.7 ft. MSL or 100.0 ft. SAMPLING PORT #2

Transducer, Port 2 658.54 ft. MSL or 100.2 ft. Bentonite seal: 3/8" Bentonite Chips (520 lb.)

Screen joint, bottom 653.7 ft. MSL or 105.0 ft. Fine sand material: American Materials 45/55 mesh (50#)

Packer, top 652.2 ft. MSL or 106.5 ft. Filter pack material: Red Flint #30 sand (300 lb.)

Filter pack, bottom 651.7 ft. MSL or 107.0 ft. SAMPLING PORT #3

Fine sand, top 621.7 ft. MSL or 137.0 ft. Screen material: Schedule 80 PVC

Filter pack, top 620.7 ft. MSL or 138.0 ft. a. Screen type: Factory Cut

Packer, bottom 620.2 ft. MSL or 138.5 ft. b. Manufacturer: Timco Co.

Transducer, Port 3 620.00 ft. MSL or 138.7 ft. c. Slot size: 0.010 in.

Screen joint, top 619.7 ft. MSL or 139.0 ft. d. Slotted length: 5.0 ft.

Screen joint, bottom 614.7 ft. MSL or 144.0 ft. Backfill material (below filter pack):

Filter pack, bottom 612.7 ft. MSL or 146.0 ft. None

Borehole, bottom 598.7 ft. MSL or 160.0 ft. 3/8" Bentonite Chips (400 lb.)

Borehole, diameter 8.0 in.

O.D. well casing 3.50 in.

I.D. well casing 2.82 in.

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

Signature Lisa J. Bergerson Firm RMT, Inc.

Facility/Project Name Tecumseh Products Company	Grid Origin Location St. Plane 490094.25 ft. N, 2544468.45 ft. E.	Well Name MW-13BR
Date Well Installed 11/21/94	Section Location of Waste/Source SW 1/4 of SE 1/4 of Sec.13, T.10 N, R.21 <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: (Person's Name and Firm) Glenn Holmen, crew chief Bergeron-Caswell, Inc.

Protective pipe, top elevation 759.88 ft. MSL

Well casing, top elevation _____ ft. MSL

Land surface elevation 757.4 ft. MSL

Bentonite seal, top 757.4 ft. MSL or 0.0 ft.

USCS classification of soil near screen: Bedrock

Drilling method used: Rotary
 Hollow Stem Auger

Drilling fluid used: Water Air
 Drilling Mud None

Cap and lock? Yes No

Wellhead manifold for Multi-Port Monitoring System

Protective cover pipe: (Stickup well casing)
 a. Inside diameter: 8.0 in.
 b. Length: 2.5 ft.
 c. Material: Steel

8" steel casing to 60 feet. Cemented in place.

Well casing: Flush threaded PVC schedule 40
 Flush threaded PVC schedule 80

Bentonite seal: 3/8" Bentonite Chips (1,475 lb.)

Fine sand material: American Materials 45/55 mesh (50#)

SAMPLING PORT #1

Filter pack material: Red Flint #30 sand (275 lb.)

Bentonite seal: 3/8" Bentonite Chips (350 lb.)

Fine sand material: American Materials 45/55 mesh (50#)

Filter pack material: Red Flint #30 sand (250 lb.)

SAMPLING PORT #2

Permanent self-inflating Dow packer

Bentonite seal: 3/8" Bentonite Chips (400 lb.)

Fine sand material: American Materials 45/55 mesh (50#)

Filter pack material: Red Flint #30 sand (400 lb.)

SAMPLING PORT #3

Screen material: Schedule 80 PVC
 a. Screen type: Factory Cut
 b. Manufacturer: Timco Co.
 c. Slot size: 0.010 in.
 d. Slotted length: 5.0 ft.

Backfill material (below filter pack): None
 Other

Fine sand, top 669.9 ft. MSL or 87.5 ft.

Filter pack, top 668.9 ft. MSL or 88.5 ft.

Packer, bottom 668.4 ft. MSL or 89.0 ft.

Screen joint, top 667.8 ft. MSL or 89.6 ft.

Transducer, Port 1 666.04 ft. MSL or 91.4 ft.

Screen joint, bottom 662.8 ft. MSL or 94.6 ft.

Filter pack, bottom 660.9 ft. MSL or 96.5 ft.

Packer, top 659.9 ft. MSL or 97.5 ft.

Fine sand, top 640.4 ft. MSL or 117.0 ft.

Filter pack, top 639.4 ft. MSL or 118.0 ft.

Packer, bottom 638.9 ft. MSL or 118.5 ft.

Screen joint, top 638.6 ft. MSL or 118.8 ft.

Transducer, Port 2 637.51 ft. MSL or 119.9 ft.

Screen joint, bottom 633.6 ft. MSL or 123.8 ft.

Packer, top 631.4 ft. MSL or 126.0 ft.

Filter pack, bottom 631.4 ft. MSL or 126.0 ft.

Fine sand, top 606.4 ft. MSL or 151.0 ft.

Filter pack, top 605.4 ft. MSL or 152.0 ft.

Packer, bottom 605.4 ft. MSL or 152.0 ft.

Screen joint, top 604.4 ft. MSL or 153.0 ft.

Transducer, Port 3 604.06 ft. MSL or 153.3 ft.

Screen joint, bottom 599.4 ft. MSL or 158.0 ft.

Filter pack, bottom 597.4 ft. MSL or 160.0 ft.

Borehole, bottom 597.4 ft. MSL or 160.0 ft.

Borehole, diameter 8.0 in.

O.D. well casing 3.50 in.

I.D. well casing 2.82 in.

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

Signature Lisa J. Agnew

Firm RMT, Inc.

Facility/Project Name Tecumseh Products Company	Grid Origin Location St. Plane 489953.55 ft. N, 2545873.70 ft. E.	Well Name MW-15BR
Date Well Installed 12/02/94	Section Location of Waste/Source SE 1/4 of SE 1/4 of Sec.13, T.10 N, R.21	Well Installed By: (Person's Name and Firm) Glenn Holmen, crew chief Bergerson-Caswell, Inc.

Protective pipe, top elevation 752.21 ft. MSL

Well casing, top elevation 751.01 ft. MSL

Land surface elevation 752.2 ft. MSL

Bentonite seal, top 750.7 ft. MSL or 1.5 ft.

USCS classification of soil near screen: Bedrock

Drilling method used: Rotary
 Holow Stem Auger

Drilling fluid used: Water Air
 Drilling Mud None

Cap and lock? Yes No

Wellhead manifold for Multi-Port Monitoring System

Protective cover pipe: (Flush Mount)
 a. Inside diameter: 12.0 in.
 b. Length: 1.0 ft.
 c. Material: Steel

8" steel casing to 17.5 feet.

Well casing: Flush threaded PVC schedule 40
 Flush threaded PVC schedule 80

Bentonite seal: 3/8" Bentonite Chips (500 lb.)

Fine sand, top 722.2 ft. MSL or 30.0 ft.

Packer, bottom 721.3 ft. MSL or 30.9 ft.

Filter pack, top 721.2 ft. MSL or 31.0 ft.

Screen joint, top 720.2 ft. MSL or 32.0 ft.

Transducer, Port 1 719.68 ft. MSL or 32.5 ft.

Screen joint, bottom 715.2 ft. MSL or 37.0 ft.

Packer, top 713.8 ft. MSL or 38.4 ft.

Filter pack, bottom 713.2 ft. MSL or 39.0 ft.

Fine sand material: American Materials 45/55 mesh (50#)

SAMPLING PORT #1

Filter pack material: Red Flint #30 sand (300 lb.)

Permanent self-inflating Dow packer

Bentonite seal: 3/8" Bentonite Chips (1,500 lb.)

Fine sand, top 629.2 ft. MSL or 123.0 ft.

Filter pack, top 628.0 ft. MSL or 124.0 ft.

Packer, bottom 627.8 ft. MSL or 124.4 ft.

Screen joint, top 627.0 ft. MSL or 125.0 ft.

Transducer, Port 2 626.20 ft. MSL or 126.0 ft.

Screen joint, bottom 622.2 ft. MSL or 130.0 ft.

Filter pack, bottom 620.0 ft. MSL or 132.0 ft.

Fine sand material: American Materials 45/55 mesh (50#)

Filter pack material: Red Flint #30 sand (300 lb.)

SAMPLING PORT #2

Screen material: Schedule 40 PVC
 a. Screen type: Factory Cut
 b. Manufacturer: Timco Co.
 c. Slot size: 0.010 in.
 d. Slotted length: 5.0 ft.

Borehole, bottom 588.2 ft. MSL or 164.0 ft.

Borehole, diameter 8.0 in.

O.D. well casing 3.50 in.

I.D. well casing 3.00 in.

Backfill material (below filter pack): None
3/8" Bentonite Chips (750 lb.) Other

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

Signature

Lisa J. Dzewicki

Firm

RMT, Inc.

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

Facility/Project Name Tecumseh Products Company 3084.05		County Name Ozaukee		Well Name MW-11	
Facility License, Permit or Monitoring Number		County Code 46	Wis. Unique Well Number		DNR Well Number
1. Can this well be purged dry?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Before Development	
2. Well development method		<input type="checkbox"/> 41 <input type="checkbox"/> 61 <input type="checkbox"/> 42 <input type="checkbox"/> 62 <input type="checkbox"/> 70 <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 51 <input type="checkbox"/> 50 <input type="checkbox"/> Other _____		11. Depth to Water (from top of well casing)	
3. Time spent developing well		___ 6 ___ min.		a. ___ 1 0 2 1 ft.	
4. Depth of well (from top of well casing)		___ 2 4.7 ft.		Date	
5. Inside diameter of well		___ 2.0 0 in.		b. <u>12/08/94</u>	
6. Volume of water in filter pack and well casing		___ 1 1.2 gal.		m m d d y y	
7. Volume of water removed from well		___ 1 6.0 gal.		Time	
8. Volume of water added (if any)		___ 0 ___ gal.		c. ___ 3:2 0 <input checked="" type="checkbox"/> p.m.	
9. Source of water added <u>N/A</u>				12. Sediment in well bottom	
10. Analysis performed on water added? (If yes, attach results)		<input type="checkbox"/> Yes <input type="checkbox"/> No		___ 0.0 inches	
16. Additional comments on development:		Bailed dry four times		13. Water clarity	
				Clear <input type="checkbox"/> 10	
				Turbid <input checked="" type="checkbox"/> 15	
				(Describe)	
				Brown, very turbid	
				Brown, very 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	

Well developed by: Person's Name and Firm		I hereby certify that the above information is true and correct to the best of my knowledge.	
Name: <u>Lisa S. Drzewiecki</u>		Signature: <u><i>Lisa S. Drzewiecki</i></u>	
Firm: <u>RMT Inc.</u>		Print Initials: <u>LSD</u>	
		Firm: <u>RMT, Inc.</u>	

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

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

Facility/Project Name Tecumseh Products Company 3084.05		County Name Ozaukee		Well Name MW-12	
Facility License, Permit or Monitoring Number		County Code 46	Wis. Unique Well Number		DNR Well Number
1. Can this well be purged dry?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Before Development		After Development
2. Well development method		<input type="checkbox"/> 41 <input checked="" type="checkbox"/> 61 <input type="checkbox"/> 42 <input type="checkbox"/> 62 <input type="checkbox"/> 70 <input type="checkbox"/> 20 <input type="checkbox"/> 10 <input type="checkbox"/> 51 <input type="checkbox"/> 50 <input type="checkbox"/> Other _____	11. Depth to Water (from top of well casing)		a. <u> 1 3 . 8 5 </u> ft.
			Date		b. <u> 1 1 / 1 6 / 9 4 </u> m m d d y y
			Time		c. <u> 7 : 4 0 </u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
			12. Sediment in well bottom		<u> 0 . 0 </u> inches
3. Time spent developing well		<u> 9 0 </u> min.	13. Water clarity		Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)
4. Depth of well (from top of well casing)		<u> 2 4 . 6 </u> ft.			Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)
5. Inside diameter of well		<u> 2 . 0 0 </u> in.			<u> Brown, turbid </u>
6. Volume of water in filter pack and well casing		<u> 8 . 3 </u> gal.			
7. Volume of water removed from well		<u> 9 0 . 0 </u> gal.			
8. Volume of water added (if any)		<u> 0 . 0 </u> gal.			
9. Source of water added		<u> N/A </u>	Fill in if drilling fluids were used and well is at solid waste facility:		
			14. Total suspended solids		_____ mg/l
			15. COD		_____ mg/l
10. Analysis performed on water added? (If yes, attach results)		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

16. Additional comments on development:

Well developed by: Person's Name and Firm		I hereby certify that the above information is true and correct to the best of my knowledge.	
Name: <u> Dan Zielazowski </u>		Signature: <u> Lisa J. Zyuracki </u>	
Firm: <u> WTD Environmental Drilling </u>		Print Initials: <u> LSD </u>	
		Firm: <u> RMT, Inc. </u>	

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

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

Facility/Project Name Tecumseh Products Company 3084.05		County Name Ozaukee		Well Name MW-12BR	
Facility License, Permit or Monitoring Number		County Code 46	Wis. Unique Well Number		DNR Well Number
1. Can this well be purged dry?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Before Development		After Development
2. Well development method		<input type="checkbox"/> 41 <input checked="" type="checkbox"/> 61 <input type="checkbox"/> 42 <input type="checkbox"/> 62 <input type="checkbox"/> 70 <input type="checkbox"/> 20 <input type="checkbox"/> 10 <input type="checkbox"/> 51 <input type="checkbox"/> 50 <input type="checkbox"/> Other _____	11. Depth to Water (from top of well casing)		
3. Time spent developing well		___ 6 0 min.	a. <u>1 3.8 3</u> ft.		<u>1 4.9 5</u> ft.
4. Depth of well (from top of well casing)		___ 5 5.5 ft.	Date		b. <u>12/02/94</u>
5. Inside diameter of well		___ 2.8 2 in.	Time		c. <u>3:00</u> <input checked="" type="checkbox"/> p.m.
6. Volume of water in filter pack and well casing		___ 1 7.2 gal.	12. Sediment in well bottom		___ 0.0 inches
7. Volume of water removed from well		<u>7 2 0.0</u> gal.	13. Water clarity		Clear <input type="checkbox"/> 10
8. Volume of water added (if any)		___ 0.0 gal.	Turbid <input checked="" type="checkbox"/> 15		Clear <input checked="" type="checkbox"/> 20
9. Source of water added <u>N/A</u>			(Describe)		Turbid <input type="checkbox"/> 25
10. Analysis performed on water added? (If yes, attach results)		<input type="checkbox"/> Yes <input type="checkbox"/> No	Brown		
16. Additional comments on development:			Fill in if drilling fluids were used and well is at solid waste facility:		
Pumped the well for 1 hour at 12 gpm.			14. Total suspended solids		_____ mg/l
Water level during pumping = 22.18 T/PVC			15. COD		_____ mg/l

Well developed by: Person's Name and Firm		I hereby certify that the above information is true and correct to the best of my knowledge.	
Name: <u>Glenn Holmen</u>		Signature: <u>Lisa J. Brewer</u>	
Firm: <u>Bergerson-Caswell, Inc.</u>		Print Initials: <u>LSD</u>	
		Firm: <u>RMT, Inc.</u>	

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

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

Facility/Project Name Tecumseh Products Company 3084.05		County Name Ozaukee		Well Name MW-14BR	
Facility License, Permit or Monitoring Number		County Code 46	Wis. Unique Well Number		DNR Well Number
1. Can this well be purged dry?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Before Development	
2. Well development method		<input type="checkbox"/> 41 <input type="checkbox"/> 61 <input type="checkbox"/> 42 <input type="checkbox"/> 62 <input type="checkbox"/> 70 <input type="checkbox"/> 20 <input type="checkbox"/> 10 <input checked="" type="checkbox"/> 51 <input type="checkbox"/> 50 <input type="checkbox"/> Other _____		After Development	
3. Time spent developing well		___ 4 5 min.		11. Depth to Water (from top of well casing)	
4. Depth of well (from top of well casing)		___ 3 4.9 ft.		a. ___ 1 2.9 8 ft.	
5. Inside diameter of well		___ 2.8 2 in.		Date	
6. Volume of water in filter pack and well casing		___ 1 8.7 gal.		b. <u>12/06/94</u> m m d d y y	
7. Volume of water removed from well		3 4 5.0 gal.		Time	
8. Volume of water added (if any)		___ 0.0 gal.		c. ___ 3:1 0 ___ p.m.	
9. Source of water added <u>N/A</u>				12. Sediment in well bottom	
10. Analysis performed on water added? (If yes, attach results)		<input type="checkbox"/> Yes <input type="checkbox"/> No		___ 0.0 inches	
				13. Water clarity	
				Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Light brown, Moderate turbidity</u>	
				Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)	
				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:

Pumped at 5 gpm for 5 minutes, then increased pumping rate to 8 gpm and pumped for 40 minutes.

Water level during pumping = 24.47 T/PVC

Well developed by: Person's Name and Firm	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>Glenn Holmen</u>	Signature: <u>[Handwritten Signature]</u>
Firm: <u>Bergerson-Caswell, Inc.</u>	Print Initials: <u>CSD</u>
	Firm: <u>RMT, Inc.</u>

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

11/11

APPENDIX C
RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER - MONITORING WELLS



PROJECT NAME: TECUMSEH
 PROJECT NO: 03084.05
 WORK ORDER NO: 6144

REPORT DATE: 12/27/94
 PAGE NO: 1

<u>SAMPLE NO.</u>	<u>STATION ID</u>	<u>COLL. DATE</u>	<u>SAMPLE NO.</u>	<u>STATION ID</u>	<u>COLL. DATE</u>
6144-002	TRIP BLANK	---			
6144-003	MW-12	12/14/94			
6144-004	MW-12BR	12/14/94			
6144-005	MW-9D	12/14/94			
6144-006	MW-8D	12/14/94			
6144-007	MW-13BR-1	12/14/94			
6144-008	MW-13BR-2	12/14/94			
6144-009	MW-3D	12/14/94			
6144-010	MW-13BR-3	12/14/94			
6144-011	MW-14BR	12/14/94			
6144-012	MW-11	12/14/94			
6144-013	MW-15BR-1	12/14/94			
6144-014	MW-15BR-2	12/14/94			
6144-015	MW-3BR-1	12/14/94			
6144-016	MW-3BR-2	12/14/94			
6144-017	MW-3BR-3	12/14/94			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and RMT Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by RMT Laboratory management, as is verified by the following signature.

Kevin P. Mann
 Approval Signature

12/27/94
 Date



PAGE: 1

PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-002
STATION ID: TRIP BLANK
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE:
ANALYSIS DATE: 12/19/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<2.0	2.0		ug/L
Chloromethane	<1.0	1.0		ug/L
Vinyl chloride	<1.0	1.0		ug/L
Bromomethane	<5.0	5.0		ug/L
Chloroethane	<1.0	1.0		ug/L
Fluorotrichloromethane	<1.0	1.0		ug/L
1,1-Dichloroethene	<1.0	1.0		ug/L
Methylene chloride	<1.0	1.0		ug/L
trans-1,2-Dichloroethene	<1.0	1.0		ug/L
1,1-Dichloroethane	<1.0	1.0		ug/L
2,2-Dichloropropane	<2.0	2.0		ug/L
cis-1,2-Dichloroethene	<1.0	1.0		ug/L
Chloroform	<1.0	1.0		ug/L
Bromochloromethane	<1.0	1.0		ug/L
1,1,1-Trichloroethane	<1.0	1.0		ug/L
1,1-Dichloropropene	<1.0	1.0		ug/L
Carbon tetrachloride	<1.0	1.0		ug/L
1,2-Dichloroethane	<1.0	1.0		ug/L
Benzene	<1.0	1.0		ug/L
Trichloroethene	<1.0	1.0		ug/L
1,2-Dichloropropane	<1.0	1.0		ug/L
Bromodichloromethane	<1.0	1.0		ug/L
Dibromomethane	<1.0	1.0		ug/L
cis-1,3-Dichloropropene	<1.0	1.0		ug/L
Toluene	<1.0	1.0		ug/L
trans-1,3-Dichloropropene	<1.0	1.0		ug/L
1,1,2-Trichloroethane	<1.0	1.0		ug/L
Tetrachloroethene	<2.0	2.0		ug/L
1,3-Dichloropropane	<2.0	2.0		ug/L
Chlorodibromomethane	<1.0	1.0		ug/L
1,2-Dibromoethane	<1.0	1.0		ug/L
Chlorobenzene	<1.0	1.0		ug/L
1,1,1,2-Tetrachloroethane	<2.0	2.0		ug/L
Ethylbenzene	<1.0	1.0		ug/L
Xylene, total	<3.0	3.0		ug/L
Styrene	<1.0	1.0		ug/L
Isopropylbenzene	<1.0	1.0		ug/L
Bromoform	<2.0	2.0		ug/L
1,1,2,2-Tetrachloroethane	<1.0	1.0		ug/L
1,2,3-Trichloropropane	<1.0	1.0		ug/L
n-Propylbenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-002
STATION ID: TRIP BLANK
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE:
ANALYSIS DATE: 12/19/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<1.0	1.0		ug/L
1,3,5-Trimethylbenzene	<1.0	1.0		ug/L
2-Chlorotoluene	<1.0	1.0		ug/L
4-Chlorotoluene	<1.0	1.0		ug/L
tert-Butylbenzene	<2.0	2.0		ug/L
1,2,4-Trimethylbenzene	<1.0	1.0		ug/L
sec-Butylbenzene	<1.0	1.0		ug/L
p-Isopropyltoluene	<1.0	1.0		ug/L
1,3-Dichlorobenzene	<1.0	1.0		ug/L
1,4-Dichlorobenzene	<1.0	1.0		ug/L
n-Butylbenzene	<1.0	1.0		ug/L
1,2-Dichlorobenzene	<1.0	1.0		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L
1,2,4-Trichlorobenzene	<1.0	1.0		ug/L
Hexachlorobutadiene	<1.0	1.0		ug/L
Naphthalene	<5.0	5.0		ug/L
1,2,3-Trichlorobenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH
 PROJECT NUMBER: 03084.05
 LAB SAMPLE NUMBER: 6144-003
 STATION ID: MW-12
 WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
 COLLECTION DATE: 12/14/94
 ANALYSIS DATE: 12/21/94
 METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<100	100		ug/L
Chloromethane	<50	50		ug/L
Vinyl chloride	<50	50		ug/L
Bromomethane	<250	250		ug/L
Chloroethane	<50	50		ug/L
Fluorotrichloromethane	<50	50		ug/L
1,1-Dichloroethene	61	50		ug/L
Methylene chloride	<50	50		ug/L
trans-1,2-Dichloroethene	<50	50		ug/L
1,1-Dichloroethane	150	50		ug/L
2,2-Dichloropropane	<100	100		ug/L
cis-1,2-Dichloroethene	<50	50		ug/L
Chloroform	<50	50		ug/L
Bromochloromethane	<50	50		ug/L
1,1,1-Trichloroethane	490	50		ug/L
1,1-Dichloropropene	<50	50		ug/L
Carbon tetrachloride	<50	50		ug/L
1,2-Dichloroethane	<50	50		ug/L
Benzene	<50	50		ug/L
Trichloroethene	3000	50		ug/L
1,2-Dichloropropane	<50	50		ug/L
Bromodichloromethane	<50	50		ug/L
Dibromomethane	<50	50		ug/L
cis-1,3-Dichloropropene	<50	50		ug/L
Toluene	<50	50		ug/L
trans-1,3-Dichloropropene	<50	50		ug/L
1,1,2-Trichloroethane	<50	50		ug/L
Tetrachloroethene	<100	100		ug/L
1,3-Dichloropropane	<100	100		ug/L
Chlorodibromomethane	<50	50		ug/L
1,2-Dibromoethane	<50	50		ug/L
Chlorobenzene	<50	50		ug/L
1,1,1,2-Tetrachloroethane	<100	100		ug/L
Ethylbenzene	<50	50		ug/L
Xylene, total	<150	150		ug/L
Styrene	<50	50		ug/L
Isopropylbenzene	<50	50		ug/L
Bromoform	<100	100		ug/L
1,1,2,2-Tetrachloroethane	<50	50		ug/L
1,2,3-Trichloropropane	<50	50		ug/L
n-Propylbenzene	<50	50		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-003
STATION ID: MW-12
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/21/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<50	50		ug/L
1,3,5-Trimethylbenzene	<50	50		ug/L
2-Chlorotoluene	<50	50		ug/L
4-Chlorotoluene	<50	50		ug/L
tert-Butylbenzene	<100	100		ug/L
1,2,4-Trimethylbenzene	<50	50		ug/L
sec-Butylbenzene	<50	50		ug/L
p-Isopropyltoluene	<50	50		ug/L
1,3-Dichlorobenzene	<50	50		ug/L
1,4-Dichlorobenzene	<50	50		ug/L
n-Butylbenzene	<50	50		ug/L
1,2-Dichlorobenzene	<50	50		ug/L
1,2-Dibromo-3-chloropropane	<50	50		ug/L
1,2,4-Trichlorobenzene	<50	50		ug/L
Hexachlorobutadiene	<50	50		ug/L
Naphthalene	<250	250		ug/L
1,2,3-Trichlorobenzene	<50	50		ug/L



PROJECT NAME: TECUMSEH
 PROJECT NUMBER: 03084.05
 LAB SAMPLE NUMBER: 6144-004
 STATION ID: MW-12BR
 WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
 COLLECTION DATE: 12/14/94
 ANALYSIS DATE: 12/20/94
 METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<20	20		ug/L
Chloromethane	<10	10		ug/L
Vinyl chloride	<10	10		ug/L
Bromomethane	<50	50		ug/L
Chloroethane	<10	10		ug/L
Fluorotrichloromethane	<10	10		ug/L
1,1-Dichloroethene	35	10		ug/L
Methylene chloride	<10	10		ug/L
trans-1,2-Dichloroethene	<10	10		ug/L
1,1-Dichloroethane	180	10		ug/L
2,2-Dichloropropane	<20	20		ug/L
cis-1,2-Dichloroethene	<10	10		ug/L
Chloroform	<10	10		ug/L
Bromochloromethane	<10	10		ug/L
1,1,1-Trichloroethane	580	10		ug/L
1,1-Dichloropropene	<10	10		ug/L
Carbon tetrachloride	<10	10		ug/L
1,2-Dichloroethane	<10	10		ug/L
Benzene	<10	10		ug/L
Trichloroethene	84	10		ug/L
1,2-Dichloropropane	<10	10		ug/L
Bromodichloromethane	<10	10		ug/L
Dibromomethane	<10	10		ug/L
cis-1,3-Dichloropropene	<10	10		ug/L
Toluene	<10	10		ug/L
trans-1,3-Dichloropropene	<10	10		ug/L
1,1,2-Trichloroethane	<10	10		ug/L
Tetrachloroethene	<20	20		ug/L
1,3-Dichloropropane	<20	20		ug/L
Chlorodibromomethane	<10	10		ug/L
1,2-Dibromoethane	<10	10		ug/L
Chlorobenzene	<10	10		ug/L
1,1,1,2-Tetrachloroethane	<20	20		ug/L
Ethylbenzene	<10	10		ug/L
Xylene, total	<30	30		ug/L
Styrene	<10	10		ug/L
Isopropylbenzene	<10	10		ug/L
Bromoform	<20	20		ug/L
1,1,2,2-Tetrachloroethane	<10	10		ug/L
1,2,3-Trichloropropane	<10	10		ug/L
n-Propylbenzene	<10	10		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-004
STATION ID: MW-12BR
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<10	10		ug/L
1,3,5-Trimethylbenzene	<10	10		ug/L
2-Chlorotoluene	<10	10		ug/L
4-Chlorotoluene	<10	10		ug/L
tert-Butylbenzene	<20	20		ug/L
1,2,4-Trimethylbenzene	<10	10		ug/L
sec-Butylbenzene	<10	10		ug/L
p-Isopropyltoluene	<10	10		ug/L
1,3-Dichlorobenzene	<10	10		ug/L
1,4-Dichlorobenzene	<10	10		ug/L
n-Butylbenzene	<10	10		ug/L
1,2-Dichlorobenzene	<10	10		ug/L
1,2-Dibromo-3-chloropropane	<10	10		ug/L
1,2,4-Trichlorobenzene	<10	10		ug/L
Hexachlorobutadiene	<10	10		ug/L
Naphthalene	<50	50		ug/L
1,2,3-Trichlorobenzene	<10	10		ug/L



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PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-005
STATION ID: MW-9D
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/19/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Dichlorodifluoromethane	<100	100		ug/L
Chloromethane	<50	50		ug/L
Vinyl chloride	<50	50		ug/L
Bromomethane	<250	250		ug/L
Chloroethane	<50	50		ug/L
Fluorotrichloromethane	<50	50		ug/L
1,1-Dichloroethene	<50	50		ug/L
Methylene chloride	<50	50		ug/L
trans-1,2-Dichloroethene	<50	50		ug/L
1,1-Dichloroethane	94	50		ug/L
2,2-Dichloropropane	<100	100		ug/L
cis-1,2-Dichloroethene	680	50		ug/L
Chloroform	<50	50		ug/L
Bromochloromethane	<50	50		ug/L
1,1,1-Trichloroethane	350	50		ug/L
1,1-Dichloropropene	<50	50		ug/L
Carbon tetrachloride	<50	50		ug/L
1,2-Dichloroethane	<50	50		ug/L
Benzene	<50	50		ug/L
Trichloroethene	1400	50		ug/L
1,2-Dichloropropane	<50	50		ug/L
Bromodichloromethane	<50	50		ug/L
Dibromomethane	<50	50		ug/L
cis-1,3-Dichloropropene	<50	50		ug/L
Toluene	<50	50		ug/L
trans-1,3-Dichloropropene	<50	50		ug/L
1,1,2-Trichloroethane	<50	50		ug/L
Tetrachloroethene	<100	100		ug/L
1,3-Dichloropropane	<100	100		ug/L
Chlorodibromomethane	<50	50		ug/L
1,2-Dibromoethane	<50	50		ug/L
Chlorobenzene	<50	50		ug/L
1,1,1,2-Tetrachloroethane	<100	100		ug/L
Ethylbenzene	<50	50		ug/L
Xylene, total	<150	150		ug/L
Styrene	<50	50		ug/L
Isopropylbenzene	<50	50		ug/L
Bromoform	<100	100		ug/L
1,1,2,2-Tetrachloroethane	<50	50		ug/L
1,2,3-Trichloropropane	<50	50		ug/L
n-Propylbenzene	<50	50		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-005
STATION ID: MW-9D
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/19/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<50	50		ug/L
1,3,5-Trimethylbenzene	<50	50		ug/L
2-Chlorotoluene	<50	50		ug/L
4-Chlorotoluene	<50	50		ug/L
tert-Butylbenzene	<100	100		ug/L
1,2,4-Trimethylbenzene	<50	50		ug/L
sec-Butylbenzene	<50	50		ug/L
p-Isopropyltoluene	<50	50		ug/L
1,3-Dichlorobenzene	<50	50		ug/L
1,4-Dichlorobenzene	<50	50		ug/L
n-Butylbenzene	<50	50		ug/L
1,2-Dichlorobenzene	<50	50		ug/L
1,2-Dibromo-3-chloropropane	<50	50		ug/L
1,2,4-Trichlorobenzene	<50	50		ug/L
Hexachlorobutadiene	<50	50		ug/L
Naphthalene	<250	250		ug/L
1,2,3-Trichlorobenzene	<50	50		ug/L



PAGE: 1

PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-006
STATION ID: MW-8D
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/19/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Dichlorodifluoromethane	<2.0	2.0		ug/L
Chloromethane	<1.0	1.0		ug/L
Vinyl chloride	<1.0	1.0		ug/L
Bromomethane	<5.0	5.0		ug/L
Chloroethane	<1.0	1.0		ug/L
Fluorotrichloromethane	<1.0	1.0		ug/L
1,1-Dichloroethene	<1.0	1.0		ug/L
Methylene chloride	<1.0	1.0		ug/L
trans-1,2-Dichloroethene	<1.0	1.0		ug/L
1,1-Dichloroethane	<1.0	1.0		ug/L
2,2-Dichloropropane	<2.0	2.0		ug/L
cis-1,2-Dichloroethene	<1.0	1.0		ug/L
Chloroform	<1.0	1.0		ug/L
Bromochloromethane	<1.0	1.0		ug/L
1,1,1-Trichloroethane	<1.0	1.0		ug/L
1,1-Dichloropropene	<1.0	1.0		ug/L
Carbon tetrachloride	<1.0	1.0		ug/L
1,2-Dichloroethane	<1.0	1.0		ug/L
Benzene	<1.0	1.0		ug/L
Trichloroethene	1.8	1.0		ug/L
1,2-Dichloropropane	<1.0	1.0		ug/L
Bromodichloromethane	<1.0	1.0		ug/L
Dibromomethane	<1.0	1.0		ug/L
cis-1,3-Dichloropropene	<1.0	1.0		ug/L
Toluene	<1.0	1.0		ug/L
trans-1,3-Dichloropropene	<1.0	1.0		ug/L
1,1,2-Trichloroethane	<1.0	1.0		ug/L
Tetrachloroethene	<2.0	2.0		ug/L
1,3-Dichloropropane	<2.0	2.0		ug/L
Chlorodibromomethane	<1.0	1.0		ug/L
1,2-Dibromoethane	<1.0	1.0		ug/L
Chlorobenzene	<1.0	1.0		ug/L
1,1,1,2-Tetrachloroethane	<2.0	2.0		ug/L
Ethylbenzene	<1.0	1.0		ug/L
Xylene, total	<3.0	3.0		ug/L
Styrene	<1.0	1.0		ug/L
Isopropylbenzene	<1.0	1.0		ug/L
Bromoform	<2.0	2.0		ug/L
1,1,2,2-Tetrachloroethane	<1.0	1.0		ug/L
1,2,3-Trichloropropane	<1.0	1.0		ug/L
n-Propylbenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-006
STATION ID: MW-8D
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/19/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<1.0	1.0		ug/L
1,3,5-Trimethylbenzene	<1.0	1.0		ug/L
2-Chlorotoluene	<1.0	1.0		ug/L
4-Chlorotoluene	<1.0	1.0		ug/L
tert-Butylbenzene	<2.0	2.0		ug/L
1,2,4-Trimethylbenzene	<1.0	1.0		ug/L
sec-Butylbenzene	<1.0	1.0		ug/L
p-Isopropyltoluene	<1.0	1.0		ug/L
1,3-Dichlorobenzene	<1.0	1.0		ug/L
1,4-Dichlorobenzene	<1.0	1.0		ug/L
n-Butylbenzene	<1.0	1.0		ug/L
1,2-Dichlorobenzene	<1.0	1.0		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L
1,2,4-Trichlorobenzene	<1.0	1.0		ug/L
Hexachlorobutadiene	<1.0	1.0		ug/L
Naphthalene	<5.0	5.0		ug/L
1,2,3-Trichlorobenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH
 PROJECT NUMBER: 03084.05
 LAB SAMPLE NUMBER: 6144-007
 STATION ID: MW-13BR-1
 WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
 COLLECTION DATE: 12/14/94
 ANALYSIS DATE: 12/20/94
 METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<20	20		ug/L
Chloromethane	<10	10		ug/L
Vinyl chloride	<10	10		ug/L
Bromomethane	<50	50		ug/L
Chloroethane	<10	10		ug/L
Fluorotrichloromethane	<10	10		ug/L
1,1-Dichloroethene	70	10		ug/L
Methylene chloride	<10	10		ug/L
trans-1,2-Dichloroethene	<10	10		ug/L
1,1-Dichloroethane	190	10		ug/L
2,2-Dichloropropane	<20	20		ug/L
cis-1,2-Dichloroethene	22	10		ug/L
Chloroform	<10	10		ug/L
Bromochloromethane	<10	10		ug/L
1,1,1-Trichloroethane	530	10		ug/L
1,1-Dichloropropene	<10	10		ug/L
Carbon tetrachloride	<10	10		ug/L
1,2-Dichloroethane	<10	10		ug/L
Benzene	<10	10		ug/L
Trichloroethene	270	10		ug/L
1,2-Dichloropropane	<10	10		ug/L
Bromodichloromethane	<10	10		ug/L
Dibromomethane	<10	10		ug/L
cis-1,3-Dichloropropene	<10	10		ug/L
Toluene	<10	10		ug/L
trans-1,3-Dichloropropene	<10	10		ug/L
1,1,2-Trichloroethane	<10	10		ug/L
Tetrachloroethene	<20	20		ug/L
1,3-Dichloropropane	<20	20		ug/L
Chlorodibromomethane	<10	10		ug/L
1,2-Dibromoethane	<10	10		ug/L
Chlorobenzene	<10	10		ug/L
1,1,1,2-Tetrachloroethane	<20	20		ug/L
Ethylbenzene	<10	10		ug/L
Xylene, total	<30	30		ug/L
Styrene	<10	10		ug/L
Isopropylbenzene	<10	10		ug/L
Bromoform	<20	20		ug/L
1,1,2,2-Tetrachloroethane	<10	10		ug/L
1,2,3-Trichloropropane	<10	10		ug/L
n-Propylbenzene	<10	10		ug/L

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PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-007
STATION ID: MW-13BR-1
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<10	10		ug/L
1,3,5-Trimethylbenzene	<10	10		ug/L
2-Chlorotoluene	<10	10		ug/L
4-Chlorotoluene	<10	10		ug/L
tert-Butylbenzene	<20	20		ug/L
1,2,4-Trimethylbenzene	<10	10		ug/L
sec-Butylbenzene	<10	10		ug/L
p-Isopropyltoluene	<10	10		ug/L
1,3-Dichlorobenzene	<10	10		ug/L
1,4-Dichlorobenzene	<10	10		ug/L
n-Butylbenzene	<10	10		ug/L
1,2-Dichlorobenzene	<10	10		ug/L
1,2-Dibromo-3-chloropropane	<10	10		ug/L
1,2,4-Trichlorobenzene	<10	10		ug/L
Hexachlorobutadiene	<10	10		ug/L
Naphthalene	<50	50		ug/L
1,2,3-Trichlorobenzene	<10	10		ug/L



PROJECT NAME: TECUMSEH
 PROJECT NUMBER: 03084.05
 LAB SAMPLE NUMBER: 6144-008
 STATION ID: MW-13BR-2
 WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
 COLLECTION DATE: 12/14/94
 ANALYSIS DATE: 12/21/94
 METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Dichlorodifluoromethane	<20	20		ug/L
Chloromethane	<10	10		ug/L
Vinyl chloride	<10	10		ug/L
Bromomethane	<50	50		ug/L
Chloroethane	<10	10		ug/L
Fluorotrichloromethane	<10	10		ug/L
1,1-Dichloroethene	53	10		ug/L
Methylene chloride	<10	10		ug/L
trans-1,2-Dichloroethene	<10	10		ug/L
1,1-Dichloroethane	130	10		ug/L
2,2-Dichloropropane	<20	20		ug/L
cis-1,2-Dichloroethene	33	10		ug/L
Chloroform	<10	10		ug/L
Bromochloromethane	<10	10		ug/L
1,1,1-Trichloroethane	410	10		ug/L
1,1-Dichloropropene	<10	10		ug/L
Carbon tetrachloride	<10	10		ug/L
1,2-Dichloroethane	<10	10		ug/L
Benzene	<10	10		ug/L
Trichloroethene	350	10		ug/L
1,2-Dichloropropane	<10	10		ug/L
Bromodichloromethane	<10	10		ug/L
Dibromomethane	<10	10		ug/L
cis-1,3-Dichloropropene	<10	10		ug/L
Toluene	<10	10		ug/L
trans-1,3-Dichloropropene	<10	10		ug/L
1,1,2-Trichloroethane	<10	10		ug/L
Tetrachloroethene	<20	20		ug/L
1,3-Dichloropropane	<20	20		ug/L
Chlorodibromomethane	<10	10		ug/L
1,2-Dibromoethane	<10	10		ug/L
Chlorobenzene	<10	10		ug/L
1,1,1,2-Tetrachloroethane	<20	20		ug/L
Ethylbenzene	<10	10		ug/L
Xylene, total	<30	30		ug/L
Styrene	<10	10		ug/L
Isopropylbenzene	<10	10		ug/L
Bromoform	<20	20		ug/L
1,1,2,2-Tetrachloroethane	<10	10		ug/L
1,2,3-Trichloropropane	<10	10		ug/L
n-Propylbenzene	<10	10		ug/L



PROJECT NAME: TECUMSEH
 PROJECT NUMBER: 03084.05
 LAB SAMPLE NUMBER: 6144-008
 STATION ID: MW-13BR-2
 WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
 COLLECTION DATE: 12/14/94
 ANALYSIS DATE: 12/21/94
 METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Bromobenzene	<10	10		ug/L
1,3,5-Trimethylbenzene	<10	10		ug/L
2-Chlorotoluene	<10	10		ug/L
4-Chlorotoluene	<10	10		ug/L
tert-Butylbenzene	<20	20		ug/L
1,2,4-Trimethylbenzene	<10	10		ug/L
sec-Butylbenzene	<10	10		ug/L
p-Isopropyltoluene	<10	10		ug/L
1,3-Dichlorobenzene	<10	10		ug/L
1,4-Dichlorobenzene	<10	10		ug/L
n-Butylbenzene	<10	10		ug/L
1,2-Dichlorobenzene	<10	10		ug/L
1,2-Dibromo-3-chloropropane	<10	10		ug/L
1,2,4-Trichlorobenzene	<10	10		ug/L
Hexachlorobutadiene	<10	10		ug/L
Naphthalene	<50	50		ug/L
1,2,3-Trichlorobenzene	<10	10		ug/L



PROJECT NAME: TECUMSEH
 PROJECT NUMBER: 03084.05
 LAB SAMPLE NUMBER: 6144-009
 STATION ID: MW-3D
 WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
 COLLECTION DATE: 12/14/94
 ANALYSIS DATE: 12/19/94
 METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
=====	=====	=====	=====	=====
Dichlorodifluoromethane	<10	10		ug/L
Chloromethane	<5.0	5.0		ug/L
Vinyl chloride	5.8	5.0		ug/L
Bromomethane	<25	25		ug/L
Chloroethane	<5.0	5.0		ug/L
Fluorotrichloromethane	<5.0	5.0		ug/L
1,1-Dichloroethene	12	5.0		ug/L
Methylene chloride	<5.0	5.0		ug/L
trans-1,2-Dichloroethene	<5.0	5.0		ug/L
1,1-Dichloroethane	9.8	5.0		ug/L
2,2-Dichloropropane	<10	10		ug/L
cis-1,2-Dichloroethene	<5.0	5.0		ug/L
Chloroform	<5.0	5.0		ug/L
Bromochloromethane	<5.0	5.0		ug/L
1,1,1-Trichloroethane	28	5.0		ug/L
1,1-Dichloropropene	<5.0	5.0		ug/L
Carbon tetrachloride	<5.0	5.0		ug/L
1,2-Dichloroethane	<5.0	5.0		ug/L
Benzene	<5.0	5.0		ug/L
Trichloroethene	27	5.0		ug/L
1,2-Dichloropropane	<5.0	5.0		ug/L
Bromodichloromethane	<5.0	5.0		ug/L
Dibromomethane	<5.0	5.0		ug/L
cis-1,3-Dichloropropene	<5.0	5.0		ug/L
Toluene	<5.0	5.0		ug/L
trans-1,3-Dichloropropene	<5.0	5.0		ug/L
1,1,2-Trichloroethane	<5.0	5.0		ug/L
Tetrachloroethene	<10	10		ug/L
1,3-Dichloropropane	<10	10		ug/L
Chlorodibromomethane	<5.0	5.0		ug/L
1,2-Dibromoethane	<5.0	5.0		ug/L
Chlorobenzene	<5.0	5.0		ug/L
1,1,1,2-Tetrachloroethane	<10	10		ug/L
Ethylbenzene	<5.0	5.0		ug/L
Xylene, total	<15	15		ug/L
Styrene	<5.0	5.0		ug/L
Isopropylbenzene	<5.0	5.0		ug/L
Bromoform	<10	10		ug/L
1,1,2,2-Tetrachloroethane	<5.0	5.0		ug/L
1,2,3-Trichloropropane	<5.0	5.0		ug/L
n-Propylbenzene	<5.0	5.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-009
STATION ID: MW-3D
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/19/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<5.0	5.0		ug/L
1,3,5-Trimethylbenzene	<5.0	5.0		ug/L
2-Chlorotoluene	<5.0	5.0		ug/L
4-Chlorotoluene	<5.0	5.0		ug/L
tert-Butylbenzene	<10	10		ug/L
1,2,4-Trimethylbenzene	5.9	5.0		ug/L
sec-Butylbenzene	<5.0	5.0		ug/L
p-Isopropyltoluene	<5.0	5.0		ug/L
1,3-Dichlorobenzene	<5.0	5.0		ug/L
1,4-Dichlorobenzene	<5.0	5.0		ug/L
n-Butylbenzene	<5.0	5.0		ug/L
1,2-Dichlorobenzene	<5.0	5.0		ug/L
1,2-Dibromo-3-chloropropane	<5.0	5.0		ug/L
1,2,4-Trichlorobenzene	<5.0	5.0		ug/L
Hexachlorobutadiene	<5.0	5.0		ug/L
Naphthalene	<25	25		ug/L
1,2,3-Trichlorobenzene	<5.0	5.0		ug/L



PAGE: 1

PROJECT NAME: TECUMSEH
 PROJECT NUMBER: 03084.05
 LAB SAMPLE NUMBER: 6144-010
 STATION ID: MW-13BR-3
 WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
 COLLECTION DATE: 12/14/94
 ANALYSIS DATE: 12/20/94
 METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<40	40		ug/L
Chloromethane	<20	20		ug/L
Vinyl chloride	<20	20		ug/L
Bromomethane	<100	100		ug/L
Chloroethane	<20	20		ug/L
Fluorotrichloromethane	<20	20		ug/L
1,1-Dichloroethene	78	20		ug/L
Methylene chloride	<20	20		ug/L
trans-1,2-Dichloroethene	<20	20		ug/L
1,1-Dichloroethane	210	20		ug/L
2,2-Dichloropropane	<40	40		ug/L
cis-1,2-Dichloroethene	21	20		ug/L
Chloroform	<20	20		ug/L
Bromochloromethane	<20	20		ug/L
1,1,1-Trichloroethane	620	20		ug/L
1,1-Dichloropropene	<20	20		ug/L
Carbon tetrachloride	<20	20		ug/L
1,2-Dichloroethane	<20	20		ug/L
Benzene	<20	20		ug/L
Trichloroethene	300	20		ug/L
1,2-Dichloropropane	<20	20		ug/L
Bromodichloromethane	<20	20		ug/L
Dibromomethane	<20	20		ug/L
cis-1,3-Dichloropropene	<20	20		ug/L
Toluene	<20	20		ug/L
trans-1,3-Dichloropropene	<20	20		ug/L
1,1,2-Trichloroethane	<20	20		ug/L
Tetrachloroethene	<40	40		ug/L
1,3-Dichloropropane	<40	40		ug/L
Chlorodibromomethane	<20	20		ug/L
1,2-Dibromoethane	<20	20		ug/L
Chlorobenzene	<20	20		ug/L
1,1,1,2-Tetrachloroethane	<40	40		ug/L
Ethylbenzene	<20	20		ug/L
Xylene, total	<60	60		ug/L
Styrene	<20	20		ug/L
Isopropylbenzene	<20	20		ug/L
Bromoform	<40	40		ug/L
1,1,2,2-Tetrachloroethane	<20	20		ug/L
1,2,3-Trichloropropane	<20	20		ug/L
n-Propylbenzene	<20	20		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-010
STATION ID: MW-13BR-3
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<20	20		ug/L
1,3,5-Trimethylbenzene	<20	20		ug/L
2-Chlorotoluene	<20	20		ug/L
4-Chlorotoluene	<20	20		ug/L
tert-Butylbenzene	<40	40		ug/L
1,2,4-Trimethylbenzene	<20	20		ug/L
sec-Butylbenzene	<20	20		ug/L
p-Isopropyltoluene	<20	20		ug/L
1,3-Dichlorobenzene	<20	20		ug/L
1,4-Dichlorobenzene	<20	20		ug/L
n-Butylbenzene	<20	20		ug/L
1,2-Dichlorobenzene	<20	20		ug/L
1,2-Dibromo-3-chloropropane	<20	20		ug/L
1,2,4-Trichlorobenzene	<20	20		ug/L
Hexachlorobutadiene	<20	20		ug/L
Naphthalene	<100	100		ug/L
1,2,3-Trichlorobenzene	<20	20		ug/L



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PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-011
STATION ID: MW-14BR
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Dichlorodifluoromethane	<2.0	2.0		ug/L
Chloromethane	<1.0	1.0		ug/L
Vinyl chloride	<1.0	1.0		ug/L
Bromomethane	<5.0	5.0		ug/L
Chloroethane	<1.0	1.0		ug/L
Fluorotrichloromethane	<1.0	1.0		ug/L
1,1-Dichloroethene	<1.0	1.0		ug/L
Methylene chloride	<1.0	1.0		ug/L
trans-1,2-Dichloroethene	<1.0	1.0		ug/L
1,1-Dichloroethane	<1.0	1.0		ug/L
2,2-Dichloropropane	<2.0	2.0		ug/L
cis-1,2-Dichloroethene	<1.0	1.0		ug/L
Chloroform	<1.0	1.0		ug/L
Bromochloromethane	<1.0	1.0		ug/L
1,1,1-Trichloroethane	<1.0	1.0		ug/L
1,1-Dichloropropene	<1.0	1.0		ug/L
Carbon tetrachloride	<1.0	1.0		ug/L
1,2-Dichloroethane	<1.0	1.0		ug/L
Benzene	<1.0	1.0		ug/L
Trichloroethene	<1.0	1.0		ug/L
1,2-Dichloropropane	<1.0	1.0		ug/L
Bromodichloromethane	<1.0	1.0		ug/L
Dibromomethane	<1.0	1.0		ug/L
cis-1,3-Dichloropropene	<1.0	1.0		ug/L
Toluene	<1.0	1.0		ug/L
trans-1,3-Dichloropropene	<1.0	1.0		ug/L
1,1,2-Trichloroethane	<1.0	1.0		ug/L
Tetrachloroethene	<2.0	2.0		ug/L
1,3-Dichloropropane	<2.0	2.0		ug/L
Chlorodibromomethane	<1.0	1.0		ug/L
1,2-Dibromoethane	<1.0	1.0		ug/L
Chlorobenzene	<1.0	1.0		ug/L
1,1,1,2-Tetrachloroethane	<2.0	2.0		ug/L
Ethylbenzene	<1.0	1.0		ug/L
Xylene, total	<3.0	3.0		ug/L
Styrene	<1.0	1.0		ug/L
Isopropylbenzene	<1.0	1.0		ug/L
Bromoform	<2.0	2.0		ug/L
1,1,2,2-Tetrachloroethane	<1.0	1.0		ug/L
1,2,3-Trichloropropane	<1.0	1.0		ug/L
n-Propylbenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-011
STATION ID: MW-14BR
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<1.0	1.0		ug/L
1,3,5-Trimethylbenzene	<1.0	1.0		ug/L
2-Chlorotoluene	<1.0	1.0		ug/L
4-Chlorotoluene	<1.0	1.0		ug/L
tert-Butylbenzene	<2.0	2.0		ug/L
1,2,4-Trimethylbenzene	<1.0	1.0		ug/L
sec-Butylbenzene	<1.0	1.0		ug/L
p-Isopropyltoluene	<1.0	1.0		ug/L
1,3-Dichlorobenzene	<1.0	1.0		ug/L
1,4-Dichlorobenzene	<1.0	1.0		ug/L
n-Butylbenzene	<1.0	1.0		ug/L
1,2-Dichlorobenzene	<1.0	1.0		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L
1,2,4-Trichlorobenzene	<1.0	1.0		ug/L
Hexachlorobutadiene	<1.0	1.0		ug/L
Naphthalene	<5.0	5.0		ug/L
1,2,3-Trichlorobenzene	<1.0	1.0		ug/L



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PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-012
STATION ID: MW-11
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Dichlorodifluoromethane	<40	40		ug/L
Chloromethane	<20	20		ug/L
Vinyl chloride	<20	20		ug/L
Bromomethane	<100	100		ug/L
Chloroethane	<20	20		ug/L
Fluorotrichloromethane	<20	20		ug/L
1,1-Dichloroethene	<20	20		ug/L
Methylene chloride	<20	20		ug/L
trans-1,2-Dichloroethene	<20	20		ug/L
1,1-Dichloroethane	<20	20		ug/L
2,2-Dichloropropane	<40	40		ug/L
cis-1,2-Dichloroethene	<20	20		ug/L
Chloroform	<20	20		ug/L
Bromochloromethane	<20	20		ug/L
1,1,1-Trichloroethane	<20	20		ug/L
1,1-Dichloropropene	<20	20		ug/L
Carbon tetrachloride	<20	20		ug/L
1,2-Dichloroethane	<20	20		ug/L
Benzene	<20	20		ug/L
Trichloroethene	710	20		ug/L
1,2-Dichloropropane	<20	20		ug/L
Bromodichloromethane	<20	20		ug/L
Dibromomethane	<20	20		ug/L
cis-1,3-Dichloropropene	<20	20		ug/L
Toluene	<20	20		ug/L
trans-1,3-Dichloropropene	<20	20		ug/L
1,1,2-Trichloroethane	<20	20		ug/L
Tetrachloroethene	<40	40		ug/L
1,3-Dichloropropane	<40	40		ug/L
Chlorodibromomethane	<20	20		ug/L
1,2-Dibromoethane	<20	20		ug/L
Chlorobenzene	<20	20		ug/L
1,1,1,2-Tetrachloroethane	<40	40		ug/L
Ethylbenzene	<20	20		ug/L
Xylene, total	<60	60		ug/L
Styrene	<20	20		ug/L
Isopropylbenzene	<20	20		ug/L
Bromoform	<40	40		ug/L
1,1,2,2-Tetrachloroethane	<20	20		ug/L
1,2,3-Trichloropropane	<20	20		ug/L
n-Propylbenzene	<20	20		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-012
STATION ID: MW-11
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<20	20		ug/L
1,3,5-Trimethylbenzene	<20	20		ug/L
2-Chlorotoluene	<20	20		ug/L
4-Chlorotoluene	<20	20		ug/L
tert-Butylbenzene	<40	40		ug/L
1,2,4-Trimethylbenzene	<20	20		ug/L
sec-Butylbenzene	<20	20		ug/L
p-Isopropyltoluene	<20	20		ug/L
1,3-Dichlorobenzene	<20	20		ug/L
1,4-Dichlorobenzene	<20	20		ug/L
n-Butylbenzene	<20	20		ug/L
1,2-Dichlorobenzene	<20	20		ug/L
1,2-Dibromo-3-chloropropane	<20	20		ug/L
1,2,4-Trichlorobenzene	<20	20		ug/L
Hexachlorobutadiene	<20	20		ug/L
Naphthalene	<100	100		ug/L
1,2,3-Trichlorobenzene	<20	20		ug/L



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PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-013
STATION ID: MW-15BR-1
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<2.0	2.0		ug/L
Chloromethane	<1.0	1.0		ug/L
Vinyl chloride	<1.0	1.0		ug/L
Bromomethane	<5.0	5.0		ug/L
Chloroethane	<1.0	1.0		ug/L
Fluorotrichloromethane	<1.0	1.0		ug/L
1,1-Dichloroethene	<1.0	1.0		ug/L
Methylene chloride	<1.0	1.0		ug/L
trans-1,2-Dichloroethene	<1.0	1.0		ug/L
1,1-Dichloroethane	<1.0	1.0		ug/L
2,2-Dichloropropane	<2.0	2.0		ug/L
cis-1,2-Dichloroethene	<1.0	1.0		ug/L
Chloroform	<1.0	1.0		ug/L
Bromochloromethane	<1.0	1.0		ug/L
1,1,1-Trichloroethane	<1.0	1.0		ug/L
1,1-Dichloropropene	<1.0	1.0		ug/L
Carbon tetrachloride	<1.0	1.0		ug/L
1,2-Dichloroethane	<1.0	1.0		ug/L
Benzene	<1.0	1.0		ug/L
Trichloroethene	<1.0	1.0		ug/L
1,2-Dichloropropane	<1.0	1.0		ug/L
Bromodichloromethane	<1.0	1.0		ug/L
Dibromomethane	<1.0	1.0		ug/L
cis-1,3-Dichloropropene	<1.0	1.0		ug/L
Toluene	2.5	1.0		ug/L
trans-1,3-Dichloropropene	<1.0	1.0		ug/L
1,1,2-Trichloroethane	<1.0	1.0		ug/L
Tetrachloroethene	<2.0	2.0		ug/L
1,3-Dichloropropane	<2.0	2.0		ug/L
Chlorodibromomethane	<1.0	1.0		ug/L
1,2-Dibromoethane	<1.0	1.0		ug/L
Chlorobenzene	<1.0	1.0		ug/L
1,1,1,2-Tetrachloroethane	<2.0	2.0		ug/L
Ethylbenzene	<1.0	1.0		ug/L
Xylene, total	<3.0	3.0		ug/L
Styrene	<1.0	1.0		ug/L
Isopropylbenzene	<1.0	1.0		ug/L
Bromoform	<2.0	2.0		ug/L
1,1,2,2-Tetrachloroethane	<1.0	1.0		ug/L
1,2,3-Trichloropropane	<1.0	1.0		ug/L
n-Propylbenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-013
STATION ID: MW-15BR-1
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<1.0	1.0		ug/L
1,3,5-Trimethylbenzene	<1.0	1.0		ug/L
2-Chlorotoluene	<1.0	1.0		ug/L
4-Chlorotoluene	<1.0	1.0		ug/L
tert-Butylbenzene	<2.0	2.0		ug/L
1,2,4-Trimethylbenzene	<1.0	1.0		ug/L
sec-Butylbenzene	<1.0	1.0		ug/L
p-Isopropyltoluene	<1.0	1.0		ug/L
1,3-Dichlorobenzene	<1.0	1.0		ug/L
1,4-Dichlorobenzene	<1.0	1.0		ug/L
n-Butylbenzene	<1.0	1.0		ug/L
1,2-Dichlorobenzene	<1.0	1.0		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L
1,2,4-Trichlorobenzene	<1.0	1.0		ug/L
Hexachlorobutadiene	<1.0	1.0		ug/L
Naphthalene	<5.0	5.0		ug/L
1,2,3-Trichlorobenzene	<1.0	1.0		ug/L



PAGE: 1

PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-014
STATION ID: MW-15BR-2
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<2.0	2.0		ug/L
Chloromethane	<1.0	1.0		ug/L
Vinyl chloride	<1.0	1.0		ug/L
Bromomethane	<5.0	5.0		ug/L
Chloroethane	<1.0	1.0		ug/L
Fluorotrichloromethane	<1.0	1.0		ug/L
1,1-Dichloroethene	<1.0	1.0		ug/L
Methylene chloride	<1.0	1.0		ug/L
trans-1,2-Dichloroethene	<1.0	1.0		ug/L
1,1-Dichloroethane	<1.0	1.0		ug/L
2,2-Dichloropropane	<2.0	2.0		ug/L
cis-1,2-Dichloroethene	<1.0	1.0		ug/L
Chloroform	<1.0	1.0		ug/L
Bromochloromethane	<1.0	1.0		ug/L
1,1,1-Trichloroethane	<1.0	1.0		ug/L
1,1-Dichloropropene	<1.0	1.0		ug/L
Carbon tetrachloride	<1.0	1.0		ug/L
1,2-Dichloroethane	<1.0	1.0		ug/L
Benzene	<1.0	1.0		ug/L
Trichloroethene	<1.0	1.0		ug/L
1,2-Dichloropropane	<1.0	1.0		ug/L
Bromodichloromethane	<1.0	1.0		ug/L
Dibromomethane	<1.0	1.0		ug/L
cis-1,3-Dichloropropene	<1.0	1.0		ug/L
Toluene	1.6	1.0		ug/L
trans-1,3-Dichloropropene	<1.0	1.0		ug/L
1,1,2-Trichloroethane	<1.0	1.0		ug/L
Tetrachloroethene	<2.0	2.0		ug/L
1,3-Dichloropropane	<2.0	2.0		ug/L
Chlorodibromomethane	<1.0	1.0		ug/L
1,2-Dibromoethane	<1.0	1.0		ug/L
Chlorobenzene	<1.0	1.0		ug/L
1,1,1,2-Tetrachloroethane	<2.0	2.0		ug/L
Ethylbenzene	<1.0	1.0		ug/L
Xylene, total	<3.0	3.0		ug/L
Styrene	<1.0	1.0		ug/L
Isopropylbenzene	<1.0	1.0		ug/L
Bromoform	<2.0	2.0		ug/L
1,1,2,2-Tetrachloroethane	<1.0	1.0		ug/L
1,2,3-Trichloropropane	<1.0	1.0		ug/L
n-Propylbenzene	<1.0	1.0		ug/L

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PROJECT NAME: TECUMSEH
 PROJECT NUMBER: 03084.05
 LAB SAMPLE NUMBER: 6144-014
 STATION ID: MW-15BR-2
 WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
 COLLECTION DATE: 12/14/94
 ANALYSIS DATE: 12/20/94
 METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Bromobenzene	<1.0	1.0		ug/L
1,3,5-Trimethylbenzene	<1.0	1.0		ug/L
2-Chlorotoluene	<1.0	1.0		ug/L
4-Chlorotoluene	<1.0	1.0		ug/L
tert-Butylbenzene	<2.0	2.0		ug/L
1,2,4-Trimethylbenzene	<1.0	1.0		ug/L
sec-Butylbenzene	<1.0	1.0		ug/L
p-Isopropyltoluene	<1.0	1.0		ug/L
1,3-Dichlorobenzene	<1.0	1.0		ug/L
1,4-Dichlorobenzene	<1.0	1.0		ug/L
n-Butylbenzene	<1.0	1.0		ug/L
1,2-Dichlorobenzene	<1.0	1.0		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L
1,2,4-Trichlorobenzene	<1.0	1.0		ug/L
Hexachlorobutadiene	<1.0	1.0		ug/L
Naphthalene	<5.0	5.0		ug/L
1,2,3-Trichlorobenzene	<1.0	1.0		ug/L



PAGE: 1

PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-015
STATION ID: MW-3BR-1
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Dichlorodifluoromethane	<10	10		ug/L
Chloromethane	<5.0	5.0		ug/L
Vinyl chloride	<5.0	5.0		ug/L
Bromomethane	<25	25		ug/L
Chloroethane	<5.0	5.0		ug/L
Fluorotrichloromethane	<5.0	5.0		ug/L
1,1-Dichloroethene	13	5.0		ug/L
Methylene chloride	<5.0	5.0		ug/L
trans-1,2-Dichloroethene	<5.0	5.0		ug/L
1,1-Dichloroethane	65	5.0		ug/L
2,2-Dichloropropane	<10	10		ug/L
cis-1,2-Dichloroethene	45	5.0		ug/L
Chloroform	<5.0	5.0		ug/L
Bromochloromethane	<5.0	5.0		ug/L
1,1,1-Trichloroethane	120	5.0		ug/L
1,1-Dichloropropene	<5.0	5.0		ug/L
Carbon tetrachloride	<5.0	5.0		ug/L
1,2-Dichloroethane	<5.0	5.0		ug/L
Benzene	<5.0	5.0		ug/L
Trichloroethene	88	5.0		ug/L
1,2-Dichloropropane	<5.0	5.0		ug/L
Bromodichloromethane	<5.0	5.0		ug/L
Dibromomethane	<5.0	5.0		ug/L
cis-1,3-Dichloropropene	<5.0	5.0		ug/L
Toluene	<5.0	5.0		ug/L
trans-1,3-Dichloropropene	<5.0	5.0		ug/L
1,1,2-Trichloroethane	<5.0	5.0		ug/L
Tetrachloroethene	<10	10		ug/L
1,3-Dichloropropane	<10	10		ug/L
Chlorodibromomethane	<5.0	5.0		ug/L
1,2-Dibromoethane	<5.0	5.0		ug/L
Chlorobenzene	<5.0	5.0		ug/L
1,1,1,2-Tetrachloroethane	<10	10		ug/L
Ethylbenzene	<5.0	5.0		ug/L
Xylene, total	<15	15		ug/L
Styrene	<5.0	5.0		ug/L
Isopropylbenzene	<5.0	5.0		ug/L
Bromoform	<10	10		ug/L
1,1,2,2-Tetrachloroethane	<5.0	5.0		ug/L
1,2,3-Trichloropropane	<5.0	5.0		ug/L
n-Propylbenzene	<5.0	5.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-015
STATION ID: MW-3BR-1
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<5.0	5.0		ug/L
1,3,5-Trimethylbenzene	<5.0	5.0		ug/L
2-Chlorotoluene	<5.0	5.0		ug/L
4-Chlorotoluene	<5.0	5.0		ug/L
tert-Butylbenzene	<10	10		ug/L
1,2,4-Trimethylbenzene	<5.0	5.0		ug/L
sec-Butylbenzene	<5.0	5.0		ug/L
p-Isopropyltoluene	<5.0	5.0		ug/L
1,3-Dichlorobenzene	<5.0	5.0		ug/L
1,4-Dichlorobenzene	<5.0	5.0		ug/L
n-Butylbenzene	<5.0	5.0		ug/L
1,2-Dichlorobenzene	<5.0	5.0		ug/L
1,2-Dibromo-3-chloropropane	<5.0	5.0		ug/L
1,2,4-Trichlorobenzene	<5.0	5.0		ug/L
Hexachlorobutadiene	<5.0	5.0		ug/L
Naphthalene	<25	25		ug/L
1,2,3-Trichlorobenzene	<5.0	5.0		ug/L



PROJECT NAME: TECUMSEH
 PROJECT NUMBER: 03084.05
 LAB SAMPLE NUMBER: 6144-016
 STATION ID: MW-3BR-2
 WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
 COLLECTION DATE: 12/14/94
 ANALYSIS DATE: 12/20/94
 METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<20	20		ug/L
Chloromethane	<10	10		ug/L
Vinyl chloride	<10	10		ug/L
Bromomethane	<50	50		ug/L
Chloroethane	<10	10		ug/L
Fluorotrichloromethane	<10	10		ug/L
1,1-Dichloroethene	56	10		ug/L
Methylene chloride	<10	10		ug/L
trans-1,2-Dichloroethene	<10	10		ug/L
1,1-Dichloroethane	190	10		ug/L
2,2-Dichloropropane	<20	20		ug/L
cis-1,2-Dichloroethene	20	10		ug/L
Chloroform	<10	10		ug/L
Bromochloromethane	<10	10		ug/L
1,1,1-Trichloroethane	140	10		ug/L
1,1-Dichloropropene	<10	10		ug/L
Carbon tetrachloride	<10	10		ug/L
1,2-Dichloroethane	<10	10		ug/L
Benzene	<10	10		ug/L
Trichloroethene	310	10		ug/L
1,2-Dichloropropane	<10	10		ug/L
Bromodichloromethane	<10	10		ug/L
Dibromomethane	<10	10		ug/L
cis-1,3-Dichloropropene	<10	10		ug/L
Toluene	<10	10		ug/L
trans-1,3-Dichloropropene	<10	10		ug/L
1,1,2-Trichloroethane	<10	10		ug/L
Tetrachloroethene	<20	20		ug/L
1,3-Dichloropropane	<20	20		ug/L
Chlorodibromomethane	<10	10		ug/L
1,2-Dibromoethane	<10	10		ug/L
Chlorobenzene	<10	10		ug/L
1,1,1,2-Tetrachloroethane	<20	20		ug/L
Ethylbenzene	<10	10		ug/L
Xylene, total	<30	30		ug/L
Styrene	<10	10		ug/L
Isopropylbenzene	<10	10		ug/L
Bromoform	<20	20		ug/L
1,1,2,2-Tetrachloroethane	<10	10		ug/L
1,2,3-Trichloropropane	<10	10		ug/L
n-Propylbenzene	<10	10		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-016
STATION ID: MW-3BR-2
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
=====	=====	=====	=====	=====
Bromobenzene	<10	10		ug/L
1,3,5-Trimethylbenzene	<10	10		ug/L
2-Chlorotoluene	<10	10		ug/L
4-Chlorotoluene	<10	10		ug/L
tert-Butylbenzene	<20	20		ug/L
1,2,4-Trimethylbenzene	<10	10		ug/L
sec-Butylbenzene	<10	10		ug/L
p-Isopropyltoluene	<10	10		ug/L
1,3-Dichlorobenzene	<10	10		ug/L
1,4-Dichlorobenzene	<10	10		ug/L
n-Butylbenzene	<10	10		ug/L
1,2-Dichlorobenzene	<10	10		ug/L
1,2-Dibromo-3-chloropropane	<10	10		ug/L
1,2,4-Trichlorobenzene	<10	10		ug/L
Hexachlorobutadiene	<10	10		ug/L
Naphthalene	<50	50		ug/L
1,2,3-Trichlorobenzene	<10	10		ug/L



PAGE: 1

PROJECT NAME: TECUMSEH
 PROJECT NUMBER: 03084.05
 LAB SAMPLE NUMBER: 6144-017
 STATION ID: MW-3BR-3
 WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
 COLLECTION DATE: 12/14/94
 ANALYSIS DATE: 12/20/94
 METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<10	10		ug/L
Chloromethane	<5.0	5.0		ug/L
Vinyl chloride	<5.0	5.0		ug/L
Bromomethane	<25	25		ug/L
Chloroethane	<5.0	5.0		ug/L
Fluorotrichloromethane	<5.0	5.0		ug/L
1,1-Dichloroethene	8.6	5.0		ug/L
Methylene chloride	<5.0	5.0		ug/L
trans-1,2-Dichloroethene	<5.0	5.0		ug/L
1,1-Dichloroethane	39	5.0		ug/L
2,2-Dichloropropane	<10	10		ug/L
cis-1,2-Dichloroethene	25	5.0		ug/L
Chloroform	<5.0	5.0		ug/L
Bromochloromethane	<5.0	5.0		ug/L
1,1,1-Trichloroethane	28	5.0		ug/L
1,1-Dichloropropene	<5.0	5.0		ug/L
Carbon tetrachloride	<5.0	5.0		ug/L
1,2-Dichloroethane	<5.0	5.0		ug/L
Benzene	<5.0	5.0		ug/L
Trichloroethene	270	5.0		ug/L
1,2-Dichloropropane	<5.0	5.0		ug/L
Bromodichloromethane	<5.0	5.0		ug/L
Dibromomethane	<5.0	5.0		ug/L
cis-1,3-Dichloropropene	<5.0	5.0		ug/L
Toluene	<5.0	5.0		ug/L
trans-1,3-Dichloropropene	<5.0	5.0		ug/L
1,1,2-Trichloroethane	<5.0	5.0		ug/L
Tetrachloroethene	<10	10		ug/L
1,3-Dichloropropane	<10	10		ug/L
Chlorodibromomethane	<5.0	5.0		ug/L
1,2-Dibromoethane	<5.0	5.0		ug/L
Chlorobenzene	<5.0	5.0		ug/L
1,1,1,2-Tetrachloroethane	<10	10		ug/L
Ethylbenzene	<5.0	5.0		ug/L
Xylene, total	<15	15		ug/L
Styrene	<5.0	5.0		ug/L
Isopropylbenzene	<5.0	5.0		ug/L
Bromoform	<10	10		ug/L
1,1,2,2-Tetrachloroethane	<5.0	5.0		ug/L
1,2,3-Trichloropropane	<5.0	5.0		ug/L
n-Propylbenzene	<5.0	5.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-017
STATION ID: MW-3BR-3
WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<5.0	5.0		ug/L
1,3,5-Trimethylbenzene	<5.0	5.0		ug/L
2-Chlorotoluene	<5.0	5.0		ug/L
4-Chlorotoluene	<5.0	5.0		ug/L
tert-Butylbenzene	<10	10		ug/L
1,2,4-Trimethylbenzene	<5.0	5.0		ug/L
sec-Butylbenzene	<5.0	5.0		ug/L
p-Isopropyltoluene	<5.0	5.0		ug/L
1,3-Dichlorobenzene	<5.0	5.0		ug/L
1,4-Dichlorobenzene	<5.0	5.0		ug/L
n-Butylbenzene	<5.0	5.0		ug/L
1,2-Dichlorobenzene	<5.0	5.0		ug/L
1,2-Dibromo-3-chloropropane	<5.0	5.0		ug/L
1,2,4-Trichlorobenzene	<5.0	5.0		ug/L
Hexachlorobutadiene	<5.0	5.0		ug/L
Naphthalene	<25	25		ug/L
1,2,3-Trichlorobenzene	<5.0	5.0		ug/L



Madison, WI 53717
744 Heartland Trail
Phone (608) 831-4444
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Columbus, OH
Milwaukee, WI

Nashville, TN
Greenville, SC

Augusta, GA
Lansing, MI

Chicago, IL
Los Angeles, CA

Cincinnati, OH
Madison, WI

LABORATORIES

F-268 (R2/92)
(Use Black Ink Only)

CHAIN OF CUSTODY RECORD

№ 053854

Bottles Prepared by: *Rmg* Date/Time: *12-8-94 4:00p*

Project No: *3084.05* Client: *Tecumseh*

Total Number
Of Containers

Container Inventory										Filtered (Yes/No)	
										Preserved (Code)	
60 ml PI 40 ml vial										Code: A - None	
										B - HNO3	
MATRIX GW										C - H ₂ SO ₄	
										D - NaOH	
										E - HCl	
										F - _____	
										Comments:	

Lab No.	Yr.	Date	Time	Sample Station ID	Total Number Of Containers
001	94			Temp Blank	1
002				Trip Blank	2
003	12-14	9:10		MW-12	3
004	12-14	9:55		MW-12BR	3
005	12-14	10:00		MW-9D	3
006	12-14	11:55		MW-8D	3
007	12-14	12:30		MW-13BR-1	3
008	12-14	12:40		MW-13BR-2	3
009	12-14	12:40		MW-3D	3
010	12-14	12:50		MW-13BR-3	3
011	12-14	3:00		MW-14BR	3
012	12-14	5:15		MW-11	3
013	12-14	3:40		MW-15BR-1	3

DS
12/15/94

Relinquished by (Sig.) ① <i>[Signature]</i>	Date/Time <i>12-15-94 12:30AM</i>	Received by (Sig.) ② <i>WALK-IN</i>	Date/Time <i>12-30 12:30PM</i>
Relinquished by (Sig.) ③	Date/Time	Received by (Sig.) ④	Date/Time
Relinquished by (Sig.) ⑤ <i>WALK-IN</i>	Date/Time <i>12-15-94 9:30AM</i>	Received by (Sig.) ⑥ <i>P. Johnson</i>	Date/Time <i>12-15-94 9:30AM</i>

HAZARDS ASSOCIATED WITH SAMPLES

(For Lab Use Only)

Receipt Temp: *30C* Receipt pH: *N/A*

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Custody Seal	Present/Absent	Seal	Intact	Intact	Seal #'s
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LABORATORIES

F-268 (R2/92)
(Use Black Ink Only)

Madison, WI 53717
744 Heartland Trail
Phone (608) 831-4444
FAX (608) 831-7530

Fox Valley, WI
Columbus, OH
Milwaukee, WI

Nashville, TN
Greenville, SC

Augusta, GA
Lansing, MI

Chicago, IL
Los Angeles, CA

Cincinnati, OH
Madison, WI

CHAIN OF CUSTODY RECORD

No 053895

Bottles Prepared by: Date/Time
Project No. Client:
3084.05 Tecumseh

Table with columns: Lab No., Yr. 94, Date, Time, Sample Station ID, Total Number Of Containers. Includes handwritten entries for lab numbers 014, 015, 016, 017 and sample IDs MW-15BR-2, MW-3BR-1, MW-3BR-2, MW-3BR-3.

Container Inventory table with columns for A, E, and Matrix. Includes handwritten entries '60 no PL' and '40 no Uial'.

Filtered (Yes/No) Preserved (Code)
Code: A - None
B - HNO3
C - H2SO4
D - NaOH
E - HCl
F - _____

SAMPLER Relinquished by (Sig.) Date/Time Received by (Sig.) Date/Time
1 Lead Brewed 12-15-94 12:30am Walk-IN 12-15 12:30am
2
3
4
5 Walk-IN 12-15-94 9:30am P. Johnson 12-15-94 9:30am
6

HAZARDS ASSOCIATED WITH SAMPLES
(For Lab Use Only)
Receipt Temp 3°C Receipt pH 11/8

Custody Seal Present/Absent Seal Intac Intact Seal #'s



PROJECT NAME: TECUMSEH
 PROJECT NO: 03084.07
 WORK ORDER NO: 6280

REPORT DATE: 01/18/95
 PAGE NO: 1

<u>SAMPLE NO.</u>	<u>STATION ID</u>	<u>COLL. DATE</u>	<u>SAMPLE NO.</u>	<u>STATION ID</u>	<u>COLL. DATE</u>
6280-002	TRIP BLANK	---			
6280-003	MW-11	01/09/95			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and RMT Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by RMT Laboratory management, as is verified by the following signature.

Karin P. Meyer
 Approval Signature

11/19/95
 Date

 Lab Cert. #: WI DNR 113138520, MN DNR 055-999-107, SC DHEC 83001, TN DOH 02916

PROJECT NAME: TECUMSEH
 PROJECT NUMBER: 03084.07
 LAB SAMPLE NUMBER: 6280-002
 STATION ID: TRIP BLANK
 WI DNR LAB ID: 113138520

REPORT DATE: 01/18/95
 COLLECTION DATE:
 ANALYSIS DATE: 01/13/95
 METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Dichlorodifluoromethane	<2.0	2.0		ug/L
Chloromethane	<1.0	1.0		ug/L
Vinyl chloride	<1.0	1.0		ug/L
Bromomethane	<5.0	5.0		ug/L
Chloroethane	<1.0	1.0		ug/L
Fluorotrichloromethane	<1.0	1.0		ug/L
1,1-Dichloroethene	<1.0	1.0		ug/L
Methylene chloride	<1.0	1.0		ug/L
trans-1,2-Dichloroethene	<1.0	1.0		ug/L
1,1-Dichloroethane	<1.0	1.0		ug/L
2,2-Dichloropropane	<2.0	2.0		ug/L
cis-1,2-Dichloroethene	<1.0	1.0		ug/L
Chloroform	<1.0	1.0		ug/L
Bromochloromethane	<1.0	1.0		ug/L
1,1,1-Trichloroethane	<1.0	1.0		ug/L
1,1-Dichloropropene	<1.0	1.0		ug/L
Carbon tetrachloride	<1.0	1.0		ug/L
1,2-Dichloroethane	<1.0	1.0		ug/L
Benzene	<1.0	1.0		ug/L
Trichloroethene	<1.0	1.0		ug/L
1,2-Dichloropropane	<1.0	1.0		ug/L
Bromodichloromethane	<1.0	1.0		ug/L
Dibromomethane	<1.0	1.0		ug/L
cis-1,3-Dichloropropene	<1.0	1.0		ug/L
Toluene	<1.0	1.0		ug/L
trans-1,3-Dichloropropene	<1.0	1.0		ug/L
1,1,2-Trichloroethane	<1.0	1.0		ug/L
Tetrachloroethene	<2.0	2.0		ug/L
1,3-Dichloropropane	<2.0	2.0		ug/L
Chlorodibromomethane	<1.0	1.0		ug/L
1,2-Dibromoethane	<1.0	1.0		ug/L
Chlorobenzene	<1.0	1.0		ug/L
1,1,1,2-Tetrachloroethane	<2.0	2.0		ug/L
Ethylbenzene	<1.0	1.0		ug/L
Xylene, total	<3.0	3.0		ug/L
Styrene	<1.0	1.0		ug/L
Isopropylbenzene	<1.0	1.0		ug/L
Bromoform	<2.0	2.0		ug/L
1,1,2,2-Tetrachloroethane	<1.0	1.0		ug/L
1,2,3-Trichloropropane	<1.0	1.0		ug/L
n-Propylbenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.07
LAB SAMPLE NUMBER: 6280-002
STATION ID: TRIP BLANK
WI DNR LAB ID: 113138520

REPORT DATE: 01/18/95
COLLECTION DATE:
ANALYSIS DATE: 01/13/95
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<1.0	1.0		ug/L
1,3,5-Trimethylbenzene	<1.0	1.0		ug/L
2-Chlorotoluene	<1.0	1.0		ug/L
4-Chlorotoluene	<1.0	1.0		ug/L
tert-Butylbenzene	<2.0	2.0		ug/L
1,2,4-Trimethylbenzene	<1.0	1.0		ug/L
sec-Butylbenzene	<1.0	1.0		ug/L
p-Isopropyltoluene	<1.0	1.0		ug/L
1,3-Dichlorobenzene	<1.0	1.0		ug/L
1,4-Dichlorobenzene	<1.0	1.0		ug/L
n-Butylbenzene	<1.0	1.0		ug/L
1,2-Dichlorobenzene	<1.0	1.0		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L
1,2,4-Trichlorobenzene	<1.0	1.0		ug/L
Hexachlorobutadiene	<1.0	1.0		ug/L
Naphthalene	<5.0	5.0		ug/L
1,2,3-Trichlorobenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH
 PROJECT NUMBER: 03084.07
 LAB SAMPLE NUMBER: 6280-003
 STATION ID: MW-11
 WI DNR LAB ID: 113138520

REPORT DATE: 01/18/95
 COLLECTION DATE: 01/09/95
 ANALYSIS DATE: 01/13/95
 METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<40	40		ug/L
Chloromethane	<20	20		ug/L
Vinyl chloride	<20	20		ug/L
Bromomethane	<100	100		ug/L
Chloroethane	<20	20		ug/L
Fluorotrichloromethane	<20	20		ug/L
1,1-Dichloroethene	<20	20		ug/L
Methylene chloride	<20	20		ug/L
trans-1,2-Dichloroethene	<20	20		ug/L
1,1-Dichloroethane	<20	20		ug/L
2,2-Dichloropropane	<40	40		ug/L
cis-1,2-Dichloroethene	<20	20		ug/L
Chloroform	<20	20		ug/L
Bromochloromethane	<20	20		ug/L
1,1,1-Trichloroethane	<20	20		ug/L
1,1-Dichloropropene	<20	20		ug/L
Carbon tetrachloride	<20	20		ug/L
1,2-Dichloroethane	<20	20		ug/L
Benzene	<20	20		ug/L
Trichloroethene	600	20		ug/L
1,2-Dichloropropane	<20	20		ug/L
Bromodichloromethane	<20	20		ug/L
Dibromomethane	<20	20		ug/L
cis-1,3-Dichloropropene	<20	20		ug/L
Toluene	<20	20		ug/L
trans-1,3-Dichloropropene	<20	20		ug/L
1,1,2-Trichloroethane	<20	20		ug/L
Tetrachloroethene	<40	40		ug/L
1,3-Dichloropropane	<40	40		ug/L
Chlorodibromomethane	<20	20		ug/L
1,2-Dibromoethane	<20	20		ug/L
Chlorobenzene	<20	20		ug/L
1,1,1,2-Tetrachloroethane	<40	40		ug/L
Ethylbenzene	<20	20		ug/L
Xylene, total	<60	60		ug/L
Styrene	<20	20		ug/L
Isopropylbenzene	<20	20		ug/L
Bromoform	<40	40		ug/L
1,1,2,2-Tetrachloroethane	<20	20		ug/L
1,2,3-Trichloropropane	<20	20		ug/L
n-Propylbenzene	<20	20		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.07
LAB SAMPLE NUMBER: 6280-003
STATION ID: MW-11
WI DNR LAB ID: 113138520

REPORT DATE: 01/18/95
COLLECTION DATE: 01/09/95
ANALYSIS DATE: 01/13/95
METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Bromobenzene	<20	20		ug/L
1,3,5-Trimethylbenzene	<20	20		ug/L
2-Chlorotoluene	<20	20		ug/L
4-Chlorotoluene	<20	20		ug/L
tert-Butylbenzene	<40	40		ug/L
1,2,4-Trimethylbenzene	<20	20		ug/L
sec-Butylbenzene	<20	20		ug/L
p-Isopropyltoluene	<20	20		ug/L
1,3-Dichlorobenzene	<20	20		ug/L
1,4-Dichlorobenzene	<20	20		ug/L
n-Butylbenzene	<20	20		ug/L
1,2-Dichlorobenzene	<20	20		ug/L
1,2-Dibromo-3-chloropropane	<20	20		ug/L
1,2,4-Trichlorobenzene	<20	20		ug/L
Hexachlorobutadiene	<20	20		ug/L
Naphthalene	<100	100		ug/L
1,2,3-Trichlorobenzene	<20	20		ug/L

40/40

APPENDIX D

RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER - RESIDENTIAL WELLS



PROJECT NAME: TECUMSEH - GRAFTON
PROJECT NO: 03084.09
WORK ORDER NO: 6042
WI DNR LAB ID: 113138520

REPORT DATE: 12/05/94
PAGE NO: 1

<u>SAMPLE NO.</u>	<u>STATION ID</u>	<u>COLL. DATE</u>	<u>SAMPLE NO.</u>	<u>STATION ID</u>	<u>COLL. DATE</u>
6042-002	TRIP BLANK	12/01/94			
6042-003	PW-36	12/01/94			
6042-004	PW-5	12/01/94			
6042-005	PW-38	12/01/94			
6042-006	PW-101	12/01/94			
6042-007	PW-102	12/01/94			
6042-008	PW-30	12/01/94			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and RMT Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by RMT Laboratory management, as is verified by the following signature.

Gene P. Meek
Approval Signature

12/5/94
Date

1/18



PAGE: 1

PROJECT NAME: TECUMSEH - GRAFTON
PROJECT NUMBER: 03084.09
LAB SAMPLE NUMBER: 6042-002
STATION ID: TRIP BLANK
WI DNR LAB ID: 113138520

REPORT DATE: 12/05/94
COLLECTION DATE: 12/01/94
ANALYSIS DATE: 12/02/94
METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

<u>COMPOUND</u>	<u>RESULT</u>	<u>EQL</u>	<u>CODE</u>	<u>UNITS</u>
Chloromethane	<0.5	0.5		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	0.3	0.5	Q	ug/L
Acetone	7.2	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



PAGE: 1

PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6042-003
 STATION ID: PW-36 (1385GBR)
 WI DNR LAB ID: 113138520

REPORT DATE: 12/06/94
 COLLECTION DATE: 12/01/94
 ANALYSIS DATE: 12/02/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<0.5	0.5		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	0.1	0.5	Q	ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	0.3	0.5	Q	ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L

Notes: 1) EQL = Estimated quantitation limit (this is the lowest concentration that can be detected and measured within specified limits of precision and accuracy).
 2) "Q" indicates that the reported concentration is less than the limit of quantitation (EQL) for the analytical method. 3) Methylene chloride is a common laboratory contaminant that was also detected in the trip blank for this sample.



PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6042-004
 STATION ID: PW-5 (1335 GBR)
 WI DNR LAB ID: 113138520

REPORT DATE: 12/06/94
 COLLECTION DATE: 12/01/94
 ANALYSIS DATE: 12/02/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<0.5	0.5		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	0.7	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	0.9	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	0.5	0.5	Q	ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L

Notes: 1) EQL = Estimated quantitation limit (this is the lowest concentration that can be detected and measured within specified limits of precision and accuracy).
 2) "Q" indicates that the reported concentration is less than the limit of quantitation (EQL) for the analytical method.



PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6042-005
 STATION ID: PW-38 (1347, 1355 GBR)
 WI DNR LAB ID: 113138520

REPORT DATE: 12/06/94
 COLLECTION DATE: 12/01/94
 ANALYSIS DATE: 12/02/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<0.5	0.5		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	0.5	0.5	Q	ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	1.8	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	1.1	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	0.4	0.5	Q	ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L

Notes: 1) EQL = Estimated quantitation limit (this is the lowest concentration that can be detected and measured within specified limits of precision and accuracy).
 2) "Q" indicates that the reported concentration is less than the limit of quantitation (EQL) for the analytical method.



PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6042-006
 STATION ID: PW-101 (1386a GBR)
 WI DNR LAB ID: 113138520

REPORT DATE: 12/06/94
 COLLECTION DATE: 12/01/94
 ANALYSIS DATE: 12/02/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<0.5	0.5		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	0.1	0.5	Q	ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L

Notes: 1) EQL = Estimated quantitation limit (this is the lowest concentration that can be detected and measured within specified limits of precision and accuracy).
 2) "Q" indicates that the reported concentration is less than the limit of quantitation (EQL) for the analytical method.



PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6042-007
 STATION ID: PW-102 (1386b GBR)
 WI DNR LAB ID: 113138520

REPORT DATE: 12/06/94
 COLLECTION DATE: 12/01/94
 ANALYSIS DATE: 12/02/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<0.5	0.5		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	12	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropane	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropane	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	2.8	5.0	Q	ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L

Notes: 1) EQL = Estimated quantitation limit (this is the lowest concentration that can be detected and measured within specified limits of precision and accuracy).
 2) "Q" indicates that the reported concentration is less than the limit of quantitation (EQL) for the analytical method. 3) Acetone is a common laboratory contaminant that was also detected in the trip blank for this sample.



PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6042-008
 STATION ID: PW-30(1319 GBR)
 WI DNR LAB ID: 113138520

REPORT DATE: 12/06/94
 COLLECTION DATE: 12/01/94
 ANALYSIS DATE: 12/02/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<0.5	0.5		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	0.2	0.5	Q	ug/L
1,1-Dichloroethane	2.8	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	2.0	0.5		ug/L
Chloroform	0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	2.3	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	1.4	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	0.2	0.5	Q	ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L

Notes: 1) EQL = Estimated quantitation limit (this is the lowest concentration that can be detected and measured within specified limits of precision and accuracy).
 2) "Q" indicates that the reported concentration is less than the limit of quantitation (EQL) for the analytical method.



PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NO: 03084.09
 WORK ORDER NO: 6210

REPORT DATE: 12/28/94
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<u>SAMPLE NO.</u>	<u>STATION ID</u>	<u>COLL. DATE</u>	<u>SAMPLE NO.</u>	<u>STATION ID</u>	<u>COLL. DATE</u>
6210-002	TRIP BLANK	---			
6210-003	PW-5	12/19/94			
6210-004	PW-36	12/19/94			
6210-005	PW-38	12/19/94			
6210-006	PW-30	12/19/94			
6210-007	PW-101	12/19/94			
6210-008	PW-102	12/19/94			
6210-009	STORAGE BLANK	---			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and RMT Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by RMT Laboratory management, as is verified by the following signature.

Ken P. Mas
 Approval Signature

12/28/94
 Date

Lab Cert. #: WI DNR 113138520, MN DNR 055-999-107, SC DHEC 83001, TN DOH 02916



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PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6210-002
 STATION ID: TRIP BLANK
 WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94
 COLLECTION DATE:
 ANALYSIS DATE: 12/21/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	0.2	0.5	Q	ug/L
Acetone	5.0	5.0	B(4)	ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	0.06	0.5	Q	ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



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PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6210-003
 STATION ID: PW-5
 WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94
 COLLECTION DATE: 12/19/94
 ANALYSIS DATE: 12/21/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	0.4	0.5	Q	ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	0.6	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	0.3	0.5	Q	ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6210-004
 STATION ID: PW-36
 WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94
 COLLECTION DATE: 12/19/94
 ANALYSIS DATE: 12/21/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	0.1	0.5	Q	ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	0.3	0.5	Q	ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



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PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6210-005
 STATION ID: PW-38
 WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94
 COLLECTION DATE: 12/19/94
 ANALYSIS DATE: 12/22/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	0.2	0.5	Q	ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	1.0	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	0.7	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	0.5	0.5	Q	ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



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PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6210-006
 STATION ID: PW-30
 WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94
 COLLECTION DATE: 12/19/94
 ANALYSIS DATE: 12/22/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	0.2	0.5	Q	ug/L
1,1-Dichloroethane	2.3	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	1.9	0.5		ug/L
Chloroform	0.4	0.5	Q	ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	2.1	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	1.4	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	0.2	0.5	Q	ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



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PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6210-007
 STATION ID: PW-101
 WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94
 COLLECTION DATE: 12/19/94
 ANALYSIS DATE: 12/22/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	0.1	0.5	Q	ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



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PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6210-008
 STATION ID: PW-102
 WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94
 COLLECTION DATE: 12/19/94
 ANALYSIS DATE: 12/22/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	0.1	0.5	Q	ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



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PROJECT NAME: TECUMSEH - GRAFTON
 PROJECT NUMBER: 03084.09
 LAB SAMPLE NUMBER: 6210-009
 STATION ID: STORAGE BLANK
 WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94
 COLLECTION DATE:
 ANALYSIS DATE: 12/22/94
 METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	0.2	0.5	Q	ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



Organic GC/MS Data Qualifier Sheet

- B(n) Analyte is present in the method blank. If the processes that were applied to the sample were applied to the method blank, the value of the analyte in the method blank would likely be "n".
- D Analyte value from a diluted analysis.
- E Analyte concentration exceeds calibration range (see Sample Narrative).
- H(n) Analysis performed "n" days past holding time.
- J Estimated concentration of tentatively identified compounds (TICs).
- K Concentration may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
- NR Not required.
- Q Qualitative mass spectral evidence of analyte present; concentration is less than the reporting limit.
- U Analyte undetected.
- W Sample received with headspace.

APPENDIX E
IDENTIFICATION OF POTENTIAL SOURCE AREAS



TECUMSEH PRODUCTS COMPANY

ENGINE AND TRANSMISSION GROUP

NEW HOLSTEIN OPERATIONS
1604 MICHIGAN AVENUE
NEW HOLSTEIN, WISCONSIN 53061-1175

PHONE: 414-898-5711
FAX: 414-898-4576

January 25, 1995

ATTN: Mr. Scott J. Ferguson
Wisconsin Department of Natural Resources
4041 North Richards Street
P.O. Box 12436
Milwaukee, WI 53212

RE: SOIL AND GROUNDWATER HAZARDOUS WASTE DETERMINATION

Dear Mr. Ferguson,

This letter is in response to your letter of December 22, 1994 which requested that a hazardous waste determination be made for the soil and groundwater contaminated with chlorinated volatile organics at the Tecumseh facility. As a preliminary matter, Tecumseh does not consider the in-place soil and groundwater to be a solid waste. It would only arguably become a solid waste if it has to be removed and disposed offsite. Nonetheless, Tecumseh understands the importance of determining the origin of the chlorinated solvents in the soil and groundwater and has attempted to do so. However, that is not a simple task given the fact that Tecumseh has been operating at this location since approximately 1955 and a predecessor, Power Products, had operated there since approximately 1952. Based upon a review of the limited records available, discussions with employees, and soil and groundwater results, Tecumseh believes as follows:

TCE

TCE was apparently used from the 1950s to the middle to late 1960s for degreasing purposes. During this period, degreasing primarily occurred in the northwest corner of the original building in an at-grade degreaser. Degreasing was also done in the southeast area of the original building in an at-grade dip tank which was replaced by a "Manpro" degreaser in approximately 1966. Incidental product spills from the degreasers in the southeast area may have entered the subsurface through cracks in the floor or through floor drains.

During the period TCE was used, waste management activities occurred primarily on a concrete dock area in the northwest corner of the original building (see Figure 1; hereafter west dock area). TCE awaiting disposal off-site was accumulated in

55-gallon drums at the west dock area. Some machine cleaning using chlorinated solvents was also apparently done at the west dock area. It is believed that the west dock area may be the origin of the TCE in the groundwater on the downgradient (east) side of the plant.

TCA

TCA replaced TCE as the primary degreaser sometime in the middle to late sixties. (Available historical usage rates are attached as Exhibit 1) At about that time, waste management activity was also moved to a new dock in the southeastern area of the original building. Machine cleaning also occurred in this area as well. Waste materials were generally accumulated in large containers i.e. liquid lugger boxes (LLB) (as opposed to barrels) awaiting off-site disposal. This area was enclosed in approximately 1975 and the waste management activity was moved to the current recycling dock located directly to the south.

The current recycling dock was constructed with a sump that is flush with the surface with its opening covered by a slotted storm sewer cover. The recycling dock is covered by a canopy and the floor is constructed with six inches of reinforced concrete, pitched to the sump located near the center. The sump was designed as part of the recycling dock for two main reasons:

1. Collection of excess nonhazardous machining coolant from the cast iron, and aluminum boring/chip trailers. Nonhazardous machining coolant (97% water, 3% soluble oil) is released from the borings/chips as the trailers are filled over a 3-4 day period. The machining coolant drains to the sump where it is then pumped into the transportable LLB; and
2. Collection of rain and snow (storm water) that is forced into the dock area by storms/wind. Storm water drains to the sump at the center of the dock and is pumped into the LLB.

Prior to 1981, the LLB would have also contained other liquid and oil wastes such as: kerosene, waste oils, waste TCA and TCA still bottoms, machining coolants, stoddard solvent, mineral spirits, paint booth water, and air compressor condensate water. During this time period, the LLB had a large sealable hatch. The large hatch made the emptying of waste liquids (typically 55-gallon barrels) easy and clean. The large opening also made it very easy to determine when the LLB was nearing capacity, thus minimizing any overfilling. When the LLB would reach capacity, the hatch was sealed shut and the vendor would transport the LLB to the disposal facility.

After 1983 hazardous waste streams were kept separate and disposed of in 55-gallon drums. The LLB was used only for

nonhazardous wastes and the style had changed to a manhole size hatch. Waste liquids were no longer dumped into the LLB but pumped instead. This style of manhole hatch and transfer of nonhazardous liquids is similar to today's operation.

While incidental spills of product and waste may have occurred during the late 1960s and 1970s in this area, as noted in the September 12, 1994 letter, Tecumseh is unaware of any discharges of waste chlorinated solvents accumulated in this area since at least 1980.

Additionally, in 1979, a new at-grade degreaser was installed in the southeast corner of the 1968 addition (see Figure 1). The TCA for the degreaser was supplied from a 4,000 gallon above-ground tank. The tank was filled using approximately 120 feet of 2-inches steel pipe that ran from the top of the tank across the ceiling, down the east plant wall to a valve and quick connect coupling outside the building wall. Deliveries of TCA by tank truck occurred at this point. It is believed that spills of TCA product occurred during the filling process and that these spills are the origins of much of the TCA in the groundwater on the downgradient edge of the facility.

SUMMARY

Tecumseh does not believe that intentional disposal of waste TCA or TCE systematically occurred on site. Rather it appears that: (1) the origin of most of the TCE can be related to activities (machine cleaning, waste accumulation) on the west dock and product spillage from the southeast degreasers; (2) the origin of most of the TCA can be related to filling operations for the engine degreaser in the southeast corner of the 1968 addition; and (3) waste management activities and machine cleaning in the area of the waste management dock and recycling dock prior to 1980 may have resulted in incidental spills for TCE and TCA.

If I can be of any further assistance, please give me a call.

Sincerely,
TECUMSEH PRODUCTS COMPANY



Kenry DeKeyser, CHMM
Group Environmental Manager

EXHIBIT 1

HISTORICAL CHEMICAL USAGE REPORT ANNUAL USAGE OF TRICHLOROETHANE (TCA)

YEAR	TCA GALLONS PURCHASED
Pre 1976	Not Available
1977	16,469
1978	Not Available
1979	22,244
1980	9,943
1981	7,064
1982	5,500
1983	7,166
1984	9,000
1985	8,133
1986	Not Available
1987	9,642
1988	8,669
1989	13,424
1990	10,834
1991	3,438
1992	528
1993	55
1994	0

